

STATISCHE BEREKENING

Onderwerp : Uitbreiding bedrijfsaccommodatie
(opslagruimte en ontvangstruimte)
Peelheideweg 12 te America

Projectnummer : **16-447**

Datum : 28-11-2016

Opdrachtgever : Bergerhei Verhuur B.V.
Peelheideweg 12
5966 PJ AMERICA

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Uitgangspunten : Gebouwtype: [Bedrijfsruimte – kantoor](#)
Betrouwbaarheidsklasse: [RC2](#)
Gevolgklasse: [CC2](#)
Referentieperiode: [50 jr.](#)
Windgebied: [Regio III](#)
Terreincategorie: [onbebouwd](#)
Sneeuwzone: [I Nederland](#)

Beton C20/25
Wapening B500
Profielstaal S235 JR
Hout C18

NEN-EN 1990 Grondslagen van het constructief ontwerp.
NEN-EN 1991 Belastingen op constructies
NEN-EN 1992 Betonconstructies
NEN-EN 1993 Staalconstructies
NEN-EN 1995 Houtconstructies
NEN-EN 1997 Geoconstructies

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BIJLAGEN

A	Dakverbanden wind loodrecht op cijferas (opslag)
B	Koppelligger (opslag)
C	Randligger as VV (opslag)
D1	Randligger as 04 en as 16 (opslag)
D2	Randligger as 04 en as 16 (opslag)
E	Windbok as VV (opslag)
F	Secundair vakwerkspant (opslag)
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H	Dakverbanden wind loodrecht op cijferas (ontvangst)
I	Portaal as A (ontvangst)
J	Funderingsplaten
K	Spant as WW (ontvangst)

2.0 Belastingen

Bouwdeel	Omschrijving	d of h (mm)	PB (kN/m ²)	VB (kN/m ²)
1 Dak vlak containerruimte	03: dak – dakbedekking kunststof		0,05	
	04: dak – isolatieplaten steenwol		0,23	
	16: dak – stalen dakplaat		0,15	
	10: dak – installatie		0,15	
	12: dak – secundair staal		0,15	
	001: veranderlijk: sneeuw		-	0,56
Totaal (grondvlak) $\alpha =$ 0 °			0,73	0,56

* Stalen dakplaat:
SAB 153 t=0.70 2-veldsoverspanning
verspringend gelegd

Winddruk volgens NEN-EN 1991-1-4

(Uitbreiding opslag)

Windgebied **III**
 Gebouwhoogte **10,00** m
 Omgeving **onbebouwd**
 Winddruk q **0,70** kN/m²
 Spantafstand **5,00** m

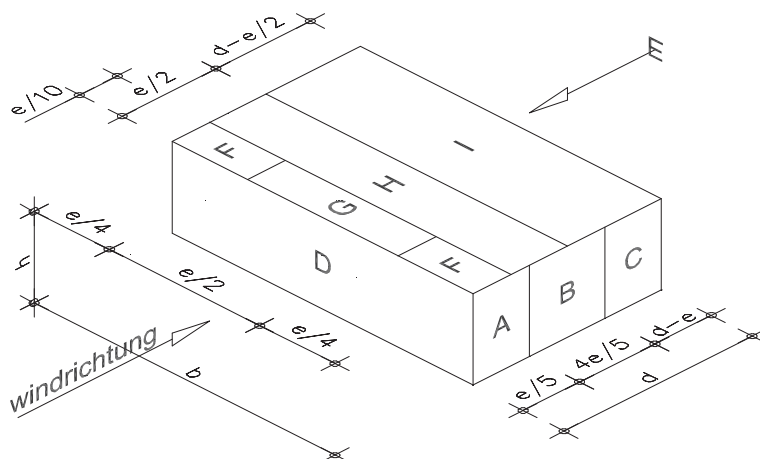
Vlakverdeling volgens NEN-EN 1991-1-4

Gebouw Breedte [b] = 60,00 m Lengte [d] = 25,00 m Hoogte [h] = 10,00 m Dakrand [h _p /h] = 0,000	Wind 90° gedraaid Breedte [b] = 25,00 m Lengte [d] = 60,00 m Waarde [e] = 20,00 m Waarde [h/d] = 0,40 Bereik [h/d] = 1
--	--

Wand zones	C _{pe,10}			Windlast	Wand zones	C _{pe,10}			Windlast
				kN/m ¹					kN/m ¹
A [e/5] =	4,00	m	-1,2	-4,20	A [e/5] =	4,00	m	-1,2	-4,20
B [4/5e] =	16,00	m	-0,8	-2,80	B [4/5e] =	16,00	m	-0,8	-2,80
C [d-e] =	5,00	m	-0,5	-1,75	C [d-e] =	40,00	m	-0,5	-1,75
D [b] =	60,00	m	0,8	2,80	D [b] =	25,00	m	0,8	2,80
E [b] =	60,00	m	-0,5	-1,75	E [b] =	25,00	m	-0,5	-1,75

Dak zones	C _{pe,10}			Windlast	Dak zones	C _{pe,10}			Windlast
				kN/m ¹					kN/m ¹
F [e/4] =	5,00	m	-1,8	-6,30	F [e/4] =	5,00	m	-1,8	-6,30
F/G [e/10] =	2,00	m	-1,2	-4,20	F/G [e/10] =	2,00	m	-1,2	-4,20
H [e/2] =	10,00	m	-0,7	-2,45	H [e/2] =	10,00	m	-0,7	-2,45
I [d-e/2] =	15,00	m	0,2	0,70	I [d-e/2] =	50,00	m	0,2	0,70
I [d-e/2] =	15,00	m	-0,2	-0,70	I [d-e/2] =	50,00	m	-0,2	-0,70

Overdruk C_{pe,10} = -0,2 -0,70 kN/m¹
 Onderdruk C_{pe,10} = 0,3 1,05 kN/m¹



Winddruk volgens NEN-EN 1991-1-4

(Opslag bestaand)

Windgebied **III**
 Gebouwhoogte **10,00** m
 Omgeving **onbebouwd**
 Winddruk q **0,70** kN/m²
 Spantafstand **5,00** m

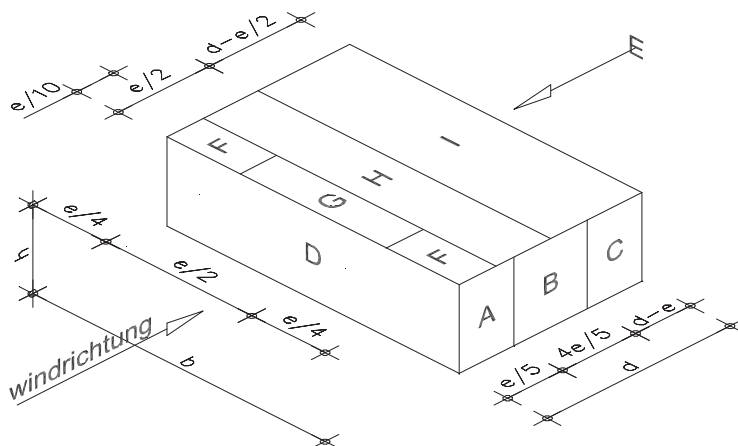
Vlakverdeling volgens NEN-EN 1991-1-4

Gebouw Breedte [b] = 60,00 m Lengte [d] = 40,00 m Hoogte [h] = 10,00 m Dakrand [h _p /h] = 0,000	Wind 90° gedraaid Breedte [b] = 40,00 m Lengte [d] = 60,00 m Waarde [e] = 20,00 m Waarde [h/d] = 0,25 Bereik [h/d] = 1
--	--

Wand zones	C _{pe,10}			Windlast	Wand zones	C _{pe,10}			Windlast
				kN/m ¹					kN/m ¹
A [e/5] =	4,00	m	-1,2	-4,20	A [e/5] =	4,00	m	-1,2	-4,20
B [4/5e] =	16,00	m	-0,8	-2,80	B [4/5e] =	16,00	m	-0,8	-2,80
C [d-e] =	20,00	m	-0,5	-1,75	C [d-e] =	40,00	m	-0,5	-1,75
D [b] =	60,00	m	0,8	2,80	D [b] =	40,00	m	0,8	2,80
E [b] =	60,00	m	-0,5	-1,75	E [b] =	40,00	m	-0,5	-1,75

Dak zones	C _{pe,10}			Windlast	Dak zones	C _{pe,10}			Windlast
				kN/m ¹					kN/m ¹
F [e/4] =	5,00	m	-1,8	-6,30	F [e/4] =	5,00	m	-1,8	-6,30
F/G [e/10] =	2,00	m	-1,2	-4,20	F/G [e/10] =	2,00	m	-1,2	-4,20
H [e/2] =	10,00	m	-0,7	-2,45	H [e/2] =	10,00	m	-0,7	-2,45
I [d-e/2] =	30,00	m	0,2	0,70	I [d-e/2] =	50,00	m	0,2	0,70
I [d-e/2] =	30,00	m	-0,2	-0,70	I [d-e/2] =	50,00	m	-0,2	-0,70

Overdruk C_{pe,10} = -0,2 -0,70 kN/m¹
 Onderdruk C_{pe,10} = 0,3 1,05 kN/m¹



Winddruk volgens NEN-EN 1991-1-4

(Uitbreiding ontvangst)

Windgebied **III**
 Gebouwhoogte **10,00** m
 Omgeving **onbebouwd**
 Winddruk q **0,70** kN/m²
 Spantafstand **5,00** m

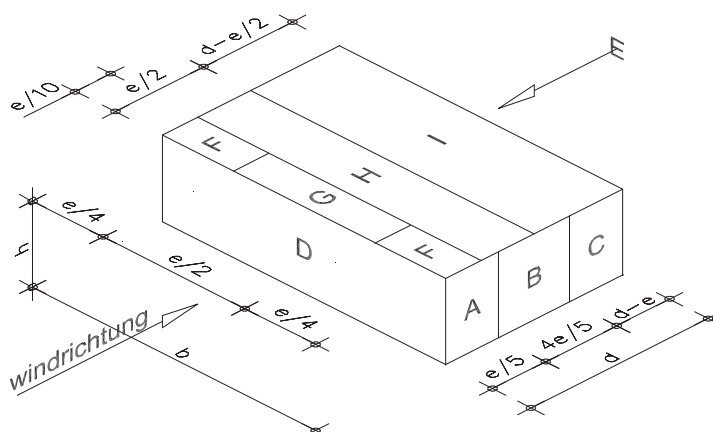
Vlakverdeling volgens NEN-EN 1991-1-4

Gebouw Breedte [b] = 18,00 m Lengte [d] = 25,00 m Hoogte [h] = 10,00 m Dakrand [h _p /h] = 0,000	Wind 90° gedraaid Breedte [b] = 25,00 m Lengte [d] = 18,00 m Waarde [e] = 18,00 m Waarde [h/d] = 0,40 Bereik [h/d] = 1
Waarde [e] = 18,00 m Waarde [h/d] = 0,40 Bereik [h/d] = 1	Waarde [e] = 20,00 m Waarde [h/d] = 0,56 Bereik [h/d] = 1

Wand zones	C _{pe,10} Windlast				Wand zones	C _{pe,10} Windlast			
	kN/m ¹					kN/m ¹			
A [e/5] =	3,60	m	-1,2	-4,20	A [e/5] =	4,00	m	-1,2	-4,20
B [4/5e] =	14,40	m	-0,8	-2,80	B [4/5e] =	14,00	m	-0,8	-2,80
C [d-e] =	7,00	m	-0,5	-1,75	C [d-e] =	0,00	m	-	-
D [b] =	18,00	m	0,8	2,80	D [b] =	25,00	m	0,8	2,80
E [b] =	18,00	m	-0,5	-1,75	E [b] =	25,00	m	-0,5	-1,75

Dak zones	C _{pe,10} Windlast				Dak zones	C _{pe,10} Windlast			
	kN/m ¹					kN/m ¹			
F [e/4] =	4,50	m	-1,8	-6,30	F [e/4] =	5,00	m	-1,8	-6,30
F/G [e/10] =	1,80	m	-1,2	-4,20	F/G [e/10] =	2,00	m	-1,2	-4,20
H [e/2] =	9,00	m	-0,7	-2,45	H [e/2] =	10,00	m	-0,7	-2,45
I [d-e/2] =	16,00	m	0,2	0,70	I [d-e/2] =	8,00	m	0,2	0,70
I [d-e/2] =	16,00	m	-0,2	-0,70	I [d-e/2] =	8,00	m	-0,2	-0,70

Overdruk $C_{pe,10}$ = **-0,2** **-0,70** kN/m¹
 Onderdruk $C_{pe,10}$ = **0,3** **1,05** kN/m¹



2.1 Stabiliteit opslagruimte

Stabiliteit opslag

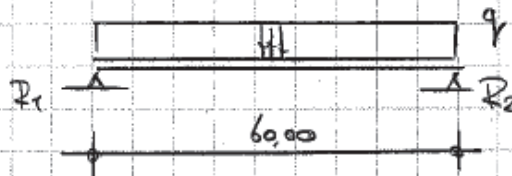
De stabiliteit van de opslagruimte in de nieuwe situatie wordt verkregen door de uitbreiding 3-zijdig af te kruizen in de gevels op as VV, as 04 en as 16 waardoor de windbok van de bestaande opslagruimte op as A verwijderd wordt. De belasting die door de bestaande windbok op as A opgenomen werd, zal in de nieuwe situatie via de dakverbanden van de uitbreiding naar de windbokken in de gevels op as VV, As 04 en as 16 geleid worden.

Windbelasting loodrecht op as 04 en as 16 wordt nader bekeken.

Windbelasting loodrecht op as VV is niet relevant. De toename van de windbelasting is nihil. De wrijving is iets meer. Daar tegenover staat, dat er aan elke zijde een extra windbok ter beschikking is en een extra windligger in het dakvlak.

Reactiekracht windligger in as 4 en 16 (best. Opslagruimte + uitbreiding opslagruimte)

$$\begin{array}{lcl}
 q \text{ Winddrukke gevel} & (10,00 \text{ m} / 2 \times 0,70 \times (0,8 + 0,5) \times 0,85 & 3,90 \text{ kN/m} \\
 \text{Wrijving dak} & (40 \text{ m} + 25 \text{ m}) \times 0,70 \times 0,02 & 0,90 \text{ kN/m} \\
 & & \hline
 & & 4,80 \text{ kN/m}
 \end{array}$$



$$R_{1,2} Q_{10} = \frac{60,00 \text{ m} \times 4,80}{2} = 144,00 \text{ kN}$$

in de best. opslag is al een windbok aanwezig en in de uitbreiding wordt een nieuwe windbok voorzien.

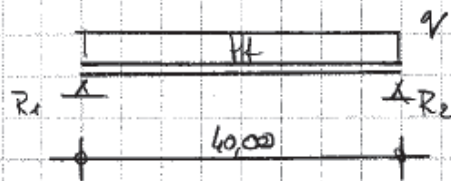
2 Windbokken per zijde ter beschikking:

$$144,00 \text{ kN} / 2 = 72,00 \text{ kN per windbok.}$$

Controle bestaande windbokken is niet meer nodig.

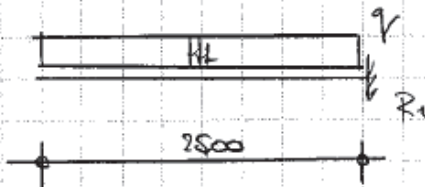
Reactiekracht windligger in as A (best. Opslagruimte)

$$\begin{aligned}
 q_{\text{winddruk}} &= (10,00 \text{ m}^2/\text{e}) \times 0,70 \times (0,8 + 0,5) \times 0,85 &= 3,90 \text{ kN/m} \\
 W_{\text{gewicht}} &= 60,00 \text{ m}^2 \times 0,70 \times 0,02 &= 0,85 \text{ kN/m} \\
 & & \underline{4,75 \text{ kN/m}}
 \end{aligned}$$



$$R_1 = Q_w = \frac{60,00 \text{ m} \times 4,75}{2} = 142,50 \text{ kN}$$

Reactiekracht windligger in as VV (uitbreiding)



$$R_1 = Q_w = 118,75 \text{ kN}$$

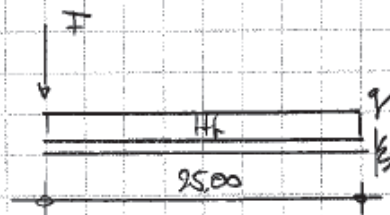
$$R_{\text{totaal in as VV}} = 118,75 \text{ kN} + 95,00 \text{ kN} = 213,75 \text{ kN}$$

Reactiekracht windligger in as 4 en 16 (best. Opslagruimte + uitbreiding opslagruimte)

- * tgv. Wind t op cykuras wordt de windbelasting van de uitbreiding en de helft van de best. opslagruimte naar het windverband in as VV geleid.
 Dus in feite is de uitbreiding 3-zijdig afgekruist.
 Door het optredende moment tgv de excentriciteit ontstaat er een vracht in de wind bolken op as 4 en 16.

Reactievracht uit windverband dak best. opslaghal = 95 kN.

Schema is als volgt.



$$q_{Qw} = 4,75 \text{ kN/m} \quad (\text{zie Reactievracht dakverband in as A best. opslagruimte})$$

$$F_{Qw} = 95,00 \text{ kN}$$

$$M_{Qw} = \left(\frac{1}{2} \times 4,75 \times 25,00^2 \right) + (95,00 \times 25) = 3859 \text{ kNm}$$

$$\text{Lengte hal} = 60,00 \text{ m}$$

$$R_{1,2} Q_w = \frac{3859}{60,00} = 64,30 \text{ kN} < 144,00 \text{ kN}.$$

Puntlasten op dakvlak, wind loodrecht op cijferas

F Winddruk gevel As 4 (zone D)

$$(10,00 \text{ m} / 2) \times 0,70 \times (0,8) \times 0,85 \times 5,00 \text{ m} = 11,90 \text{ kN}$$

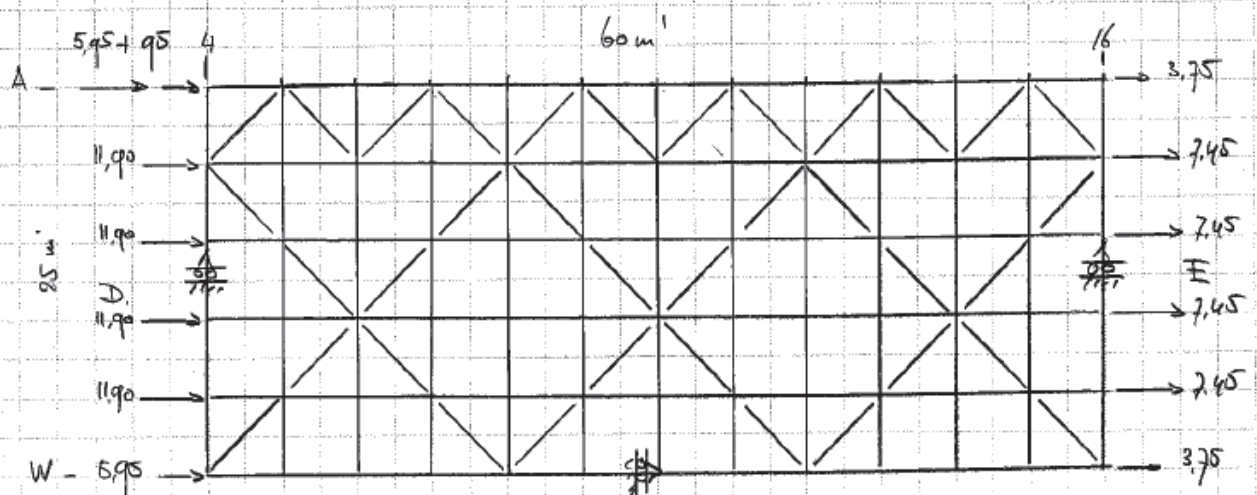
F windzuiging gevel As 16 (zone E)

$$(10,00 \text{ m} / 2) \times 0,70 \times (0,5) \times 0,85 \times 5,00 \text{ m} = 7,45 \text{ kN}$$

F weigering dak

$$5,00 \text{ m} \times 0,70 \times 0,02 \times 5,00 \text{ m} = 0,35 \text{ kN}$$

F met dakverband best. dak opslag, = 95,00 kN.



zie berekening Matrix Bijlage A

Dakverbanden uit te voeren in 120 x 4

Maatgevende normaalkrachten

- Normaalbricht in randliggers as VV.
 - * Maatgevende Normaalbricht $NQ_w = 63,85 \text{ kN}$. (druk)
(Reactiebricht)
- Normaalbricht in randliggers as 4 en 16
(Reactiebricht)
 - * Maatgevende Normaalbricht $NQ_w = 43,30 \text{ kN}$. (druk)
- Normaalbricht in secundaire liggers (verweschligger)
 - * Maatgevende Normaalbricht (staaf 147-148) $NQ_w = 11,95 \text{ kN}$.
(druk)
- Normaalbricht in moederliggers (verweschligger)
 - * Maatgevende Normaalbricht (staaf 51-52) $NQ_w = 40,00 \text{ kN}$
(druk)
- Normaalbricht in koppelliggers
 - * Maatgevende Normaalbricht (staaf 39) $NQ_w = 14,65 \text{ kN}$ (druk)
- Normaalbricht in koppelliggers as A (staaf 6) = $NQ_w = 101,05 \text{ kN}$
(druk)

Deze normaalkrachten worden in de combinatie wind toegevoegd aan het rekenmodel

2.2 Stabiliteit ontvangstruimte

Stabiliteit ontvangst

De stabiliteit van de ontvangstruimte in de nieuwe situatie wordt verkregen door de uitbreiding 3-zijdig af te kruizen in de gevels op as VV, as 28 en as 31 waardoor de windbok van de bestaande opslagruimte op as A verwijderd wordt. De belasting die door de bestaande windbok op as A opgenomen werd, zal in de nieuwe situatie door een stalen portaal worden opgenomen.

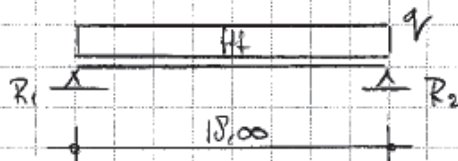
Windbelasting loodrecht op as 18 en as 31 wordt nader bekeken.

Windbelasting loodrecht op as VV is niet relevant. De toename van de windbelasting is nihil. De wrijving is iets meer. Daar tegenover staat, dat er aan elke zijde een extra windbok ter beschikking is en een extra windligger in het dakvlak.

Reactiekracht windligger in as 28 en as 31 (best. Ontvangstruimte + uitbreiding ontvangstruimte)

$$q \text{ Winddruk gevel} \left(\frac{10,00 \text{ m}}{2} \times 0,7 \times (0,8 + 0,5) \right) = 0,85 \quad \frac{3,90 \text{ kN/m}'}{0,55 \text{ kN/m}'} = \frac{4,45 \text{ kN/m}'}{4,45 \text{ kN/m}'}$$

wrijving dak $\left(\frac{10,00 \text{ m}}{2} \times 0,7 \times 0,02 \right) =$



$$R_{1,2} Q_w = \frac{4,45 \times 18,00 \text{ m}}{2} = 40,00 \text{ kN}$$

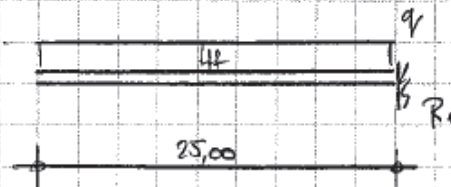
in de best. ontvangstruimte zijn in as 28 4 windbalken aanwezig en in as 31, 3 windbalken. De uitbreiding wordt voorzien van windbalken. 1 per zijde

$$\begin{aligned} 40,00 \text{ kN} / 5 &= 8,00 \text{ kN} \quad \text{per windbalk} < 39,00 \text{ kN} \\ 40,00 \text{ kN} / 4 &= 10,00 \text{ kN} \quad \text{per windbalk} < 39,00 \text{ kN} \end{aligned}$$

39,00 kN is maximale belasting in windbalk in best ontvangst (berekening 12-428, ontvangstruimte dd 28-08-2012)

Controle windbalken is niet nodig

Reactiekracht windligger in as VV (uitbreiding ontvangstruimte)



$$\begin{array}{lcl}
 q \text{ Winddruk gevel } (10,00\text{m}/2) \times 0,70 \times (0,8 + 0,5) \times 0,85 & & 3,90 \text{ kN/m} \\
 \text{Wrijving dak } 18,00\text{m} \times 0,70 \times 0,02 & = & 0,25 \text{ kN/m} \\
 & & \hline
 & & 4,15 \text{ kN/m}
 \end{array}$$

$$R_r Q_w = 103,75 \text{ kN} \quad \leftarrow \quad 2 \times 49,00 \text{ kN} = 98,00 \text{ kN} \quad (\text{uit dakverband best. ontvangstruimte})$$

$\mu_c = 1,06$ acceptabel.

Reactiekracht in as 28 en 31 gev. 3-zijdig afgeknuste uitbreiding.

$$Q_{Qw} = \frac{1}{2} \times 3,55 \times 25,00^2 = 1109,40 \text{ kNm}$$

$$\text{breedte uitbreiding} = 18,00\text{m}$$

$$R_{r,2} Q_w = \frac{1109,40}{18,00} = 61,65 \text{ kN}$$

in de best. ontvangstruimte zijn in as 28, 4 windbolken aanwezig en in as 31, 3 windbolken. De uitbreiding wordt voorzien van windbolken, 1 per zijde.

$$\begin{array}{lcl}
 61,65 \text{ kN} / 5 = 12,35 \text{ kN} & \text{per windbalk} < & 39,00 \text{ kN} \\
 61,65 \text{ kN} / 4 = 15,40 \text{ kN} & \text{per windbalk} < & 39,00 \text{ kN}
 \end{array}$$

39,00 kN is maximale belasting in wind balk in best. ontvangstruimte (berekening 12-628, ontvangstruimte dd. 28-08-2012)

Controle best. windbolken is niet nodig.

Puntlasten op dakvlak, wind loodrecht op cijferas

F Winddruk gevel as 31 (zone D)

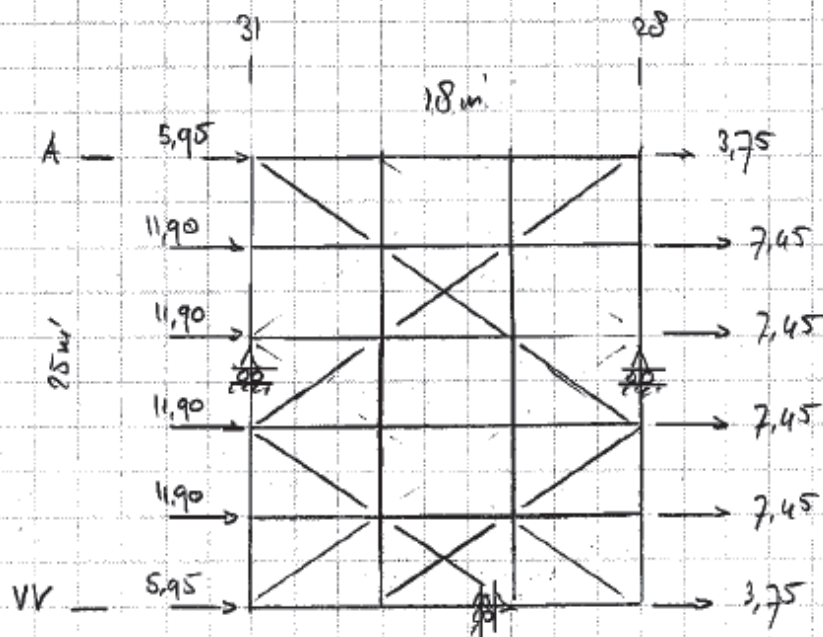
$$(10,00\text{ m} / 2) \times 0,70 \times (0,8) \times 0,85 \times 5,00\text{ m} = 11,90\text{ kN}$$

F windzuiging gevel as 28 (zone E)

$$(10,00\text{ m} / 2) \times 0,70 \times (0,5) \times 0,85 \times 5,00\text{ m} = 7,45\text{ kN}$$

F wrijving dake

$$5,00\text{ m} \times 0,70 \times 0,02 \times 6,00\text{ m} = 0,40\text{ kN}$$



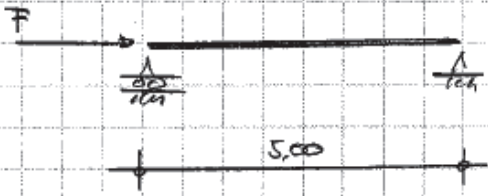
Zie berekening Matrix - Bijlage H.

Dakeverbanden uit te voeren in $\Phi 100 \times 4$

3.0 Koppelligger (opslagruimte)

3.1 Stalen koppelligger

$l = 5,00 \text{ m}$



$F_{\text{rw}} = 14,65 \text{ kN}$ (zie magelgende normaal krachten staaf 39)

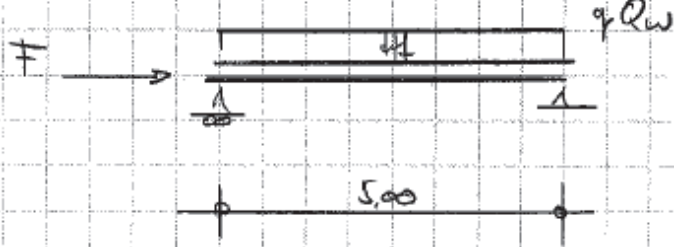
Zie berekening Matrix, Bijlage B.

Toepassen $\Phi 60 \times 5$ (S235)

4.0 Randligger dak (opslagruimte)

4.1 Stalen randligger as VV

$l = 5,00 \text{ m}$



$F_{Rw} = 63,85 \text{ kN}$ (zie maatgevende normaalwachten)

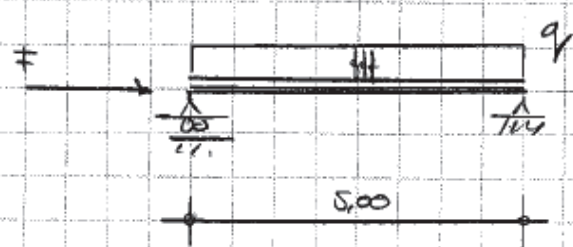
$q_{Rw} = 7,50 \text{ kN/m} / 2 * 0,70 * (0,2 + 0,2) = 2,65 \text{ kN/m}$

zie berekening Matrix, Bijlage C

Toepassen HEA 180

4.2 Stalen randligger as 4 en as 16

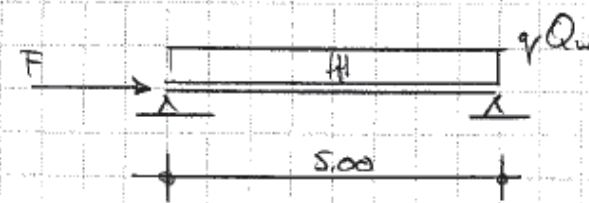
$l_t = 5,00 \text{ m}$



$q_{Q_k} = 2,50 \text{ m} \times 0,73 = 1,85 \text{ kN/m}$
 $q_{Q_k} = 2,50 \text{ m} \times 1,00 = 2,50 \text{ kN/m}$
 $q_{Q_k} = 2,50 \text{ m} \times 0,70 \times (0,2 + 0,3) = 0,90 \text{ kN/m}$
 $F_{Q_k} = 43,30 \text{ kN}$ (zie maatgevende normaal krachten)

zie berekening Matrix, Bijlage D-1

Toepassen HEB 160



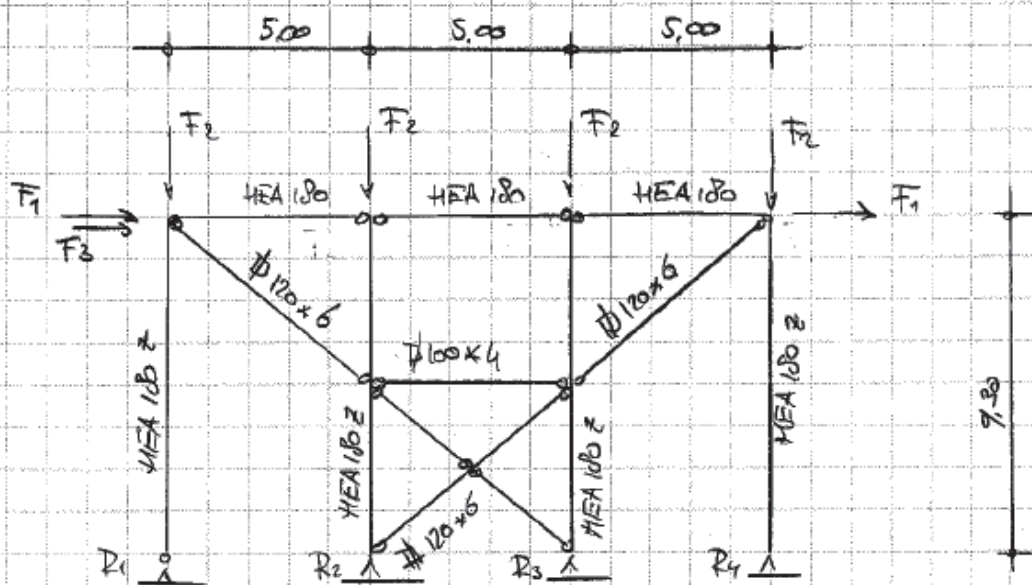
$q_{Q_k} = 7,50 \text{ m} / 2 \times 0,70 \times (0,8 + 0,2) = 2,65 \text{ kN/m}$
 $F_{Q_k} = 43,30 \text{ kN}$

zie berekening Matrix, Bijlage D-2

Toepassen HEB 160

5.0 Windbokken (opslagruimte)

5.1 Windbok as VV



$F_1 = 63,85 \text{ kN}$ (zie maatgevende normaal brachten)

$F_2 = 31,60 \text{ kN}$ (zie berekening secundaire valwerk ligger)

Hierbij komt nog wrijving op de wand bij.

$F_3 Q_w = 10,00 \text{ m} / 2 \times 30,00 \text{ m} \times 0,70 \times 0,04 = 4,20 \text{ kN}$

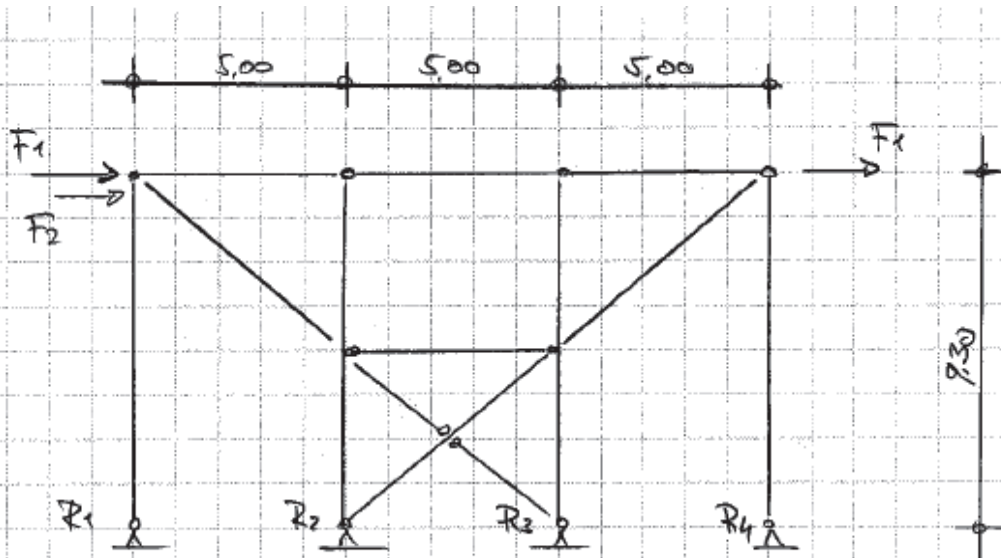
zie berekening Matrix, Bijlage E

Reactiekrachten t.v. Wind

$R_1 Q_w = +61,70 \text{ kN}$	} Fuc 5.
$R_2 Q_w = +61,70 \text{ kN}$	
$R_3 Q_w = -61,70 \text{ kN}$	
$R_4 Q_w = -61,70 \text{ kN}$	

Deze krachten worden in het model "secundaire ligger" als puntlast op de kolom gezet bij de windcombinaties. wind van voor en wind van achter.

5.2 Windbok as 4 en as 16



De reactie bracht uit het dakverband in as 4 en 16 bedraagt $72,00 \text{ kN}$ per wind bok.

$$F_1 = 72,00 \text{ kN} / 2 = 36,00 \text{ kN}$$

Hierbij komt nog wrijving op de wand bij.

$$F_2 = 10,00 \text{ u} / 2 \times 65,00 \text{ u} \times 0,70 \times 0,04 \times 0,50 = 4,55 \text{ kN}$$

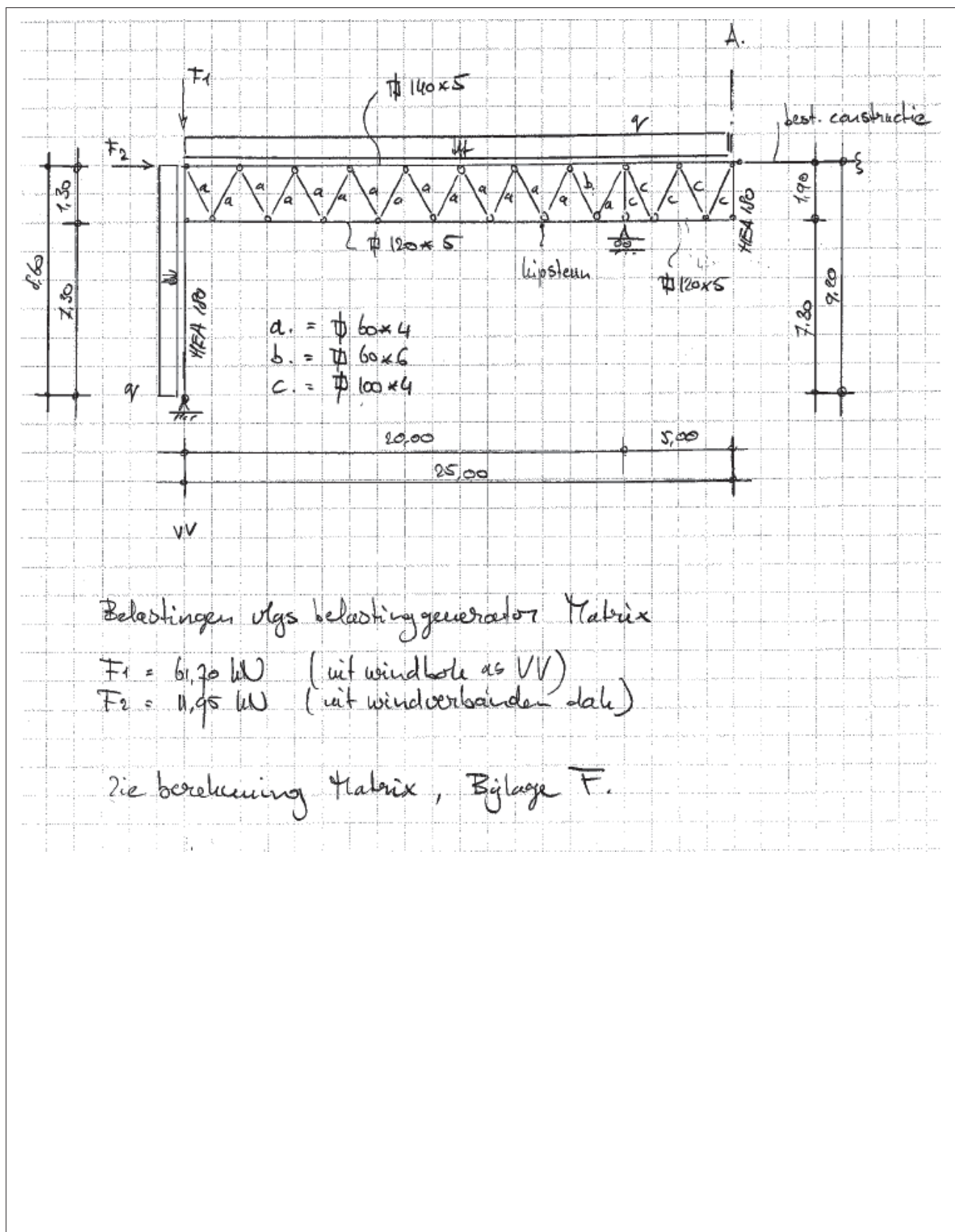
↑ 2 windbalken

Reactie brachten 1go wind

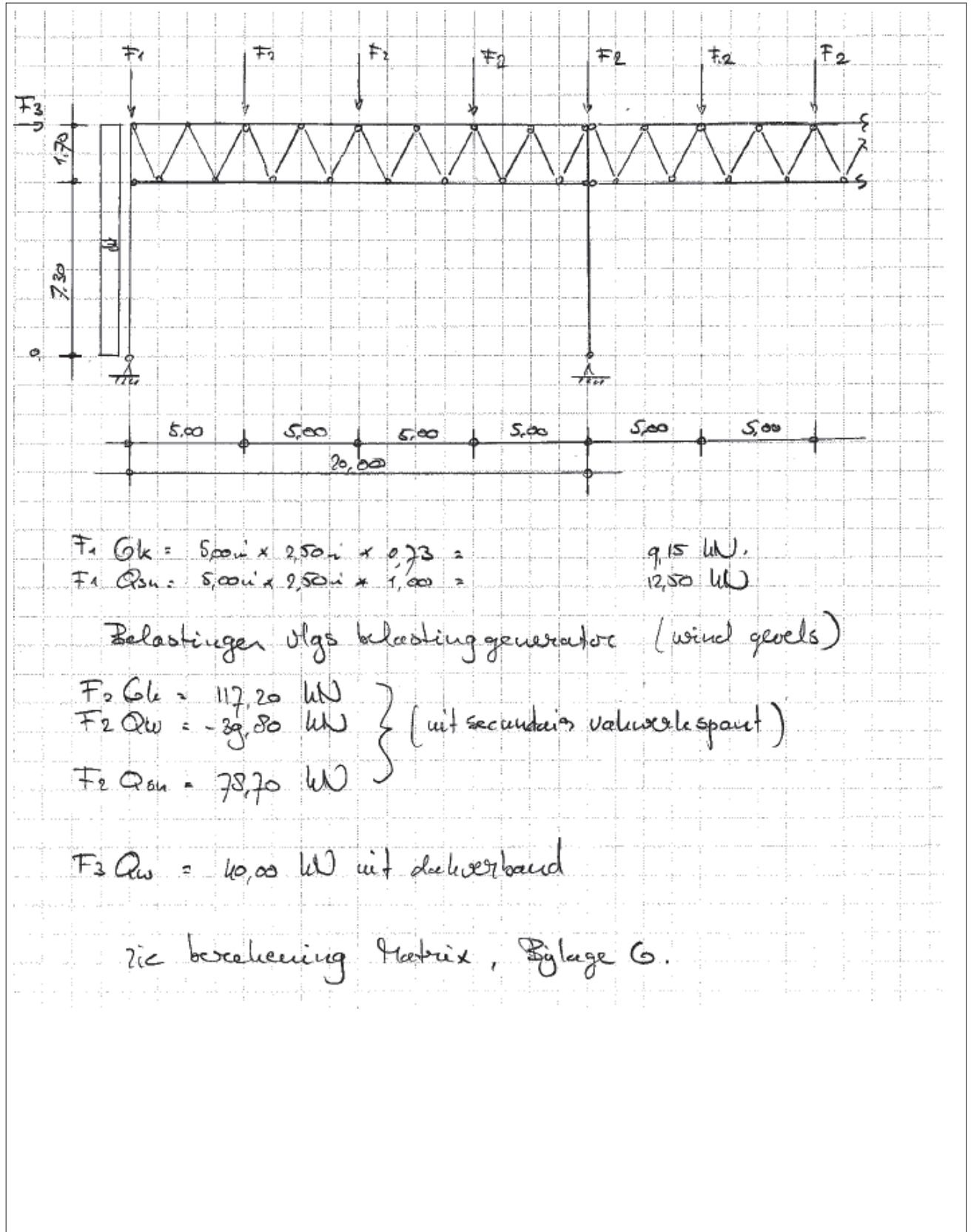
$$\begin{aligned}
 R_1 Q_w &= +35,60 \text{ kN} \\
 R_2 Q_w &= +35,60 \text{ kN} \\
 R_3 Q_w &= -35,60 \text{ kN} \\
 R_4 Q_w &= -35,60 \text{ kN}
 \end{aligned}$$

6.0 Spanten (opslagruimte)

6.1 Secundair vakwerkspant

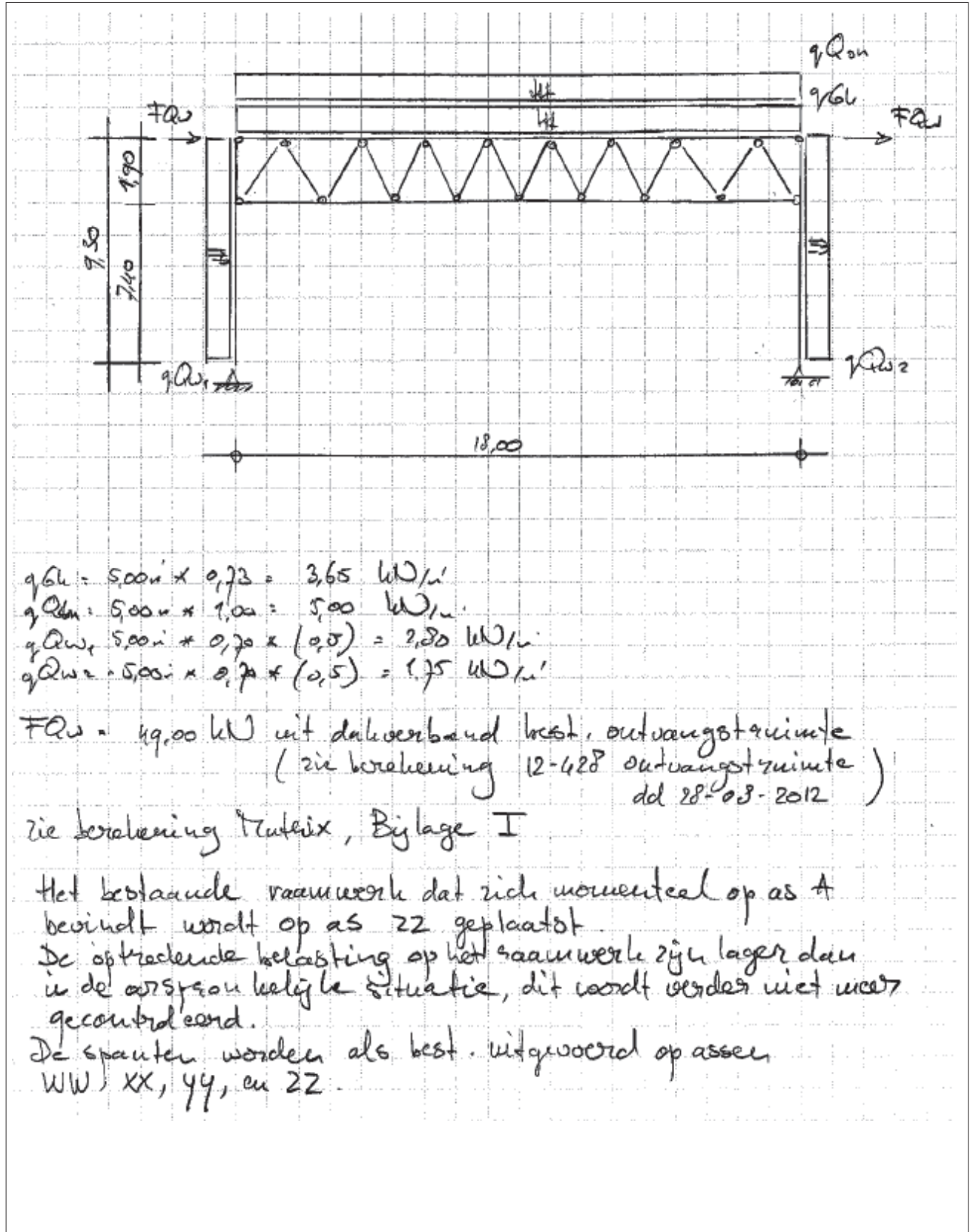


6.2 Primair vakwerkspant (moederspant)



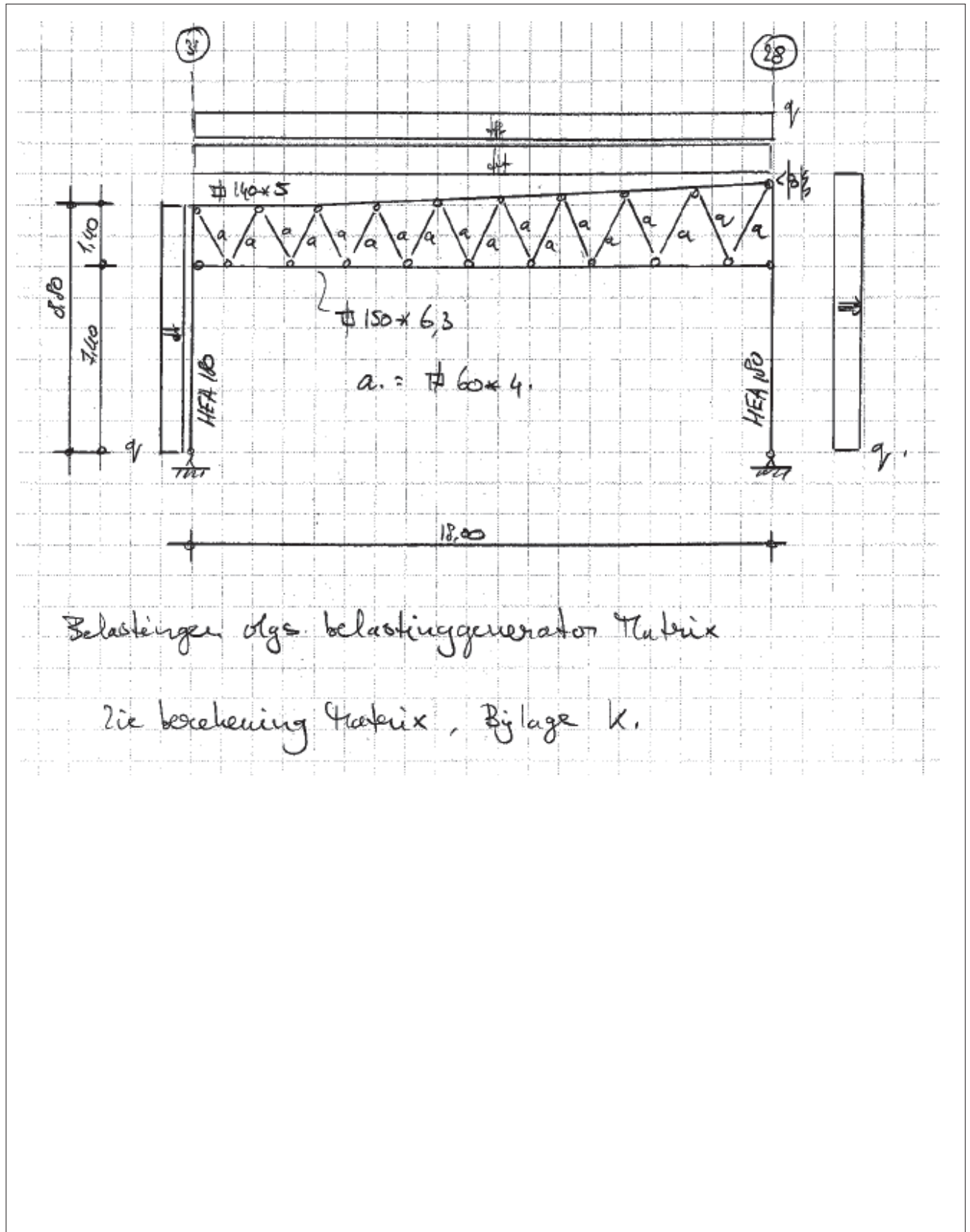
7.0 Portaal (ontvangstruimte)

7.1 Portaal as A



8.0 Spant (ontvangstruimte)

8.1 Spant as WW



9.0 Fundering

9.1 Funderingsplaten uitbreiding

Uitgangspunten:

Fundering op "staal" op vaste grondslag en vorstvrij. Indien nodig grondverbetering toepassen.

Zie funderingsadvies Inpijn-Blokpoel 02P001679 dd. 09-02-2012

Betonkwaliteit: C20/25

Staalkwaliteit: B500

Milieuklasse: XC2

Toelaatbare grondspanning: poer 600x600mm

$$\sigma_{\text{grd, toel.}} = 170 \text{ kN/m}^2$$

Toelaatbare grondspanning: poer 2800x2800mm

$$\sigma_{\text{grd, toel.}} = 247 \text{ kN/m}^2$$

Belastingen van de plinten en wanden (EG)

* Buitengevels:

EG plint	$3,10 \text{ m} \times 5,00 \text{ m} \times 0,12 \text{ m} \times 24$	=	44,65 kN
EG wand	$7,30 \text{ m} \times 5,00 \text{ m} \times 0,25$	=	9,10 kN
		=	53,75 kN

* Scheidende gevels:

EG plint	$0,75 \text{ m} \times 5,00 \text{ m} \times 0,16 \text{ m} \times 24$	=	14,40 kN
EG wand	$10,00 \text{ m} \times 5,00 \text{ m} \times 0,25$	=	12,50 kN
		=	26,90 kN

Deze belastingen toevoegen als eigen gewicht bij de funderingsplaten.

Poer C (As 04 en as 22)

EG plint + wand
kolom primair spant

G _L	Q _L
53,75	
159,90	102,10
213,65	102,10 kN

Zie berekening Matrix, bijlage J.

Toepassen Poer

dwl. 1800 x 1800, dik 400

wap. # ϕ 10-150 + ϕ 8-300 Extra onder
ϕ 10-150 boven.

Doer I' (As 03 en as 22)

kolom primair spant
EG stiep $0,50^2 \times 0,40 \times 25$

Gk	Qk
554,50	342,85
2,50	
557,00	342,85 kN

zie berekening Matrix, bijlage J.

Toepassen Doer.

afm. 2400×2400 , dikte 500
wap. # $\phi 12-100$ + $\phi 12-200$ Extra onderen
$\phi 16-100$ boven.

Doer I (As 6 en as 22)

kolom primair spant * 2
EG plint + wand

Gk	Qk
318,40	204,20
26,90	
345,30	204,20 kN

zie berekening Matrix, bijlage J.

Toepassen Doer.

* Doer uitvoeren Idem als I'

Doer A (as 04 en as xx)

EG kolom (windbolle)
EG plint + wand

Gk	Qk
-	+/- 35,60
53,75	
53,75	+/- 35,60 kN.

zie berekening Matrix, bijlage J.

Toepassen Doer.

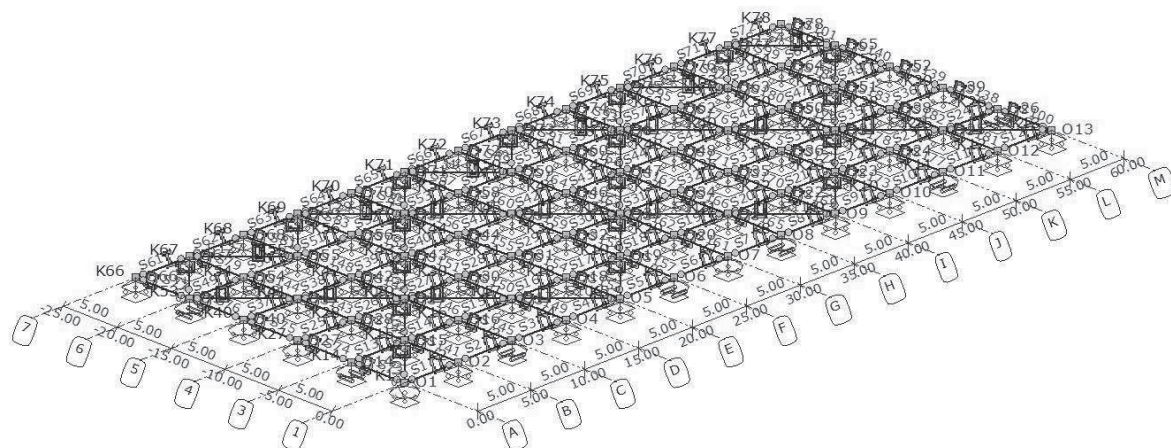
afm. 1400×1400 , dikte 400
wap. # 8-150 3/0

BIJLAGEN

A	Dakverbanden wind loodrecht op cijferas (opslag)
B	Koppelligger (opslag)
C	Randligger as VV (opslag)
D1	Randligger as 04 en as 16 (opslag)
D2	Randligger as 04 en as 16 (opslag)
E	Windbok as VV (opslag)
F	Secundair vakwerkspant (opslag)
G	Primair vakwerkspant as ZZ (moederspant) (opslag)
H	Dakverbanden wind loodrecht op cijferas (ontvangst)
I	Portaal as A (ontvangst)
J	Funderingsplaten
K	Spant as WW (ontvangst)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
Bijlage A			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\dakverb-wind-cijferas.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staf	Knoop	Scharnier		Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E	E								
S1	K1	XYZXr--	XYZXr--	K2	P1	0.000	0.000	0.000	5.000	0.000	0.000	5.000
S2	K2	XYZXr--	XYZXr--	K3	P1	5.000	0.000	0.000	10.000	0.000	0.000	5.000
S3	K3	XYZXr--	XYZXr--	K4	P1	10.000	0.000	0.000	15.000	0.000	0.000	5.000
S4	K4	XYZXr--	XYZXr--	K5	P1	15.000	0.000	0.000	20.000	0.000	0.000	5.000
S5	K5	XYZXr--	XYZXr--	K6	P1	20.000	0.000	0.000	25.000	0.000	0.000	5.000
S6	K6	XYZXr--	XYZXr--	K7	P1	25.000	0.000	0.000	30.000	0.000	0.000	5.000
S7	K7	XYZXr--	XYZXr--	K8	P1	30.000	0.000	0.000	35.000	0.000	0.000	5.000
S8	K8	XYZXr--	XYZXr--	K9	P1	35.000	0.000	0.000	40.000	0.000	0.000	5.000
S9	K9	XYZXr--	XYZXr--	K10	P1	40.000	0.000	0.000	45.000	0.000	0.000	5.000
S10	K10	XYZXr--	XYZXr--	K11	P1	45.000	0.000	0.000	50.000	0.000	0.000	5.000
S11	K11	XYZXr--	XYZXr--	K12	P1	50.000	0.000	0.000	55.000	0.000	0.000	5.000
S12	K12	XYZXr--	XYZXr--	K13	P1	55.000	0.000	0.000	60.000	0.000	0.000	5.000
S13	K14	XYZXr--	XYZXr--	K15	P1	0.000	-5.000	0.000	5.000	-5.000	0.000	5.000
S14	K15	XYZXr--	XYZXr--	K16	P1	5.000	-5.000	0.000	10.000	-5.000	0.000	5.000
S15	K16	XYZXr--	XYZXr--	K17	P1	10.000	-5.000	0.000	15.000	-5.000	0.000	5.000
S16	K17	XYZXr--	XYZXr--	K18	P1	15.000	-5.000	0.000	20.000	-5.000	0.000	5.000
S17	K18	XYZXr--	XYZXr--	K19	P1	20.000	-5.000	0.000	25.000	-5.000	0.000	5.000
S18	K19	XYZXr--	XYZXr--	K20	P1	25.000	-5.000	0.000	30.000	-5.000	0.000	5.000
S19	K20	XYZXr--	XYZXr--	K21	P1	30.000	-5.000	0.000	35.000	-5.000	0.000	5.000
S20	K21	XYZXr--	XYZXr--	K22	P1	35.000	-5.000	0.000	40.000	-5.000	0.000	5.000
S21	K22	XYZXr--	XYZXr--	K23	P1	40.000	-5.000	0.000	45.000	-5.000	0.000	5.000
S22	K23	XYZXr--	XYZXr--	K24	P1	45.000	-5.000	0.000	50.000	-5.000	0.000	5.000
S23	K24	XYZXr--	XYZXr--	K25	P1	50.000	-5.000	0.000	55.000	-5.000	0.000	5.000
S24	K25	XYZXr--	XYZXr--	K26	P1	55.000	-5.000	0.000	60.000	-5.000	0.000	5.000
S25	K27	XYZXr--	XYZXr--	K28	P1	0.000	-10.000	0.000	5.000	-10.000	0.000	5.000
S26	K28	XYZXr--	XYZXr--	K29	P1	5.000	-10.000	0.000	10.000	-10.000	0.000	5.000
S27	K29	XYZXr--	XYZXr--	K30	P1	10.000	-10.000	0.000	15.000	-10.000	0.000	5.000
S28	K30	XYZXr--	XYZXr--	K31	P1	15.000	-10.000	0.000	20.000	-10.000	0.000	5.000
S29	K31	XYZXr--	XYZXr--	K32	P1	20.000	-10.000	0.000	25.000	-10.000	0.000	5.000
S30	K32	XYZXr--	XYZXr--	K33	P1	25.000	-10.000	0.000	30.000	-10.000	0.000	5.000
S31	K33	XYZXr--	XYZXr--	K34	P1	30.000	-10.000	0.000	35.000	-10.000	0.000	5.000
S32	K34	XYZXr--	XYZXr--	K35	P1	35.000	-10.000	0.000	40.000	-10.000	0.000	5.000
S33	K35	XYZXr--	XYZXr--	K36	P1	40.000	-10.000	0.000	45.000	-10.000	0.000	5.000

Dakverbanden, wind loodrecht op cijferas					Novares Constructeurs							
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Staaf	Knoop	Scharnier		Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E	E								
S34	K36	XYZXr--	XYZXr--	K37	P1	45.000	-10.000	0.000	50.000	-10.000	0.000	5.000
S35	K37	XYZXr--	XYZXr--	K38	P1	50.000	-10.000	0.000	55.000	-10.000	0.000	5.000
S36	K38	XYZXr--	XYZXr--	K39	P1	55.000	-10.000	0.000	60.000	-10.000	0.000	5.000
S37	K40	XYZXr--	XYZXr--	K41	P1	0.000	-15.000	0.000	5.000	-15.000	0.000	5.000
S38	K41	XYZXr--	XYZXr--	K42	P1	5.000	-15.000	0.000	10.000	-15.000	0.000	5.000
S39	K42	XYZXr--	XYZXr--	K43	P1	10.000	-15.000	0.000	15.000	-15.000	0.000	5.000
S40	K43	XYZXr--	XYZXr--	K44	P1	15.000	-15.000	0.000	20.000	-15.000	0.000	5.000
S41	K44	XYZXr--	XYZXr--	K45	P1	20.000	-15.000	0.000	25.000	-15.000	0.000	5.000
S42	K45	XYZXr--	XYZXr--	K46	P1	25.000	-15.000	0.000	30.000	-15.000	0.000	5.000
S43	K46	XYZXr--	XYZXr--	K47	P1	30.000	-15.000	0.000	35.000	-15.000	0.000	5.000
S44	K47	XYZXr--	XYZXr--	K48	P1	35.000	-15.000	0.000	40.000	-15.000	0.000	5.000
S45	K48	XYZXr--	XYZXr--	K49	P1	40.000	-15.000	0.000	45.000	-15.000	0.000	5.000
S46	K49	XYZXr--	XYZXr--	K50	P1	45.000	-15.000	0.000	50.000	-15.000	0.000	5.000
S47	K50	XYZXr--	XYZXr--	K51	P1	50.000	-15.000	0.000	55.000	-15.000	0.000	5.000
S48	K51	XYZXr--	XYZXr--	K52	P1	55.000	-15.000	0.000	60.000	-15.000	0.000	5.000
S49	K53	XYZXr--	XYZXr--	K54	P1	0.000	-20.000	0.000	5.000	-20.000	0.000	5.000
S50	K54	XYZXr--	XYZXr--	K55	P1	5.000	-20.000	0.000	10.000	-20.000	0.000	5.000
S51	K55	XYZXr--	XYZXr--	K56	P1	10.000	-20.000	0.000	15.000	-20.000	0.000	5.000
S52	K56	XYZXr--	XYZXr--	K57	P1	15.000	-20.000	0.000	20.000	-20.000	0.000	5.000
S53	K57	XYZXr--	XYZXr--	K58	P1	20.000	-20.000	0.000	25.000	-20.000	0.000	5.000
S54	K58	XYZXr--	XYZXr--	K59	P1	25.000	-20.000	0.000	30.000	-20.000	0.000	5.000
S55	K59	XYZXr--	XYZXr--	K60	P1	30.000	-20.000	0.000	35.000	-20.000	0.000	5.000
S56	K60	XYZXr--	XYZXr--	K61	P1	35.000	-20.000	0.000	40.000	-20.000	0.000	5.000
S57	K61	XYZXr--	XYZXr--	K62	P1	40.000	-20.000	0.000	45.000	-20.000	0.000	5.000
S58	K62	XYZXr--	XYZXr--	K63	P1	45.000	-20.000	0.000	50.000	-20.000	0.000	5.000
S59	K63	XYZXr--	XYZXr--	K64	P1	50.000	-20.000	0.000	55.000	-20.000	0.000	5.000
S60	K64	XYZXr--	XYZXr--	K65	P1	55.000	-20.000	0.000	60.000	-20.000	0.000	5.000
S61	K66	XYZXr--	XYZXr--	K67	P2	0.000	-25.000	0.000	5.000	-25.000	0.000	5.000
S62	K67	XYZXr--	XYZXr--	K68	P2	5.000	-25.000	0.000	10.000	-25.000	0.000	5.000
S63	K68	XYZXr--	XYZXr--	K69	P2	10.000	-25.000	0.000	15.000	-25.000	0.000	5.000
S64	K69	XYZXr--	XYZXr--	K70	P2	15.000	-25.000	0.000	20.000	-25.000	0.000	5.000
S65	K70	XYZXr--	XYZXr--	K71	P2	20.000	-25.000	0.000	25.000	-25.000	0.000	5.000
S66	K71	XYZXr--	XYZXr--	K72	P2	25.000	-25.000	0.000	30.000	-25.000	0.000	5.000
S67	K72	XYZXr--	XYZXr--	K73	P2	30.000	-25.000	0.000	35.000	-25.000	0.000	5.000
S68	K73	XYZXr--	XYZXr--	K74	P2	35.000	-25.000	0.000	40.000	-25.000	0.000	5.000
S69	K74	XYZXr--	XYZXr--	K75	P2	40.000	-25.000	0.000	45.000	-25.000	0.000	5.000
S70	K75	XYZXr--	XYZXr--	K76	P2	45.000	-25.000	0.000	50.000	-25.000	0.000	5.000
S71	K76	XYZXr--	XYZXr--	K77	P2	50.000	-25.000	0.000	55.000	-25.000	0.000	5.000
S72	K77	XYZXr--	XYZXr--	K78	P2	55.000	-25.000	0.000	60.000	-25.000	0.000	5.000
S73	K1	XYZXr--	XYZXr--	K14	P1	0.000	0.000	0.000	0.000	-5.000	0.000	5.000
S74	K14	XYZXr--	XYZXr--	K27	P1	0.000	-5.000	0.000	0.000	-10.000	0.000	5.000
S75	K27	XYZXr--	XYZXr--	K40	P1	0.000	-10.000	0.000	0.000	-15.000	0.000	5.000
S76	K40	XYZXr--	XYZXr--	K53	P1	0.000	-15.000	0.000	0.000	-20.000	0.000	5.000
S77	K53	XYZXr--	XYZXr--	K66	P1	0.000	-20.000	0.000	0.000	-25.000	0.000	5.000
S79	K54	XYZXrYrZr	XYZXrYrZr	K67	P1	5.000	-20.000	0.000	5.000	-25.000	0.000	5.000
S81	K55	XYZXrYrZr	XYZXrYrZr	K68	P1	10.000	-20.000	0.000	10.000	-25.000	0.000	5.000
S83	K56	XYZXrYrZr	XYZXrYrZr	K69	P1	15.000	-20.000	0.000	15.000	-25.000	0.000	5.000
S85	K57	XYZXrYrZr	XYZXrYrZr	K70	P1	20.000	-20.000	0.000	20.000	-25.000	0.000	5.000
S87	K58	XYZXrYrZr	XYZXrYrZr	K71	P1	25.000	-20.000	0.000	25.000	-25.000	0.000	5.000
S89	K59	XYZXrYrZr	XYZXrYrZr	K72	P1	30.000	-20.000	0.000	30.000	-25.000	0.000	5.000
S91	K60	XYZXrYrZr	XYZXrYrZr	K73	P1	35.000	-20.000	0.000	35.000	-25.000	0.000	5.000
S93	K61	XYZXrYrZr	XYZXrYrZr	K74	P1	40.000	-20.000	0.000	40.000	-25.000	0.000	5.000
S95	K62	XYZXrYrZr	XYZXrYrZr	K75	P1	45.000	-20.000	0.000	45.000	-25.000	0.000	5.000
S97	K63	XYZXrYrZr	XYZXrYrZr	K76	P1	50.000	-20.000	0.000	50.000	-25.000	0.000	5.000
S99	K64	XYZXrYrZr	XYZXrYrZr	K77	P1	55.000	-20.000	0.000	55.000	-25.000	0.000	5.000
S100	K13	XYZXr--	XYZXr--	K26	P1	60.000	0.000	0.000	60.000	-5.000	0.000	5.000
S101	K65	XYZXr--	XYZXr--	K78	P1	60.000	-20.000	0.000	60.000	-25.000	0.000	5.000
S102	K1	XYZXr--	XYZXr--	K15	P1	0.000	0.000	0.000	5.000	-5.000	0.000	7.071
S103	K15	XYZXr--	XYZXr--	K29	P1	5.000	-5.000	0.000	10.000	-10.000	0.000	7.071
S104	K29	XYZXr--	XYZXr--	K43	P1	10.000	-10.000	0.000	15.000	-15.000	0.000	7.071
S105	K43	XYZXr--	XYZXr--	K57	P1	15.000	-15.000	0.000	20.000	-20.000	0.000	7.071
S106	K5	XYZXr--	XYZXr--	K17	P1	20.000	0.000	0.000	15.000	-5.000	0.000	7.071
S107	K17	XYZXr--	XYZXr--	K29	P1	15.000	-5.000	0.000	10.000	-10.000	0.000	7.071

Dakverbanden, wind loodrecht op cijferas					Novares Constructeurs							
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Staaf	Knoop	Scharnier		Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E	E								
S108	K29	XYZXr--	XYZXr--	K41	P1	10.000	-10.000	0.000	5.000	-15.000	0.000	7.071
S109	K41	XYZXr--	XYZXr--	K53	P1	5.000	-15.000	0.000	0.000	-20.000	0.000	7.071
S110	K5	XYZXr--	XYZXr--	K19	P1	20.000	0.000	0.000	25.000	-5.000	0.000	7.071
S111	K19	XYZXr--	XYZXr--	K33	P1	25.000	-5.000	0.000	30.000	-10.000	0.000	7.071
S112	K33	XYZXr--	XYZXr--	K47	P1	30.000	-10.000	0.000	35.000	-15.000	0.000	7.071
S113	K47	XYZXr--	XYZXr--	K61	P1	35.000	-15.000	0.000	40.000	-20.000	0.000	7.071
S114	K9	XYZXr--	XYZXr--	K21	P1	40.000	0.000	0.000	35.000	-5.000	0.000	7.071
S115	K21	XYZXr--	XYZXr--	K33	P1	35.000	-5.000	0.000	30.000	-10.000	0.000	7.071
S116	K33	XYZXr--	XYZXr--	K45	P1	30.000	-10.000	0.000	25.000	-15.000	0.000	7.071
S117	K45	XYZXr--	XYZXr--	K57	P1	25.000	-15.000	0.000	20.000	-20.000	0.000	7.071
S118	K9	XYZXr--	XYZXr--	K23	P1	40.000	0.000	0.000	45.000	-5.000	0.000	7.071
S119	K23	XYZXr--	XYZXr--	K37	P1	45.000	-5.000	0.000	50.000	-10.000	0.000	7.071
S120	K37	XYZXr--	XYZXr--	K51	P1	50.000	-10.000	0.000	55.000	-15.000	0.000	7.071
S121	K51	XYZXr--	XYZXr--	K65	P1	55.000	-15.000	0.000	60.000	-20.000	0.000	7.071
S122	K13	XYZXr--	XYZXr--	K25	P1	60.000	0.000	0.000	55.000	-5.000	0.000	7.071
S123	K25	XYZXr--	XYZXr--	K37	P1	55.000	-5.000	0.000	50.000	-10.000	0.000	7.071
S124	K37	XYZXr--	XYZXr--	K49	P1	50.000	-10.000	0.000	45.000	-15.000	0.000	7.071
S125	K49	XYZXr--	XYZXr--	K61	P1	45.000	-15.000	0.000	40.000	-20.000	0.000	7.071
S126	K53	XYZXr--	XYZXr--	K67	P1	0.000	-20.000	0.000	5.000	-25.000	0.000	7.071
S127	K67	XYZXr--	XYZXr--	K55	P1	5.000	-25.000	0.000	10.000	-20.000	0.000	7.071
S128	K55	XYZXr--	XYZXr--	K69	P1	10.000	-20.000	0.000	15.000	-25.000	0.000	7.071
S129	K69	XYZXr--	XYZXr--	K57	P1	15.000	-25.000	0.000	20.000	-20.000	0.000	7.071
S130	K57	XYZXr--	XYZXr--	K71	P1	20.000	-20.000	0.000	25.000	-25.000	0.000	7.071
S131	K71	XYZXr--	XYZXr--	K59	P1	25.000	-25.000	0.000	30.000	-20.000	0.000	7.071
S132	K59	XYZXr--	XYZXr--	K73	P1	30.000	-20.000	0.000	35.000	-25.000	0.000	7.071
S133	K73	XYZXr--	XYZXr--	K61	P1	35.000	-25.000	0.000	40.000	-20.000	0.000	7.071
S134	K61	XYZXr--	XYZXr--	K75	P1	40.000	-20.000	0.000	45.000	-25.000	0.000	7.071
S135	K75	XYZXr--	XYZXr--	K63	P1	45.000	-25.000	0.000	50.000	-20.000	0.000	7.071
S136	K63	XYZXr--	XYZXr--	K77	P1	50.000	-20.000	0.000	55.000	-25.000	0.000	7.071
S137	K77	XYZXr--	XYZXr--	K65	P1	55.000	-25.000	0.000	60.000	-20.000	0.000	7.071
S138	K26	XYZXr--	XYZXr--	K39	P1	60.000	-5.000	0.000	60.000	-10.000	0.000	5.000
S139	K39	XYZXr--	XYZXr--	K52	P1	60.000	-10.000	0.000	60.000	-15.000	0.000	5.000
S140	K52	XYZXr--	XYZXr--	K65	P1	60.000	-15.000	0.000	60.000	-20.000	0.000	5.000
S141	K2	XYZXrYrZr	XYZXrYrZr	K15	P1	5.000	0.000	0.000	5.000	-5.000	0.000	5.000
S142	K15	XYZXrYrZr	XYZXrYrZr	K28	P1	5.000	-5.000	0.000	5.000	-10.000	0.000	5.000
S143	K28	XYZXrYrZr	XYZXrYrZr	K41	P1	5.000	-10.000	0.000	5.000	-15.000	0.000	5.000
S144	K41	XYZXrYrZr	XYZXrYrZr	K54	P1	5.000	-15.000	0.000	5.000	-20.000	0.000	5.000
S145	K3	XYZXrYrZr	XYZXrYrZr	K16	P1	10.000	0.000	0.000	10.000	-5.000	0.000	5.000
S146	K16	XYZXrYrZr	XYZXrYrZr	K29	P1	10.000	-5.000	0.000	10.000	-10.000	0.000	5.000
S147	K29	XYZXrYrZr	XYZXrYrZr	K42	P1	10.000	-10.000	0.000	10.000	-15.000	0.000	5.000
S148	K42	XYZXrYrZr	XYZXrYrZr	K55	P1	10.000	-15.000	0.000	10.000	-20.000	0.000	5.000
S149	K4	XYZXrYrZr	XYZXrYrZr	K17	P1	15.000	0.000	0.000	15.000	-5.000	0.000	5.000
S150	K17	XYZXrYrZr	XYZXrYrZr	K30	P1	15.000	-5.000	0.000	15.000	-10.000	0.000	5.000
S151	K30	XYZXrYrZr	XYZXrYrZr	K43	P1	15.000	-10.000	0.000	15.000	-15.000	0.000	5.000
S152	K43	XYZXrYrZr	XYZXrYrZr	K56	P1	15.000	-15.000	0.000	15.000	-20.000	0.000	5.000
S153	K5	XYZXrYrZr	XYZXrYrZr	K18	P1	20.000	0.000	0.000	20.000	-5.000	0.000	5.000
S154	K18	XYZXrYrZr	XYZXrYrZr	K31	P1	20.000	-5.000	0.000	20.000	-10.000	0.000	5.000
S155	K31	XYZXrYrZr	XYZXrYrZr	K44	P1	20.000	-10.000	0.000	20.000	-15.000	0.000	5.000
S156	K44	XYZXrYrZr	XYZXrYrZr	K57	P1	20.000	-15.000	0.000	20.000	-20.000	0.000	5.000
S157	K6	XYZXrYrZr	XYZXrYrZr	K19	P1	25.000	0.000	0.000	25.000	-5.000	0.000	5.000
S158	K19	XYZXrYrZr	XYZXrYrZr	K32	P1	25.000	-5.000	0.000	25.000	-10.000	0.000	5.000
S159	K32	XYZXrYrZr	XYZXrYrZr	K45	P1	25.000	-10.000	0.000	25.000	-15.000	0.000	5.000
S160	K45	XYZXrYrZr	XYZXrYrZr	K58	P1	25.000	-15.000	0.000	25.000	-20.000	0.000	5.000
S161	K7	XYZXrYrZr	XYZXrYrZr	K20	P1	30.000	0.000	0.000	30.000	-5.000	0.000	5.000
S162	K20	XYZXrYrZr	XYZXrYrZr	K33	P1	30.000	-5.000	0.000	30.000	-10.000	0.000	5.000
S163	K33	XYZXrYrZr	XYZXrYrZr	K46	P1	30.000	-10.000	0.000	30.000	-15.000	0.000	5.000
S164	K46	XYZXrYrZr	XYZXrYrZr	K59	P1	30.000	-15.000	0.000	30.000	-20.000	0.000	5.000
S165	K8	XYZXrYrZr	XYZXrYrZr	K21	P1	35.000	0.000	0.000	35.000	-5.000	0.000	5.000
S166	K21	XYZXrYrZr	XYZXrYrZr	K34	P1	35.000	-5.000	0.000	35.000	-10.000	0.000	5.000
S167	K34	XYZXrYrZr	XYZXrYrZr	K47	P1	35.000	-10.000	0.000	35.000	-15.000	0.000	5.000
S168	K47	XYZXrYrZr	XYZXrYrZr	K60	P1	35.000	-15.000	0.000	35.000	-20.000	0.000	5.000
S169	K9	XYZXrYrZr	XYZXrYrZr	K22	P1	40.000	0.000	0.000	40.000	-5.000	0.000	5.000
S170	K22	XYZXrYrZr	XYZXrYrZr	K35	P1	40.000	-5.000	0.000	40.000	-10.000	0.000	5.000

Dakverbanden, wind loodrecht op cijferas							Novares Constructeurs					
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Staaf	Knoop	Scharnier		Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E	E								
S171	K35	XYZXrYrZr	XYZXrYrZr	K48	P1	40.000	-10.000	0.000	40.000	-15.000	0.000	5.000
S172	K48	XYZXrYrZr	XYZXrYrZr	K61	P1	40.000	-15.000	0.000	40.000	-20.000	0.000	5.000
S173	K10	XYZXrYrZr	XYZXrYrZr	K23	P1	45.000	0.000	0.000	45.000	-5.000	0.000	5.000
S174	K23	XYZXrYrZr	XYZXrYrZr	K36	P1	45.000	-5.000	0.000	45.000	-10.000	0.000	5.000
S175	K36	XYZXrYrZr	XYZXrYrZr	K49	P1	45.000	-10.000	0.000	45.000	-15.000	0.000	5.000
S176	K49	XYZXrYrZr	XYZXrYrZr	K62	P1	45.000	-15.000	0.000	45.000	-20.000	0.000	5.000
S177	K11	XYZXrYrZr	XYZXrYrZr	K24	P1	50.000	0.000	0.000	50.000	-5.000	0.000	5.000
S178	K24	XYZXrYrZr	XYZXrYrZr	K37	P1	50.000	-5.000	0.000	50.000	-10.000	0.000	5.000
S179	K37	XYZXrYrZr	XYZXrYrZr	K50	P1	50.000	-10.000	0.000	50.000	-15.000	0.000	5.000
S180	K50	XYZXrYrZr	XYZXrYrZr	K63	P1	50.000	-15.000	0.000	50.000	-20.000	0.000	5.000
S181	K12	XYZXrYrZr	XYZXrYrZr	K25	P1	55.000	0.000	0.000	55.000	-5.000	0.000	5.000
S182	K25	XYZXrYrZr	XYZXrYrZr	K38	P1	55.000	-5.000	0.000	55.000	-10.000	0.000	5.000
S183	K38	XYZXrYrZr	XYZXrYrZr	K51	P1	55.000	-10.000	0.000	55.000	-15.000	0.000	5.000
S184	K51	XYZXrYrZr	XYZXrYrZr	K64	P1	55.000	-15.000	0.000	55.000	-20.000	0.000	5.000
-	-	-	-	-	-	m	m	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	It	ly	Iz	Materiaal	Hoek
P1	KK120/4	1.8148e-03	6.2436e-06	4.0228e-06	4.0228e-06	S235H(EN10219-1)	0
P2	HE180A	4.5251e-03	1.4798e-07	2.5103e-05	9.2461e-06	S235	0
-	-	m2	m4	m4	m4	-	°

MATERIALEN

Materiaalnaam	Poison	Dichtheid	E-Modulus	Uitzettingcoëff
S235H(EN10219-1)	0.30	78.50	2.1000e+08	12.0000e-06
S235	0.30	78.50	2.1000e+08	12.0000e-06
-	-	kN/m3	kN/m2	C°m

OPLEGGINGEN

Oplegging	Knopen	X	Y	Z	Xr	Yr	Zr	HoekXr	HoekYr	HoekZr
O1	K1	vrij	vrij	vast	vrij	vast	vrij	0	0	0
O2	K2	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O3	K3	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O4	K4	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O5	K5	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O6	K6	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O7	K7	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O8	K8	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O9	K9	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O10	K10	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O11	K11	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O12	K12	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O13	K13	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O14	K14	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O15	K15	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O16	K16	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O17	K17	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O18	K18	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O19	K19	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O20	K20	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O21	K21	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O22	K22	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O23	K23	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O24	K24	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O25	K25	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O26	K26	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O27	K27	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O28	K28	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O29	K29	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O30	K30	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O31	K31	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O32	K32	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O33	K33	vrij	vrij	vast	vrij	vrij	vast	0	0	0

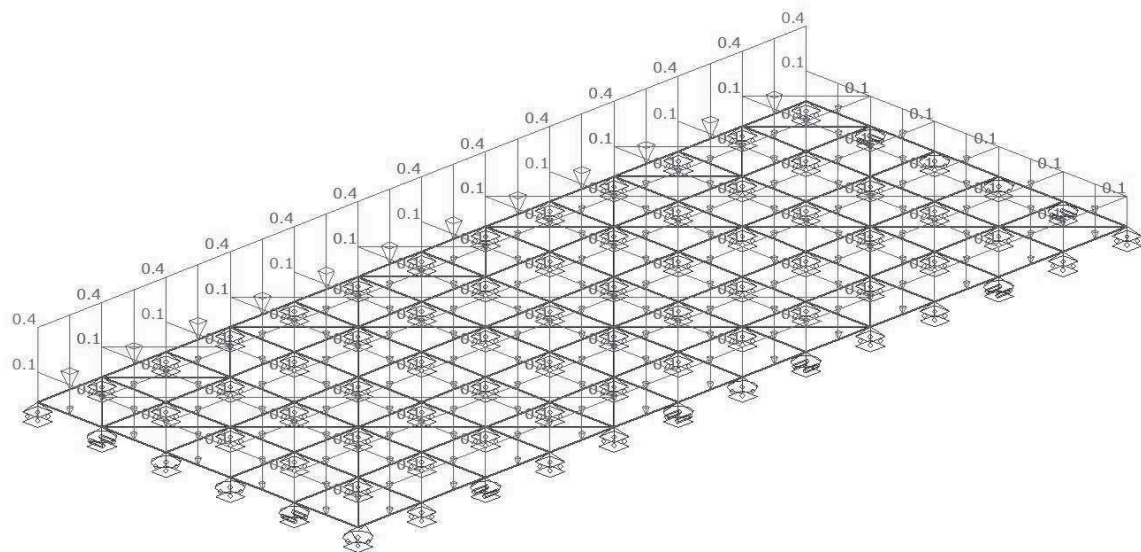
Dakverbanden, wind loodrecht op cijferas				Novares Constructeurs						
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Oplegging	Knopen	X	Y	Z	Xr	Yr	Zr	HoekXr	HoekYr	HoekZr
O34	K34	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O35	K35	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O36	K36	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O37	K37	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O38	K38	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O39	K39	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O40	K40	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O41	K41	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O42	K42	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O43	K43	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O44	K44	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O45	K45	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O46	K46	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O47	K47	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O48	K48	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O49	K49	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O50	K50	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O51	K51	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O52	K52	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O53	K53	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O54	K54	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O55	K55	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O56	K56	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O57	K57	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O58	K58	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O59	K59	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O60	K60	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O61	K61	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O62	K62	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O63	K63	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O64	K64	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O65	K65	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O66	K66	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O67	K67	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O68	K68	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O69	K69	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O70	K70	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O71	K71	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O72	K72	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O73	K73	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O74	K74	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O75	K75	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O76	K76	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O77	K77	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O78	K78	vrij	vrij	vast	vrij	vrij	vast	0	0	0
-	-	kN/m	kN/m	kN/m	kNmrad	kNmrad	kNmrad	°	°	°

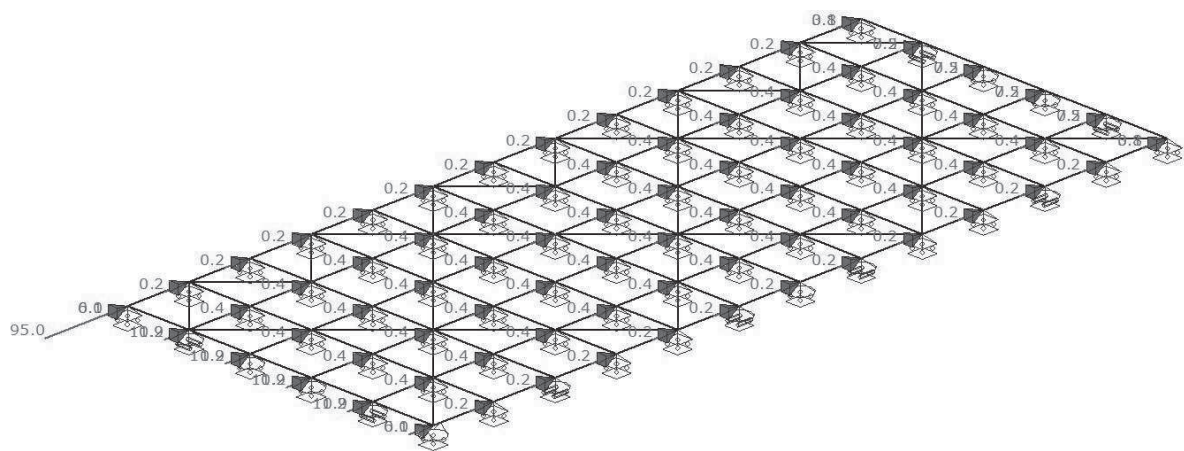
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

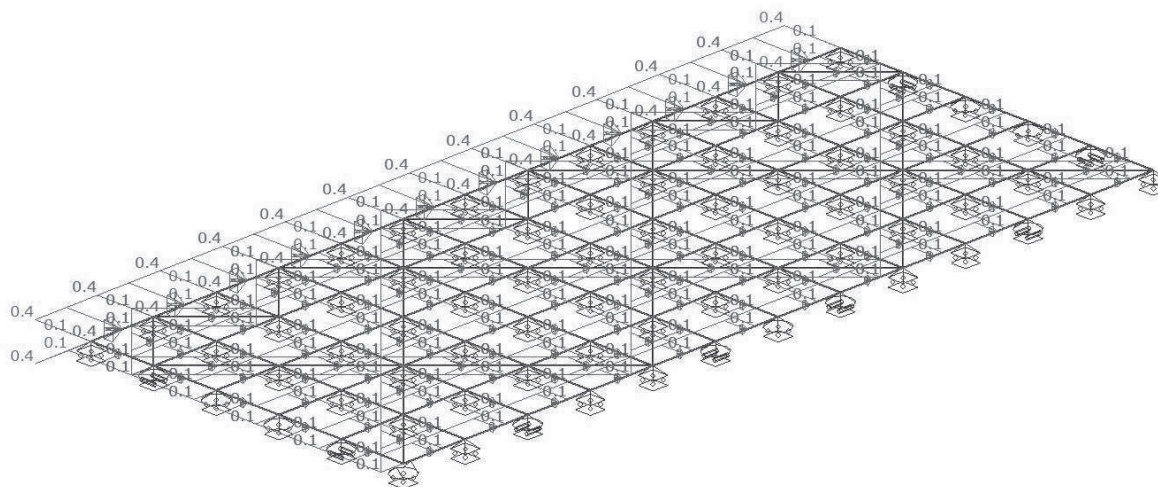
AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2
B.G.1	Permanent	1.20	1.35
B.G.2	Windbelasting	1.50	-
B.G.3	Kniklengte (Assymetrisch)	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Windbelasting	-	0.20
B.G.3	Kniklengte (Assymetrisch)	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-

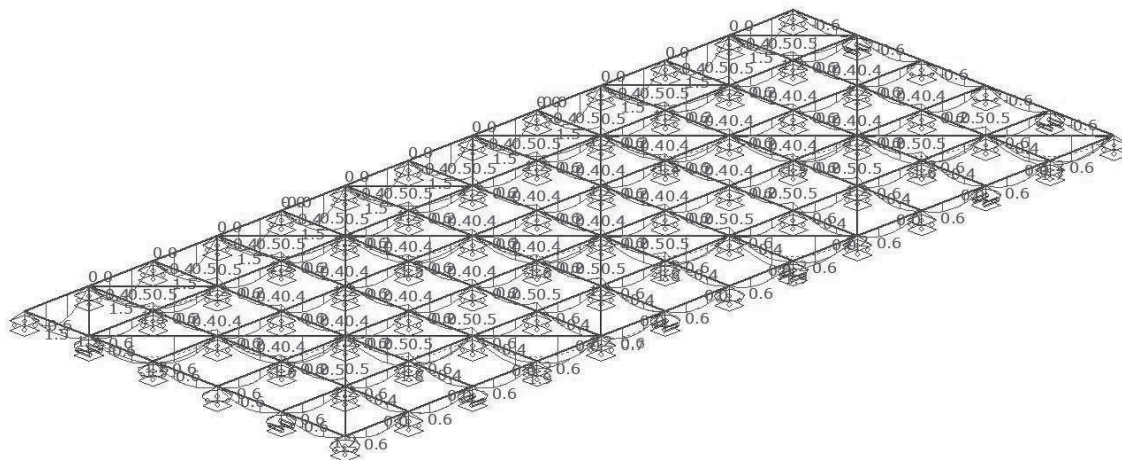
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kraft correctie)

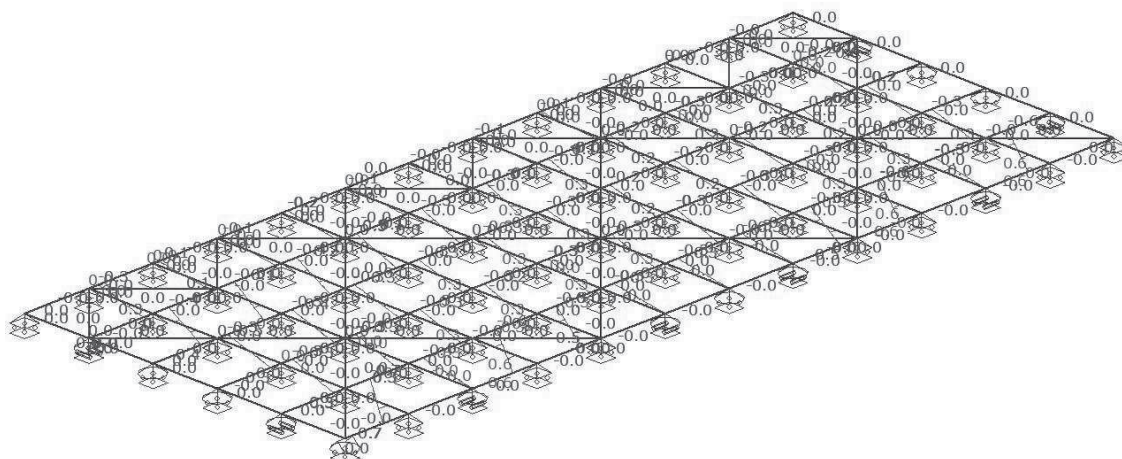
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



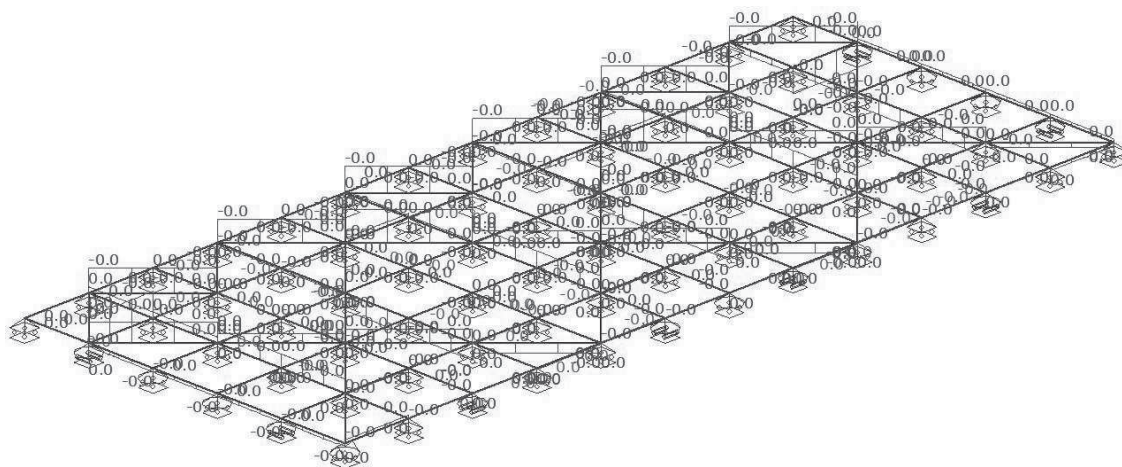
AFB. FU.C. MOMENT (MZ) OMHULLENDE

Fundamenteel Belastingscombinaties



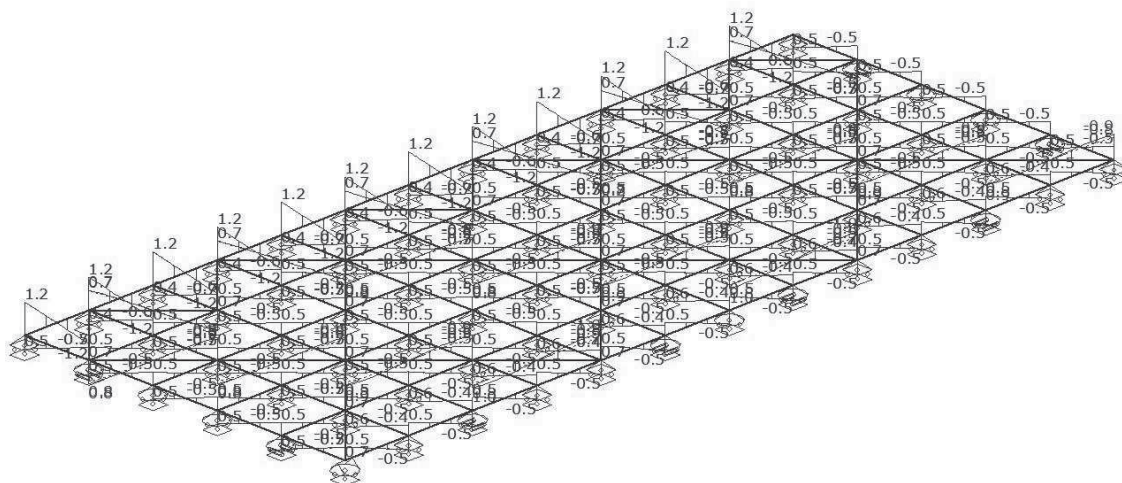
AFB. FU.C. MOMENT (MX) OMHULLENDE

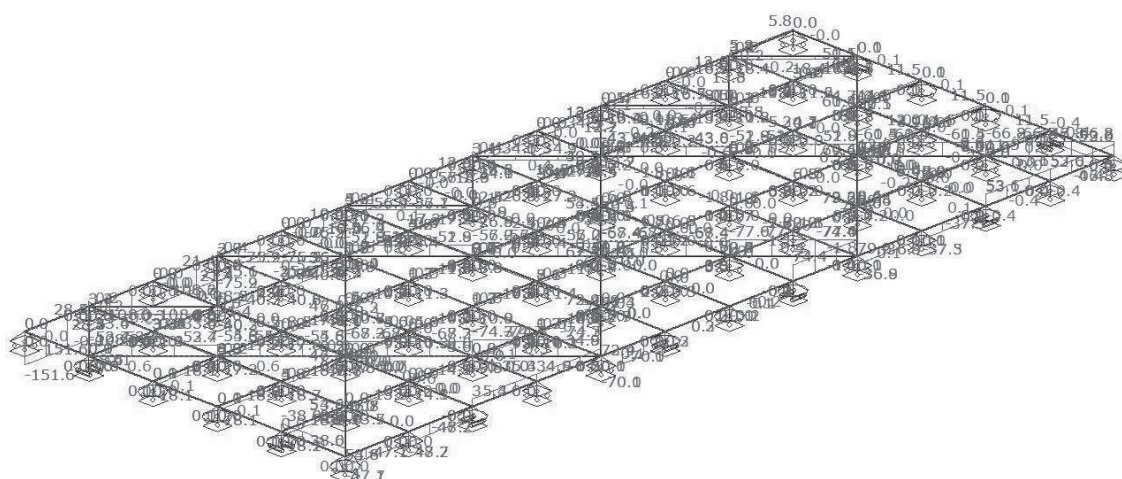
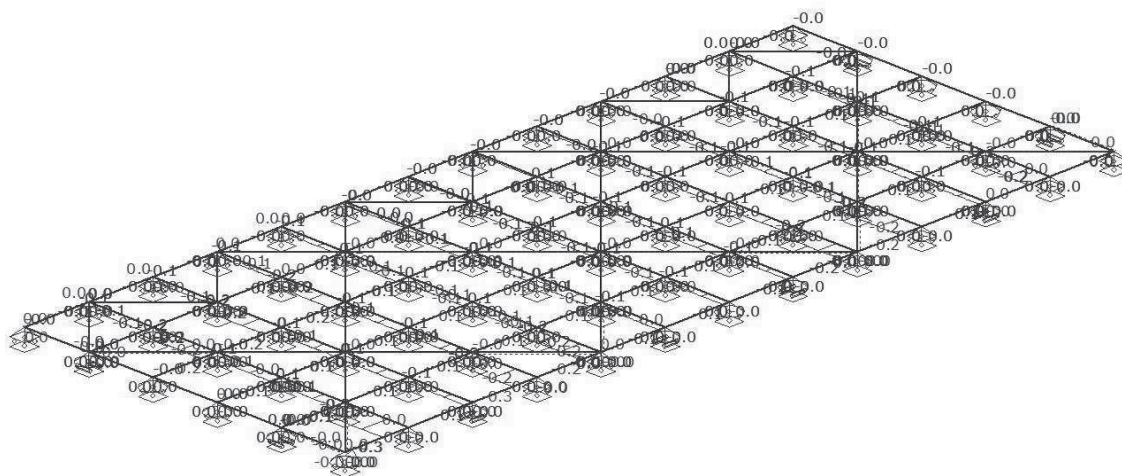
Fundamenteel Belastingscombinaties



AFB. FU.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties





FU.C. STAAFKRACHTEN (MY, MZ) ANALYSE

Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S1	Fu.C.1	My	0.00	0.62	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.988	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.988	0.000
S2	Fu.C.1	My	0.00	0.62	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
S3	Fu.C.1	My	0.00	0.48	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.001	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S4	Fu.C.1	My	0.00	0.49	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.004	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.004	0.000
S5	Fu.C.1	My	0.00	0.67	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
S6	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
S7	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S8	Fu.C.1	My	0.00	0.44	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.003	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.004	0.000
S9	Fu.C.1	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
S10	Fu.C.1	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
S11	Fu.C.1	My	0.00	0.46	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S12	Fu.C.1	My	0.00	0.46	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.010	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.011	0.000
S13	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S14	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.987	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.987	0.000
S15	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.013	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.013	0.000
S16	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.991	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.990	0.000
S17	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.008	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
S18	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.986	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.986	0.000
S19	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.013	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.013	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S20	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.989	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.990	0.000
S21	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.010	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
S22	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.987	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.986	0.000
S23	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.012	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.012	0.000
S24	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S25	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S26	Fu.C.1	My	0.00	0.57	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.992	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.001	0.000
S27	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.005	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.001	0.000
S28	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.997	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.993	0.000
S29	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.006	0.000
S30	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.988	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.994	0.000
S31	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.004	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.006	0.000
S32	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.993	0.000
S33	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.010	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.006	0.000
S34	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.996	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.999	0.000
S35	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.997	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.999	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S36	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S37	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S38	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.966	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.974	0.000
S39	Fu.C.1	My	0.00	0.56	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.030	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.030	0.000
S40	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.003	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.997	0.000
S41	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S42	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.958	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.966	0.000
S43	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.026	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.031	0.000
S44	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.003	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.998	0.000
S45	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S46	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.961	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.967	0.000
S47	Fu.C.1	My	0.00	0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.020	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.024	0.000
S48	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S49	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	3.000	0.00	4.552	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	3.000	0.00	4.554	0.000
S50	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.990	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.992	0.000
S51	Fu.C.1	My	0.00	0.61	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.988	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.987	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S52	Fu.C.1	My	0.00	0.61	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.054	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.055	0.000
S53	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.944	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.940	0.000
S54	Fu.C.1	My	0.00	0.54	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.008	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.012	0.000
S55	Fu.C.1	My	0.00	0.58	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.989	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.987	0.000
S56	Fu.C.1	My	0.00	0.58	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.054	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.055	0.000
S57	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.941	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.940	0.000
S58	Fu.C.1	My	0.00	0.52	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.011	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.012	0.000
S59	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.009	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.008	0.000
S60	Fu.C.1	My	0.00	0.55	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.000	0.00	0.450	0.000
	Fu.C.2	My	0.00	0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.000	0.00	0.447	0.000
S61	Fu.C.1	My	0.00	1.44	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S62	Fu.C.1	My	0.00	1.41	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
S63	Fu.C.1	My	0.00	1.41	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S64	Fu.C.1	My	0.00	1.38	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
S65	Fu.C.1	My	0.00	1.38	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S66	Fu.C.1	My	0.00	1.37	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
S67	Fu.C.1	My	0.00	1.37	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S68	Fu.C.1	My	0.00	1.36	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
S69	Fu.C.1	My	0.00	1.36	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S70	Fu.C.1	My	0.00	1.34	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	5.000	0.000
S71	Fu.C.1	My	0.00	1.34	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S72	Fu.C.1	My	0.00	1.33	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	1.50	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S73	Fu.C.1	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	3.000	0.00	4.709	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	3.000	0.00	4.708	0.000
S74	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.860	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.859	0.000
S75	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.908	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.907	0.000
S76	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.931	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.931	0.000
S77	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S79	Fu.C.1	My	0.45	-0.32	3.000	0.02	1.086	4.926
		Mz	0.26			-0.26	2.501	0.000
	Fu.C.2	My	0.51	-0.36	3.000	0.03	1.086	4.925
		Mz	0.00			0.00	2.300	0.000
S81	Fu.C.1	My	0.46	-0.33	3.000	0.00	1.093	5.000
		Mz	0.15			-0.15	2.503	0.000
	Fu.C.2	My	0.52	-0.37	3.000	0.00	1.093	4.999
		Mz	0.00	0.00	4.500	0.00	1.774	0.000
S83	Fu.C.1	My	0.45	-0.32	3.000	0.03	1.068	4.912
		Mz	0.14			-0.14	2.505	0.000
	Fu.C.2	My	0.50	-0.36	3.000	0.03	1.068	4.911
		Mz	0.00	0.00	3.000	0.00	1.148	0.000
S85	Fu.C.1	My	0.48	-0.32	3.000	0.00	1.125	0.000
		Mz	0.17			-0.17	2.506	0.000
	Fu.C.2	My	0.53	-0.36	3.000	0.00	1.125	5.000
		Mz	0.00	0.00	3.000	0.00	1.094	4.943
S87	Fu.C.1	My	0.44	-0.32	3.000	0.03	1.069	4.911
		Mz	0.10			-0.10	2.512	0.000
	Fu.C.2	My	0.50	-0.36	3.000	0.03	1.068	4.910
		Mz	0.00	0.00	3.000	0.00	1.165	0.000
S89	Fu.C.1	My	0.46	-0.33	3.000	0.00	1.093	5.000
		Mz	0.05			-0.05	2.529	0.000
	Fu.C.2	My	0.52	-0.37	3.000	0.00	1.092	4.999
		Mz	0.00	0.00	3.000	0.00	1.092	4.999

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S91	Fu.C.1	My	0.45	-0.32	3.000	0.03	1.068	4.911
		Mz	0.06			-0.06	2.527	0.000
	Fu.C.2	My	0.50	-0.36	3.000	0.03	1.068	4.910
		Mz	0.00	0.00	3.000	0.00	0.990	4.790
S93	Fu.C.1	My	0.48	-0.32	3.000	0.00	1.125	0.000
		Mz	0.10			-0.10	2.520	0.000
	Fu.C.2	My	0.53	-0.36	3.000	0.00	1.125	5.000
		Mz	0.00	0.00	3.000	0.00	1.140	0.000
S95	Fu.C.1	My	0.45	-0.32	3.000	0.03	1.069	4.912
		Mz	0.03			-0.04	2.560	0.000
	Fu.C.2	My	0.50	-0.36	3.000	0.03	1.068	4.911
		Mz	0.00	0.00	3.000	0.00	1.039	4.864
S97	Fu.C.1	My	0.46	-0.33	3.000	0.00	1.093	4.999
		Mz	-0.01			0.00	2.021	0.000
	Fu.C.2	My	0.52	-0.37	3.000	0.00	1.093	4.999
		Mz	0.00	0.00	2.500	0.00	0.842	4.607
S99	Fu.C.1	My	0.45	-0.32	3.000	0.02	1.086	4.925
		Mz	0.01			-0.01	2.827	0.000
	Fu.C.2	My	0.51	-0.36	3.000	0.03	1.086	4.925
		Mz	0.00	0.00	2.000	0.00	0.269	4.043
S100	Fu.C.1	My	0.00	-0.47	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S101	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
S102	Fu.C.1	My	0.00	0.81	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.043	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.044	0.000
S103	Fu.C.1	My	0.00	0.83	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.951	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.948	0.000
S104	Fu.C.1	My	0.00	0.84	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.997	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.995	0.000
S105	Fu.C.1	My	0.00	0.88	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.934	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.931	0.000
S106	Fu.C.1	My	0.00	-1.88	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.002	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.005	0.000
S107	Fu.C.1	My	0.00	-1.75	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.099	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.092	0.000
S108	Fu.C.1	My	0.00	-1.57	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.088	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.084	0.000
S109	Fu.C.1	My	0.00	-1.54	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.268	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.260	0.000
S110	Fu.C.1	My	0.00	0.75	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.026	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.027	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S111	Fu.C.1	My	0.00	0.78	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.029	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.028	0.000
S112	Fu.C.1	My	0.00	0.81	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.040	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.039	0.000
S113	Fu.C.1	My	0.00	0.86	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.999	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	6.997	0.000
S114	Fu.C.1	My	0.00	-1.93	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.043	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.044	0.000
S115	Fu.C.1	My	0.00	-1.76	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.040	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.037	0.000
S116	Fu.C.1	My	0.00	-1.59	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.036	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.034	0.000
S117	Fu.C.1	My	0.00	-1.53	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.115	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.110	0.000
S118	Fu.C.1	My	0.00	0.73	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.016	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.016	0.000
S119	Fu.C.1	My	0.00	0.75	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.046	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.045	0.000
S120	Fu.C.1	My	0.00	0.78	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.055	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.054	0.000
S121	Fu.C.1	My	0.00	0.82	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.038	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.037	0.000
S122	Fu.C.1	My	0.00	-1.74	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.062	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	7.063	0.000
S123	Fu.C.1	My	0.00	-1.65	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.026	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.025	0.000
S124	Fu.C.1	My	0.00	-1.53	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.021	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.020	0.000
S125	Fu.C.1	My	0.00	-1.43	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.063	0.000
	Fu.C.2	My	0.00	-1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.061	0.000
S126	Fu.C.1	My	0.00	0.92	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	4.243	0.00	6.582	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	4.243	0.00	6.578	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S127	Fu.C.1	My	0.00	1.32	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.162	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.158	0.000
S128	Fu.C.1	My	0.00	0.95	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.184	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.187	0.000
S129	Fu.C.1	My	0.00	1.25	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.085	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.083	0.000
S130	Fu.C.1	My	0.00	1.01	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.091	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.092	0.000
S131	Fu.C.1	My	0.00	1.19	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.066	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.065	0.000
S132	Fu.C.1	My	0.00	0.99	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.068	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.069	0.000
S133	Fu.C.1	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.046	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.046	0.000
S134	Fu.C.1	My	0.00	0.99	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.047	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.048	0.000
S135	Fu.C.1	My	0.00	1.16	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.041	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.041	0.000
S136	Fu.C.1	My	0.00	0.99	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.040	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.041	0.000
S137	Fu.C.1	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.022	0.000
	Fu.C.2	My	0.00	1.20	3.536	0.00	0.000	0.000
		Mz	0.00	0.00	3.536	0.00	0.022	0.000
S138	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S139	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S140	Fu.C.1	My	0.00	-0.53	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
	Fu.C.2	My	0.00	-0.60	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.002	0.000
S141	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.008	3.928
		Mz	0.67			-0.67	2.501	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.007	3.927
		Mz	0.00			0.00	2.978	0.000
S142	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.345	3.915
		Mz	0.30			-0.30	2.501	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.345	3.913
		Mz	0.00			0.00	2.170	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S143	Fu.C.1	My	0.34	-0.19	2.500	0.34	0.988	3.995
		Mz	0.27			-0.27	2.501	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.989	3.996
		Mz	0.00	0.00	2.000	0.00	0.233	3.440
S144	Fu.C.1	My	0.34	-0.15	2.500	0.43	1.081	3.689
		Mz	0.41			-0.41	2.500	0.000
	Fu.C.2	My	0.38	-0.17	2.500	0.49	1.081	3.686
		Mz	0.00			0.00	2.592	0.000
S145	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.003	3.938
		Mz	0.00			-0.38	0.000	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.003	3.937
		Mz	0.00	0.00	1.000	0.00	0.009	1.682
S146	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.358	3.916
		Mz	0.28			-0.29	2.501	0.000
	Fu.C.2	My	0.51	-0.16	2.500	0.38	1.358	3.919
		Mz	0.00	0.00	3.000	0.00	1.714	4.552
S147	Fu.C.1	My	0.34	-0.20	2.500	0.34	0.991	4.004
		Mz	0.27			-0.28	2.501	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.38	0.991	4.004
		Mz	0.00	0.00	2.000	0.00	0.432	3.582
S148	Fu.C.1	My	0.34	-0.15	2.500	0.44	1.092	3.681
		Mz	0.45			-0.45	2.501	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.49	1.089	3.680
		Mz	0.00			0.00	2.763	0.000
S149	Fu.C.1	My	0.00	-0.33	2.000	0.46	0.003	3.926
		Mz	0.63			-0.63	2.501	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.002	3.926
		Mz	0.00			0.00	3.132	0.000
S150	Fu.C.1	My	0.44	-0.14	2.500	0.34	1.344	3.913
		Mz	0.30			-0.30	2.501	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.344	3.914
		Mz	0.00	0.00	2.000	0.00	0.388	3.304
S151	Fu.C.1	My	0.34	-0.19	2.500	0.35	0.989	3.994
		Mz	0.25			-0.25	2.502	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.989	3.993
		Mz	0.00	0.00	2.000	0.00	0.449	3.608
S152	Fu.C.1	My	0.34	-0.15	2.500	0.44	1.075	3.669
		Mz	0.40			-0.40	2.501	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.50	1.071	3.666
		Mz	0.00	0.00	1.000	0.00	3.040	0.000
S153	Fu.C.1	My	0.01	-0.33	2.000	0.45	0.031	3.939
		Mz	0.51			-0.51	2.502	0.000
	Fu.C.2	My	0.01	-0.37	2.000	0.50	0.029	3.938
		Mz	0.00	0.00	1.000	0.00	3.425	0.000
S154	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.353	3.916
		Mz	0.29			-0.30	2.502	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.353	3.914
		Mz	0.00	0.00	2.500	0.00	1.406	4.002
S155	Fu.C.1	My	0.34	-0.19	2.500	0.35	0.988	3.994
		Mz	0.25			-0.25	2.502	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.987	3.993
		Mz	0.00	0.00	2.500	0.00	0.921	3.913
S156	Fu.C.1	My	0.35	-0.15	2.500	0.42	1.093	3.724
		Mz	0.31			-0.32	2.502	0.000
	Fu.C.2	My	0.39	-0.17	2.500	0.47	1.092	3.723
		Mz	0.00	0.00	2.000	0.00	0.470	3.353
S157	Fu.C.1	My	0.00	-0.33	2.000	0.46	0.002	3.927
		Mz	0.00			-0.34	0.000	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.002	3.926
		Mz	0.00	0.00	2.000	0.00	0.002	3.555
S158	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.345	3.918
		Mz	0.29			-0.30	2.502	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.344	3.914
		Mz	0.00	0.00	3.000	0.00	1.646	4.431

Dakverbanden, wind loodrecht op cijferas						Novares Constructeurs		
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S159	Fu.C.1	My	0.34	-0.19	2.500	0.34	0.989	3.994
		Mz	0.25			-0.25	2.503	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.988	3.993
		Mz	0.00	0.00	2.500	0.00	1.120	4.111
S160	Fu.C.1	My	0.33	-0.15	2.500	0.44	1.071	3.671
		Mz	0.33			-0.34	2.502	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.50	1.072	3.666
		Mz	0.00	0.00	2.000	0.00	0.658	3.404
S161	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.003	3.939
		Mz	0.00			-0.33	0.000	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.003	3.937
		Mz	0.00	0.00	2.000	0.00	0.003	3.937
S162	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.359	3.917
		Mz	0.27			-0.27	2.503	0.000
	Fu.C.2	My	0.51	-0.16	2.500	0.38	1.358	3.916
		Mz	0.00	0.00	2.500	0.00	1.358	3.916
S163	Fu.C.1	My	0.34	-0.20	2.500	0.34	0.990	4.005
		Mz	0.26			-0.26	2.504	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.38	0.989	4.004
		Mz	0.00	0.00	2.500	0.00	0.989	4.004
S164	Fu.C.1	My	0.34	-0.15	2.500	0.44	1.092	3.681
		Mz	0.35			-0.35	2.502	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.49	1.089	3.680
		Mz	0.00	0.00	2.500	0.00	1.089	3.680
S165	Fu.C.1	My	0.00	-0.33	2.000	0.46	0.001	3.927
		Mz	0.00			-0.33	0.000	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.002	3.926
		Mz	0.00	0.00	2.000	0.00	0.002	4.285
S166	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.344	3.913
		Mz	0.28			-0.28	2.503	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.344	3.914
		Mz	0.00	0.00	2.500	0.00	0.936	3.565
S167	Fu.C.1	My	0.34	-0.19	2.500	0.35	0.990	3.995
		Mz	0.23			-0.23	2.504	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.988	3.993
		Mz	0.00	0.00	2.500	0.00	0.895	3.885
S168	Fu.C.1	My	0.34	-0.15	2.500	0.44	1.076	3.669
		Mz	0.30			-0.30	2.503	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.50	1.072	3.666
		Mz	0.00	0.00	2.500	0.00	1.339	3.934
S169	Fu.C.1	My	0.01	-0.33	2.000	0.45	0.034	3.940
		Mz	0.46			-0.46	2.504	0.000
	Fu.C.2	My	0.01	-0.37	2.000	0.50	0.029	3.938
		Mz	0.00	0.00	2.500	0.00	0.583	4.342
S170	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.355	3.916
		Mz	0.28			-0.28	2.503	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.353	3.914
		Mz	0.00	0.00	2.500	0.00	1.324	3.873
S171	Fu.C.1	My	0.34	-0.19	2.500	0.35	0.988	3.995
		Mz	0.23			-0.23	2.505	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.987	3.993
		Mz	0.00	0.00	2.500	0.00	1.025	4.027
S172	Fu.C.1	My	0.35	-0.15	2.500	0.42	1.094	3.724
		Mz	0.23			-0.23	2.504	0.000
	Fu.C.2	My	0.39	-0.17	2.500	0.47	1.092	3.723
		Mz	0.00	0.00	2.500	0.00	1.344	4.005
S173	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.008	3.929
		Mz	0.57			-0.57	2.504	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.002	3.926
		Mz	0.00	0.00	2.500	0.00	0.506	4.279
S174	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.346	3.918
		Mz	0.28			-0.28	2.504	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.344	3.914
		Mz	0.00	0.00	3.000	0.00	1.480	4.128

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S175	Fu.C.1	My	0.34	-0.19	2.500	0.34	0.989	3.994
		Mz	0.22			-0.22	2.506	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.989	3.993
		Mz	0.00	0.00	2.500	0.00	1.132	4.122
S176	Fu.C.1	My	0.33	-0.15	2.500	0.44	1.071	3.668
		Mz	0.25			-0.25	2.504	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.50	1.071	3.666
		Mz	0.00	0.00	3.000	0.00	1.440	4.086
S177	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.003	3.939
		Mz	0.00			-0.35	0.000	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.003	3.937
		Mz	0.00	0.00	2.000	0.00	0.003	4.419
S178	Fu.C.1	My	0.45	-0.14	2.500	0.33	1.359	3.921
		Mz	0.25			-0.26	2.504	0.000
	Fu.C.2	My	0.51	-0.16	2.500	0.38	1.358	3.919
		Mz	0.00	0.00	2.500	0.00	1.262	3.795
S179	Fu.C.1	My	0.34	-0.19	2.500	0.34	0.992	4.005
		Mz	0.24			-0.24	2.506	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.38	0.991	4.004
		Mz	0.00	0.00	2.500	0.00	1.106	4.101
S180	Fu.C.1	My	0.34	-0.15	2.500	0.44	1.091	3.682
		Mz	0.26			-0.26	2.504	0.000
	Fu.C.2	My	0.38	-0.16	2.500	0.49	1.089	3.680
		Mz	0.00	0.00	3.000	0.00	1.620	4.395
S181	Fu.C.1	My	0.00	-0.33	2.000	0.45	0.013	3.931
		Mz	0.57			-0.57	2.504	0.000
	Fu.C.2	My	0.00	-0.37	2.000	0.51	0.007	3.927
		Mz	0.00	0.00	2.500	0.00	0.708	4.476
S182	Fu.C.1	My	0.45	-0.14	2.500	0.34	1.346	3.915
		Mz	0.26			-0.27	2.504	0.000
	Fu.C.2	My	0.50	-0.16	2.500	0.38	1.345	3.914
		Mz	0.00	0.00	2.000	0.00	0.903	3.539
S183	Fu.C.1	My	0.34	-0.19	2.500	0.34	0.990	3.998
		Mz	0.22			-0.22	2.507	0.000
	Fu.C.2	My	0.38	-0.22	2.500	0.39	0.989	3.996
		Mz	0.00	0.00	2.500	0.00	1.100	4.089
S184	Fu.C.1	My	0.34	-0.15	2.500	0.43	1.085	3.690
		Mz	0.22			-0.22	2.506	0.000
	Fu.C.2	My	0.38	-0.17	2.500	0.49	1.081	3.686
		Mz	0.00	0.00	3.500	0.00	1.866	0.000
-	-	-	kNm	kNm	m	kNm	m	m

FU.C. STAAFKRACHTEN (NX, VY, VZ, MX) ANALYSE

Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S1	Fu.C.1	D	-47.66 Vz	0.49	0.49	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.42 Vz	0.48	0.48	-0.48	0.00	0.00
S2	Fu.C.1	D	-48.23 Vz	0.49	0.49	-0.49	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.42 Vz	0.48	0.48	-0.48	0.00	0.00
S3	Fu.C.1	T	35.44 Vz	0.39	-0.39	-0.39	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.15 Vz	0.48	-0.48	-0.48	0.00	0.00
S4	Fu.C.1	T	34.89 Vz	0.39	-0.40	-0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.15 Vz	0.48	-0.48	-0.48	0.00	0.00
S5	Fu.C.1	D	-70.02 Vz	0.52	0.52	-0.52	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.08 Vz	0.48	-0.48	-0.48	0.00	0.00
S6	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.28 Vz	0.43	-0.43	-0.43	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S7	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S8	Fu.C.1	D	-0.08 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
S9	Fu.C.2	T	Vy	0.00	0.00	0.00		
			74.43 Vz	0.36	-0.36	-0.36	0.00	0.00
			Vy	0.00	0.00	0.00		
S10	Fu.C.1	D	0.08 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
			-36.79 Vz	0.47	0.47	-0.47	0.00	0.00
S11	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.15 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S12	Fu.C.1	D	-37.32 Vz	0.47	0.47	-0.47	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.15 Vz	0.48	-0.48	-0.48	0.00	0.00
S13	Fu.C.2	T	Vy	0.00	0.00	0.00		
			53.12 Vz	0.38	-0.38	-0.38	0.00	0.00
			Vy	0.00	0.00	0.00		
S14	Fu.C.1	D	-0.42 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
			52.59 Vz	0.38	-0.38	-0.38	0.00	0.00
S15	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-0.42 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S16	Fu.C.1	D	-18.17 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S17	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-13.75 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
S18	Fu.C.1	D	-0.20 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
			-14.31 Vz	0.44	0.44	-0.44	0.00	0.00
S19	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-0.20 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S20	Fu.C.1	D	-9.75 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
S21	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-10.19 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
S22	Fu.C.1	D	0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
			-2.92 Vz	0.43	0.43	-0.43	0.00	0.00
S23	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S24	Fu.C.1	D	-3.49 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
			-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
S25	Fu.C.2	T	Vy	0.00	0.00	0.00		
			2.73 Vz	0.43	-0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
S26	Fu.C.1	D	0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
			2.28 Vz	0.43	-0.43	-0.43	0.00	0.00
S27	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S28	Fu.C.1	D	8.37 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
			-0.20 Vz	0.48	0.48	-0.48	0.00	0.00
S29	Fu.C.2	T	Vy	0.00	0.00	0.00		

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S23	Fu.C.1	T	7.81 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.20 Vz	0.48	0.48	-0.48	0.00	0.00
S24	Fu.C.1	T	11.46 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S25	Fu.C.1	D	-18.15 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S26	Fu.C.1	D	-18.66 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S27	Fu.C.1	D	-9.84 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S28	Fu.C.1	D	-10.35 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S29	Fu.C.1	D	-10.86 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S30	Fu.C.1	D	-11.37 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S31	Fu.C.1	T	1.67 Vz	0.43	-0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S32	Fu.C.1	T	1.16 Vz	0.43	-0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S33	Fu.C.1	T	0.66 Vz	0.43	-0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S34	Fu.C.1	T	0.16 Vz	0.43	-0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.48	0.48	-0.48	0.00	0.00
S35	Fu.C.1	T	11.98 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S36	Fu.C.1	T	11.48 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S37	Fu.C.1	D	-18.15 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S38	Fu.C.1	D	-17.20 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
S39	Fu.C.1	D	-17.80 Vz	0.45	0.45	-0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S40	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-10.76 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.08 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S41	Fu.C.1	D	-11.31 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.08 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S42	Fu.C.1	D	-8.85 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.03 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S43	Fu.C.1	D	-9.41 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.03 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S44	Fu.C.1	D	-0.08 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.08 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S45	Fu.C.1	D	-0.60 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.08 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S46	Fu.C.1	T	5.21 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S47	Fu.C.1	T	4.67 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S48	Fu.C.1	T	11.48 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S49	Fu.C.1	D	-0.98 Vz	0.43	0.43	-0.43	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.39 Vz	0.48	0.48	-0.48	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S50	Fu.C.1	D	-1.44 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.38 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S51	Fu.C.1	D	-40.33 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S52	Fu.C.1	D	-40.75 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S53	Fu.C.1	D	-4.02 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.09 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S54	Fu.C.1	D	-4.44 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.09 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S55	Fu.C.1	D	-26.89 Vz	0.46	0.46	-0.46	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.09 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S56	Fu.C.1	D	-27.32 Vz	0.46	0.46	-0.46	0.00	0.00
			Vy	0.00	0.00	0.00		

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S56	Fu.C.2	D	-0.09 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S57	Fu.C.1	T	8.90 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S58	Fu.C.1	T	8.46 Vz	0.42	-0.42	-0.42	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.17 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S59	Fu.C.1	D	-11.17 Vz	0.44	0.44	-0.44	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.38 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S60	Fu.C.1	D	-11.61 Vz	0.44	0.44	-0.44	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.39 Vz	0.48	0.48	-0.48	0.02	0.02
			Vy	0.00	0.00	0.00		
S61	Fu.C.1	D	-151.57 Vz	1.14	1.14	-1.13	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S62	Fu.C.1	D	-108.34 Vz	1.12	1.12	-1.11	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.23 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S63	Fu.C.1	D	-108.58 Vz	1.12	1.12	-1.11	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.23 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S64	Fu.C.1	D	-75.93 Vz	1.10	1.10	-1.10	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.61 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S65	Fu.C.1	D	-76.16 Vz	1.10	1.10	-1.10	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.61 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S66	Fu.C.1	D	-56.85 Vz	1.09	1.09	-1.09	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.38 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S67	Fu.C.1	D	-57.13 Vz	1.09	1.09	-1.09	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.38 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S68	Fu.C.1	D	-34.65 Vz	1.08	1.08	-1.08	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.61 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S69	Fu.C.1	D	-34.91 Vz	1.08	1.08	-1.08	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.61 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S70	Fu.C.1	D	-16.41 Vz	1.07	1.07	-1.07	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.23 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S71	Fu.C.1	D	-16.71 Vz	1.07	1.07	-1.07	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.23 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S72	Fu.C.1	T	5.78 Vz	1.06	-1.06	-1.06	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	1.20	1.20	-1.20	0.00	0.00
			Vy	0.00	0.00	0.00		
S73	Fu.C.1	D	-38.59 Vz	-0.47	-0.47	0.47	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S74	Fu.C.2	D	Vy	0.00	0.00	0.00		
			-0.42 Vz	-0.48	-0.48	0.48	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.12 Vz	-0.43	0.43	0.43	0.00	0.00
S75	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	-0.48	0.48	0.48	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.11 Vz	-0.43	0.43	0.43	0.00	0.00
S76	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	-0.48	0.48	0.48	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.11 Vz	-0.43	0.43	0.43	0.00	0.00
S77	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	-0.48	0.48	0.48	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.02 Vz	-0.43	0.43	0.43	0.00	0.00
S79	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.48	-0.48	0.48	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			3.28 Vz	-0.51	-0.51	0.34	0.00	0.00
S81	Fu.C.2	D	Vy	-0.10	-0.11	-0.11		
			-0.20 Vz	-0.58	-0.58	0.38	0.01	0.01
	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-0.02 Vz	-0.52	-0.52	0.34	0.00	0.00
S83	Fu.C.2	T	Vy	-0.06	-0.06	-0.06		
			0.00 Vz	-0.58	-0.58	0.38	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			2.65 Vz	-0.51	-0.51	0.34	0.00	0.00
S85	Fu.C.2	D	Vy	-0.06	-0.06	-0.06		
			-0.39 Vz	-0.58	-0.58	0.39	0.00	0.00
	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-0.01 Vz	-0.52	-0.52	0.33	0.00	0.00
S87	Fu.C.2	T	Vy	-0.07	-0.07	-0.07		
			0.00 Vz	-0.59	-0.59	0.37	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			4.83 Vz	-0.51	-0.51	0.34	0.00	0.00
S89	Fu.C.2	D	Vy	-0.04	-0.04	-0.04		
			-0.38 Vz	-0.58	-0.58	0.39	0.00	0.00
	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-0.01 Vz	-0.52	-0.52	0.34	0.00	0.00
S91	Fu.C.2	T	Vy	-0.02	-0.02	-0.02		
			0.00 Vz	-0.58	-0.58	0.38	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			3.08 Vz	-0.51	-0.51	0.34	0.00	0.00
S93	Fu.C.2	D	Vy	-0.02	-0.03	-0.03		
			-0.38 Vz	-0.58	-0.58	0.39	0.00	0.00
	Fu.C.1	D	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.52	-0.52	0.33	0.00	0.00
S95	Fu.C.2	T	Vy	-0.04	-0.04	-0.04		
			0.00 Vz	-0.59	-0.59	0.37	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.14 Vz	-0.51	-0.51	0.34	0.00	0.00
S97	Fu.C.2	D	Vy	-0.01	-0.02	-0.02		
			-0.39 Vz	-0.58	-0.58	0.39	0.00	0.00
	Fu.C.1	D	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.52	-0.52	0.34	0.00	0.00
S99	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.58	-0.58	0.38	0.00	0.00
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			3.27 Vz	-0.51	-0.51	0.34	0.00	0.00
S100	Fu.C.2	D	Vy	0.00	0.00	0.00		
			-0.20 Vz	-0.58	-0.58	0.38	-0.01	-0.01
	Fu.C.1	T	Vy	0.00	0.00	0.00		
			46.82 Vz	-0.38	0.39	0.39	0.00	0.00
	Fu.C.2	D	Vy	0.00	0.00	0.00		
			-0.42 Vz	-0.48	-0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S101	Fu.C.1	D	0.00 Vz	-0.43	-0.43	0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	-0.48	-0.48	0.48	0.00	0.00
S102	Fu.C.1	T	54.58 Vz	0.48	-0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.60 Vz	0.68	-0.68	-0.68	0.00	0.00
S103	Fu.C.1	T	47.80 Vz	0.49	-0.49	-0.49	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.88 Vz	0.68	-0.68	-0.68	-0.01	-0.01
S104	Fu.C.1	T	47.03 Vz	0.49	-0.50	-0.50	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.74 Vz	0.68	-0.68	-0.68	-0.01	-0.01
S105	Fu.C.1	T	36.25 Vz	0.52	-0.52	-0.52	-0.03	-0.03
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.84 Vz	0.68	-0.68	-0.68	-0.03	-0.03
S106	Fu.C.1	D	-74.30 Vz	-0.99	-0.99	0.98	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.29 Vz	-0.68	0.68	0.68	-0.01	-0.01
S107	Fu.C.1	D	-67.29 Vz	-0.93	-0.93	0.92	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.74 Vz	-0.68	0.68	0.68	0.01	0.01
S108	Fu.C.1	D	-54.85 Vz	-0.84	-0.84	0.84	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.58 Vz	-0.68	0.68	0.68	0.01	0.01
S109	Fu.C.1	D	-52.70 Vz	-0.83	-0.83	0.82	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.57 Vz	-0.68	0.68	0.68	0.02	0.02
S110	Fu.C.1	T	73.36 Vz	0.45	-0.45	-0.45	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.39 Vz	0.68	-0.68	-0.68	0.01	0.01
S111	Fu.C.1	T	62.27 Vz	0.47	-0.47	-0.47	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.79 Vz	0.68	-0.68	-0.68	-0.01	-0.01
S112	Fu.C.1	T	54.36 Vz	0.48	-0.48	-0.48	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.68 Vz	0.68	-0.68	-0.68	-0.01	-0.01
S113	Fu.C.1	T	40.37 Vz	0.51	-0.51	-0.51	-0.03	-0.03
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.83 Vz	0.68	-0.68	-0.68	-0.03	-0.03
S114	Fu.C.1	D	-77.05 Vz	-1.01	-1.01	1.00	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.39 Vz	-0.68	0.68	0.68	-0.01	-0.01
S115	Fu.C.1	D	-67.43 Vz	-0.93	-0.93	0.92	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.79 Vz	-0.68	0.68	0.68	0.01	0.01
S116	Fu.C.1	D	-56.18 Vz	-0.85	-0.85	0.85	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.68 Vz	-0.68	0.68	0.68	0.01	0.01
S117	Fu.C.1	D	-51.92 Vz	-0.82	-0.82	0.82	0.03	0.03
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.83 Vz	-0.68	0.68	0.68	0.03	0.03

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S118	Fu.C.1	T	Vy	0.00	0.00	0.00		
			79.56 Vz	0.44	-0.44	-0.44	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.29 Vz	0.68	-0.68	-0.68	0.01	0.01
			Vy	0.00	0.00	0.00		
S119	Fu.C.1	T	70.38 Vz	0.45	-0.46	-0.46	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.74 Vz	0.68	-0.68	-0.68	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S120	Fu.C.1	T	61.44 Vz	0.47	-0.47	-0.47	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.58 Vz	0.68	-0.68	-0.68	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S121	Fu.C.1	T	51.07 Vz	0.49	-0.49	-0.49	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.57 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S122	Fu.C.1	D	-66.20 Vz	-0.92	-0.92	0.91	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.60 Vz	-0.68	0.68	0.68	0.00	0.00
			Vy	0.00	0.00	0.00		
S123	Fu.C.1	D	-60.46 Vz	-0.88	-0.88	0.87	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.88 Vz	-0.68	0.68	0.68	0.01	0.01
			Vy	0.00	0.00	0.00		
S124	Fu.C.1	D	-51.95 Vz	-0.82	-0.82	0.82	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.74 Vz	-0.68	0.68	0.68	0.01	0.01
			Vy	0.00	0.00	0.00		
S125	Fu.C.1	D	-42.98 Vz	-0.77	-0.77	0.77	0.03	0.03
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.84 Vz	-0.68	0.68	0.68	0.03	0.03
			Vy	0.00	0.00	0.00		
S126	Fu.C.1	T	28.39 Vz	0.53	-0.53	-0.53	0.01	0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.68	0.68	-0.68	0.01	0.01
			Vy	0.00	0.00	0.00		
S127	Fu.C.1	D	-33.03 Vz	0.73	0.73	-0.72	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.30 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S128	Fu.C.1	T	21.40 Vz	0.55	-0.55	-0.55	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.01 Vz	0.68	-0.68	-0.68	0.02	0.02
			Vy	0.00	0.00	0.00		
S129	Fu.C.1	D	-25.12 Vz	0.69	0.69	-0.69	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.54 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S130	Fu.C.1	T	10.43 Vz	0.58	-0.58	-0.58	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.44 Vz	0.68	-0.68	-0.68	0.02	0.02
			Vy	0.00	0.00	0.00		
S131	Fu.C.1	D	-17.25 Vz	0.66	0.66	-0.66	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.11 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S132	Fu.C.1	T	13.92 Vz	0.57	-0.57	-0.57	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.11 Vz	0.68	-0.68	-0.68	0.02	0.02
			Vy	0.00	0.00	0.00		
S133	Fu.C.1	D	-18.27 Vz	0.67	0.67	-0.66	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.44 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S134	Fu.C.1	T	13.18 Vz	0.57	-0.57	-0.57	0.02	0.02
			Vy	0.00	0.00	0.00		

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S134	Fu.C.2	T	0.54 Vz	0.68	-0.68	-0.68	0.02	0.02
			Vy	0.00	0.00	0.00		
S135	Fu.C.1	D	-13.38 Vz	0.65	0.65	-0.65	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.01 Vz	0.68	-0.68	-0.68	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S136	Fu.C.1	T	13.80 Vz	0.57	-0.57	-0.57	0.02	0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.30 Vz	0.68	-0.68	-0.68	0.02	0.02
			Vy	0.00	0.00	0.00		
S137	Fu.C.1	D	-18.42 Vz	0.67	0.67	-0.67	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.02 Vz	0.68	0.68	-0.68	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S138	Fu.C.1	T	0.11 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.12 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S139	Fu.C.1	T	0.11 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.12 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S140	Fu.C.1	T	0.11 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.12 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S141	Fu.C.1	T	0.01 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.27	-0.27	-0.27		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S142	Fu.C.1	T	4.80 Vz	-0.45	-0.45	0.41	0.01	0.01
			Vy	-0.12	-0.12	-0.12		
	Fu.C.2	D	-0.20 Vz	-0.50	-0.50	0.46	0.01	0.01
			Vy	0.00	0.00	0.00		
S143	Fu.C.1	T	4.80 Vz	-0.43	0.43	0.43	0.01	0.01
			Vy	-0.11	-0.11	-0.11		
	Fu.C.2	D	-0.20 Vz	-0.48	0.48	0.48	0.01	0.01
			Vy	0.00	0.00	0.00		
S144	Fu.C.1	T	3.28 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.17	-0.17	-0.17		
	Fu.C.2	D	-0.20 Vz	-0.46	0.50	0.50	0.01	0.01
			Vy	0.00	0.00	0.00		
S145	Fu.C.1	D	0.00 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.08	-0.08	-0.08		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S146	Fu.C.1	D	0.00 Vz	-0.45	-0.45	0.40	0.00	0.00
			Vy	-0.11	-0.11	-0.11		
	Fu.C.2	T	0.00 Vz	-0.51	-0.51	0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
S147	Fu.C.1	D	-8.25 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	-0.11	-0.11	-0.11		
	Fu.C.2	T	0.21 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S148	Fu.C.1	D	-8.25 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.18	-0.18	-0.18		
	Fu.C.2	T	0.21 Vz	-0.46	0.50	0.50	0.00	0.00
			Vy	0.00	0.00	0.00		
S149	Fu.C.1	T	0.01 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.25	-0.25	-0.25		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S150	Fu.C.1	D	-4.96 Vz	-0.45	-0.45	0.41	-0.01	-0.01
			Vy	-0.12	-0.12	-0.12		
	Fu.C.2	D	-0.31 Vz	-0.50	-0.50	0.46	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S151	Fu.C.1	D	-4.96 Vz	-0.43	0.43	0.43	-0.01	-0.01

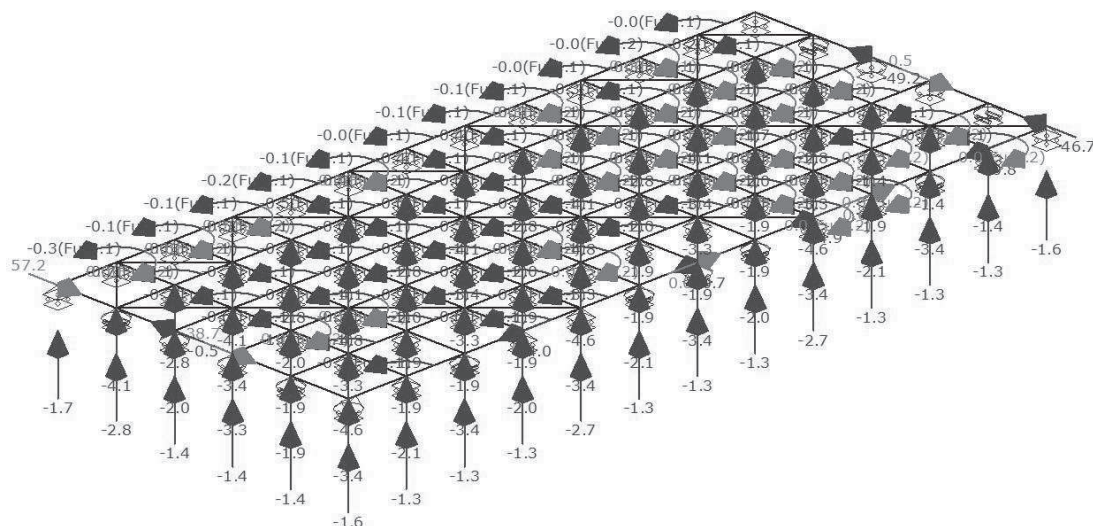
Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S152	Fu.C.2	D	Vy	-0.10	-0.10	-0.10		
			-0.31 Vz	-0.48	0.48	0.48	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S153	Fu.C.1	T	2.66 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.16	-0.16	-0.16		
			-0.39 Vz	-0.46	0.51	0.51	0.00	0.00
S154	Fu.C.2	D	Vy	0.00	0.00	0.00		
			0.69 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.20	-0.21	-0.21		
S155	Fu.C.1	T	-0.48 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.69 Vz	-0.45	-0.45	0.41	0.00	0.00
S156	Fu.C.2	D	Vy	-0.12	-0.12	-0.12		
			-0.48 Vz	-0.51	-0.51	0.46	0.00	0.00
			Vy	0.00	0.00	0.00		
S157	Fu.C.1	T	0.69 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	-0.10	-0.10	-0.10		
			-0.48 Vz	-0.48	0.48	0.48	0.00	0.00
S158	Fu.C.2	D	Vy	0.00	0.00	0.00		
			0.69 Vz	-0.41	0.44	0.44	0.00	0.00
			Vy	-0.13	-0.13	-0.13		
S159	Fu.C.1	T	-0.48 Vz	-0.46	0.50	0.50	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.01 Vz	-0.34	0.52	0.52	0.00	0.00
S160	Fu.C.2	D	Vy	-0.07	-0.07	-0.07		
			0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S161	Fu.C.1	T	7.83 Vz	-0.45	-0.45	0.41	0.01	0.01
			Vy	-0.12	-0.12	-0.12		
			-0.28 Vz	-0.50	-0.50	0.46	0.01	0.01
S162	Fu.C.2	D	Vy	0.00	0.00	0.00		
			7.83 Vz	-0.43	0.43	0.43	0.01	0.01
			Vy	-0.10	-0.10	-0.10		
S163	Fu.C.1	T	-0.28 Vz	-0.48	0.48	0.48	0.01	0.01
			Vy	0.00	0.00	0.00		
			4.83 Vz	-0.41	0.45	0.45	0.00	0.00
S164	Fu.C.2	D	Vy	-0.13	-0.14	-0.14		
			-0.38 Vz	-0.46	0.51	0.51	0.00	0.00
			Vy	0.00	0.00	0.00		
S165	Fu.C.1	T	0.00 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.07	-0.07	-0.07		
			0.00 Vz	-0.38	0.58	0.58	0.00	0.00
S166	Fu.C.2	D	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.45	-0.45	0.40	0.00	0.00
			Vy	-0.11	-0.11	-0.11		
S167	Fu.C.1	T	0.00 Vz	-0.51	-0.51	0.46	0.00	0.00
			Vy	0.00	0.00	0.00		
			-2.36 Vz	-0.43	0.43	0.43	0.00	0.00
S168	Fu.C.2	D	Vy	-0.10	-0.10	-0.10		
			0.15 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S169	Fu.C.1	T	-2.36 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.14	-0.14	-0.14		
			0.15 Vz	-0.46	0.50	0.50	0.00	0.00
S170	Fu.C.2	D	Vy	0.00	0.00	0.00		
			0.00 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.06	-0.07	-0.07		
S171	Fu.C.1	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
			-6.81 Vz	-0.45	-0.45	0.41	-0.01	-0.01
S172	Fu.C.2	D	Vy	-0.11	-0.11	-0.11		
			-0.28 Vz	-0.50	-0.50	0.46	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S173	Fu.C.1	D	-6.81 Vz	-0.43	0.43	0.43	-0.01	-0.01
			Vy	-0.09	-0.09	-0.09		
			-0.28 Vz	-0.48	0.48	0.48	-0.01	-0.01
S174	Fu.C.2	D	Vy	0.00	0.00	0.00		

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S168	Fu.C.1	T	3.08 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.12	-0.12	-0.12		
	Fu.C.2	D	-0.38 Vz	-0.46	0.51	0.51	0.00	0.00
			Vy	0.00	0.00	0.00		
S169	Fu.C.1	D	-1.75 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.18	-0.19	-0.19		
	Fu.C.2	D	-0.48 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S170	Fu.C.1	D	-1.75 Vz	-0.45	-0.45	0.41	0.00	0.00
			Vy	-0.11	-0.11	-0.11		
	Fu.C.2	D	-0.48 Vz	-0.51	-0.51	0.46	0.00	0.00
			Vy	0.00	0.00	0.00		
S171	Fu.C.1	D	-1.75 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	-0.09	-0.09	-0.09		
	Fu.C.2	D	-0.48 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S172	Fu.C.1	D	-1.75 Vz	-0.41	0.44	0.44	0.00	0.00
			Vy	-0.09	-0.09	-0.09		
	Fu.C.2	D	-0.48 Vz	-0.46	0.50	0.50	0.00	0.00
			Vy	0.00	0.00	0.00		
S173	Fu.C.1	T	0.01 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.23	-0.23	-0.23		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S174	Fu.C.1	T	6.48 Vz	-0.45	-0.45	0.41	0.01	0.01
			Vy	-0.11	-0.11	-0.11		
	Fu.C.2	D	-0.31 Vz	-0.50	-0.50	0.46	0.01	0.01
			Vy	0.00	0.00	0.00		
S175	Fu.C.1	T	6.48 Vz	-0.43	0.43	0.43	0.01	0.01
			Vy	-0.09	-0.09	-0.09		
	Fu.C.2	D	-0.31 Vz	-0.48	0.48	0.48	0.01	0.01
			Vy	0.00	0.00	0.00		
S176	Fu.C.1	T	0.14 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.10	-0.10	-0.10		
	Fu.C.2	D	-0.39 Vz	-0.46	0.51	0.51	0.00	0.00
			Vy	0.00	0.00	0.00		
S177	Fu.C.1	D	-0.01 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.07	-0.07	-0.07		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S178	Fu.C.1	D	-0.01 Vz	-0.45	-0.45	0.40	0.00	0.00
			Vy	-0.10	-0.10	-0.10		
	Fu.C.2	T	0.00 Vz	-0.51	-0.51	0.45	0.00	0.00
			Vy	0.00	0.00	0.00		
S179	Fu.C.1	T	0.29 Vz	-0.43	0.43	0.43	0.00	0.00
			Vy	-0.09	-0.10	-0.10		
	Fu.C.2	T	0.21 Vz	-0.48	0.48	0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S180	Fu.C.1	T	0.29 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.10	-0.11	-0.11		
	Fu.C.2	T	0.21 Vz	-0.46	0.50	0.50	0.00	0.00
			Vy	0.00	0.00	0.00		
S181	Fu.C.1	T	0.01 Vz	-0.34	0.52	0.52	0.00	0.00
			Vy	-0.23	-0.23	-0.23		
	Fu.C.2	T	0.00 Vz	-0.38	0.58	0.58	0.00	0.00
			Vy	0.00	0.00	0.00		
S182	Fu.C.1	D	-4.06 Vz	-0.45	-0.45	0.41	-0.01	-0.01
			Vy	-0.10	-0.11	-0.11		
	Fu.C.2	D	-0.20 Vz	-0.50	-0.50	0.46	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S183	Fu.C.1	D	-4.06 Vz	-0.43	0.43	0.43	-0.01	-0.01
			Vy	-0.08	-0.09	-0.09		
	Fu.C.2	D	-0.20 Vz	-0.48	0.48	0.48	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S184	Fu.C.1	T	3.27 Vz	-0.41	0.45	0.45	0.00	0.00
			Vy	-0.09	-0.09	-0.09		
	Fu.C.2	D	-0.20 Vz	-0.46	0.50	0.50	-0.01	-0.01

Fundamenteel Belastingscombinaties



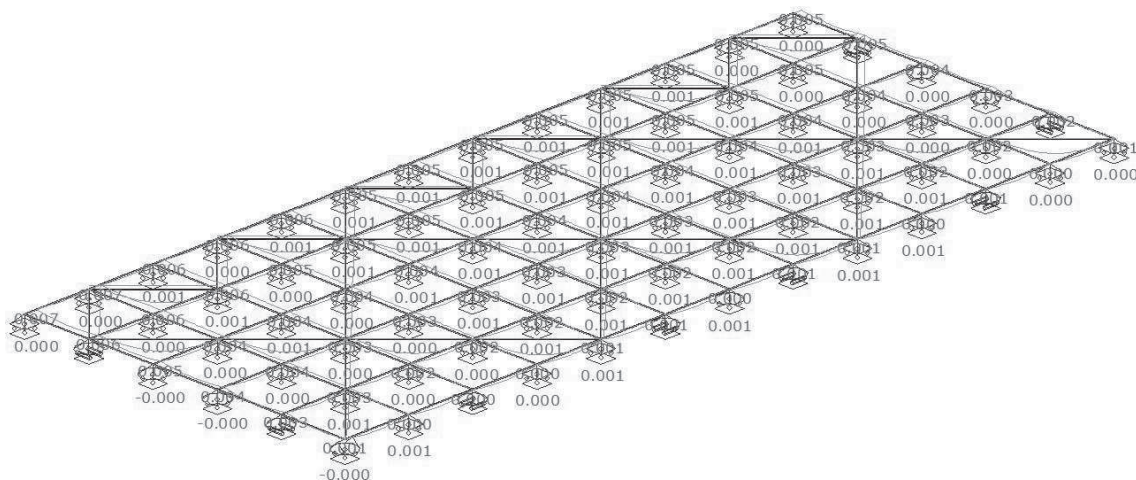
B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Fu.C.1	O1	K1	0.00	0.00	-1.46	0.00	0.00	0.00
Fu.C.1	O2	K2	0.00	0.00	-1.19	0.00	0.00	-0.67
Fu.C.1	O3	K3	-84.05	0.00	-1.19	0.00	0.00	0.00
Fu.C.1	O4	K4	0.00	0.00	-1.19	0.00	0.00	-0.63
Fu.C.1	O5	K5	0.00	0.00	-2.41	0.00	0.00	-0.51
Fu.C.1	O6	K6	-70.67	0.00	-1.19	0.00	0.00	0.00
Fu.C.1	O7	K7	0.00	0.00	-1.19	0.00	0.00	0.00
Fu.C.1	O8	K8	-74.88	0.00	-1.19	0.00	0.00	0.00
Fu.C.1	O9	K9	0.00	0.00	-2.41	0.00	0.00	-0.46
Fu.C.1	O10	K10	0.00	0.00	-1.19	0.00	0.00	-0.57
Fu.C.1	O11	K11	-90.81	0.00	-1.19	0.00	0.00	0.00
Fu.C.1	O12	K12	0.00	0.00	-1.19	0.00	0.00	-0.57
Fu.C.1	O13	K13	0.00	0.00	-1.46	0.00	0.00	0.00
Fu.C.1	O14	K14	0.00	38.71	-1.28	0.00	0.00	0.00
Fu.C.1	O15	K15	0.00	0.00	-3.03	0.00	0.00	-0.97
Fu.C.1	O16	K16	0.00	0.00	-1.82	0.00	0.00	-0.67
Fu.C.1	O17	K17	0.00	0.00	-3.03	0.00	0.00	-0.93
Fu.C.1	O18	K18	0.00	0.00	-1.82	0.00	0.00	-0.81
Fu.C.1	O19	K19	0.00	0.00	-3.03	0.00	0.00	-0.63
Fu.C.1	O20	K20	0.00	0.00	-1.82	0.00	0.00	-0.60
Fu.C.1	O21	K21	0.00	0.00	-3.03	0.00	0.00	-0.61
Fu.C.1	O22	K22	0.00	0.00	-1.82	0.00	0.00	-0.74
Fu.C.1	O23	K23	0.00	0.00	-3.03	0.00	0.00	-0.84
Fu.C.1	O24	K24	0.00	0.00	-1.82	0.00	0.00	-0.60
Fu.C.1	O25	K25	0.00	0.00	-3.03	0.00	0.00	-0.83
Fu.C.1	O26	K26	0.00	-46.71	-1.28	0.00	0.00	0.00
Fu.C.1	O27	K27	0.00	0.00	-1.28	0.00	0.00	0.00
Fu.C.1	O28	K28	0.00	0.00	-1.69	0.00	0.00	-0.57
Fu.C.1	O29	K29	0.00	0.00	-4.11	0.00	0.00	-0.56
Fu.C.1	O30	K30	0.00	0.00	-1.69	0.00	0.00	-0.55
Fu.C.1	O31	K31	0.00	0.00	-1.69	0.00	0.00	-0.55
Fu.C.1	O32	K32	0.00	0.00	-1.69	0.00	0.00	-0.55
Fu.C.1	O33	K33	0.00	0.00	-4.11	0.00	0.00	-0.53
Fu.C.1	O34	K34	0.00	0.00	-1.69	0.00	0.00	-0.51

Dakverbanden, wind loodrecht op cijferas	Novares Constructeurs							
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Fu.C.1	O35	K35	0.00	0.00	-1.69	0.00	0.00	-0.51
Fu.C.1	O36	K36	0.00	0.00	-1.69	0.00	0.00	-0.50
Fu.C.1	O37	K37	0.00	0.00	-4.11	0.00	0.00	-0.49
Fu.C.1	O38	K38	0.00	0.00	-1.69	0.00	0.00	-0.48
Fu.C.1	O39	K39	0.00	0.00	-1.28	0.00	0.00	0.00
Fu.C.1	O40	K40	0.00	0.00	-1.28	0.00	0.00	0.00
Fu.C.1	O41	K41	0.00	0.00	-2.90	0.00	0.00	-0.69
Fu.C.1	O42	K42	0.00	0.00	-1.69	0.00	0.00	-0.73
Fu.C.1	O43	K43	0.00	0.00	-2.90	0.00	0.00	-0.65
Fu.C.1	O44	K44	0.00	0.00	-1.70	0.00	0.00	-0.57
Fu.C.1	O45	K45	0.00	0.00	-2.90	0.00	0.00	-0.59
Fu.C.1	O46	K46	0.00	0.00	-1.69	0.00	0.00	-0.61
Fu.C.1	O47	K47	0.00	0.00	-2.90	0.00	0.00	-0.53
Fu.C.1	O48	K48	0.00	0.00	-1.70	0.00	0.00	-0.45
Fu.C.1	O49	K49	0.00	0.00	-2.90	0.00	0.00	-0.48
Fu.C.1	O50	K50	0.00	0.00	-1.69	0.00	0.00	-0.50
Fu.C.1	O51	K51	0.00	0.00	-2.90	0.00	0.00	-0.44
Fu.C.1	O52	K52	0.00	0.00	-1.28	0.00	0.00	0.00
Fu.C.1	O53	K53	0.00	57.25	-2.49	0.00	0.00	0.00
Fu.C.1	O54	K54	0.00	0.00	-1.82	0.00	0.00	-0.68
Fu.C.1	O55	K55	0.00	0.00	-3.03	0.00	0.00	-0.60
Fu.C.1	O56	K56	0.00	0.00	-1.82	0.00	0.00	-0.54
Fu.C.1	O57	K57	0.00	0.00	-4.24	0.00	0.00	-0.48
Fu.C.1	O58	K58	0.00	0.00	-1.82	0.00	0.00	-0.43
Fu.C.1	O59	K59	0.00	0.00	-3.03	0.00	0.00	-0.40
Fu.C.1	O60	K60	0.00	0.00	-1.82	0.00	0.00	-0.36
Fu.C.1	O61	K61	0.00	0.00	-4.24	0.00	0.00	-0.32
Fu.C.1	O62	K62	0.00	0.00	-1.82	0.00	0.00	-0.29
Fu.C.1	O63	K63	0.00	0.00	-3.03	0.00	0.00	-0.26
Fu.C.1	O64	K64	0.00	0.00	-1.82	0.00	0.00	-0.23
Fu.C.1	O65	K65	0.00	-49.24	-2.49	0.00	0.00	0.00
Fu.C.1	O66	K66	0.00	0.00	-1.49	0.00	0.00	0.00
Fu.C.1	O67	K67	0.00	0.00	-3.69	0.00	0.00	-0.26
Fu.C.1	O68	K68	0.00	0.00	-2.47	0.00	0.00	-0.15
Fu.C.1	O69	K69	0.00	0.00	-3.69	0.00	0.00	-0.14
Fu.C.1	O70	K70	0.00	0.00	-2.47	0.00	0.00	-0.17
Fu.C.1	O71	K71	0.00	0.00	-3.69	0.00	0.00	-0.10
Fu.C.1	O72	K72	0.00	0.00	-2.47	0.00	0.00	-0.05
Fu.C.1	O73	K73	0.00	0.00	-3.69	0.00	0.00	-0.06
Fu.C.1	O74	K74	0.00	0.00	-2.47	0.00	0.00	-0.10
Fu.C.1	O75	K75	0.00	0.00	-3.69	0.00	0.00	-0.04
Fu.C.1	O76	K76	0.00	0.00	-2.47	0.00	0.00	0.00
Fu.C.1	O77	K77	0.00	0.00	-3.69	0.00	0.00	-0.01
Fu.C.1	O78	K78	0.00	0.00	-1.49	0.00	0.00	0.00
Som Reacties			-320.40	0.00	-176.16			
Som Lasten			320.40	0.00	176.16			
Fu.C.2	O1	K1	0.00	0.00	-1.64	0.00	0.00	0.00
Fu.C.2	O2	K2	0.00	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O3	K3	-0.57	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O4	K4	0.00	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O5	K5	0.00	0.00	-2.70	0.00	0.00	0.00
Fu.C.2	O6	K6	-0.05	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O7	K7	0.00	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O8	K8	0.05	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O9	K9	0.00	0.00	-2.70	0.00	0.00	0.00
Fu.C.2	O10	K10	0.00	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O11	K11	0.57	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O12	K12	0.00	0.00	-1.34	0.00	0.00	0.00
Fu.C.2	O13	K13	0.00	0.00	-1.64	0.00	0.00	0.00
Fu.C.2	O14	K14	0.00	0.54	-1.44	0.00	0.00	0.00
Fu.C.2	O15	K15	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O16	K16	0.00	0.00	-2.05	0.00	0.00	0.00
Fu.C.2	O17	K17	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O18	K18	0.00	0.00	-2.05	0.00	0.00	0.00
Fu.C.2	O19	K19	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O20	K20	0.00	0.00	-2.05	0.00	0.00	0.00
Fu.C.2	O21	K21	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O22	K22	0.00	0.00	-2.05	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Fu.C.2	O23	K23	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O24	K24	0.00	0.00	-2.05	0.00	0.00	0.00
Fu.C.2	O25	K25	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O26	K26	0.00	0.54	-1.44	0.00	0.00	0.00
Fu.C.2	O27	K27	0.00	0.00	-1.44	0.00	0.00	0.00
Fu.C.2	O28	K28	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O29	K29	0.00	0.00	-4.62	0.00	0.00	0.00
Fu.C.2	O30	K30	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O31	K31	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O32	K32	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O33	K33	0.00	0.00	-4.62	0.00	0.00	0.00
Fu.C.2	O34	K34	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O35	K35	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O36	K36	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O37	K37	0.00	0.00	-4.62	0.00	0.00	0.00
Fu.C.2	O38	K38	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O39	K39	0.00	0.00	-1.44	0.00	0.00	0.00
Fu.C.2	O40	K40	0.00	0.00	-1.44	0.00	0.00	0.00
Fu.C.2	O41	K41	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O42	K42	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O43	K43	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O44	K44	0.00	0.00	-1.91	0.00	0.00	0.00
Fu.C.2	O45	K45	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O46	K46	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O47	K47	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O48	K48	0.00	0.00	-1.91	0.00	0.00	0.00
Fu.C.2	O49	K49	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O50	K50	0.00	0.00	-1.90	0.00	0.00	0.00
Fu.C.2	O51	K51	0.00	0.00	-3.26	0.00	0.00	0.00
Fu.C.2	O52	K52	0.00	0.00	-1.44	0.00	0.00	0.00
Fu.C.2	O53	K53	0.00	-0.54	-2.80	0.00	0.00	0.00
Fu.C.2	O54	K54	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O55	K55	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O56	K56	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O57	K57	0.00	0.00	-4.77	0.00	0.00	0.00
Fu.C.2	O58	K58	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O59	K59	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O60	K60	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O61	K61	0.00	0.00	-4.77	0.00	0.00	0.00
Fu.C.2	O62	K62	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O63	K63	0.00	0.00	-3.41	0.00	0.00	0.00
Fu.C.2	O64	K64	0.00	0.00	-2.04	0.00	0.00	0.00
Fu.C.2	O65	K65	0.00	-0.54	-2.80	0.00	0.00	0.00
Fu.C.2	O66	K66	0.00	0.00	-1.68	0.00	0.00	0.00
Fu.C.2	O67	K67	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O68	K68	0.00	0.00	-2.77	0.00	0.00	0.00
Fu.C.2	O69	K69	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O70	K70	0.00	0.00	-2.77	0.00	0.00	0.00
Fu.C.2	O71	K71	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O72	K72	0.00	0.00	-2.77	0.00	0.00	0.00
Fu.C.2	O73	K73	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O74	K74	0.00	0.00	-2.77	0.00	0.00	0.00
Fu.C.2	O75	K75	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O76	K76	0.00	0.00	-2.77	0.00	0.00	0.00
Fu.C.2	O77	K77	0.00	0.00	-4.14	0.00	0.00	0.00
Fu.C.2	O78	K78	0.00	0.00	-1.68	0.00	0.00	0.00
Som Reacties			0.00	0.00	-197.93			
Som Lasten			0.00	0.00	197.93			
-	-	-	kN	kN	kN	kNm	kNm	kNm



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K1	Ka.C.(w1)	0.0000	0.0000	0.0000	0.480e-03	-0.000e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.480e-03	-0.000e-03	0.000e-03
	Ka.C.2	0.0008	-0.0003	0.0000	0.480e-03	-0.000e-03	0.000e-03
K2	Ka.C.(w1)	0.0000	0.0000	0.0000	0.501e-03	0.549e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.501e-03	0.549e-03	-0.000e-03
	Ka.C.2	0.0004	0.0005	0.0000	0.501e-03	0.549e-03	-0.000e-03
K3	Ka.C.(w1)	0.0000	0.0000	0.0000	0.506e-03	0.571e-03	-0.001e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.506e-03	0.571e-03	-0.001e-03
	Ka.C.2	0.0000	0.0005	0.0000	0.506e-03	0.570e-03	-0.750e-03
K4	Ka.C.(w1)	0.0000	0.0000	0.0000	0.503e-03	0.582e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.503e-03	0.582e-03	-0.000e-03
	Ka.C.2	0.0003	0.0003	0.0000	0.503e-03	0.580e-03	-0.000e-03
K5	Ka.C.(w1)	0.0000	0.0000	0.0000	0.496e-03	1.085e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.496e-03	1.085e-03	-0.000e-03
	Ka.C.2	0.0006	0.0008	0.0000	0.495e-03	1.083e-03	-0.000e-03
K6	Ka.C.(w1)	0.0000	0.0000	0.0000	0.503e-03	1.588e-03	-0.001e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.503e-03	1.588e-03	-0.001e-03
	Ka.C.2	0.0000	0.0011	0.0000	0.503e-03	1.585e-03	-0.659e-03
K7	Ka.C.(w1)	0.0000	0.0000	0.0000	0.506e-03	1.601e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.506e-03	1.601e-03	-0.000e-03
	Ka.C.2	0.0000	0.0009	0.0000	0.506e-03	1.596e-03	-0.651e-03
K8	Ka.C.(w1)	0.0000	0.0000	0.0000	0.503e-03	1.613e-03	0.001e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.503e-03	1.613e-03	0.001e-03
	Ka.C.2	0.0000	0.0006	0.0000	0.503e-03	1.608e-03	-0.642e-03
K9	Ka.C.(w1)	0.0000	0.0000	0.0000	0.496e-03	2.116e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.496e-03	2.116e-03	0.000e-03
	Ka.C.2	0.0007	0.0007	0.0000	0.496e-03	2.111e-03	-0.000e-03
K10	Ka.C.(w1)	0.0000	0.0000	0.0000	0.503e-03	2.619e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.503e-03	2.619e-03	0.000e-03
	Ka.C.2	0.0003	0.0008	0.0000	0.503e-03	2.614e-03	-0.000e-03
K11	Ka.C.(w1)	0.0000	0.0000	0.0000	0.506e-03	2.630e-03	0.001e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.506e-03	2.630e-03	0.001e-03
	Ka.C.2	0.0000	0.0005	0.0000	0.506e-03	2.624e-03	-0.676e-03
K12	Ka.C.(w1)	0.0000	0.0000	0.0000	0.501e-03	2.652e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.501e-03	2.652e-03	0.000e-03

Dakverbanden, wind loodrecht op cijferas				Novares Constructeurs			
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Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K12	Ka.C.2	0.0005	0.0002	0.0000	0.501e-03	2.646e-03	-0.000e-03
K13	Ka.C.(w1)	0.0000	0.0000	0.0000	0.480e-03	3.201e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.480e-03	3.201e-03	0.000e-03
	Ka.C.2	0.0009	0.0004	0.0000	0.480e-03	3.195e-03	0.000e-03
K14	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	0.021e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	0.021e-03	0.000e-03
	Ka.C.2	0.0028	0.0000	0.0000	-0.130e-03	0.021e-03	0.000e-03
K15	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	0.549e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	0.549e-03	-0.000e-03
	Ka.C.2	0.0026	0.0005	0.0000	-0.130e-03	0.549e-03	-0.000e-03
K16	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.136e-03	0.571e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.136e-03	0.571e-03	-0.000e-03
	Ka.C.2	0.0025	0.0005	0.0000	-0.136e-03	0.570e-03	-0.000e-03
K17	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	0.582e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	0.582e-03	-0.000e-03
	Ka.C.2	0.0024	0.0003	0.0000	-0.129e-03	0.580e-03	-0.000e-03
K18	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.134e-03	1.085e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.134e-03	1.085e-03	-0.000e-03
	Ka.C.2	0.0023	0.0008	0.0000	-0.133e-03	1.082e-03	-0.000e-03
K19	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	1.588e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	1.588e-03	0.000e-03
	Ka.C.2	0.0022	0.0011	0.0000	-0.129e-03	1.585e-03	-0.000e-03
K20	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.136e-03	1.601e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.136e-03	1.601e-03	-0.000e-03
	Ka.C.2	0.0022	0.0009	0.0000	-0.136e-03	1.596e-03	-0.000e-03
K21	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	1.613e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	1.613e-03	-0.000e-03
	Ka.C.2	0.0021	0.0006	0.0000	-0.129e-03	1.608e-03	-0.000e-03
K22	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.134e-03	2.116e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.134e-03	2.116e-03	0.000e-03
	Ka.C.2	0.0022	0.0007	0.0000	-0.134e-03	2.111e-03	-0.000e-03
K23	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	2.619e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	2.619e-03	0.000e-03
	Ka.C.2	0.0022	0.0008	0.0000	-0.129e-03	2.614e-03	-0.000e-03
K24	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.136e-03	2.630e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.136e-03	2.630e-03	0.000e-03
	Ka.C.2	0.0023	0.0005	0.0000	-0.136e-03	2.624e-03	-0.000e-03
K25	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	2.652e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	2.652e-03	0.000e-03
	Ka.C.2	0.0023	0.0002	0.0000	-0.129e-03	2.646e-03	-0.000e-03
K26	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.129e-03	3.180e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.129e-03	3.180e-03	0.000e-03
	Ka.C.2	0.0024	0.0000	0.0000	-0.129e-03	3.174e-03	0.000e-03
K27	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	0.043e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	0.043e-03	0.000e-03
	Ka.C.2	0.0038	0.0000	0.0000	0.041e-03	0.043e-03	0.000e-03
K28	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	0.460e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	0.460e-03	0.000e-03
	Ka.C.2	0.0036	0.0005	0.0000	0.041e-03	0.460e-03	-0.000e-03
K29	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	0.571e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	0.571e-03	0.000e-03
	Ka.C.2	0.0034	0.0005	0.0000	0.042e-03	0.570e-03	-0.000e-03
K30	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	0.689e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	0.689e-03	-0.000e-03
	Ka.C.2	0.0033	0.0004	0.0000	0.041e-03	0.687e-03	-0.000e-03
K31	Ka.C.(w1)	0.0000	0.0000	0.0000	0.042e-03	1.085e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.042e-03	1.085e-03	-0.000e-03
	Ka.C.2	0.0033	0.0008	0.0000	0.042e-03	1.082e-03	-0.000e-03
K32	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	1.481e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	1.481e-03	0.000e-03

Dakverbanden, wind loodrecht op cijferas				Novares Constructeurs			
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Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K32	Ka.C.2	0.0032	0.0010	0.0000	0.041e-03	1.478e-03	-0.000e-03
K33	Ka.C.(w1)	0.0000	0.0000	0.0000	0.042e-03	1.601e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.042e-03	1.601e-03	-0.000e-03
	Ka.C.2	0.0031	0.0009	0.0000	0.042e-03	1.596e-03	-0.000e-03
K34	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	1.720e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	1.720e-03	-0.000e-03
	Ka.C.2	0.0031	0.0006	0.0000	0.041e-03	1.715e-03	-0.000e-03
K35	Ka.C.(w1)	0.0000	0.0000	0.0000	0.042e-03	2.117e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.042e-03	2.117e-03	0.000e-03
	Ka.C.2	0.0031	0.0007	0.0000	0.042e-03	2.111e-03	-0.000e-03
K36	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	2.512e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	2.512e-03	0.000e-03
	Ka.C.2	0.0031	0.0008	0.0000	0.041e-03	2.507e-03	-0.000e-03
K37	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	2.630e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	2.630e-03	-0.000e-03
	Ka.C.2	0.0031	0.0005	0.0000	0.041e-03	2.624e-03	-0.000e-03
K38	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	2.741e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	2.741e-03	-0.000e-03
	Ka.C.2	0.0032	0.0002	0.0000	0.041e-03	2.735e-03	-0.000e-03
K39	Ka.C.(w1)	0.0000	0.0000	0.0000	0.041e-03	3.159e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.041e-03	3.159e-03	0.000e-03
	Ka.C.2	0.0033	0.0000	0.0000	0.041e-03	3.152e-03	0.000e-03
K40	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	0.064e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	0.064e-03	0.000e-03
	Ka.C.2	0.0046	0.0000	0.0000	-0.035e-03	0.064e-03	0.000e-03
K41	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	0.371e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	0.371e-03	-0.000e-03
	Ka.C.2	0.0045	0.0004	0.0000	-0.035e-03	0.370e-03	-0.000e-03
K42	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.039e-03	0.567e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.039e-03	0.567e-03	-0.000e-03
	Ka.C.2	0.0043	0.0006	0.0000	-0.039e-03	0.566e-03	-0.000e-03
K43	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.034e-03	0.796e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.034e-03	0.796e-03	-0.000e-03
	Ka.C.2	0.0042	0.0004	0.0000	-0.035e-03	0.794e-03	-0.000e-03
K44	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	1.084e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	1.084e-03	-0.000e-03
	Ka.C.2	0.0041	0.0008	0.0000	-0.034e-03	1.082e-03	-0.000e-03
K45	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.034e-03	1.374e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.034e-03	1.374e-03	-0.000e-03
	Ka.C.2	0.0040	0.0009	0.0000	-0.034e-03	1.371e-03	-0.000e-03
K46	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.039e-03	1.601e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.039e-03	1.601e-03	0.000e-03
	Ka.C.2	0.0039	0.0009	0.0000	-0.039e-03	1.596e-03	-0.000e-03
K47	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.034e-03	1.828e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.034e-03	1.828e-03	0.000e-03
	Ka.C.2	0.0038	0.0007	0.0000	-0.035e-03	1.823e-03	-0.000e-03
K48	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	2.117e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	2.117e-03	0.000e-03
	Ka.C.2	0.0038	0.0007	0.0000	-0.035e-03	2.111e-03	-0.000e-03
K49	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.034e-03	2.406e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.034e-03	2.406e-03	0.000e-03
	Ka.C.2	0.0038	0.0007	0.0000	-0.034e-03	2.401e-03	-0.000e-03
K50	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.039e-03	2.634e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.039e-03	2.634e-03	0.000e-03
	Ka.C.2	0.0039	0.0005	0.0000	-0.039e-03	2.629e-03	-0.000e-03
K51	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	2.830e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	2.830e-03	0.000e-03
	Ka.C.2	0.0039	0.0003	0.0000	-0.036e-03	2.825e-03	-0.000e-03
K52	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.035e-03	3.137e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.035e-03	3.137e-03	0.000e-03

Dakverbanden, wind loodrecht op cijferas				Novares Constructeurs			
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Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K52	Ka.C.2	0.0040	0.0000	0.0000	-0.036e-03	3.131e-03	0.000e-03
K53	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.054e-03	0.085e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.054e-03	0.085e-03	0.000e-03
	Ka.C.2	0.0059	0.0000	0.0000	-0.054e-03	0.085e-03	0.000e-03
K54	Ka.C.(w1)	0.0000	0.0000	0.0000	0.114e-03	0.332e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.114e-03	0.332e-03	-0.000e-03
	Ka.C.2	0.0058	0.0004	0.0000	0.113e-03	0.332e-03	-0.000e-03
K55	Ka.C.(w1)	0.0000	0.0000	0.0000	0.117e-03	0.562e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.117e-03	0.562e-03	-0.000e-03
	Ka.C.2	0.0058	0.0006	0.0000	0.117e-03	0.561e-03	-0.000e-03
K56	Ka.C.(w1)	0.0000	0.0000	0.0000	0.123e-03	0.807e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.123e-03	0.807e-03	-0.000e-03
	Ka.C.2	0.0055	0.0004	0.0000	0.123e-03	0.805e-03	-0.000e-03
K57	Ka.C.(w1)	0.0000	0.0000	0.0000	0.097e-03	1.084e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.097e-03	1.084e-03	-0.000e-03
	Ka.C.2	0.0051	0.0007	0.0000	0.097e-03	1.082e-03	-0.000e-03
K58	Ka.C.(w1)	0.0000	0.0000	0.0000	0.123e-03	1.361e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.123e-03	1.361e-03	-0.000e-03
	Ka.C.2	0.0051	0.0009	0.0000	0.122e-03	1.358e-03	-0.000e-03
K59	Ka.C.(w1)	0.0000	0.0000	0.0000	0.117e-03	1.601e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.117e-03	1.601e-03	0.000e-03
	Ka.C.2	0.0050	0.0009	0.0000	0.117e-03	1.596e-03	-0.000e-03
K60	Ka.C.(w1)	0.0000	0.0000	0.0000	0.123e-03	1.840e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.123e-03	1.840e-03	0.000e-03
	Ka.C.2	0.0048	0.0007	0.0000	0.123e-03	1.835e-03	-0.000e-03
K61	Ka.C.(w1)	0.0000	0.0000	0.0000	0.097e-03	2.117e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.097e-03	2.117e-03	0.000e-03
	Ka.C.2	0.0046	0.0007	0.0000	0.096e-03	2.112e-03	-0.000e-03
K62	Ka.C.(w1)	0.0000	0.0000	0.0000	0.123e-03	2.395e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.123e-03	2.395e-03	0.000e-03
	Ka.C.2	0.0046	0.0007	0.0000	0.123e-03	2.389e-03	-0.000e-03
K63	Ka.C.(w1)	0.0000	0.0000	0.0000	0.117e-03	2.639e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.117e-03	2.639e-03	0.000e-03
	Ka.C.2	0.0047	0.0005	0.0000	0.117e-03	2.634e-03	-0.000e-03
K64	Ka.C.(w1)	0.0000	0.0000	0.0000	0.114e-03	2.869e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.114e-03	2.869e-03	0.000e-03
	Ka.C.2	0.0046	0.0002	0.0000	0.113e-03	2.864e-03	-0.000e-03
K65	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.054e-03	3.116e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.054e-03	3.116e-03	0.000e-03
	Ka.C.2	0.0045	0.0000	0.0000	-0.054e-03	3.109e-03	0.000e-03
K66	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.469e-03	0.085e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.469e-03	0.085e-03	0.000e-03
	Ka.C.2	0.0072	0.0000	0.0000	-0.467e-03	0.085e-03	0.000e-03
K67	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.469e-03	0.293e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.469e-03	0.293e-03	0.000e-03
	Ka.C.2	0.0067	0.0004	0.0000	-0.467e-03	0.293e-03	-0.000e-03
K68	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.498e-03	0.562e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.498e-03	0.562e-03	0.000e-03
	Ka.C.2	0.0063	0.0006	0.0000	-0.497e-03	0.561e-03	-0.000e-03
K69	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.468e-03	0.818e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.468e-03	0.818e-03	0.000e-03
	Ka.C.2	0.0059	0.0004	0.0000	-0.466e-03	0.816e-03	-0.000e-03
K70	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.487e-03	1.084e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.487e-03	1.084e-03	-0.000e-03
	Ka.C.2	0.0057	0.0007	0.0000	-0.487e-03	1.082e-03	-0.000e-03
K71	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.468e-03	1.349e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.468e-03	1.349e-03	0.000e-03
	Ka.C.2	0.0054	0.0009	0.0000	-0.465e-03	1.346e-03	-0.000e-03
K72	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.498e-03	1.601e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.498e-03	1.601e-03	0.000e-03

Dakverbanden, wind loodrecht op cijferas	Novares Constructeurs						
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Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K72	Ka.C.2	0.0052	0.0009	0.0000	-0.498e-03	1.596e-03	-0.000e-03
K73	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.468e-03	1.852e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.468e-03	1.852e-03	-0.000e-03
	Ka.C.2	0.0050	0.0006	0.0000	-0.466e-03	1.847e-03	-0.000e-03
K74	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.487e-03	2.117e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.487e-03	2.117e-03	0.000e-03
	Ka.C.2	0.0049	0.0007	0.0000	-0.487e-03	2.112e-03	-0.000e-03
K75	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.468e-03	2.383e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.468e-03	2.383e-03	-0.000e-03
	Ka.C.2	0.0048	0.0007	0.0000	-0.468e-03	2.378e-03	-0.000e-03
K76	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.498e-03	2.639e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.498e-03	2.639e-03	-0.000e-03
	Ka.C.2	0.0047	0.0005	0.0000	-0.498e-03	2.634e-03	0.000e-03
K77	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.469e-03	2.908e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.469e-03	2.908e-03	-0.000e-03
	Ka.C.2	0.0046	0.0002	0.0000	-0.467e-03	2.902e-03	-0.000e-03
K78	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.469e-03	3.116e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.469e-03	3.116e-03	0.000e-03
	Ka.C.2	0.0047	0.0000	0.0000	-0.467e-03	3.109e-03	0.000e-03
-	-	m	m	m	rad	rad	rad

KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin				Staaf				Knoop Eind		
		X	Y	Z	Z'afst	Z'	Y'afst	Y'	X	Y	Z	
S1	Ka.C.2	0,001	0,000	0,000	2.500	0.0015	0.000	0.0000	0,000	0,001	0,000	
S2	Ka.C.2	0,000	0,001	0,000	2.500	0.0015	0.000	0.0000	0,000	0,000	0,000	
S3	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S3	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S4	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S4	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S5	Ka.C.2	0,001	0,001	0,000	2.500	0.0016	0.000	0.0000	0,000	0,001	0,000	
S6	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S6	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S7	Ka.C.2	0,000	0,001	0,000	2.500	0.0014	0.000	0.0000	0,000	0,001	0,000	
S8	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S8	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S9	Ka.C.2	0,001	0,001	0,000	2.500	0.0015	0.000	0.0000	0,000	0,001	0,000	
S10	Ka.C.2	0,000	0,001	0,000	2.500	0.0015	0.000	0.0000	0,000	0,001	0,000	
S11	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S11	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S12	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S12	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S13	Ka.C.2	0,003	0,000	0,000	2.500	0.0014	0.000	0.0000	0,003	0,001	0,000	
S14	Ka.C.2	0,003	0,001	0,000	2.500	0.0014	0.000	0.0000	0,002	0,000	0,000	
S15	Ka.C.2	0,002	0,000	0,000	2.500	0.0014	0.000	0.0000	0,002	0,000	0,000	
S16	Ka.C.2	0,002	0,000	0,000	2.500	0.0014	0.000	0.0000	0,002	0,001	0,000	
S17	Ka.C.2	0,002	0,001	0,000	2.500	0.0014	0.000	0.0000	0,002	0,001	0,000	
S18	Ka.C.2	0,002	0,001	0,000	2.500	0.0014	0.000	0.0000	0,002	0,001	0,000	
S19	Ka.C.2	0,002	0,001	0,000	2.500	0.0014	0.000	0.0000	0,002	0,001	0,000	
S20	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S20	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S21	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S21	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S22	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S22	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S23	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S23	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S24	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S24	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000	
S25	Ka.C.2	0,004	0,000	0,000	2.500	0.0014	0.000	0.0000	0,004	0,000	0,000	
S26	Ka.C.2	0,004	0,000	0,000	2.500	0.0014	0.000	0.0000	0,003	0,000	0,000	
S27	Ka.C.2	0,003	0,000	0,000	2.500	0.0014	0.000	0.0000	0,003	0,000	0,000	
S28	Ka.C.2	0,003	0,000	0,000	2.500	0.0014	0.000	0.0000	0,003	0,001	0,000	

Staaf	B.C.	Knoop Begin				Staaf			Knoop Eind		
		X	Y	Z	Z'afst	Z'	Y'afst	Y'	X	Y	Z
S29	Ka.C.2	0,003	0,001	0,000	2.500	0.0014	0.000	0.0000	0,003	0,001	0,000
S30	Ka.C.2	0,003	0,001	0,000	2.500	0.0014	0.000	0.0000	0,003	0,001	0,000
S31	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S31	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S32	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S32	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S33	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S33	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S34	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S34	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S35	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S35	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S36	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S36	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S37	Ka.C.2	0,005	0,000	0,000	2.500	0.0014	0.000	0.0000	0,004	0,000	0,000
S38	Ka.C.2	0,004	0,000	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S39	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,000	0,000
S40	Ka.C.2	0,004	0,000	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S41	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S42	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S43	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S44	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S45	Ka.C.2	0,004	0,001	0,000	2.500	0.0014	0.000	0.0000	0,004	0,001	0,000
S46	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S46	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S47	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S47	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S48	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S48	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S49	Ka.C.2	0,006	0,000	0,000	2.500	0.0014	0.000	0.0000	0,006	0,000	0,000
S50	Ka.C.2	0,006	0,000	0,000	2.500	0.0014	0.000	0.0000	0,006	0,001	0,000
S51	Ka.C.2	0,006	0,001	0,000	2.500	0.0015	0.000	0.0000	0,005	0,000	0,000
S52	Ka.C.2	0,005	0,000	0,000	2.500	0.0015	0.000	0.0000	0,005	0,001	0,000
S53	Ka.C.2	0,005	0,001	0,000	2.500	0.0014	0.000	0.0000	0,005	0,001	0,000
S54	Ka.C.2	0,005	0,001	0,000	2.500	0.0014	0.000	0.0000	0,005	0,001	0,000
S55	Ka.C.2	0,005	0,001	0,000	2.500	0.0014	0.000	0.0000	0,005	0,001	0,000
S56	Ka.C.2	0,005	0,001	0,000	2.500	0.0014	0.000	0.0000	0,005	0,001	0,000
S57	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S57	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S58	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S58	Ka.C.1	0,000	0,000	0,000	2.500	0.0014	0.000	0.0000	0,000	0,000	0,000
S59	Ka.C.2	0,005	0,001	0,000	2.500	0.0014	0.000	0.0000	0,005	0,000	0,000
S60	Ka.C.2	0,005	0,000	0,000	2.500	0.0014	0.000	0.0000	0,005	0,000	0,000
S61	Ka.C.2	0,007	0,000	0,000	2.500	0.0006	0.000	0.0000	0,007	0,000	0,000
S62	Ka.C.2	0,007	0,000	0,000	2.500	0.0006	0.000	0.0000	0,006	0,001	0,000
S63	Ka.C.2	0,006	0,001	0,000	2.500	0.0006	0.000	0.0000	0,006	0,000	0,000
S64	Ka.C.2	0,006	0,000	0,000	2.500	0.0006	0.000	0.0000	0,006	0,001	0,000
S65	Ka.C.2	0,006	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S66	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S67	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S68	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S69	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S70	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,001	0,000
S71	Ka.C.2	0,005	0,001	0,000	2.500	0.0006	0.000	0.0000	0,005	0,000	0,000
S72	Ka.C.(w1)	0,000	0,000	0,000	2.500	0.0005	0.000	0.0000	0,000	0,000	0,000
S72	Ka.C.1	0,000	0,000	0,000	2.500	0.0005	0.000	0.0000	0,000	0,000	0,000
S73	Ka.C.2	0,001	0,000	0,000	2.500	-0.0015	0.000	0.0000	0,003	0,000	0,000
S74	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S74	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S75	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S75	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S76	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S76	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S77	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000

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Staaf	B.C.	Knoop Begin				Staaf				Knoop Eind		
		X	Y	Z	Z'afst	Z'	Y'afst	Y'		X	Y	Z
S77	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0,000	0.0000		0,000	0,000	0,000
S79	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S79	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S79	Ka.C.2	0,006	0,000	0,000	3,000	-0.0006	1,000	0.0001		0,007	0,000	0,000
S81	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S81	Ka.C.1	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S81	Ka.C.2	0,006	0,001	0,000	3,000	-0.0007	1,000	0.0000		0,006	0,001	0,000
S83	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S83	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S83	Ka.C.2	0,005	0,000	0,000	3,000	-0.0006	1,000	0.0000		0,006	0,000	0,000
S85	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S85	Ka.C.1	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S85	Ka.C.2	0,005	0,001	0,000	3,000	-0.0007	4,000	-0.0001		0,006	0,001	0,000
S87	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S87	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S87	Ka.C.2	0,005	0,001	0,000	3,000	-0.0006	1,000	0.0000		0,005	0,001	0,000
S89	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S89	Ka.C.1	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S89	Ka.C.2	0,005	0,001	0,000	3,000	-0.0007	1,000	0.0000		0,005	0,001	0,000
S91	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S91	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S91	Ka.C.2	0,005	0,001	0,000	3,000	-0.0006	1,000	0.0000		0,005	0,001	0,000
S93	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S93	Ka.C.1	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S93	Ka.C.2	0,005	0,001	0,000	3,000	-0.0007	1,000	0.0000		0,005	0,001	0,000
S95	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S95	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S95	Ka.C.2	0,005	0,001	0,000	3,000	-0.0006	1,000	0.0000		0,005	0,001	0,000
S97	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S97	Ka.C.1	0,000	0,000	0,000	3,000	-0.0007	0,000	0.0000		0,000	0,000	0,000
S99	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S99	Ka.C.1	0,000	0,000	0,000	3,000	-0.0006	0,000	0.0000		0,000	0,000	0,000
S100	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0,000	0.0000		0,000	0,000	0,000
S100	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0,000	0.0000		0,000	0,000	0,000
S101	Ka.C.2	0,005	0,000	0,000	2.500	-0.0014	0,000	0.0000		0,005	0,000	0,000
S102	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S102	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S103	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S103	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S104	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S104	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S105	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S105	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S106	Ka.C.2	0,001	0,001	0,000	3.536	-0.0076	0,000	0.0000		0,002	0,000	0,000
S107	Ka.C.2	0,002	0,000	0,000	3.536	-0.0074	0,000	0.0000		0,003	0,000	0,000
S108	Ka.C.2	0,003	0,000	0,000	3.536	-0.0069	0,000	0.0000		0,004	0,000	0,000
S109	Ka.C.2	0,004	0,000	0,000	3.536	-0.0069	0,000	0.0000		0,006	0,000	0,000
S110	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S110	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S111	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S111	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S112	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S112	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S113	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S113	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S114	Ka.C.2	0,001	0,001	0,000	3.536	-0.0078	0,000	0.0000		0,002	0,001	0,000
S115	Ka.C.2	0,002	0,001	0,000	3.536	-0.0074	0,000	0.0000		0,003	0,001	0,000
S116	Ka.C.2	0,003	0,001	0,000	3.536	-0.0070	0,000	0.0000		0,004	0,001	0,000
S117	Ka.C.2	0,004	0,001	0,000	3.536	-0.0068	0,000	0.0000		0,005	0,001	0,000
S118	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S118	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S119	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S119	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000
S120	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0,000	0.0000		0,000	0,000	0,000

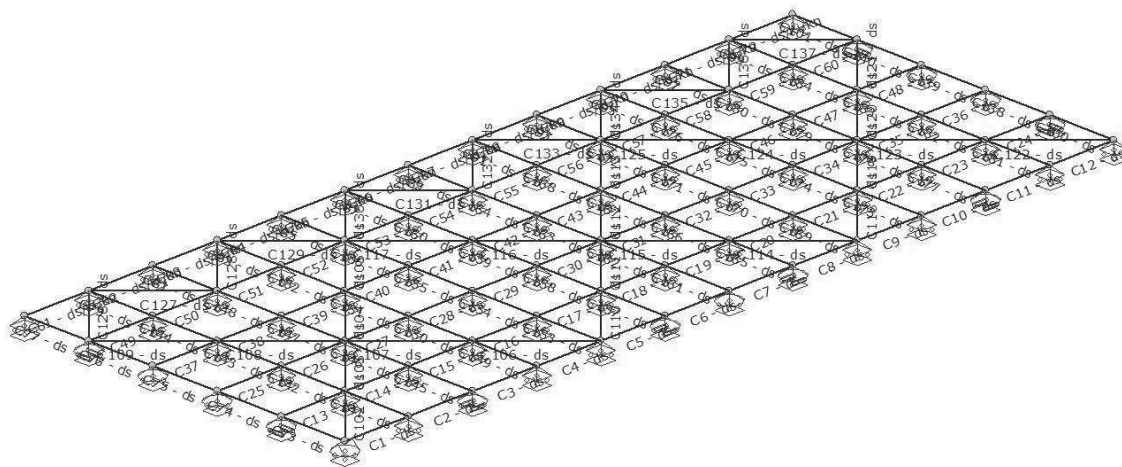
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Staaf	B.C.	Knoop Begin				Staaf			Knoop Eind		
		X	Y	Z	Z'afst	Z'	Y'afst	Y'	X	Y	Z
S120	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S121	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S121	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S122	Ka.C.2	0,001	0,000	0,000	3.536	-0.0073	0.000	0.0000	0,002	0,000	0,000
S123	Ka.C.2	0,002	0,000	0,000	3.536	-0.0071	0.000	0.0000	0,003	0,001	0,000
S124	Ka.C.2	0,003	0,001	0,000	3.536	-0.0068	0.000	0.0000	0,004	0,001	0,000
S125	Ka.C.2	0,004	0,001	0,000	3.536	-0.0066	0.000	0.0000	0,005	0,001	0,000
S126	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S126	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S127	Ka.C.2	0,007	0,000	0,000	3.536	0.0063	0.000	0.0000	0,006	0,001	0,000
S128	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S128	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S129	Ka.C.2	0,006	0,000	0,000	3.536	0.0061	0.000	0.0000	0,005	0,001	0,000
S130	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S130	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S131	Ka.C.2	0,005	0,001	0,000	3.536	0.0059	0.000	0.0000	0,005	0,001	0,000
S132	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S132	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S133	Ka.C.2	0,005	0,001	0,000	3.536	0.0059	0.000	0.0000	0,005	0,001	0,000
S134	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S134	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S135	Ka.C.2	0,005	0,001	0,000	3.536	0.0058	0.000	0.0000	0,005	0,001	0,000
S136	Ka.C.(w1)	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S136	Ka.C.1	0,000	0,000	0,000	3.536	0.0055	0.000	0.0000	0,000	0,000	0,000
S137	Ka.C.2	0,005	0,000	0,000	3.536	0.0059	0.000	0.0000	0,005	0,000	0,000
S138	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S138	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S139	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S139	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S140	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S140	Ka.C.1	0,000	0,000	0,000	2.500	-0.0014	0.000	0.0000	0,000	0,000	0,000
S141	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	1.000	0.0002	0,003	0,001	0,000
S142	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S142	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S142	Ka.C.2	0,003	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,004	0,000	0,000
S143	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S143	Ka.C.1	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S143	Ka.C.2	0,004	0,000	0,000	2.500	-0.0003	1.000	0.0001	0,004	0,000	0,000
S144	Ka.C.2	0,004	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,006	0,000	0,000
S145	Ka.C.2	0,000	0,000	0,000	2.000	-0.0007	3.000	-0.0005	0,002	0,000	0,000
S146	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S146	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S146	Ka.C.2	0,002	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,000	0,000
S147	Ka.C.2	0,003	0,000	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,001	0,000
S148	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,006	0,001	0,000
S149	Ka.C.(w1)	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S149	Ka.C.1	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S149	Ka.C.2	0,000	0,000	0,000	2.000	-0.0007	4.000	-0.0002	0,002	0,000	0,000
S150	Ka.C.2	0,002	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,000	0,000
S151	Ka.C.2	0,003	0,000	0,000	2.500	-0.0003	1.000	0.0001	0,004	0,000	0,000
S152	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S152	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S152	Ka.C.2	0,004	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,000	0,000
S153	Ka.C.(w1)	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S153	Ka.C.1	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S153	Ka.C.2	0,001	0,001	0,000	2.000	-0.0007	4.000	-0.0002	0,002	0,001	0,000
S154	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,003	0,001	0,000
S155	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S155	Ka.C.1	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S155	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	1.000	0.0001	0,004	0,001	0,000
S156	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S156	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S156	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,001	0,000
S157	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	3.000	-0.0004	0,002	0,001	0,000

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Staaf	B.C.	Knoop Begin		Z	Z'afst	Staaf		Y'	Knoop Eind		
		X	Y			Z'	Y'afst		X	Y	Z
S158	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S158	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S158	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,003	0,001	0,000
S159	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S159	Ka.C.1	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S159	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,001	0,000
S160	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,001	0,000
S161	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	3.000	-0.0004	0,002	0,001	0,000
S162	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S162	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S162	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,001	0,000
S163	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	1.000	0.0001	0,004	0,001	0,000
S164	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,005	0,001	0,000
S165	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	3.000	-0.0004	0,002	0,001	0,000
S166	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,001	0,000
S167	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,001	0,000
S168	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S168	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S168	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,001	0,000
S169	Ka.C.2	0,001	0,001	0,000	2.000	-0.0007	1.000	0.0001	0,002	0,001	0,000
S170	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S170	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S170	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,001	0,000
S171	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,001	0,000
S172	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,001	0,000
S173	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	4.000	-0.0002	0,002	0,001	0,000
S174	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S174	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S174	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,001	0,000
S175	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S175	Ka.C.1	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S175	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,001	0,000
S176	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,001	0,000
S177	Ka.C.2	0,000	0,001	0,000	2.000	-0.0007	3.000	-0.0004	0,002	0,001	0,000
S178	Ka.C.2	0,002	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,003	0,001	0,000
S179	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S179	Ka.C.1	0,000	0,000	0,000	2.500	-0.0003	0.000	0.0000	0,000	0,000	0,000
S179	Ka.C.2	0,003	0,001	0,000	2.500	-0.0003	1.000	0.0001	0,004	0,001	0,000
S180	Ka.C.2	0,004	0,001	0,000	2.500	-0.0002	4.000	-0.0001	0,005	0,001	0,000
S181	Ka.C.(w1)	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S181	Ka.C.1	0,000	0,000	0,000	2.000	-0.0007	0.000	0.0000	0,000	0,000	0,000
S181	Ka.C.2	0,000	0,000	0,000	2.000	-0.0007	4.000	-0.0002	0,002	0,000	0,000
S182	Ka.C.2	0,002	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,003	0,000	0,000
S183	Ka.C.2	0,003	0,000	0,000	2.500	-0.0003	4.000	-0.0001	0,004	0,000	0,000
S184	Ka.C.(w1)	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S184	Ka.C.1	0,000	0,000	0,000	2.500	-0.0002	0.000	0.0000	0,000	0,000	0,000
S184	Ka.C.2	0,004	0,000	0,000	2.500	-0.0002	1.000	0.0001	0,005	0,000	0,000
-	-	m	m	m	m	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C1	S1
C2	S2
C3	S3
C4	S4
C5	S5
C6	S6
C7	S7
C8	S8
C9	S9
C10	S10
C11	S11
C12	S12
C13	S13
C14	S14
C15	S15
C16	S16
C17	S17
C18	S18
C19	S19
C20	S20
C21	S21
C22	S22
C23	S23
C24	S24
C25	S25
C26	S26
C27	S27
C28	S28
C29	S29
C30	S30
C31	S31
C32	S32
C33	S33
C34	S34
C35	S35
C36	S36

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C37	S37
C38	S38
C39	S39
C40	S40
C41	S41
C42	S42
C43	S43
C44	S44
C45	S45
C46	S46
C47	S47
C48	S48
C49	S49
C50	S50
C51	S51
C52	S52
C53	S53
C54	S54
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C81	S81
C83	S83
C85	S85
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C89	S89
C91	S91
C93	S93
C95	S95
C97	S97
C99	S99
C100	S100
C101	S101
C102	S102
C103	S103
C104	S104
C105	S105
C106	S106
C107	S107
C108	S108
C109	S109
C110	S110
C111	S111

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C112	S112
C113	S113
C114	S114
C115	S115
C116	S116
C117	S117
C118	S118
C119	S119
C120	S120
C121	S121
C122	S122
C123	S123
C124	S124
C125	S125
C126	S126
C127	S127
C128	S128
C129	S129
C130	S130
C131	S131
C132	S132
C133	S133
C134	S134
C135	S135
C136	S136
C137	S137
C138	S138
C139	S139
C140	S140
C141	S141
C142	S142
C143	S143
C144	S144
C145	S145
C146	S146
C147	S147
C148	S148
C149	S149
C150	S150
C151	S151
C152	S152
C153	S153
C154	S154
C155	S155
C156	S156
C157	S157
C158	S158
C159	S159
C160	S160
C161	S161
C162	S162
C163	S163
C164	S164
C165	S165
C166	S166
C167	S167
C168	S168
C169	S169
C170	S170
C171	S171
C172	S172
C173	S173
C174	S174
C175	S175

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C176	S176
C177	S177
C178	S178
C179	S179
C180	S180
C181	S181
C182	S182
C183	S183
C184	S184

KNIKLENGTEGEGEVENS

Staaft	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C61 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C62 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C63 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C64 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C65 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C66 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C67 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C68 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C69 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C70 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C71 - V1 (0.000-5.000)	P2	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEDEVENS

Staaft	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C61 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C62 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C63 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C64 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C65 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C66 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C67 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C68 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C69 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C70 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C71 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C72 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

STAALTOETS RESULTATEN MET PROFIELGEDEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C1-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C1-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = -47.7 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.11 < 1

Profielgegevens staaf C2-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C2-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -48.2 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.5 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN1993-1-1(6.9): UC = 0.11 < 1	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
	MyRd = 18.4 kNm
	MzRd = 18.4 kNm

Profielgegevens staaf C3-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C3-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = 35.4 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.4 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN1993-1-1(6.5): UC = 0.08 < 1	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
	MyRd = 18.4 kNm
	MzRd = 18.4 kNm

Profielgegevens staaf C4-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C4-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = 34.9 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.4 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN1993-1-1(6.5): UC = 0.08 < 1	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
	MyRd = 18.4 kNm
	MzRd = 18.4 kNm

Profielgegevens staaf C5-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C5-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -70.0 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.5 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
	MyRd = 18.4 kNm
	MzRd = 18.4 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.9): UC = 0.16 < 1

Profielgegevens staaf C6-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C6-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1
N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C7-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C7-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1
N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C8-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C8-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = 74.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.4 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.17 < 1

Profielgegevens staaf C9-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C9-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1	
N;Ed = -36.8 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm

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Vz;Ed = 0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm
 NEN-EN1993-1-1(6.9): UC = 0.09 < 1

Profielgegevens staaf C10-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C10-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = -37.3 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm
 NEN-EN1993-1-1(6.9): UC = 0.09 < 1

Profielgegevens staaf C11-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C11-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = 53.1 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.4 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm
 NEN-EN1993-1-1(6.5): UC = 0.12 < 1

Profielgegevens staaf C12-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C12-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = 52.6 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.4 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm
 NEN-EN1993-1-1(6.5): UC = 0.12 < 1

Profielgegevens staaf C13-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorsnedetoetsing C13-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -18.2 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.4 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Profielgegevens staaf C14-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C14-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C15-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C15-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -14.3 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.4 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.03 < 1

Profielgegevens staaf C16-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C16-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C17-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2

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tw = 4.0 mm r = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2 It = 624.4e-08 m4	Aw;z;pl = 9.07e-04 m2 Iwa = 135.3e-10 m6
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Doorsnedetoetsing C17-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C18-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C18-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C19-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C19-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C20-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C20-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C21-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C21-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C22-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C22-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C23-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C23-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C24-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C24-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Profielgegevens staaf C25-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C25-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -18.1 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.04 < 1	

Profielgegevens staaf C26-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C26-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -18.7 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.04 < 1	

Profielgegevens staaf C27-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C27-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm
NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	

Profielgegevens staaf C28-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C28-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.0 kN	My;Ed = 0.6 kNm
	Mz;Ed = 0.0 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C29-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C29-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.6 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C30-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C30-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.6 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C31-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C31-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.6 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C32-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C32-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C33-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C33-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C34-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C34-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C35-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C35-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C36-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C36-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C37-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C37-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -18.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.4 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 18.4 kNm

MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Profielgegevens staaf C38-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C38-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -17.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.4 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 18.4 kNm

MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Profielgegevens staaf C39-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C39-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -17.8 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.4 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 18.4 kNm

MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Profielgegevens staaf C40-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C40-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C41-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C41-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C42-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C42-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C43-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C43-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Profielgegevens staaf C44-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C44-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = -0.1 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C45-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C45-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = -0.1 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C46-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C46-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C47-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C47-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	MNyRd = 18.4 kNm

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Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C48-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C48-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C49-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C49-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.4 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C50-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C50-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.4 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C51-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C51-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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N;Ed = -40.3 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.9): UC = 0.09 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C52-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C52-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -40.8 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.9): UC = 0.10 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C53-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C53-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.1 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.0 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.6 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C54-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C54-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.1 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.0 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.6 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C55-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorsnedetoetsing C55-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -26.9 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.06 < 1

Profielgegevens staaf C56-V1 (0.000-5.000)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C56-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -27.3 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.06 < 1

Profielgegevens staaf C57-V1 (0.000-5.000)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C57-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MMyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C58-V1 (0.000-5.000)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C58-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.6 kNm
Mz;Ed = 0.0 kNm
MMyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C59-V1 (0.000-5.000)

KK120/4
h = 120.0 mm
b = 120.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6
Doorsnedetoetsing C59-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1	
N;Ed = -0.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm	
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm	
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm	
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm	
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1			
Profielgegevens staaf C60-V1 (0.000-5.000)			
KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6
Doorsnedetoetsing C60-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1	
N;Ed = -0.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.6 kNm	
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm	
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm	
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm	
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1			
Profielgegevens staaf C61-V1 (0.000-5.000)			
HE180A	Analyse	Staal S235	fyd(toegepast) = 235 N/mm2
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	lz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6
Doorsnedetoetsing C61-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1	
N;Ed = -151.6 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm	
	Vz;Ed = 1.1 kN	Mz;Ed = 0.0 kNm	
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm	
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm	
NEN-EN1993-1-1(6.9): UC = 0.14 < 1			
Kiptoetsing C61-V1 (0.000-5.000)			
Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.		b-eff(Begin) = 0.001 = 0.0 Xe;lst = 5.000 m S = 1.029 m C2(toegepast) = 0.00 Lam-rel = 0.77 b-eff(Eind) = 0.001 lst = 5.000 m Iwa = 6.0211e-08 m6 C = 4.23 Profielklasse 1 UC(y) = 0.02 UC(z) = 0.00	
Inklem. begin: Gesteund	Beperk. eind: Gesteund		
Tabel gebruikt NB 6.2	q = 0.5kN/m		
Bovenflens maatgevend	Xb;lst = 0.000 m		
Lsys = 5.000 m	Lg = 5.000 m		
C1 = 1.13	C2 = 0.45 (tabel)		
Mcr = 128.8 kNm	kred = 1.0		
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		
Chi;LT,Z = 1.00	Ikip = 5.000 m		
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Stabiliteitstoetsing C61-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -151.6 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.32 < 1			

Buiging & Druk C61-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -151.6 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 1.040	Kyz = 0.826	Kzy = 0.954	Kzz = 1.377
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.34 < 1			

Profielgegevens staaf C62-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C62-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -108.3 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 1.1 kN	My;Ed = 0.0 kNm
		Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm

NEN-EN1993-1-1(6.9): UC = 0.10 < 1

Kiptoetsing C62-V1 (0.000-5.000)

Equi. profiel: HE180A

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C62-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -108.3 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.23 < 1			

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Buiging & Druk C62-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -108.3 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 1.014	Kyz = 0.753	Kzy = 0.967	Kzz = 1.255
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.25 < 1			

Profielgegevens staaf C63-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C63-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = -108.6 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 1.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm
NEN-EN1993-1-1(6.9): UC = 0.10 < 1		

Kiptoetsing C63-V1 (0.000-5.000)

Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	Ikip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C63-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -108.6 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.23 < 1			

Buiging & Druk C63-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -108.6 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Kyy = 1.014 Kyz = 0.753 Kzy = 0.967 Kzz = 1.256
Ksi;y = 0.78 Ksi;z = 0.44 Ksi;LT = 0.81
NEN-EN1993-1-1(6.61&6.62): UC = 0.25 < 1

Profielgegevens staaf C64-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C64-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -75.9 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	MyRd = 76.3 kNm
	MzRd = 36.8 kNm
NEN-EN1993-1-1(6.9): UC = 0.07 < 1	

Kiptoetsing C64-V1 (0.000-5.000)

Equi. profiel: HE180A	Instab. curve Kip:a
Maatgevende combinatie: Fu.C.2	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	b-eff(Begin) = 0.001
Tabel gebruikt NB 6.2	= 0.0
Bovenflens maatgevend	xe;lst = 5.000 m
Lsys = 5.000 m	S = 1.029 m
C1 = 1.13	C2(toegepast) = 0.00
Mcr = 128.8 kNm	Lam-rel = 0.77
Chi;LT(Fu.C.2) = 0.81	
Chi;LT,Z = 1.00	
My;begin = 0.0 kNm	
NEN-EN1993-1-1(6.54): UC = 0.02 < 1	

Stabiliteitstoetsing C64-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	
N;Ed = -75.9 kN	Nb;Rd;y = 824.4 kN
Methode Y = Cons. gesch.	Ca(y) = 0.000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0.78	
Xz = 0.44	
NEN-EN1993-1-1(6.46): UC = 0.16 < 1	

Buiging & Druk C64-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1
N;Ed = -75.9 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95
Kyy = 0.995	Kyz = 0.698	Kzy = 0.977
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81
NEN-EN1993-1-1(6.61&6.62): UC = 0.18 < 1		Kzz = 1.164

Profielgegevens staaf C65-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
b = 180.0 mm	ly = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	lz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6
Doorsnedetoetsing C65-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1	
N;Ed = -76.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm	
	Vz;Ed = 1.1 kN	Mz;Ed = 0.0 kNm	
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm	
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm	
NEN-EN1993-1-1(6.9): UC = 0.07 < 1			
Kiptoetsing C65-V1 (0.000-5.000)			
Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			
Stabiliteitstoetsing C65-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.1			
N;Ed = -76.2 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.16 < 1			
Buiging & Druk C65-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -76.2 kN	Kipgevoelig Ja	Mz;Ed = 0.0 kNm	
	My;Ed = 1.5 kNm	Delta;Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm		
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.995	Kyz = 0.699	Kzy = 0.977	Kzz = 1.164
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.18 < 1			
Profielgegevens staaf C66-V1 (0.000-5.000)			
HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	ly = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	lz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6
Doorsnedetoetsing C66-V1 (0.000-5.000)			
Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1	
N;Ed = -56.9 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Vz;Ed = 1.1 kN
 N;Rd = 1,063.4 kN
 Vy;Rd = 490.2 kN
 Vz;Rd = 196.3 kN
 Mz;Ed = 0.0 kNm
 MyRd = 76.3 kNm
 MzRd = 36.8 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Kiptoetsing C66-V1 (0.000-5.000)

Equi. profiel: HE180A

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001
= 0.0

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.5kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 1.029 m

lwa = 6.0211e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 4.23

Mcr = 128.8 kNm

kred = 1.0

Lam-rel = 0.77

Profielklasse 1

Chi;LT(Fu.C.2) = 0.81

M;Ed = 1.5 kNm

UC(y) = 0.02

Chi;LT,Z = 1.00

lkip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.02 < 1

Stabiliteitstoetsing C66-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -56.9 kN

Nb;Rd;y = 824.4 kN

Nb;Rd;z = 472.7 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.78

Knikcurve: B

Xz = 0.44

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.12 < 1

Buiging & Druk C66-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -56.9 kN

My;Ed = 1.5 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 1.4 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 0.984

Kyz = 0.666

Kzy = 0.983

Kzz = 1.110

Ksi;y = 0.78

Ksi;z = 0.44

Ksi;LT = 0.81

NEN-EN1993-1-1(6.61&6.62): UC = 0.14 < 1

Profielgegevens staaf C67-V1 (0.000-5.000)

HE180A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 171.0 mm

A = 4.53e-03 m2

Wy;el = 293.6e-06 m3

Wy;pl = 324.9e-06 m3

b = 180.0 mm

Iy = 251.0e-07 m4

Wz;el = 102.7e-06 m3

Wz;pl = 156.5e-06 m3

tf = 9.5 mm

Iz = 924.6e-08 m4

Aw;y;el = 3.61e-03 m2

Aw;y;pl = 3.61e-03 m2

tw = 6.0 mm

Massa/m = 35.5 kg/m

Aw;z;el = 1.45e-03 m2

Aw;z;pl = 1.45e-03 m2

r = 15.0 mm

It = 148.0e-09 m4

lwa = 602.1e-10 m6

Doorsnedetoetsing C67-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = -57.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 1.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 1,063.4 kN

Vy;Rd = 490.2 kN

MyRd = 76.3 kNm

Vz;Rd = 196.3 kN

MzRd = 36.8 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Kiptoetsing C67-V1 (0.000-5.000)

Equi. profiel: HE180A

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
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Maatgevende combinatie: Fu.C.2

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.5kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 1.029 m

lwa = 6.0211e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 4.23

Mcr = 128.8 kNm

kred = 1.0

Lam-rel = 0.77

Profielklasse 1

Chi;LT(Fu.C.2) = 0.81

M;Ed = 1.5 kNm

UC(y) = 0.02

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.02 < 1

Stabiliteitstoetsing C67-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -57.1 kN

Nb;Rd;y = 824.4 kN

Nb;Rd;z = 472.7 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.78

Knikcurve: B

Xz = 0.44

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.12 < 1

Buiging & Druk C67-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -57.1 kN

My;Ed = 1.5 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 1.4 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 0.984

Kyz = 0.666

Kzy = 0.983

Kzz = 1.111

Ksi;y = 0.78

Ksi;z = 0.44

Ksi;LT = 0.81

NEN-EN1993-1-1(6.61&6.62): UC = 0.14 < 1

Profielgegevens staaf C68-V1 (0.000-5.000)

HE180A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 171.0 mm

A = 4.53e-03 m2

Wy;el = 293.6e-06 m3

Wy;pl = 324.9e-06 m3

b = 180.0 mm

Iy = 251.0e-07 m4

Wz;el = 102.7e-06 m3

Wz;pl = 156.5e-06 m3

tf = 9.5 mm

Iz = 924.6e-08 m4

Aw;y;el = 3.61e-03 m2

Aw;y;pl = 3.61e-03 m2

tw = 6.0 mm

Massa/m = 35.5 kg/m

Aw;z;el = 1.45e-03 m2

Aw;z;pl = 1.45e-03 m2

r = 15.0 mm

It = 148.0e-09 m4

lwa = 602.1e-10 m6

Doorsnedetoetsing C68-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = -34.6 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 1.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 1,063.4 kN

Vy;Rd = 490.2 kN

MyRd = 76.3 kNm

Vz;Rd = 196.3 kN

MzRd = 36.8 kNm

NEN-EN1993-1-1(6.9): UC = 0.03 < 1

Kiptoetsing C68-V1 (0.000-5.000)

Equi. profiel: HE180A

Instab. curve Kip:a

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.5kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 1.029 m

lwa = 6.0211e-08 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C68-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -34.6 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.07 < 1			

Buiging & Druk C68-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1		Kipgevoelig Ja	Profielklasse = 1
N;Ed = -34.6 kN	My;Ed = 1.5 kNm	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm
			Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.971	Kyz = 0.628	Kzy = 0.990	Kzz = 1.047
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.09 < 1			

Profielgegevens staaf C69-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C69-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = -34.9 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 1.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm
NEN-EN1993-1-1(6.9): UC = 0.03 < 1		

Kiptoetsing C69-V1 (0.000-5.000)

Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C69-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.1

N;Ed = -34.9 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.07 < 1			

Buiging & Druk C69-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -34.9 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.971	Kyz = 0.629	Kzy = 0.989	Kzz = 1.048
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.10 < 1			

Profielgegevens staaf C70-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C70-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1	
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 1.5 kNm	
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm	
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm	
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm	
NEN-EN1993-1-1(6.12): UC = 0.02 < 1			

Kiptoetsing C70-V1 (0.000-5.000)

Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	Ikip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C70-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -16.4 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.03 < 1			

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Buiging & Druk C70-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -16.4 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.3 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.960	Kyz = 0.598	Kzy = 0.995	Kzz = 0.996
Ksi;y = 0.78	Ksi;z = 0.44	Ksi;LT = 0.81	
NEN-EN1993-1-1(6.61&6.62): UC = 0.06 < 1			

Profielgegevens staaf C71-V1 (0.000-5.000)

HE180A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 171.0 mm	A = 4.53e-03 m2	Wy;el = 293.6e-06 m3	Wy;pl = 324.9e-06 m3
b = 180.0 mm	Iy = 251.0e-07 m4	Wz;el = 102.7e-06 m3	Wz;pl = 156.5e-06 m3
tf = 9.5 mm	Iz = 924.6e-08 m4	Aw;y;el = 3.61e-03 m2	Aw;y;pl = 3.61e-03 m2
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m2	Aw;z;pl = 1.45e-03 m2
r = 15.0 mm		It = 148.0e-09 m4	Iwa = 602.1e-10 m6

Doorsnedetoetsing C71-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 1.5 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm
NEN-EN1993-1-1(6.12): UC = 0.02 < 1		

Kiptoetsing C71-V1 (0.000-5.000)

Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt NB 6.2	q = 0.5kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 1.029 m	Iwa = 6.0211e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 4.23
Mcr = 128.8 kNm	kred = 1.0	Lam-rel = 0.77	Profielklasse 1
Chi;LT(Fu.C.2) = 0.81	M;Ed = 1.5 kNm		UC(y) = 0.02
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.02 < 1			

Stabiliteitstoetsing C71-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -16.7 kN	Nb;Rd;y = 824.4 kN	Nb;Rd;z = 472.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.78		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.04 < 1			

Buiging & Druk C71-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -16.7 kN	My;Ed = 1.5 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 1.3 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.960	Kyz = 0.598	Kzy = 0.995	Kzz = 0.997

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = -0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C75-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C75-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = -0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C76-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C76-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = -0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C77-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C77-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = -0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C79-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C79-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.2 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.5 kNm

Vz;Ed = -0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C81-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C81-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = -0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C83-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C83-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

Profielklasse = 1

N;Ed = -0.4 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = -0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C85-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C85-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = -0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C87-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C87-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.4 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -0.6 kN	My;Ed = 0.5 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C89-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C89-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -0.6 kN	My;Ed = 0.5 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C91-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C91-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.4 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -0.6 kN	My;Ed = 0.5 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C93-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	ly = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C93-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -0.6 kN	My;Ed = 0.5 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Profielgegevens staaf C95-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C95-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = -0.4 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.6 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNzRd = 18.4 kNm

Profielgegevens staaf C97-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C97-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.6 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNzRd = 18.4 kNm

Profielgegevens staaf C99-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C99-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.6 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNzRd = 18.4 kNm

Profielgegevens staaf C100-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C100-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = 46.8 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.4 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	MyRd = 18.4 kNm

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Vz;Rd = 123.1 kN

MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.11 < 1

Profielgegevens staaf C101-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C101-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = -0.6 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C102-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C102-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 54.6 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.13 < 1

Profielgegevens staaf C103-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C103-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 47.8 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.11 < 1

Profielgegevens staaf C104-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C104-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

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N;Ed = 47.0 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.5): UC = 0.11 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C105-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C105-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 36.2 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.5): UC = 0.08 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C106-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C106-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -74.3 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.9): UC = 0.17 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = -1.0 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C107-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C107-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -67.3 kN
 N;Rd = 426.5 kN
 NEN-EN1993-1-1(6.9): UC = 0.16 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = -0.9 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

Profielgegevens staaf C108-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorsnedetoetsing C108-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -54.8 kN
Vy;Ed = 0.0 kN
Vz;Ed = -0.8 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.13 < 1

Profielgegevens staaf C109-V1 (0.000-7.071)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C109-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -52.7 kN
Vy;Ed = 0.0 kN
Vz;Ed = -0.8 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.12 < 1

Profielgegevens staaf C110-V1 (0.000-7.071)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C110-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 73.4 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.4 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.17 < 1

Profielgegevens staaf C111-V1 (0.000-7.071)

KK120/4
h = 120.0 mm
b = 120.0 mm
tf = 4.0 mm
tw = 4.0 mm
r = 4.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4
Iz = 402.3e-08 m4
Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Aw;y;el = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2
It = 624.4e-08 m4
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3
Aw;y;pl = 9.07e-04 m2
Aw;z;pl = 9.07e-04 m2
Iwa = 135.3e-10 m6

Doorsnedetoetsing C111-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 62.3 kN
Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 18.4 kNm
MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.15 < 1

Profielgegevens staaf C112-V1 (0.000-7.071)

KK120/4
h = 120.0 mm
b = 120.0 mm
Analyse
A = 1.81e-03 m2
Iy = 402.3e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3
Wz;el = 670.5e-07 m3
Wy;pl = 783.3e-07 m3
Wz;pl = 783.3e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C112-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 54.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.13 < 1

Profielgegevens staaf C113-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C113-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 40.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.09 < 1

Profielgegevens staaf C114-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C114-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -77.0 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -1.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.18 < 1

Profielgegevens staaf C115-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C115-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -67.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.9 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.16 < 1

Profielgegevens staaf C116-V1 (0.000-7.071)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C116-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -56.2 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.13 < 1	

Profielgegevens staaf C117-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C117-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -51.9 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.12 < 1	

Profielgegevens staaf C118-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C118-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = 79.6 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.5): UC = 0.19 < 1	

Profielgegevens staaf C119-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C119-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = 70.4 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MyRd = 18.4 kNm
	MzRd = 18.4 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.5): UC = 0.17 < 1

Profielgegevens staaf C120-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C120-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = 61.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.14 < 1

Profielgegevens staaf C121-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C121-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = 51.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.12 < 1

Profielgegevens staaf C122-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C122-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = -66.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.9 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.16 < 1

Profielgegevens staaf C123-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C123-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1	
N;Ed = -60.5 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Vz;Ed = -0.9 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.14 < 1

Profielgegevens staaf C124-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C124-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = -51.9 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = -0.8 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.12 < 1

Profielgegevens staaf C125-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C125-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = -43.0 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = -0.8 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.10 < 1

Profielgegevens staaf C126-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C126-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 N;Ed = 28.4 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN
 Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 18.4 kNm
 MzRd = 18.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.07 < 1

Profielgegevens staaf C127-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorsnedetoetsing C127-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 3.536 m

N;Ed = -33.0 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.08 < 1

Profielklasse = 1
My;Ed = 1.3 kNm
Mz;Ed = 0.0 kNm
MNyRd = 17.0 kNm
MNzRd = 17.0 kNm

Profielgegevens staaf C128-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C128-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.0 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielklasse = 1
My;Ed = 1.2 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

Profielgegevens staaf C129-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C129-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 3.536 m

N;Ed = -25.1 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielklasse = 1
My;Ed = 1.3 kNm
Mz;Ed = 0.0 kNm
MNyRd = 17.3 kNm
MNzRd = 17.3 kNm

Profielgegevens staaf C130-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C130-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.4 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.0 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielklasse = 1
My;Ed = 1.2 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

Profielgegevens staaf C131-V1 (0.000-7.071)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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tw = 4.0 mm r = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2 It = 624.4e-08 m4	Aw;z;pl = 9.07e-04 m2 Iwa = 135.3e-10 m6
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Doorsnedetoetsing C131-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 3.536 m

N;Ed = -17.3 kN	Vy;Ed = 0.0 kN	My;Ed = 1.2 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 17.7 kNm
	Vz;Rd = 123.1 kN	MNzRd = 17.7 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C132-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C132-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = 1.2 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C133-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C133-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 3.536 m

N;Ed = -18.3 kN	Vy;Ed = 0.0 kN	My;Ed = 1.2 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 17.6 kNm
	Vz;Rd = 123.1 kN	MNzRd = 17.6 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C134-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C134-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.5 kN	Vy;Ed = 0.0 kN	My;Ed = 1.2 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C135-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C135-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 1.2 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C136-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C136-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.2 op 3.536 m

N;Ed = 0.3 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 1.2 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C137-V1 (0.000-7.071)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C137-V1 (0.000-7.071)

Maatgevende combinatie: Fu.C.1 op 3.536 m

N;Ed = -18.4 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 1.2 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 17.6 kNm
		MNzRd = 17.6 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.07 < 1

Profielgegevens staaf C138-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 120.0 mm	A = 1.81e-03 m ²	Wy;el = 670.5e-07 m ³	Wy;pl = 783.3e-07 m ³
b = 120.0 mm	Iy = 402.3e-08 m ⁴	Wz;el = 670.5e-07 m ³	Wz;pl = 783.3e-07 m ³
tf = 4.0 mm	Iz = 402.3e-08 m ⁴	Aw;y;el = 9.07e-04 m ²	Aw;y;pl = 9.07e-04 m ²
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m ²	Aw;z;pl = 9.07e-04 m ²
r = 4.0 mm		It = 624.4e-08 m ⁴	Iwa = 135.3e-10 m ⁶

Doorsnedetoetsing C138-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = -0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 123.1 kN	MNyRd = 18.4 kNm
		MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Profielgegevens staaf C139-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C139-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1
N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = -0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1		

Profielgegevens staaf C140-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C140-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m		Profielklasse = 1
N;Ed = 0.1 kN	Vy;Ed = 0.0 kN	My;Ed = -0.6 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1		

Profielgegevens staaf C141-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C141-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 5.000 m		Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = -0.3 kN	My;Ed = 0.5 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = -0.7 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm
NEN-EN1993-1-1(6.12): UC = 0.04 < 1		

Profielgegevens staaf C142-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C142-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m		Profielklasse = 1
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Vz;Ed = -0.5 kN	Mz;Ed = 0.0 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C143-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C143-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

Profielklasse = 1

N;Ed = -0.2 kN

Vy;Ed = 0.0 kN

My;Ed = 0.4 kNm

Vz;Ed = 0.5 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C144-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C144-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

Profielklasse = 1

N;Ed = -0.2 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = 0.5 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C145-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C145-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

Profielklasse = 1

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = 0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

MNyRd = 18.4 kNm

Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C146-V1 (0.000-5.000)

KK120/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 1.81e-03 m2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

b = 120.0 mm

Iy = 402.3e-08 m4

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

tf = 4.0 mm

Iz = 402.3e-08 m4

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

tw = 4.0 mm

Massa/m = 14.2 kg/m

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C146-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.5 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C147-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C147-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = 0.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.4 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C148-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C148-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = 0.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.5 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C149-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

It = 624.4e-08 m⁴

Iwa = 135.3e-10 m⁶

Doorsnedetoetsing C149-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 5.000 m

N;Ed = 0.0 kN

Vy;Ed = -0.3 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

Profielklasse = 1

My;Ed = 0.5 kNm

Mz;Ed = -0.6 kNm

MyRd = 18.4 kNm

MzRd = 18.4 kNm

NEN-EN1993-1-1(6.12): UC = 0.03 < 1

Profielgegevens staaf C150-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m²

b = 120.0 mm

Iy = 402.3e-08 m⁴

tf = 4.0 mm

Iz = 402.3e-08 m⁴

tw = 4.0 mm

Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 670.5e-07 m³

Wy;pl = 783.3e-07 m³

Wz;el = 670.5e-07 m³

Wz;pl = 783.3e-07 m³

Aw;y;el = 9.07e-04 m²

Aw;y;pl = 9.07e-04 m²

Aw;z;el = 9.07e-04 m²

Aw;z;pl = 9.07e-04 m²

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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r = 4.0 mm

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C150-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.3 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.5 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C151-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C151-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.3 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielklasse = 1

My;Ed = 0.4 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C152-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C152-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.4 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.5 kNm

Mz;Ed = 0.0 kNm

MNyRd = 18.4 kNm

MNzRd = 18.4 kNm

Profielgegevens staaf C153-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

b = 120.0 mm

Iy = 402.3e-08 m4

tf = 4.0 mm

Iz = 402.3e-08 m4

tw = 4.0 mm

Massa/m = 14.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Wz;el = 670.5e-07 m3

Wz;pl = 783.3e-07 m3

Aw;y;el = 9.07e-04 m2

Aw;y;pl = 9.07e-04 m2

Aw;z;el = 9.07e-04 m2

Aw;z;pl = 9.07e-04 m2

It = 624.4e-08 m4

Iwa = 135.3e-10 m6

Doorsnedetoetsing C153-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 5.000 m

N;Ed = 0.7 kN

Vy;Ed = -0.2 kN

Vz;Ed = 0.5 kN

N;Rd = 426.5 kN

Vy;Rd = 123.1 kN

Vz;Rd = 123.1 kN

NEN-EN1993-1-1(6.12): UC = 0.03 < 1

Profielklasse = 1

My;Ed = 0.4 kNm

Mz;Ed = -0.5 kNm

MyRd = 18.4 kNm

MzRd = 18.4 kNm

Profielgegevens staaf C154-V1 (0.000-5.000)

KK120/4

Analyse

h = 120.0 mm

A = 1.81e-03 m2

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 670.5e-07 m3

Wy;pl = 783.3e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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b = 120.0 mm
 tf = 4.0 mm
 tw = 4.0 mm
 r = 4.0 mm

ly = 402.3e-08 m4
 lz = 402.3e-08 m4
 Massa/m = 14.2 kg/m

Wz;el = 670.5e-07 m3
 Aw;y;el = 9.07e-04 m2
 Aw;z;el = 9.07e-04 m2
 It = 624.4e-08 m4

Wz;pl = 783.3e-07 m3
 Aw;y;pl = 9.07e-04 m2
 Aw;z;pl = 9.07e-04 m2
 Iwa = 135.3e-10 m6

Doorsnedetoetsing C154-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.5 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = -0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C155-V1 (0.000-5.000)

KK120/4
 h = 120.0 mm
 b = 120.0 mm
 tf = 4.0 mm
 tw = 4.0 mm
 r = 4.0 mm

Analyse
 A = 1.81e-03 m2
 ly = 402.3e-08 m4
 lz = 402.3e-08 m4
 Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
 Wy;el = 670.5e-07 m3
 Wz;el = 670.5e-07 m3
 Aw;y;el = 9.07e-04 m2
 Aw;z;el = 9.07e-04 m2
 It = 624.4e-08 m4

fya(toegepast) = 235 N/mm2
 Wy;pl = 783.3e-07 m3
 Wz;pl = 783.3e-07 m3
 Aw;y;pl = 9.07e-04 m2
 Aw;z;pl = 9.07e-04 m2
 Iwa = 135.3e-10 m6

Doorsnedetoetsing C155-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.5 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.4 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C156-V1 (0.000-5.000)

KK120/4
 h = 120.0 mm
 b = 120.0 mm
 tf = 4.0 mm
 tw = 4.0 mm
 r = 4.0 mm

Analyse
 A = 1.81e-03 m2
 ly = 402.3e-08 m4
 lz = 402.3e-08 m4
 Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
 Wy;el = 670.5e-07 m3
 Wz;el = 670.5e-07 m3
 Aw;y;el = 9.07e-04 m2
 Aw;z;el = 9.07e-04 m2
 It = 624.4e-08 m4

fya(toegepast) = 235 N/mm2
 Wy;pl = 783.3e-07 m3
 Wz;pl = 783.3e-07 m3
 Aw;y;pl = 9.07e-04 m2
 Aw;z;pl = 9.07e-04 m2
 Iwa = 135.3e-10 m6

Doorsnedetoetsing C156-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.5 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C157-V1 (0.000-5.000)

KK120/4
 h = 120.0 mm
 b = 120.0 mm
 tf = 4.0 mm
 tw = 4.0 mm
 r = 4.0 mm

Analyse
 A = 1.81e-03 m2
 ly = 402.3e-08 m4
 lz = 402.3e-08 m4
 Massa/m = 14.2 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
 Wy;el = 670.5e-07 m3
 Wz;el = 670.5e-07 m3
 Aw;y;el = 9.07e-04 m2
 Aw;z;el = 9.07e-04 m2
 It = 624.4e-08 m4

fya(toegepast) = 235 N/mm2
 Wy;pl = 783.3e-07 m3
 Wz;pl = 783.3e-07 m3
 Aw;y;pl = 9.07e-04 m2
 Aw;z;pl = 9.07e-04 m2
 Iwa = 135.3e-10 m6

Doorsnedetoetsing C157-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = 0.0 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 0.6 kN
 N;Rd = 426.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Profielgegevens staaf C158-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C158-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = -0.3 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.5 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C159-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C159-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = -0.3 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.5 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.02 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C160-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C160-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = -0.4 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.5 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	Vz;Rd = 123.1 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Profielgegevens staaf C161-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C161-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.6 kN
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN
	MNyRd = 18.4 kNm

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Vz;Rd = 123.1 kN

MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C162-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C162-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.0 kN Vy;Ed = 0.0 kN
Vz;Ed = -0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.5 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C163-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C163-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = 0.2 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.4 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C164-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C164-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = 0.1 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Profielklasse = 1
My;Ed = 0.5 kNm
Mz;Ed = 0.0 kNm
MNyRd = 18.4 kNm
MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C165-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m2
b = 120.0 mm Iy = 402.3e-08 m4
tf = 4.0 mm Iz = 402.3e-08 m4
tw = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 670.5e-07 m3 Wy;pl = 783.3e-07 m3
Wz;el = 670.5e-07 m3 Wz;pl = 783.3e-07 m3
Aw;y;el = 9.07e-04 m2 Aw;y;pl = 9.07e-04 m2
Aw;z;el = 9.07e-04 m2 Aw;z;pl = 9.07e-04 m2
It = 624.4e-08 m4 Iwa = 135.3e-10 m6

Doorsnedetoetsing C165-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

Profielklasse = 1

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N;Ed = 0.0 kN
 N;Rd = 426.5 kN
 NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.6 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C166-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C166-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.3 kN
 N;Rd = 426.5 kN
 NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = -0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C167-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C167-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.3 kN
 N;Rd = 426.5 kN
 NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.4 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C168-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C168-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.4 kN
 N;Rd = 426.5 kN
 NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.5 kN
 Vy;Rd = 123.1 kN
 Vz;Rd = 123.1 kN

Profielklasse = 1
 My;Ed = 0.5 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 18.4 kNm
 MNzRd = 18.4 kNm

Profielgegevens staaf C169-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorsnedetoetsing C169-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.5 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.6 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1
My;Ed = 0.5 kNm
Mz;Ed = 0.0 kNm
M_{Ny}Rd = 18.4 kNm
M_{Nz}Rd = 18.4 kNm

Profielgegevens staaf C170-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m²
b = 120.0 mm I_y = 402.3e-08 m⁴
t_f = 4.0 mm I_z = 402.3e-08 m⁴
t_w = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²
W_y;el = 670.5e-07 m³ W_y;pl = 783.3e-07 m³
W_z;el = 670.5e-07 m³ W_z;pl = 783.3e-07 m³
A_w;y;el = 9.07e-04 m² A_w;y;pl = 9.07e-04 m²
A_w;z;el = 9.07e-04 m² A_w;z;pl = 9.07e-04 m²
I_t = 624.4e-08 m⁴ I_{wa} = 135.3e-10 m⁶

Doorsnedetoetsing C170-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.5 kN Vy;Ed = 0.0 kN
Vz;Ed = -0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1
My;Ed = 0.5 kNm
Mz;Ed = 0.0 kNm
M_{Ny}Rd = 18.4 kNm
M_{Nz}Rd = 18.4 kNm

Profielgegevens staaf C171-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m²
b = 120.0 mm I_y = 402.3e-08 m⁴
t_f = 4.0 mm I_z = 402.3e-08 m⁴
t_w = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²
W_y;el = 670.5e-07 m³ W_y;pl = 783.3e-07 m³
W_z;el = 670.5e-07 m³ W_z;pl = 783.3e-07 m³
A_w;y;el = 9.07e-04 m² A_w;y;pl = 9.07e-04 m²
A_w;z;el = 9.07e-04 m² A_w;z;pl = 9.07e-04 m²
I_t = 624.4e-08 m⁴ I_{wa} = 135.3e-10 m⁶

Doorsnedetoetsing C171-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.5 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielklasse = 1
My;Ed = 0.4 kNm
Mz;Ed = 0.0 kNm
M_{Ny}Rd = 18.4 kNm
M_{Nz}Rd = 18.4 kNm

Profielgegevens staaf C172-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m²
b = 120.0 mm I_y = 402.3e-08 m⁴
t_f = 4.0 mm I_z = 402.3e-08 m⁴
t_w = 4.0 mm Massa/m = 14.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²
W_y;el = 670.5e-07 m³ W_y;pl = 783.3e-07 m³
W_z;el = 670.5e-07 m³ W_z;pl = 783.3e-07 m³
A_w;y;el = 9.07e-04 m² A_w;y;pl = 9.07e-04 m²
A_w;z;el = 9.07e-04 m² A_w;z;pl = 9.07e-04 m²
I_t = 624.4e-08 m⁴ I_{wa} = 135.3e-10 m⁶

Doorsnedetoetsing C172-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.5 kN Vy;Ed = 0.0 kN
Vz;Ed = 0.5 kN
N;Rd = 426.5 kN Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielklasse = 1
My;Ed = 0.5 kNm
Mz;Ed = 0.0 kNm
M_{Ny}Rd = 18.4 kNm
M_{Nz}Rd = 18.4 kNm

Profielgegevens staaf C173-V1 (0.000-5.000)

KK120/4 Analyse
h = 120.0 mm A = 1.81e-03 m²
b = 120.0 mm I_y = 402.3e-08 m⁴

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²
W_y;el = 670.5e-07 m³ W_y;pl = 783.3e-07 m³
W_z;el = 670.5e-07 m³ W_z;pl = 783.3e-07 m³

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C173-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 5.000 m

N;Ed = 0.0 kN	Vy;Ed = -0.2 kN	My;Ed = 0.5 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = -0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.12): UC = 0.03 < 1

Profielgegevens staaf C174-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C174-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.3 kN	Vy;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Vz;Ed = -0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C175-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C175-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.3 kN	Vy;Ed = 0.0 kN	My;Ed = 0.4 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C176-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	lz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C176-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

N;Ed = -0.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C177-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C177-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	

Profielgegevens staaf C178-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C178-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.03 < 1	

Profielgegevens staaf C179-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C179-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = 0.2 kN	My;Ed = 0.4 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.02 < 1	

Profielgegevens staaf C180-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C180-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1
N;Ed = 0.2 kN	My;Ed = 0.5 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	MNyRd = 18.4 kNm
	MNzRd = 18.4 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C181-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C181-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 5.000 m		Profielklasse = 1
N;Ed = 0.0 kN	Vy;Ed = -0.2 kN	My;Ed = 0.5 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = -0.6 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MzRd = 18.4 kNm

NEN-EN1993-1-1(6.12): UC = 0.03 < 1

Profielgegevens staaf C182-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C182-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m		Profielklasse = 1
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.5 kNm
	Vz;Ed = -0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

Profielgegevens staaf C183-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C183-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m		Profielklasse = 1
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.4 kNm
	Vz;Ed = 0.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 426.5 kN	Vy;Rd = 123.1 kN	MNyRd = 18.4 kNm
	Vz;Rd = 123.1 kN	MNzRd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.02 < 1

Profielgegevens staaf C184-V1 (0.000-5.000)

KK120/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 1.81e-03 m2	Wy;el = 670.5e-07 m3	Wy;pl = 783.3e-07 m3
b = 120.0 mm	Iy = 402.3e-08 m4	Wz;el = 670.5e-07 m3	Wz;pl = 783.3e-07 m3
tf = 4.0 mm	Iz = 402.3e-08 m4	Aw;y;el = 9.07e-04 m2	Aw;y;pl = 9.07e-04 m2
tw = 4.0 mm	Massa/m = 14.2 kg/m	Aw;z;el = 9.07e-04 m2	Aw;z;pl = 9.07e-04 m2
r = 4.0 mm		It = 624.4e-08 m4	Iwa = 135.3e-10 m6

Doorsnedetoetsing C184-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m	Profielklasse = 1	
N;Ed = -0.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.5 kNm

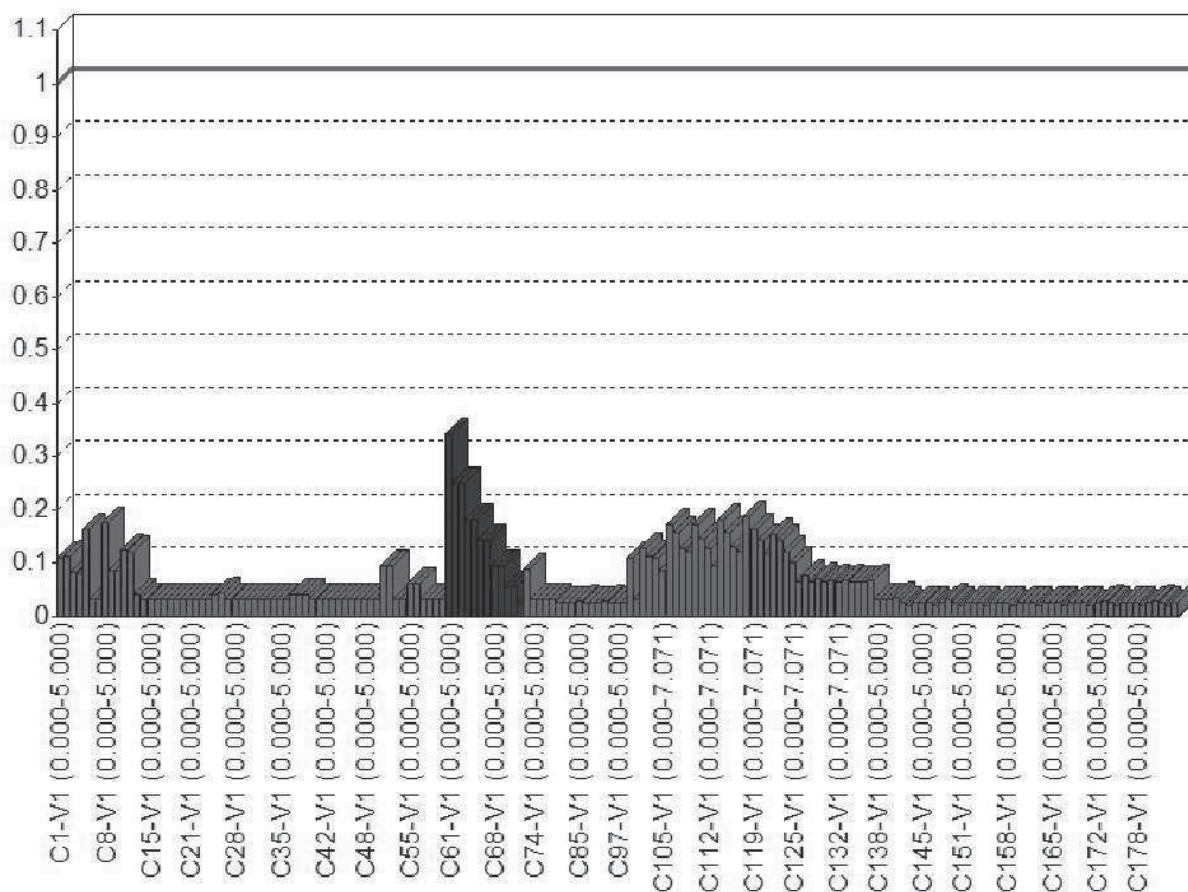
N;Rd = 426.5 kN

Vz;Ed = 0.5 kN
Vy;Rd = 123.1 kN
Vz;Rd = 123.1 kN

Mz;Ed = 0.0 kNm
M_{Ny}Rd = 18.4 kNm
M_{Nz}Rd = 18.4 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.03 < 1

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.11
C2-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.11
C3-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.08
C4-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.08
C5-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.16
C6-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C7-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C8-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.17
C9-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.09
C10-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.09
C11-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.12
C12-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.12
C13-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C14-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C15-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.03
C16-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C17-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C18-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C19-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C20-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C21-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C22-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C23-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C24-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C25-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C26-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C27-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C28-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C29-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C30-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C31-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C32-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C33-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C34-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C35-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C36-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C37-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C38-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C39-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C40-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C41-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C42-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C43-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C44-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C45-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C46-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C47-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C48-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C49-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C50-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C51-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.09
C52-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C53-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C54-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C55-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.06
C56-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.06
C57-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C58-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C59-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C60-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C61-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.14
C61-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.18
C61-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.32
C61-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.34
C61-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C62-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C62-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C62-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.23
C62-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.25
C62-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C63-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C63-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C63-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.23
C63-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.25
C63-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02

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Veld	Toetsing	Combinatie	Artikel	UC max
C64-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.07
C64-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.09
C64-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.16
C64-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.18
C64-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C65-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.07
C65-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.09
C65-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.16
C65-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.18
C65-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C66-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C66-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C66-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C66-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.14
C66-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C67-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C67-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C67-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C67-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.14
C67-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C68-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.03
C68-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.04
C68-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C68-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.09
C68-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C69-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.03
C69-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.04
C69-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C69-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.10
C69-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C70-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.02
C70-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C70-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.03
C70-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.06
C70-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C71-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.02
C71-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C71-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.04
C71-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.06
C71-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C72-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.02
C72-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C73-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.09
C74-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C75-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C76-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C77-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C79-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C81-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C83-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C85-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C87-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C89-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C91-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C93-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C95-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C97-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C99-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C100-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.11
C101-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C102-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.13
C103-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.11
C104-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.11
C105-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.08
C106-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.17
C107-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.16
C108-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.13
C109-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.12
C110-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.17
C111-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.15
C112-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.13
C113-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.09
C114-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.18
C115-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.16
C116-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.13
C117-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.12
C118-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.19
C119-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.17
C120-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.14
C121-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.12
C122-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.16
C123-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.14
C124-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.12
C125-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C126-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.07
C127-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN NEN-EN1993-1-1(NB.52)	0.08
C128-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C129-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C130-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C131-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C132-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C133-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C134-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C135-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C136-V1 (0.000-7.071)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C137-V1 (0.000-7.071)	Doorsnede	Fu.C.1	NEN-EN NEN-EN1993-1-1(NB.52)	0.07
C138-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C139-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C140-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C141-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.04
C142-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C143-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C144-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C145-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C146-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C147-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C148-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C149-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.03
C150-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C151-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C152-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C153-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.03
C154-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C155-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C156-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C157-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C158-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C159-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C160-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C161-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C162-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C163-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C164-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C165-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C166-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C167-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C168-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C169-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C170-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C171-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C172-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C173-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.03
C174-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C175-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C176-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C177-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C178-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C179-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C180-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C181-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.03
C182-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03
C183-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.02
C184-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.03

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Staaft	Profiel	Lsys	Massa
C61-V1 (0.000-5.000)	HE180A	5.000	177.612
C62-V1 (0.000-5.000)	HE180A	5.000	177.612
C63-V1 (0.000-5.000)	HE180A	5.000	177.612
C64-V1 (0.000-5.000)	HE180A	5.000	177.612
C65-V1 (0.000-5.000)	HE180A	5.000	177.612
C66-V1 (0.000-5.000)	HE180A	5.000	177.612
C67-V1 (0.000-5.000)	HE180A	5.000	177.612
C68-V1 (0.000-5.000)	HE180A	5.000	177.612
C69-V1 (0.000-5.000)	HE180A	5.000	177.612
C70-V1 (0.000-5.000)	HE180A	5.000	177.612
C71-V1 (0.000-5.000)	HE180A	5.000	177.612
C72-V1 (0.000-5.000)	HE180A	5.000	177.612
Subtotaal:	HE180A	60.000	2,131.342
C100-V1 (0.000-5.000)	KK120/4	5.000	71.231
C101-V1 (0.000-5.000)	KK120/4	5.000	71.231
C102-V1 (0.000-7.071)	KK120/4	7.071	100.736
C103-V1 (0.000-7.071)	KK120/4	7.071	100.736
C104-V1 (0.000-7.071)	KK120/4	7.071	100.736
C105-V1 (0.000-7.071)	KK120/4	7.071	100.736
C106-V1 (0.000-7.071)	KK120/4	7.071	100.736
C107-V1 (0.000-7.071)	KK120/4	7.071	100.736
C108-V1 (0.000-7.071)	KK120/4	7.071	100.736
C109-V1 (0.000-7.071)	KK120/4	7.071	100.736
C10-V1 (0.000-5.000)	KK120/4	5.000	71.231
C110-V1 (0.000-7.071)	KK120/4	7.071	100.736
C111-V1 (0.000-7.071)	KK120/4	7.071	100.736

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
C112-V1 (0.000-7.071)	KK120/4	7.071	100.736
C113-V1 (0.000-7.071)	KK120/4	7.071	100.736
C114-V1 (0.000-7.071)	KK120/4	7.071	100.736
C115-V1 (0.000-7.071)	KK120/4	7.071	100.736
C116-V1 (0.000-7.071)	KK120/4	7.071	100.736
C117-V1 (0.000-7.071)	KK120/4	7.071	100.736
C118-V1 (0.000-7.071)	KK120/4	7.071	100.736
C119-V1 (0.000-7.071)	KK120/4	7.071	100.736
C11-V1 (0.000-5.000)	KK120/4	5.000	71.231
C120-V1 (0.000-7.071)	KK120/4	7.071	100.736
C121-V1 (0.000-7.071)	KK120/4	7.071	100.736
C122-V1 (0.000-7.071)	KK120/4	7.071	100.736
C123-V1 (0.000-7.071)	KK120/4	7.071	100.736
C124-V1 (0.000-7.071)	KK120/4	7.071	100.736
C125-V1 (0.000-7.071)	KK120/4	7.071	100.736
C126-V1 (0.000-7.071)	KK120/4	7.071	100.736
C127-V1 (0.000-7.071)	KK120/4	7.071	100.736
C128-V1 (0.000-7.071)	KK120/4	7.071	100.736
C129-V1 (0.000-7.071)	KK120/4	7.071	100.736
C12-V1 (0.000-5.000)	KK120/4	5.000	71.231
C130-V1 (0.000-7.071)	KK120/4	7.071	100.736
C131-V1 (0.000-7.071)	KK120/4	7.071	100.736
C132-V1 (0.000-7.071)	KK120/4	7.071	100.736
C133-V1 (0.000-7.071)	KK120/4	7.071	100.736
C134-V1 (0.000-7.071)	KK120/4	7.071	100.736
C135-V1 (0.000-7.071)	KK120/4	7.071	100.736
C136-V1 (0.000-7.071)	KK120/4	7.071	100.736
C137-V1 (0.000-7.071)	KK120/4	7.071	100.736
C138-V1 (0.000-5.000)	KK120/4	5.000	71.231
C139-V1 (0.000-5.000)	KK120/4	5.000	71.231
C13-V1 (0.000-5.000)	KK120/4	5.000	71.231
C140-V1 (0.000-5.000)	KK120/4	5.000	71.231
C141-V1 (0.000-5.000)	KK120/4	5.000	71.231
C142-V1 (0.000-5.000)	KK120/4	5.000	71.231
C143-V1 (0.000-5.000)	KK120/4	5.000	71.231
C144-V1 (0.000-5.000)	KK120/4	5.000	71.231
C145-V1 (0.000-5.000)	KK120/4	5.000	71.231
C146-V1 (0.000-5.000)	KK120/4	5.000	71.231
C147-V1 (0.000-5.000)	KK120/4	5.000	71.231
C148-V1 (0.000-5.000)	KK120/4	5.000	71.231
C149-V1 (0.000-5.000)	KK120/4	5.000	71.231
C14-V1 (0.000-5.000)	KK120/4	5.000	71.231
C150-V1 (0.000-5.000)	KK120/4	5.000	71.231
C151-V1 (0.000-5.000)	KK120/4	5.000	71.231
C152-V1 (0.000-5.000)	KK120/4	5.000	71.231
C153-V1 (0.000-5.000)	KK120/4	5.000	71.231
C154-V1 (0.000-5.000)	KK120/4	5.000	71.231
C155-V1 (0.000-5.000)	KK120/4	5.000	71.231
C156-V1 (0.000-5.000)	KK120/4	5.000	71.231
C157-V1 (0.000-5.000)	KK120/4	5.000	71.231
C158-V1 (0.000-5.000)	KK120/4	5.000	71.231
C159-V1 (0.000-5.000)	KK120/4	5.000	71.231
C15-V1 (0.000-5.000)	KK120/4	5.000	71.231
C160-V1 (0.000-5.000)	KK120/4	5.000	71.231
C161-V1 (0.000-5.000)	KK120/4	5.000	71.231
C162-V1 (0.000-5.000)	KK120/4	5.000	71.231
C163-V1 (0.000-5.000)	KK120/4	5.000	71.231
C164-V1 (0.000-5.000)	KK120/4	5.000	71.231
C165-V1 (0.000-5.000)	KK120/4	5.000	71.231
C166-V1 (0.000-5.000)	KK120/4	5.000	71.231
C167-V1 (0.000-5.000)	KK120/4	5.000	71.231

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
C168-V1 (0.000-5.000)	KK120/4	5.000	71.231
C169-V1 (0.000-5.000)	KK120/4	5.000	71.231
C16-V1 (0.000-5.000)	KK120/4	5.000	71.231
C170-V1 (0.000-5.000)	KK120/4	5.000	71.231
C171-V1 (0.000-5.000)	KK120/4	5.000	71.231
C172-V1 (0.000-5.000)	KK120/4	5.000	71.231
C173-V1 (0.000-5.000)	KK120/4	5.000	71.231
C174-V1 (0.000-5.000)	KK120/4	5.000	71.231
C175-V1 (0.000-5.000)	KK120/4	5.000	71.231
C176-V1 (0.000-5.000)	KK120/4	5.000	71.231
C177-V1 (0.000-5.000)	KK120/4	5.000	71.231
C178-V1 (0.000-5.000)	KK120/4	5.000	71.231
C179-V1 (0.000-5.000)	KK120/4	5.000	71.231
C17-V1 (0.000-5.000)	KK120/4	5.000	71.231
C180-V1 (0.000-5.000)	KK120/4	5.000	71.231
C181-V1 (0.000-5.000)	KK120/4	5.000	71.231
C182-V1 (0.000-5.000)	KK120/4	5.000	71.231
C183-V1 (0.000-5.000)	KK120/4	5.000	71.231
C184-V1 (0.000-5.000)	KK120/4	5.000	71.231
C18-V1 (0.000-5.000)	KK120/4	5.000	71.231
C19-V1 (0.000-5.000)	KK120/4	5.000	71.231
C1-V1 (0.000-5.000)	KK120/4	5.000	71.231
C20-V1 (0.000-5.000)	KK120/4	5.000	71.231
C21-V1 (0.000-5.000)	KK120/4	5.000	71.231
C22-V1 (0.000-5.000)	KK120/4	5.000	71.231
C23-V1 (0.000-5.000)	KK120/4	5.000	71.231
C24-V1 (0.000-5.000)	KK120/4	5.000	71.231
C25-V1 (0.000-5.000)	KK120/4	5.000	71.231
C26-V1 (0.000-5.000)	KK120/4	5.000	71.231
C27-V1 (0.000-5.000)	KK120/4	5.000	71.231
C28-V1 (0.000-5.000)	KK120/4	5.000	71.231
C29-V1 (0.000-5.000)	KK120/4	5.000	71.231
C2-V1 (0.000-5.000)	KK120/4	5.000	71.231
C30-V1 (0.000-5.000)	KK120/4	5.000	71.231
C31-V1 (0.000-5.000)	KK120/4	5.000	71.231
C32-V1 (0.000-5.000)	KK120/4	5.000	71.231
C33-V1 (0.000-5.000)	KK120/4	5.000	71.231
C34-V1 (0.000-5.000)	KK120/4	5.000	71.231
C35-V1 (0.000-5.000)	KK120/4	5.000	71.231
C36-V1 (0.000-5.000)	KK120/4	5.000	71.231
C37-V1 (0.000-5.000)	KK120/4	5.000	71.231
C38-V1 (0.000-5.000)	KK120/4	5.000	71.231
C39-V1 (0.000-5.000)	KK120/4	5.000	71.231
C3-V1 (0.000-5.000)	KK120/4	5.000	71.231
C40-V1 (0.000-5.000)	KK120/4	5.000	71.231
C41-V1 (0.000-5.000)	KK120/4	5.000	71.231
C42-V1 (0.000-5.000)	KK120/4	5.000	71.231
C43-V1 (0.000-5.000)	KK120/4	5.000	71.231
C44-V1 (0.000-5.000)	KK120/4	5.000	71.231
C45-V1 (0.000-5.000)	KK120/4	5.000	71.231
C46-V1 (0.000-5.000)	KK120/4	5.000	71.231
C47-V1 (0.000-5.000)	KK120/4	5.000	71.231
C48-V1 (0.000-5.000)	KK120/4	5.000	71.231
C49-V1 (0.000-5.000)	KK120/4	5.000	71.231
C4-V1 (0.000-5.000)	KK120/4	5.000	71.231
C50-V1 (0.000-5.000)	KK120/4	5.000	71.231
C51-V1 (0.000-5.000)	KK120/4	5.000	71.231
C52-V1 (0.000-5.000)	KK120/4	5.000	71.231
C53-V1 (0.000-5.000)	KK120/4	5.000	71.231
C54-V1 (0.000-5.000)	KK120/4	5.000	71.231
C55-V1 (0.000-5.000)	KK120/4	5.000	71.231

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
C56-V1 (0.000-5.000)	KK120/4	5.000	71.231
C57-V1 (0.000-5.000)	KK120/4	5.000	71.231
C58-V1 (0.000-5.000)	KK120/4	5.000	71.231
C59-V1 (0.000-5.000)	KK120/4	5.000	71.231
C5-V1 (0.000-5.000)	KK120/4	5.000	71.231
C60-V1 (0.000-5.000)	KK120/4	5.000	71.231
C6-V1 (0.000-5.000)	KK120/4	5.000	71.231
C73-V1 (0.000-5.000)	KK120/4	5.000	71.231
C74-V1 (0.000-5.000)	KK120/4	5.000	71.231
C75-V1 (0.000-5.000)	KK120/4	5.000	71.231
C76-V1 (0.000-5.000)	KK120/4	5.000	71.231
C77-V1 (0.000-5.000)	KK120/4	5.000	71.231
C79-V1 (0.000-5.000)	KK120/4	5.000	71.231
C7-V1 (0.000-5.000)	KK120/4	5.000	71.231
C81-V1 (0.000-5.000)	KK120/4	5.000	71.231
C83-V1 (0.000-5.000)	KK120/4	5.000	71.231
C85-V1 (0.000-5.000)	KK120/4	5.000	71.231
C87-V1 (0.000-5.000)	KK120/4	5.000	71.231
C89-V1 (0.000-5.000)	KK120/4	5.000	71.231
C8-V1 (0.000-5.000)	KK120/4	5.000	71.231
C91-V1 (0.000-5.000)	KK120/4	5.000	71.231
C93-V1 (0.000-5.000)	KK120/4	5.000	71.231
C95-V1 (0.000-5.000)	KK120/4	5.000	71.231
C97-V1 (0.000-5.000)	KK120/4	5.000	71.231
C99-V1 (0.000-5.000)	KK120/4	5.000	71.231
C9-V1 (0.000-5.000)	KK120/4	5.000	71.231
Subtotaal:	KK120/4	879.558	12.530.324
Totaal:		939.558 m	14.661.665 kg

KA.C. OPLEGREACTIES 1ST ITER

B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.(w1) O1 (1e)		K1	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.(w1) O2 (1e)		K2	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O3 (1e)		K3	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O4 (1e)		K4	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O5 (1e)		K5	0.00	0.00	-2.00	0.00	0.00	0.00
Ka.C.(w1) O6 (1e)		K6	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O7 (1e)		K7	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O8 (1e)		K8	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O9 (1e)		K9	0.00	0.00	-2.00	0.00	0.00	0.00
Ka.C.(w1) O10 (1e)		K10	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O11 (1e)		K11	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O12 (1e)		K12	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.(w1) O13 (1e)		K13	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.(w1) O14 (1e)		K14	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O15 (1e)		K15	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.(w1) O16 (1e)		K16	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.(w1) O17 (1e)		K17	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.(w1) O18 (1e)		K18	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.(w1) O19 (1e)		K19	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.(w1) O20 (1e)		K20	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.(w1) O21 (1e)		K21	0.00	0.00	-2.53	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.(w1) O22 (1e)		K22	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.(w1) O23 (1e)		K23	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.(w1) O24 (1e)		K24	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.(w1) O25 (1e)		K25	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.(w1) O26 (1e)		K26	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O27 (1e)		K27	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O28 (1e)		K28	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O29 (1e)		K29	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.(w1) O30 (1e)		K30	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O31 (1e)		K31	0.00	0.00	-1.40	0.00	0.00	0.00
Ka.C.(w1) O32 (1e)		K32	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O33 (1e)		K33	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.(w1) O34 (1e)		K34	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O35 (1e)		K35	0.00	0.00	-1.40	0.00	0.00	0.00
Ka.C.(w1) O36 (1e)		K36	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O37 (1e)		K37	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.(w1) O38 (1e)		K38	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O39 (1e)		K39	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O40 (1e)		K40	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O41 (1e)		K41	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O42 (1e)		K42	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O43 (1e)		K43	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O44 (1e)		K44	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O45 (1e)		K45	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O46 (1e)		K46	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O47 (1e)		K47	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O48 (1e)		K48	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O49 (1e)		K49	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O50 (1e)		K50	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.(w1) O51 (1e)		K51	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.(w1) O52 (1e)		K52	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.(w1) O53 (1e)		K53	0.00	0.00	-2.08	0.00	0.00	0.00
Ka.C.(w1) O54 (1e)		K54	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) O55 (1e)		K55	0.00	0.00	-2.52	0.00	0.00	0.00
Ka.C.(w1) O56 (1e)		K56	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) O57 (1e)		K57	0.00	0.00	-3.53	0.00	0.00	0.00
Ka.C.(w1) O58 (1e)		K58	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) O59 (1e)		K59	0.00	0.00	-2.52	0.00	0.00	0.00
Ka.C.(w1) O60 (1e)		K60	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) O61 (1e)		K61	0.00	0.00	-3.53	0.00	0.00	0.00
Ka.C.(w1) O62 (1e)		K62	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) O63 (1e)		K63	0.00	0.00	-2.52	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.(w1) (1e)	O64	K64	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.(w1) (1e)	O65	K65	0.00	0.00	-2.08	0.00	0.00	0.00
Ka.C.(w1) (1e)	O66	K66	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.(w1) (1e)	O67	K67	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O68	K68	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.(w1) (1e)	O69	K69	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O70	K70	0.00	0.00	-2.05	0.00	0.00	0.00
Ka.C.(w1) (1e)	O71	K71	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O72	K72	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.(w1) (1e)	O73	K73	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O74	K74	0.00	0.00	-2.05	0.00	0.00	0.00
Ka.C.(w1) (1e)	O75	K75	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O76	K76	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.(w1) (1e)	O77	K77	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.(w1) (1e)	O78	K78	0.00	0.00	-1.24	0.00	0.00	0.00
Som Reacties			0.00	0.00	-146.62			
Som Lasten			0.00	0.00	146.62			
Ka.C.1 (1e)	O1	K1	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.1 (1e)	O2	K2	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O3	K3	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O4	K4	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O5	K5	0.00	0.00	-2.00	0.00	0.00	0.00
Ka.C.1 (1e)	O6	K6	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O7	K7	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O8	K8	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O9	K9	0.00	0.00	-2.00	0.00	0.00	0.00
Ka.C.1 (1e)	O10	K10	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O11	K11	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O12	K12	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.1 (1e)	O13	K13	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.1 (1e)	O14	K14	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.1 (1e)	O15	K15	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O16	K16	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.1 (1e)	O17	K17	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O18	K18	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.1 (1e)	O19	K19	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O20	K20	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.1 (1e)	O21	K21	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O22	K22	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.1 (1e)	O23	K23	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O24	K24	0.00	0.00	-1.52	0.00	0.00	0.00
Ka.C.1 (1e)	O25	K25	0.00	0.00	-2.53	0.00	0.00	0.00
Ka.C.1 (1e)	O26	K26	0.00	0.00	-1.07	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.1 (1e)	O27	K27	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.1 (1e)	O28	K28	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O29	K29	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.1 (1e)	O30	K30	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O31	K31	0.00	0.00	-1.40	0.00	0.00	0.00
Ka.C.1 (1e)	O32	K32	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O33	K33	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.1 (1e)	O34	K34	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O35	K35	0.00	0.00	-1.40	0.00	0.00	0.00
Ka.C.1 (1e)	O36	K36	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O37	K37	0.00	0.00	-3.42	0.00	0.00	0.00
Ka.C.1 (1e)	O38	K38	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O39	K39	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.1 (1e)	O40	K40	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.1 (1e)	O41	K41	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O42	K42	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O43	K43	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O44	K44	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O45	K45	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O46	K46	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O47	K47	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O48	K48	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O49	K49	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O50	K50	0.00	0.00	-1.41	0.00	0.00	0.00
Ka.C.1 (1e)	O51	K51	0.00	0.00	-2.42	0.00	0.00	0.00
Ka.C.1 (1e)	O52	K52	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.1 (1e)	O53	K53	0.00	0.00	-2.08	0.00	0.00	0.00
Ka.C.1 (1e)	O54	K54	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O55	K55	0.00	0.00	-2.52	0.00	0.00	0.00
Ka.C.1 (1e)	O56	K56	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O57	K57	0.00	0.00	-3.53	0.00	0.00	0.00
Ka.C.1 (1e)	O58	K58	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O59	K59	0.00	0.00	-2.52	0.00	0.00	0.00
Ka.C.1 (1e)	O60	K60	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O61	K61	0.00	0.00	-3.53	0.00	0.00	0.00
Ka.C.1 (1e)	O62	K62	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O63	K63	0.00	0.00	-2.52	0.00	0.00	0.00
Ka.C.1 (1e)	O64	K64	0.00	0.00	-1.51	0.00	0.00	0.00
Ka.C.1 (1e)	O65	K65	0.00	0.00	-2.08	0.00	0.00	0.00
Ka.C.1 (1e)	O66	K66	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.1 (1e)	O67	K67	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O68	K68	0.00	0.00	-2.06	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.1 (1e)	O69	K69	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O70	K70	0.00	0.00	-2.05	0.00	0.00	0.00
Ka.C.1 (1e)	O71	K71	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O72	K72	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.1 (1e)	O73	K73	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O74	K74	0.00	0.00	-2.05	0.00	0.00	0.00
Ka.C.1 (1e)	O75	K75	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O76	K76	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.1 (1e)	O77	K77	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.1 (1e)	O78	K78	0.00	0.00	-1.24	0.00	0.00	0.00
Som Reacties			0.00	0.00	-146.62			
Som Lasten			0.00	0.00	146.62			
Ka.C.2 (1e)	O1	K1	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.2 (1e)	O2	K2	0.00	0.00	-0.99	0.00	0.00	-0.44
Ka.C.2 (1e)	O3	K3	-55.59	0.00	-0.99	0.00	0.00	0.00
Ka.C.2 (1e)	O4	K4	0.00	0.00	-0.99	0.00	0.00	-0.42
Ka.C.2 (1e)	O5	K5	0.00	0.00	-2.00	0.00	0.00	-0.34
Ka.C.2 (1e)	O6	K6	-47.10	0.00	-0.99	0.00	0.00	0.00
Ka.C.2 (1e)	O7	K7	0.00	0.00	-0.99	0.00	0.00	0.00
Ka.C.2 (1e)	O8	K8	-49.98	0.00	-0.99	0.00	0.00	0.00
Ka.C.2 (1e)	O9	K9	0.00	0.00	-2.00	0.00	0.00	-0.31
Ka.C.2 (1e)	O10	K10	0.00	0.00	-0.99	0.00	0.00	-0.37
Ka.C.2 (1e)	O11	K11	-60.94	0.00	-0.99	0.00	0.00	0.00
Ka.C.2 (1e)	O12	K12	0.00	0.00	-0.99	0.00	0.00	-0.38
Ka.C.2 (1e)	O13	K13	0.00	0.00	-1.22	0.00	0.00	0.00
Ka.C.2 (1e)	O14	K14	0.00	25.36	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O15	K15	0.00	0.00	-2.53	0.00	0.00	-0.64
Ka.C.2 (1e)	O16	K16	0.00	0.00	-1.52	0.00	0.00	-0.44
Ka.C.2 (1e)	O17	K17	0.00	0.00	-2.53	0.00	0.00	-0.61
Ka.C.2 (1e)	O18	K18	0.00	0.00	-1.52	0.00	0.00	-0.53
Ka.C.2 (1e)	O19	K19	0.00	0.00	-2.53	0.00	0.00	-0.41
Ka.C.2 (1e)	O20	K20	0.00	0.00	-1.52	0.00	0.00	-0.40
Ka.C.2 (1e)	O21	K21	0.00	0.00	-2.53	0.00	0.00	-0.40
Ka.C.2 (1e)	O22	K22	0.00	0.00	-1.52	0.00	0.00	-0.49
Ka.C.2 (1e)	O23	K23	0.00	0.00	-2.53	0.00	0.00	-0.56
Ka.C.2 (1e)	O24	K24	0.00	0.00	-1.52	0.00	0.00	-0.39
Ka.C.2 (1e)	O25	K25	0.00	0.00	-2.53	0.00	0.00	-0.55
Ka.C.2 (1e)	O26	K26	0.00	-31.51	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O27	K27	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O28	K28	0.00	0.00	-1.41	0.00	0.00	-0.38
Ka.C.2 (1e)	O29	K29	0.00	0.00	-3.42	0.00	0.00	-0.37
Ka.C.2 (1e)	O30	K30	0.00	0.00	-1.41	0.00	0.00	-0.36
Ka.C.2 (1e)	O31	K31	0.00	0.00	-1.40	0.00	0.00	-0.36

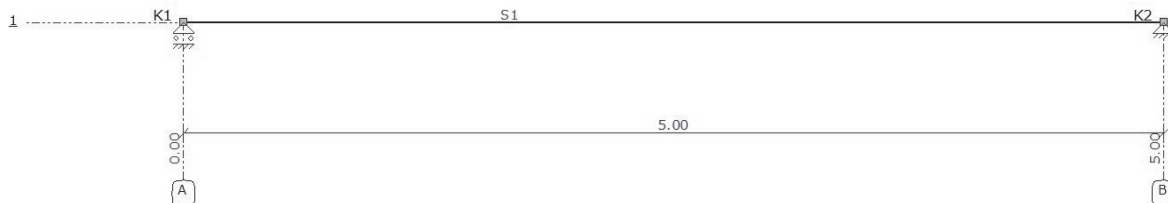
Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.2 (1e)	O32	K32	0.00	0.00	-1.41	0.00	0.00	-0.36
Ka.C.2 (1e)	O33	K33	0.00	0.00	-3.42	0.00	0.00	-0.35
Ka.C.2 (1e)	O34	K34	0.00	0.00	-1.41	0.00	0.00	-0.34
Ka.C.2 (1e)	O35	K35	0.00	0.00	-1.40	0.00	0.00	-0.33
Ka.C.2 (1e)	O36	K36	0.00	0.00	-1.41	0.00	0.00	-0.33
Ka.C.2 (1e)	O37	K37	0.00	0.00	-3.42	0.00	0.00	-0.32
Ka.C.2 (1e)	O38	K38	0.00	0.00	-1.41	0.00	0.00	-0.32
Ka.C.2 (1e)	O39	K39	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O40	K40	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O41	K41	0.00	0.00	-2.42	0.00	0.00	-0.45
Ka.C.2 (1e)	O42	K42	0.00	0.00	-1.41	0.00	0.00	-0.48
Ka.C.2 (1e)	O43	K43	0.00	0.00	-2.42	0.00	0.00	-0.43
Ka.C.2 (1e)	O44	K44	0.00	0.00	-1.41	0.00	0.00	-0.38
Ka.C.2 (1e)	O45	K45	0.00	0.00	-2.42	0.00	0.00	-0.39
Ka.C.2 (1e)	O46	K46	0.00	0.00	-1.41	0.00	0.00	-0.40
Ka.C.2 (1e)	O47	K47	0.00	0.00	-2.42	0.00	0.00	-0.35
Ka.C.2 (1e)	O48	K48	0.00	0.00	-1.41	0.00	0.00	-0.30
Ka.C.2 (1e)	O49	K49	0.00	0.00	-2.42	0.00	0.00	-0.31
Ka.C.2 (1e)	O50	K50	0.00	0.00	-1.41	0.00	0.00	-0.33
Ka.C.2 (1e)	O51	K51	0.00	0.00	-2.42	0.00	0.00	-0.29
Ka.C.2 (1e)	O52	K52	0.00	0.00	-1.07	0.00	0.00	0.00
Ka.C.2 (1e)	O53	K53	0.00	38.61	-2.08	0.00	0.00	0.00
Ka.C.2 (1e)	O54	K54	0.00	0.00	-1.51	0.00	0.00	-0.45
Ka.C.2 (1e)	O55	K55	0.00	0.00	-2.52	0.00	0.00	-0.40
Ka.C.2 (1e)	O56	K56	0.00	0.00	-1.51	0.00	0.00	-0.35
Ka.C.2 (1e)	O57	K57	0.00	0.00	-3.53	0.00	0.00	-0.32
Ka.C.2 (1e)	O58	K58	0.00	0.00	-1.51	0.00	0.00	-0.29
Ka.C.2 (1e)	O59	K59	0.00	0.00	-2.52	0.00	0.00	-0.26
Ka.C.2 (1e)	O60	K60	0.00	0.00	-1.51	0.00	0.00	-0.24
Ka.C.2 (1e)	O61	K61	0.00	0.00	-3.53	0.00	0.00	-0.21
Ka.C.2 (1e)	O62	K62	0.00	0.00	-1.51	0.00	0.00	-0.19
Ka.C.2 (1e)	O63	K63	0.00	0.00	-2.52	0.00	0.00	-0.17
Ka.C.2 (1e)	O64	K64	0.00	0.00	-1.51	0.00	0.00	-0.15
Ka.C.2 (1e)	O65	K65	0.00	-32.46	-2.08	0.00	0.00	0.00
Ka.C.2 (1e)	O66	K66	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.2 (1e)	O67	K67	0.00	0.00	-3.07	0.00	0.00	-0.17
Ka.C.2 (1e)	O68	K68	0.00	0.00	-2.06	0.00	0.00	-0.10
Ka.C.2 (1e)	O69	K69	0.00	0.00	-3.07	0.00	0.00	-0.09
Ka.C.2 (1e)	O70	K70	0.00	0.00	-2.05	0.00	0.00	-0.11
Ka.C.2 (1e)	O71	K71	0.00	0.00	-3.07	0.00	0.00	-0.07
Ka.C.2 (1e)	O72	K72	0.00	0.00	-2.06	0.00	0.00	-0.03
Ka.C.2 (1e)	O73	K73	0.00	0.00	-3.07	0.00	0.00	-0.04

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.2 (1e)	O74	K74	0.00	0.00	-2.05	0.00	0.00	-0.06
Ka.C.2 (1e)	O75	K75	0.00	0.00	-3.07	0.00	0.00	-0.02
Ka.C.2 (1e)	O76	K76	0.00	0.00	-2.06	0.00	0.00	0.00
Ka.C.2 (1e)	O77	K77	0.00	0.00	-3.07	0.00	0.00	0.00
Ka.C.2 (1e)	O78	K78	0.00	0.00	-1.24	0.00	0.00	0.00
	Som Reacties		-213.60	0.00	-146.62			
	Som Lasten		213.60	0.00	146.62			
-	-	-	kN	kN	kN	kNm	kNm	kNm

Koppelligger		Novares Constructeurs	
Bijlage B			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	DvV
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\koppelligger B.mxf		

AFB. GEOMETRIE 1 STAVEN EN KNOPEN



STAVEN

Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S1	K1	NVM	NVM	K2	P1	0.000	0.000	5.000	0.000	5.000
-	-	-	-	-	-	m	m	m	m	m

AFB. GEOMETRIE 2 STAVEN EN KNOPEN



PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly	Materiaal	Hoek
P1	KK60/5	1.0356e-03	5.0494e-07	S235H(EN10219-1)	0
-	-	m2	m4	-	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	C'm

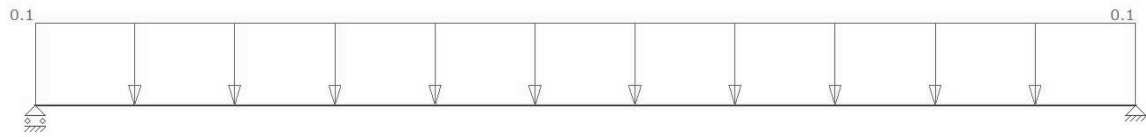
OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vrij	vast	vrij	0
O2	K2	vast	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4
B.G.1	Permanent	1.20	0.90	1.35	0.90
B.G.2	Windbelasting	1.50	1.50	-	-
B.G.3	Kniklengte (Assymetrisch)	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Windbelasting	-	0.20
B.G.3	Kniklengte (Assymetrisch)	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-

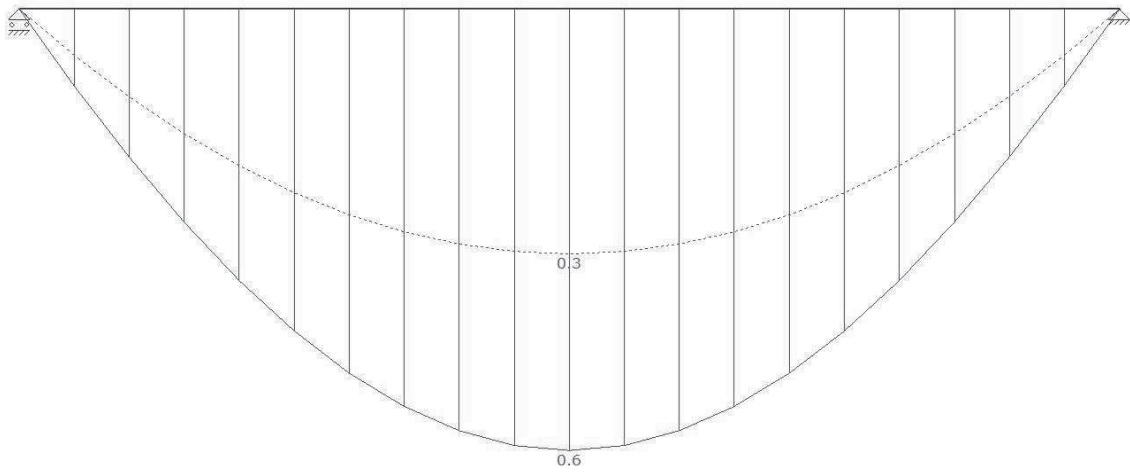
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

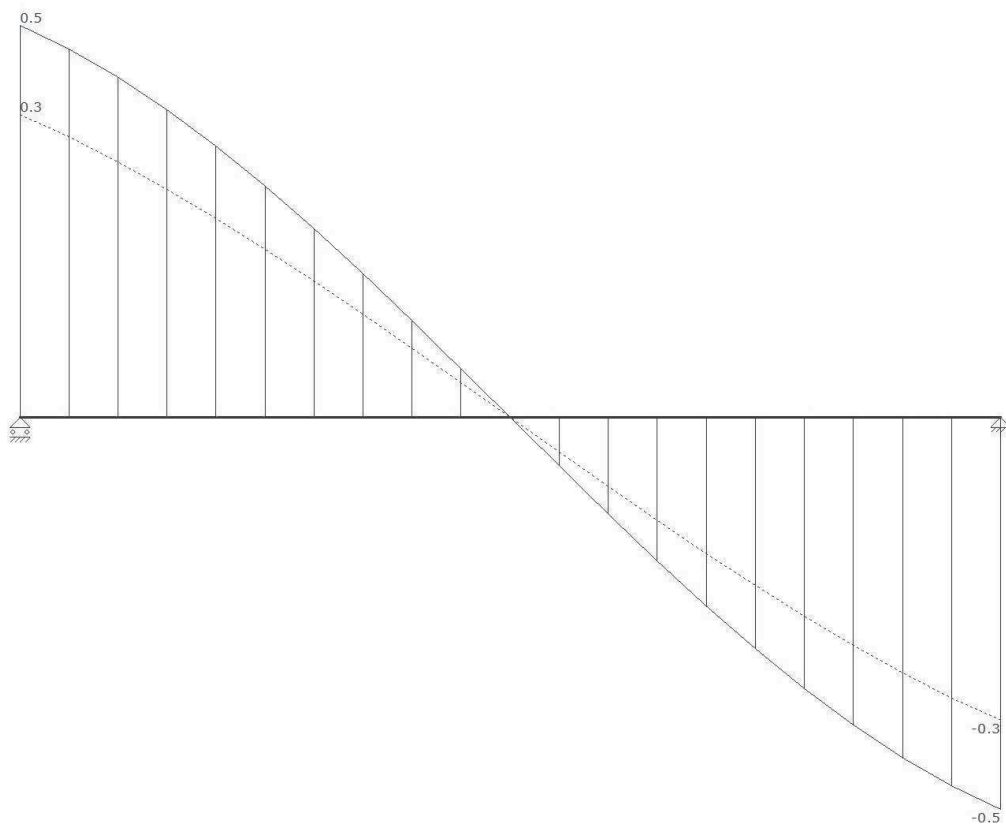
AFB. F.U.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



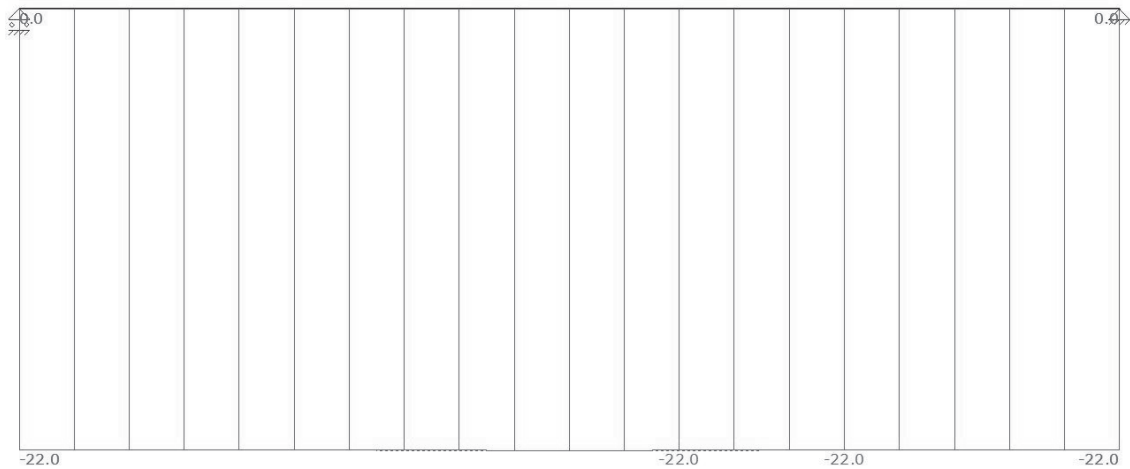
AFB. F.U.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. OPLEGREACTIES OMHULLENDE

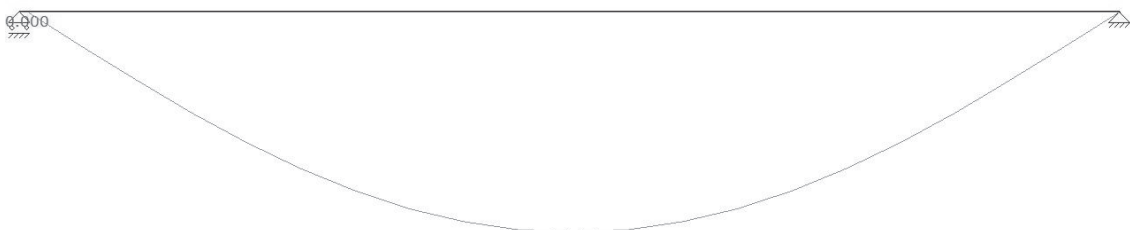
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES ANALYSE**

Oplegging	Knoop	B.C.	Xmax	Z	My B.C.	X	Zmax	My B.C.	X	Z	Mymax
O1	K1				Fu.C.3	0.00	-0.27	0.00			
O2	K2	Fu.C.1	-21.98	-0.24	0.00Fu.C.3	0.00	-0.27	0.00			
Globale extreme waarden											
O2	K2	Fu.C.1	-21.98	-0.24	0.00						
O2	K2				Fu.C.3	0.00	-0.27	0.00			
-	-	-	kN	kN	kNm	-	kN	kN	kNm	kN	kN

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties

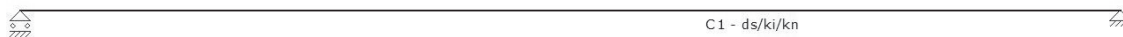


Koppelligger	Novares Constructeurs	
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KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staat	B.C.	Knoop Begin		Staat		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.2	0.000	0.000	2.500	0.0094	0.000	0.000
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staat/staven
C1	S1

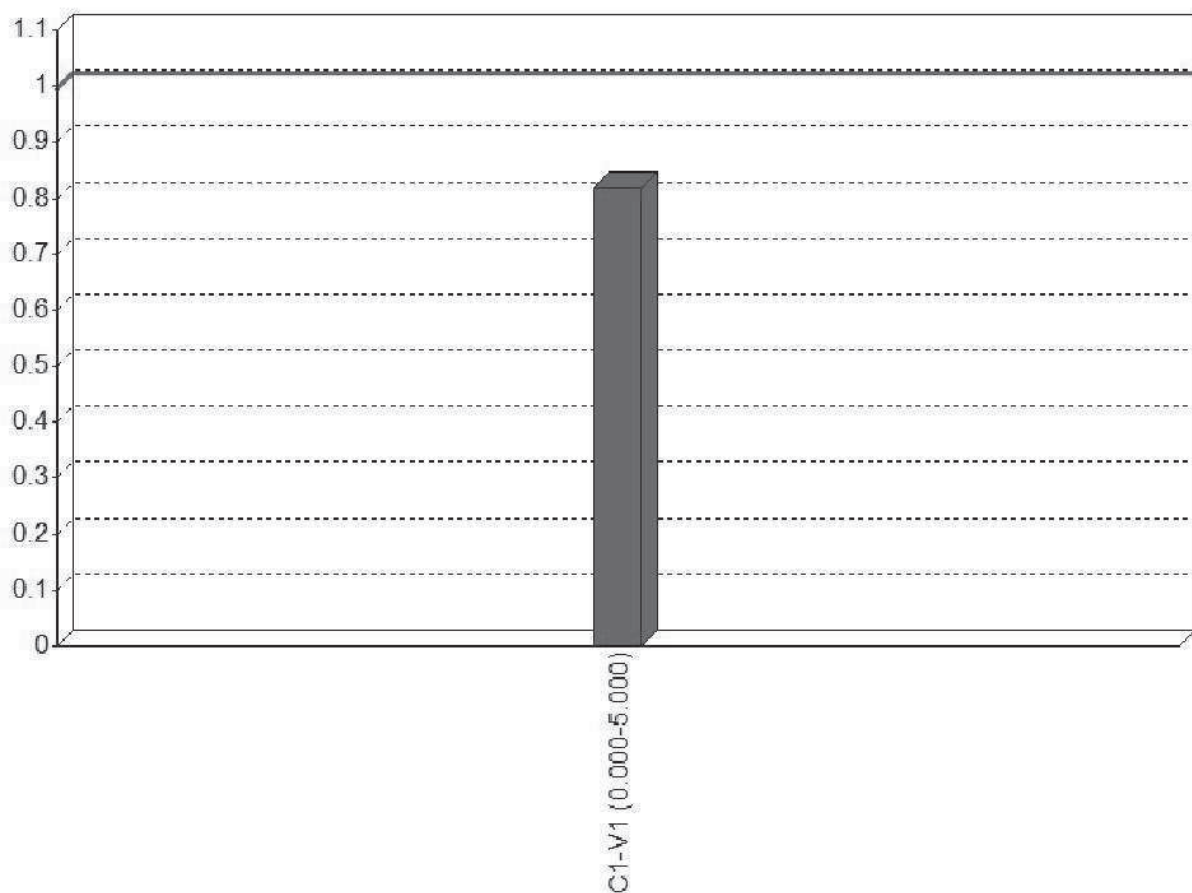
KNIKLENGTEGEGEVENS

Staat	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEGEVENS

Staat	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

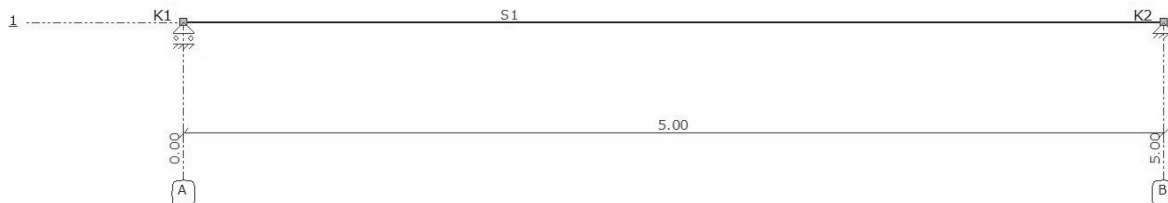
Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.13
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.64
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.64
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.82
C1-V1 (0.000-5.000)	Kiptoetsing	Fu.C.4	NEN-EN1993-1-1(6.54)	0.00

GEWICHT STAALCONSTRUCTIE

Staal	Profiel	Lsys	Massa
C1-V1 (0.000-5.000)	KK60/5	5.000	40.648
Subtotaal:	KK60/5	5.000	40.648
Totaal:		5.000 m	40.648 kg

Randligger as VV		Novares Constructeurs	
Bijlage C			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	DvV
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\randligger C.mxf		

AFB. GEOMETRIE 1 STAVEN EN KNOPEN



STAVEN

Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S1	K1	NVM	NVM	K2	P1	0.000	0.000	5.000	0.000	5.000
-	-	-	-	-	-	m	m	m	m	m

AFB. GEOMETRIE 2 STAVEN EN KNOPEN



PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly	Materiaal	Hoek
P1	HE180A	4.5251e-03	9.2461e-06	S235	90
-	-	m2	m4	-	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

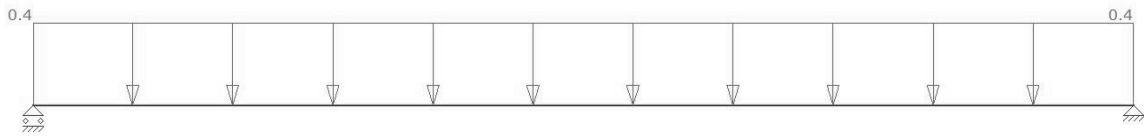
OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vrij	vast	vrij	0
O2	K2	vast	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

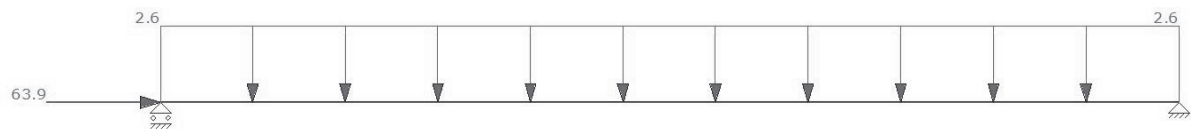
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4
B.G.1	Permanent	1.20	0.90	1.35	0.90
B.G.2	Windbelasting	1.50	1.50	-	-
B.G.3	Kniklengte (Assymetrisch)	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Windbelasting	-	0.20
B.G.3	Kniklengte (Assymetrisch)	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-

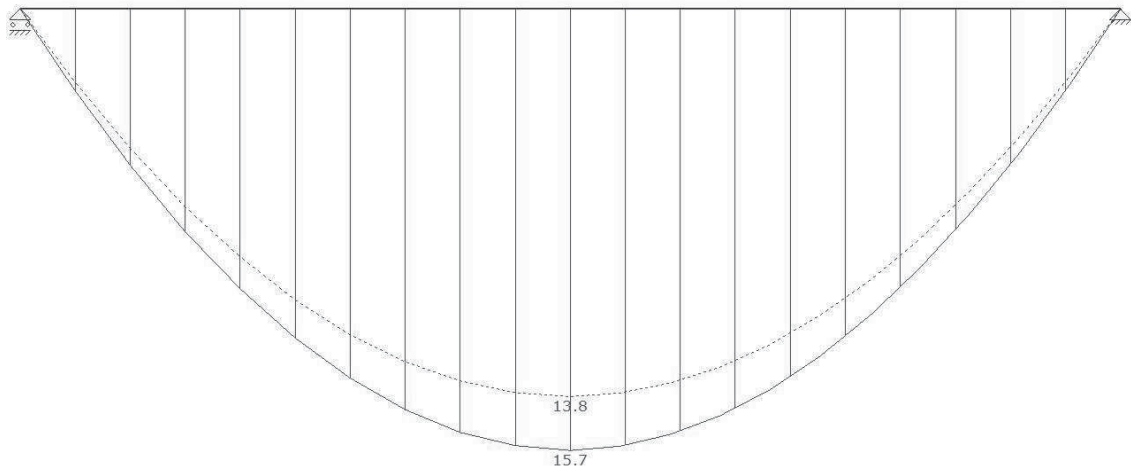
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

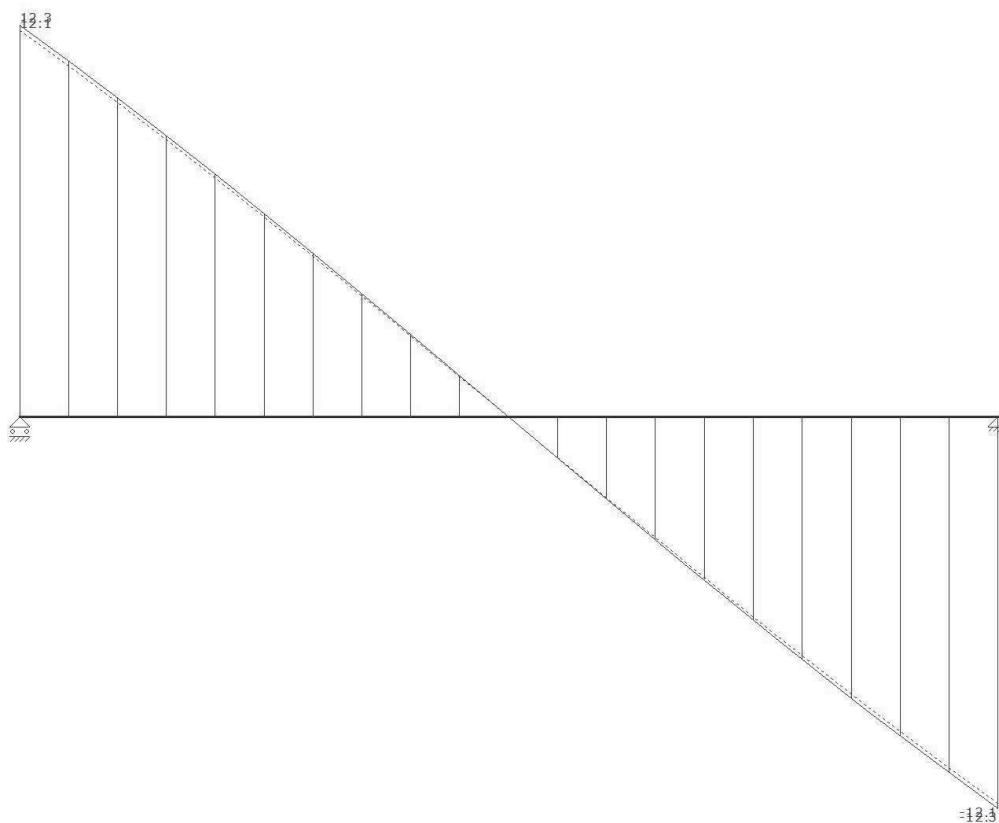
AFB. F.U.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



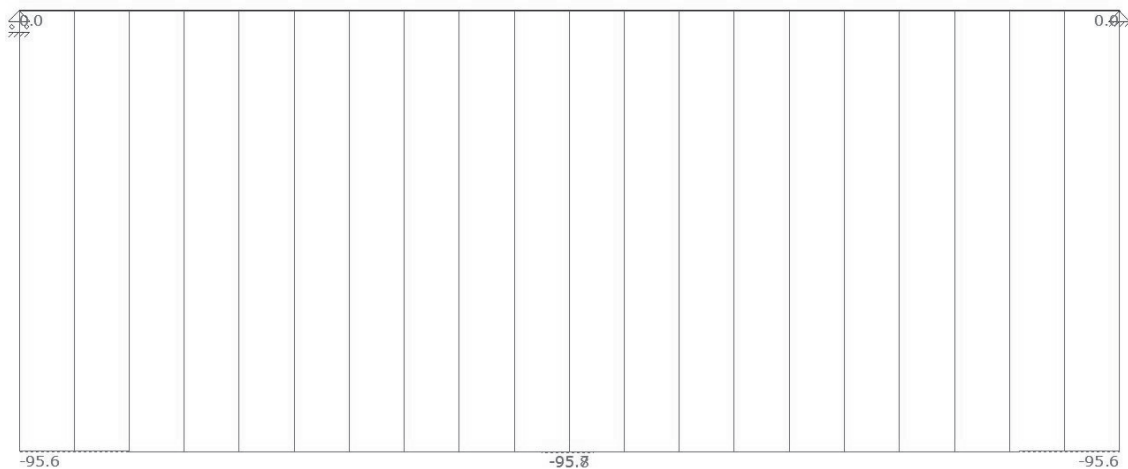
AFB. F.U.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. OPLEGREACTIES OMHULLENDE

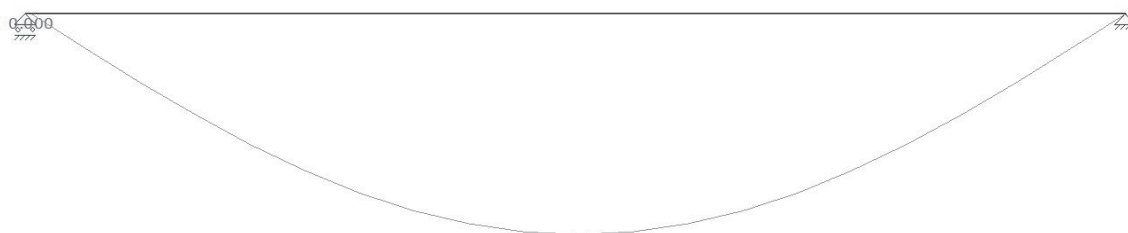
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES ANALYSE**

Oplegging	Knoop	B.C.	Xmax	Z	My B.C.	X	Zmax	My B.C.	X	Z	Mymax
O1	K1				Fu.C.1	0.00	-11.00	0.00			
O2	K2	Fu.C.1	-95.78	-11.00	0.00Fu.C.1	-95.78	-11.00	0.00			
Globale extreme waarden											
O2	K2	Fu.C.1	-95.78	-11.00	0.00						
O2	K2				Fu.C.1	-95.78	-11.00	0.00			
-	-	-	kN	kN	kNm -	kN	kN	kNm	kN	kN	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties

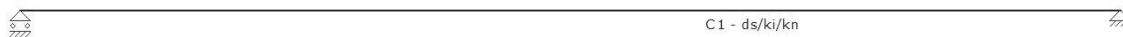


Randligger as VV	Novares Constructeurs	
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KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.2	0.000	0.000	2.500	0.0137	0.000	0.000
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C1	S1

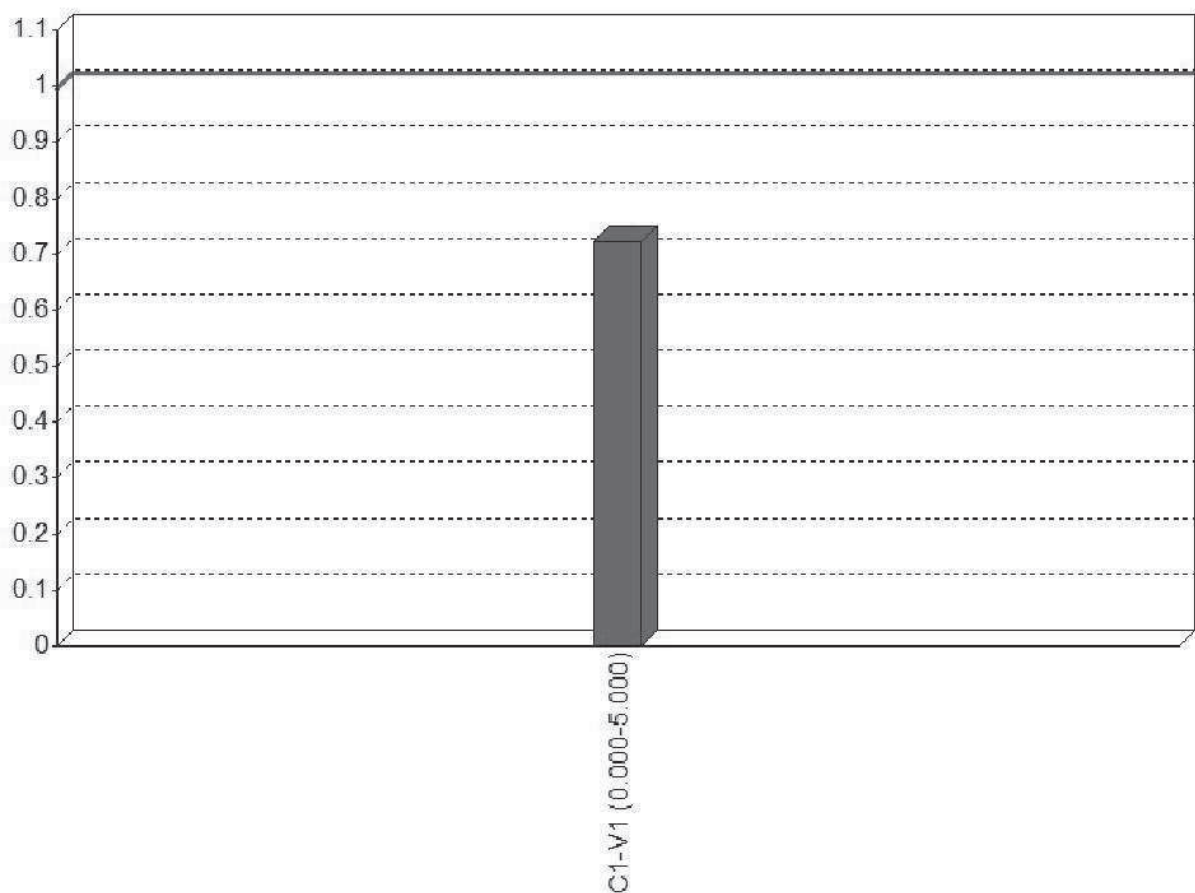
KNIKLENGTEGEGEVENS

Staaf	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENEGEGEVENS

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

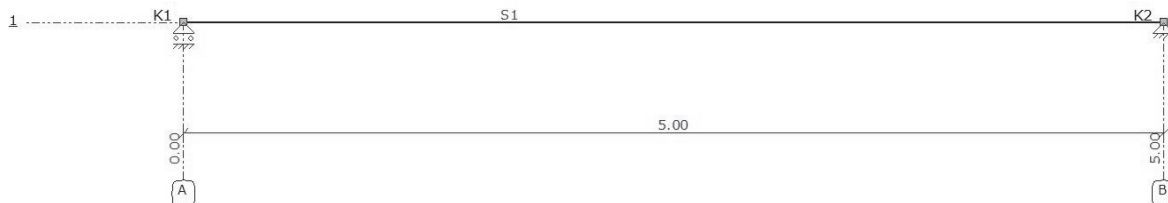
Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.43
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.20
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.72
C1-V1 (0.000-5.000)	Kiptoetsing	Fu.C.4	NEN-EN1993-1-1(6.54)	0.00

GEWICHT STAALCONSTRUCTIE

Staal	Profiel	Lsys	Massa
C1-V1 (0.000-5.000)	HE180A	5.000	177.612
Subtotaal:	HE180A	5.000	177.612
Totaal:		5.000 m	177.612 kg

Randligger as 4-16		Novares Constructeurs	
Bijlage D1			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	DvV
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\randligger D.mxf		

AFB. GEOMETRIE 1 STAVEN EN KNOPEN



STAVEN

Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S1	K1	NVM	NVM	K2	P1	0.000	0.000	5.000	0.000	5.000
-	-	-	-	-	-	m	m	m	m	m

AFB. GEOMETRIE 2 STAVEN EN KNOPEN



PROFIELEN

Profiel	Profielnaam	Oppervlakte	Iy Materiaal	Hoek
P1	HE160B	5.4251e-03	2.4920e-05 S235	0
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

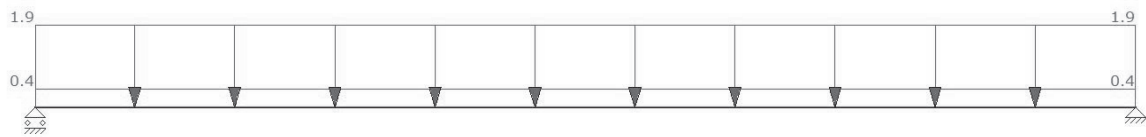
OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vrij	vast	vrij	0
O2	K2	vast	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

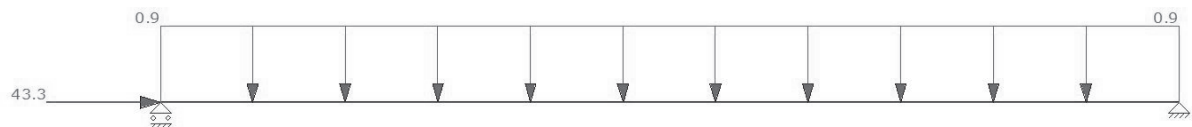
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Sneeuwbelasting	Sneeuwbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.4	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

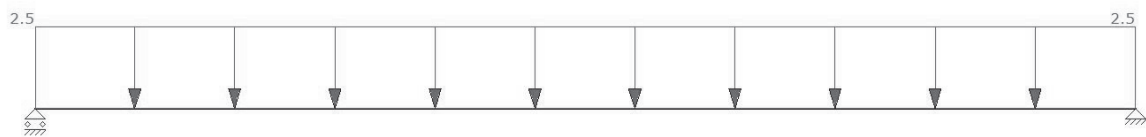
AFB. LASTEN B.G.1 PERMANENT



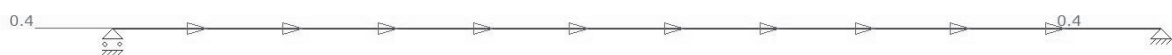
AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 SNEEUWBELASTING



AFB. LASTEN B.G.4 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5
B.G.1	Permanent	1.20	0.90	1.20	1.35	0.90
B.G.2	Windbelasting	1.50	1.50	-	-	-
B.G.3	Sneeuwbelasting	-	-	1.50	-	-
B.G.4	Kniklengte (Assymetrisch)	-	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3
B.G.1	Permanent	1.00	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00	-
B.G.3	Sneeuwbelasting	-	-	-	1.00
B.G.4	Kniklengte (Assymetrisch)	-	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1	Fr.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	0.20	-
B.G.3	Sneeuwbelasting	-	-	0.20
B.G.4	Kniklengte (Assymetrisch)	-	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

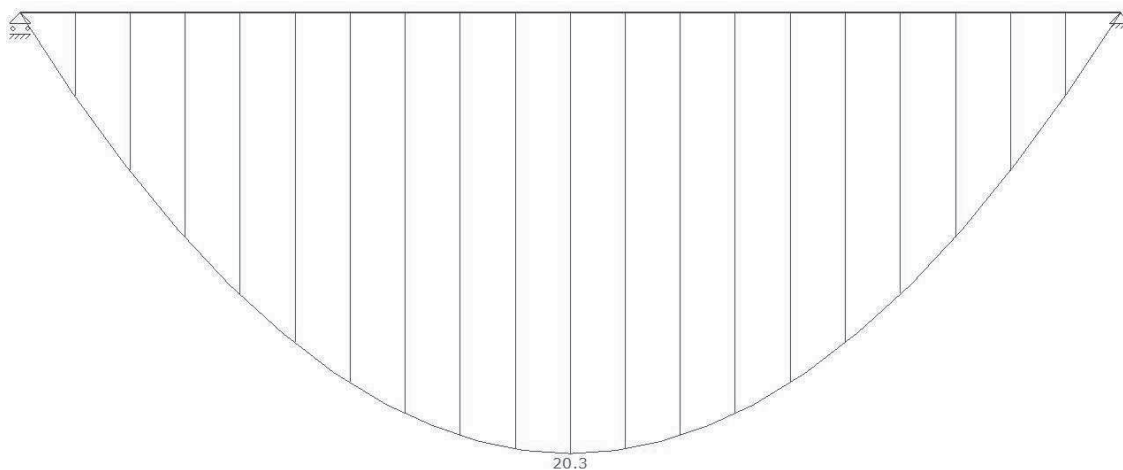
B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Sneeuwbelasting	-
B.G.4	Kniklengte (Assymetrisch)	-

UITGANGSPUNTEN VAN DE ANALYSE

Lineaire Elastische Analyse uitgevoerd

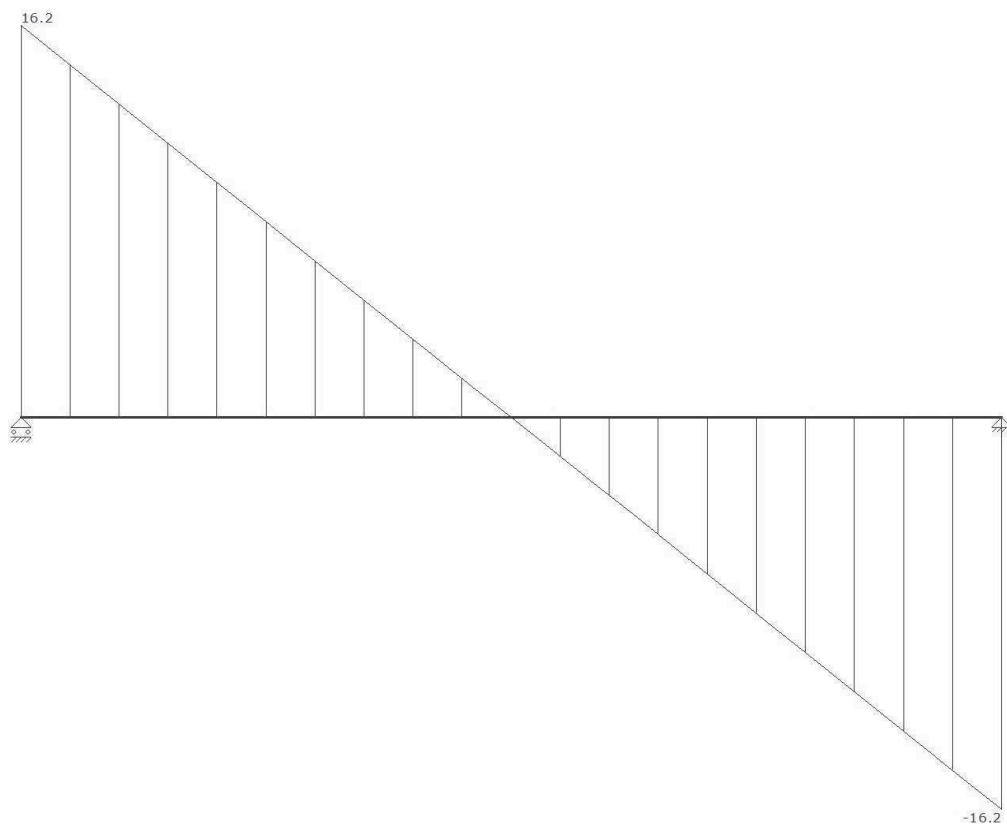
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



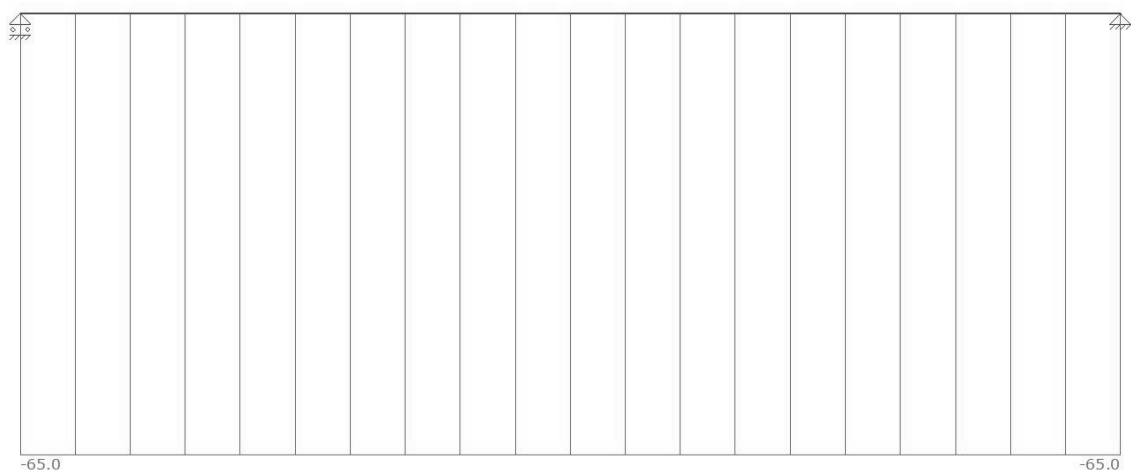
AFB. FU.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. OPLEGREACTIES OMHULLENDE

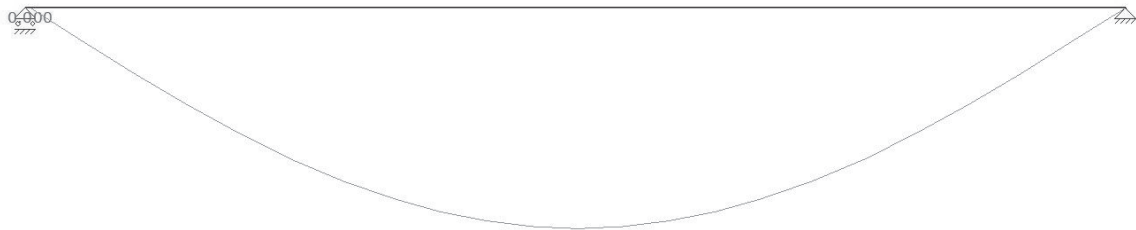
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES**

Oplegging	Knoop	B.C.	Xmax	Z	My B.C.	X	Zmax	My B.C.	X	Z Mymax
O1	K1				Fu.C.3	0.00	-16.21	0.00		
O2	K2	Fu.C.1	-64.95	-10.21	0.00Fu.C.3	0.00	-16.21	0.00		
Globale extreme waarden										
O2	K2	Fu.C.1	-64.95	-10.21	0.00					
O2	K2				Fu.C.3	0.00	-16.21	0.00		
-	-	-	kN	kN	kNm	-	kN	kNm	kN	kN kNm

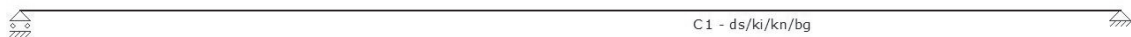
AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties

**KA.C. EXTREME DOORBUIGINGEN**

Staat	B.C.	Knoop Begin		Staat		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.3	0.000	0.000	2.500	0.0074	0.000	0.000
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE

**SAMENSTELLING CONSTRUCTIEDELEN**

Constructiedeel	Staat/staven
C1	S1

KNIKLENGTEGEGEVENEN

Staat	Profiel	Lokale Y-as				Lokale Z-as			
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys	
C1 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00	

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MatrixFrame® 5.2 SP9

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Randligger as 4-16	Novares Constructeurs	
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-	-	m	-	m	-	-	m	-
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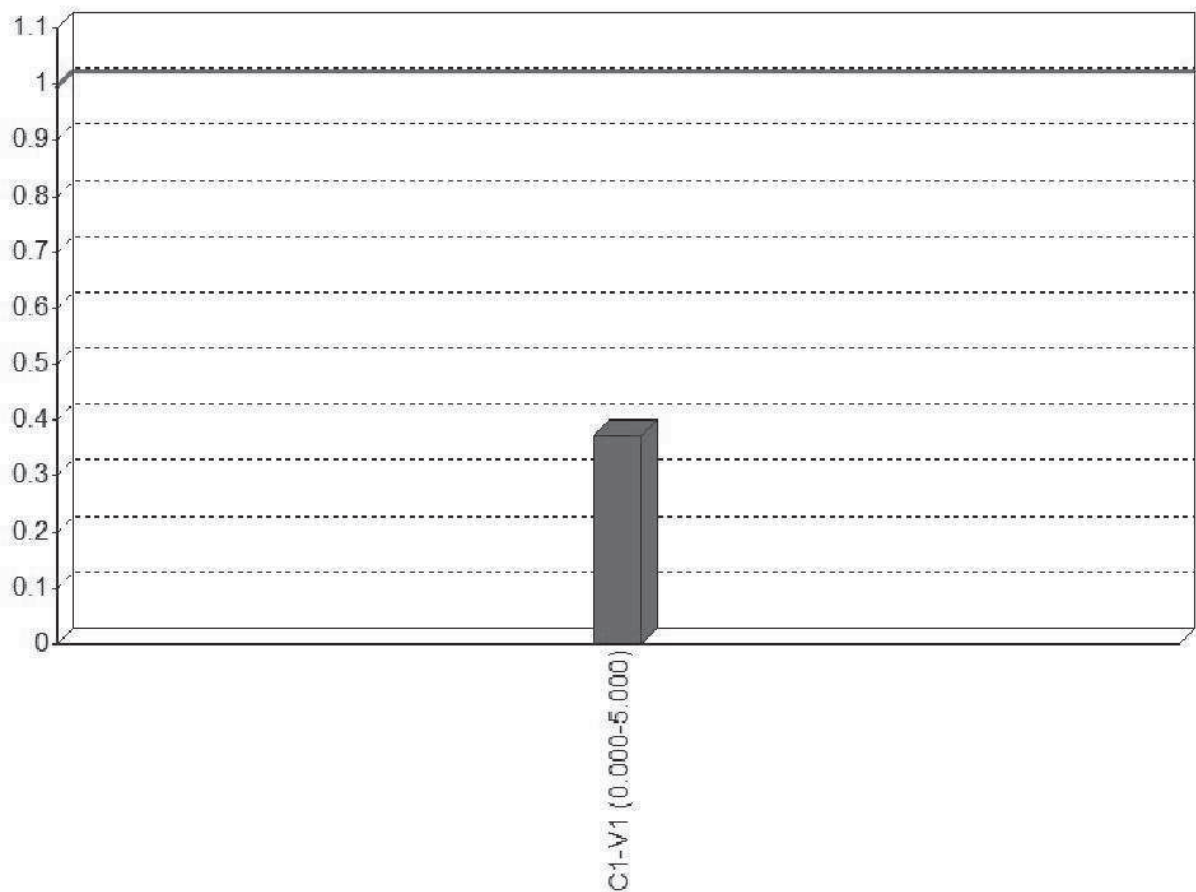
KIPSTEUNENGEGEVENS

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

DOORBUIGINGGEGEVENS

Staaf	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C1 - V1 (0.000-5.000)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
-	-	-	mm	mm	-	-	-

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.24
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.31
C1-V1 (0.000-5.000)	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.29
C1-V1 (0.000-5.000)	Doorbuigingstoetsing	Ka.C.3	NEN-EN1990/NB A1.4.2	0.37

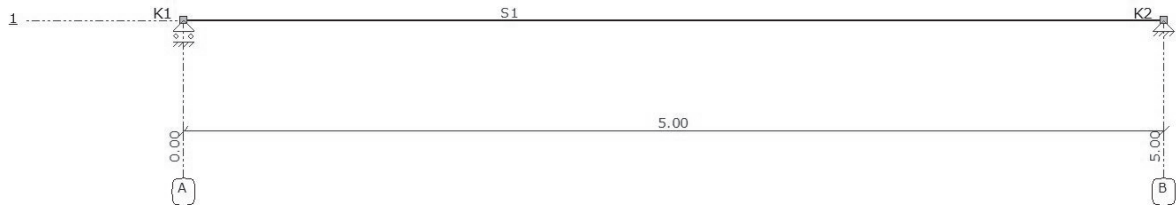
GEWICHT STAALCONSTRUCTIE

Staaf	Profiel	Lsys	Massa
C1-V1 (0.000-5.000)	HE160B	5.000	212.937
Subtotaal:	HE160B	5.000	212.937
Totaal:		5.000	212.937
		m	kg

Randligger as 4-16	Novares Constructeurs	
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Randligger as 4-16		Novares Constructeurs	
Bijlage D2			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	DvV
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\randligger D-2.mxf		

AFB. GEOMETRIE 1 STAVEN EN KNOPEN



STAVEN

Staaf	Knoop B	Scharnier B	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S1	K1	NVM	K2	P1	0.000	0.000	5.000	0.000	5.000
-	-	-	-	-	m	m	m	m	m

AFB. GEOMETRIE 2 STAVEN EN KNOPEN



PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly Materiaal	Hoek
P1	HE160B	5.4251e-03	8.8923e-06 S235	90
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

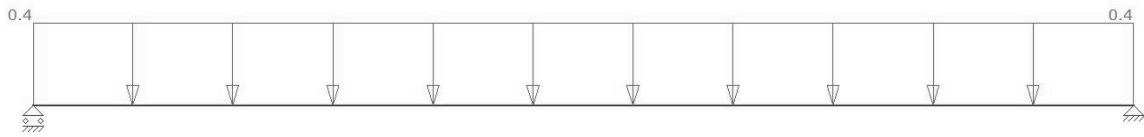
OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vrij	vast	vrij	0
O2	K2	vast	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

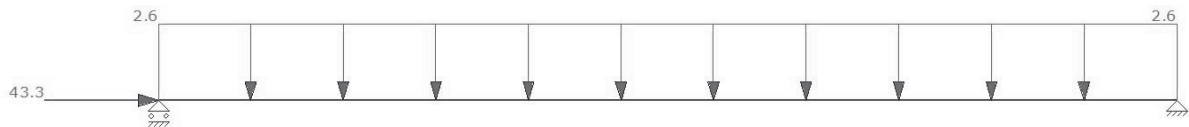
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4
B.G.1	Permanent	1.20	0.90	1.35	0.90
B.G.2	Windbelasting	1.50	1.50	-	-
B.G.3	Kniklengte (Assymetrisch)	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Windbelasting	-	0.20
B.G.3	Kniklengte (Assymetrisch)	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

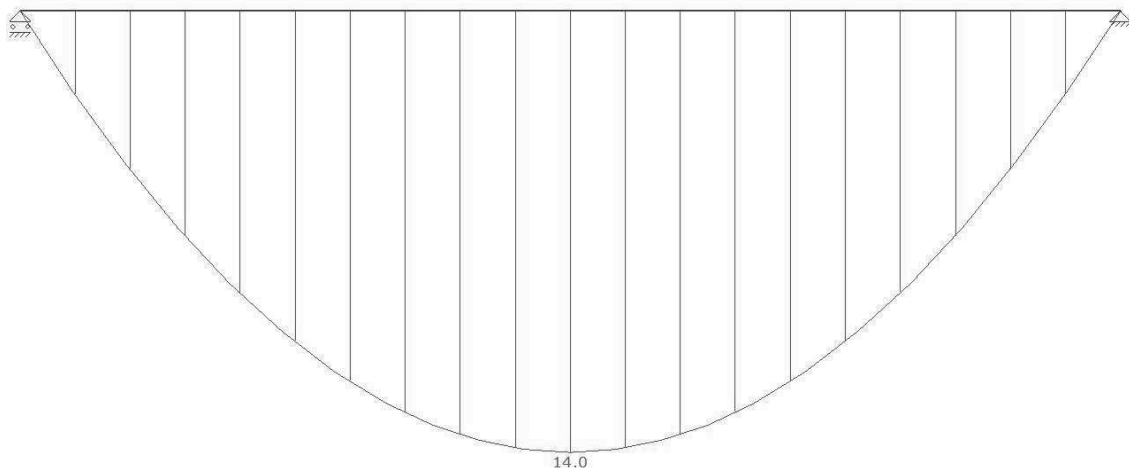
B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-

UITGANGSPUNTEN VAN DE ANALYSE

Lineaire Elastische Analyse uitgevoerd

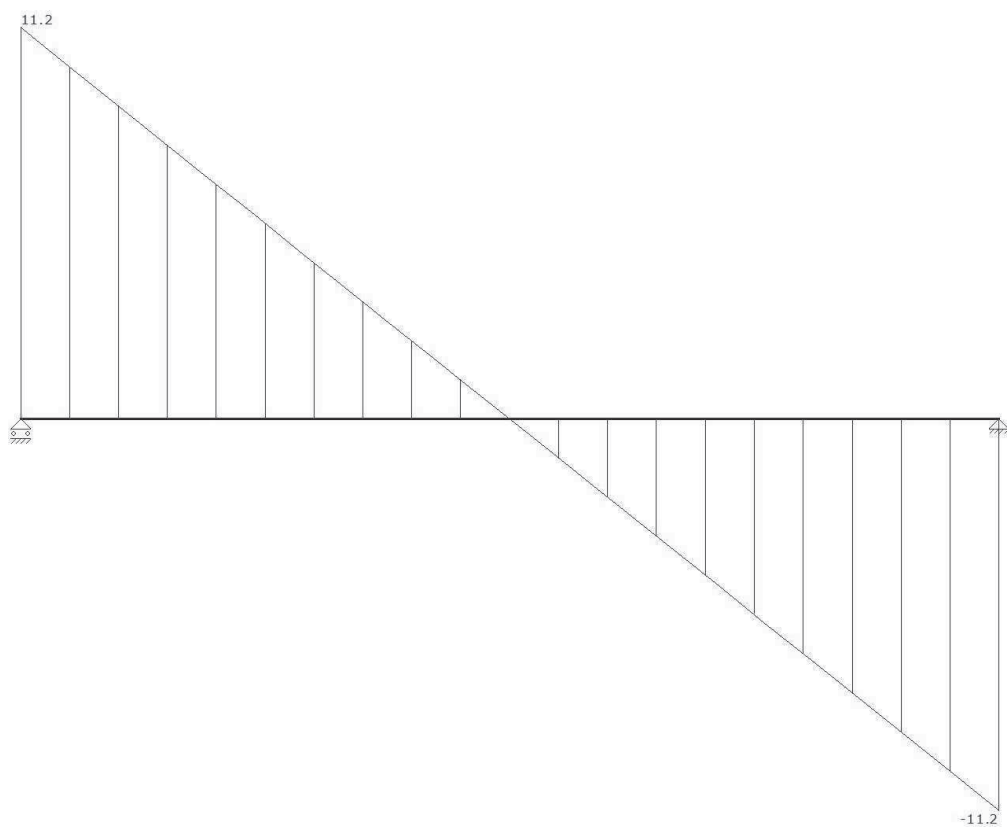
AFB. F.U.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



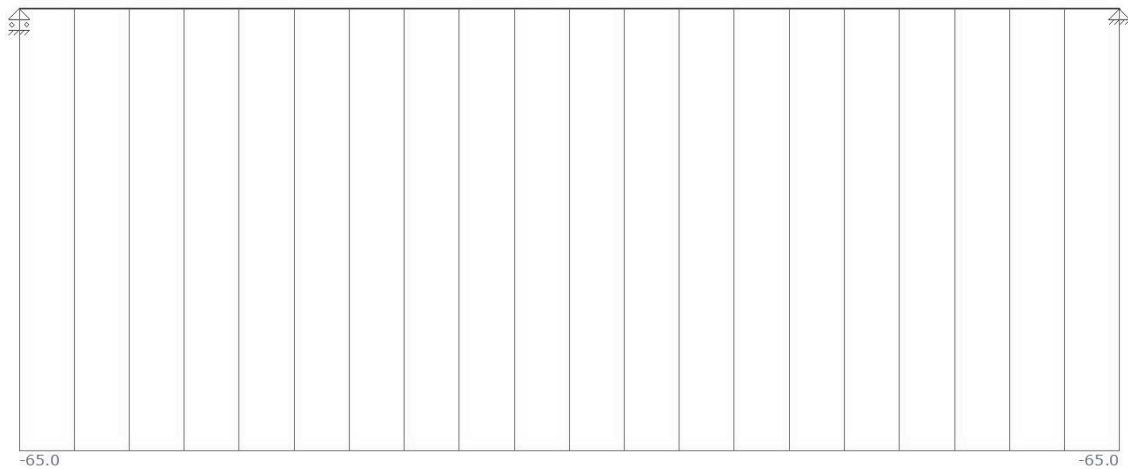
AFB. F.U.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. OPLEGREACTIES OMHULLENDE

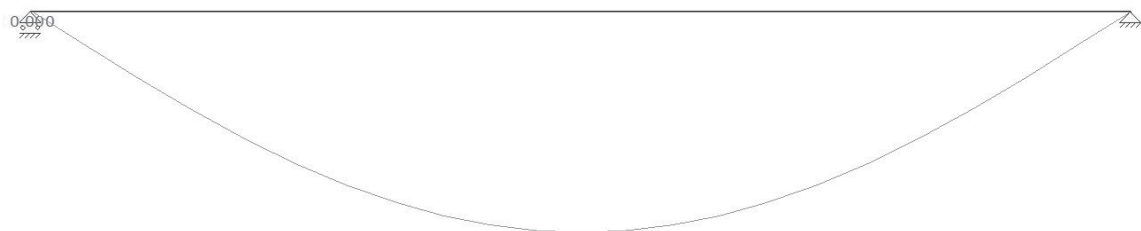
Fundamenteel Belastingscombinaties

**FU.C. EXTREME OPLEGREACTIES**

Oplegging	Knoop	B.C.	Xmax	Z	My B.C.	X	Zmax	My B.C.	X	Z	Mymax	
O1	K1				Fu.C.1	0.00	-11.22	0.00				
O2	K2	Fu.C.1	-64.95	-11.22	0.00Fu.C.1	-64.95	-11.22	0.00				
Globale extreme waarden												
O2	K2	Fu.C.1	-64.95	-11.22	0.00							
O2	K2				Fu.C.1	-64.95	-11.22	0.00				
-	-	-	kN	kN	kNm	-	kN	kN	kNm	kN	kN	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties



Randligger as 4-16	Novares Constructeurs	
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KA.C. EXTREME DOORBUIGINGEN

Staat	B.C.	Knoop Begin		Staat		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.2	0.000	0.000	2.500	0.0134	0.000	0.000
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staat/staven
C1	S1

KNIKLENGTEGEGEVENS

Staat	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
-	-	m	-	m	-	-	m	-

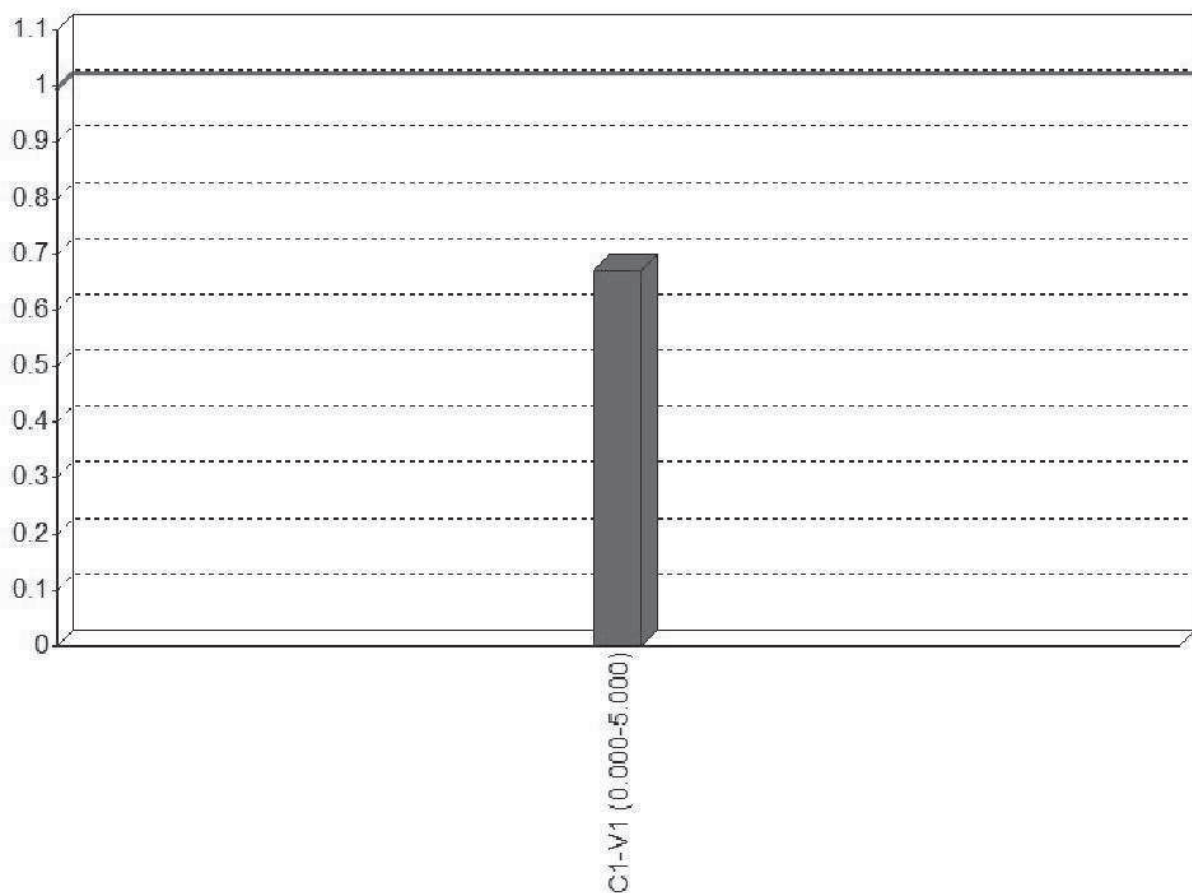
KIPSTEUNENGEDEVENS

Staat	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

DOORBUIGINGGEGEVENS

Staat	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C1 - V1 (0.000-5.000)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
-	-	-	mm	mm	-	-	-

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

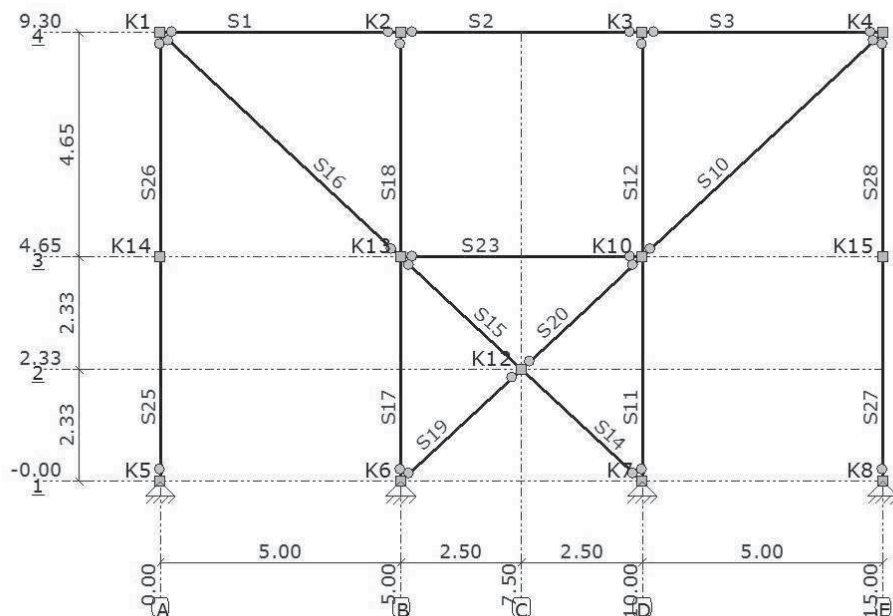
Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.35
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C1-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.53
C1-V1 (0.000-5.000)	Kiptoetsing	Fu.C.4	NEN-EN1993-1-1(6.54)	0.00
C1-V1 (0.000-5.000)	Doorbuigingstoetsing	Ka.C.2	NEN-EN1990/NB A1.4.2	0.67

GEWICHT STAALCONSTRUCTIE

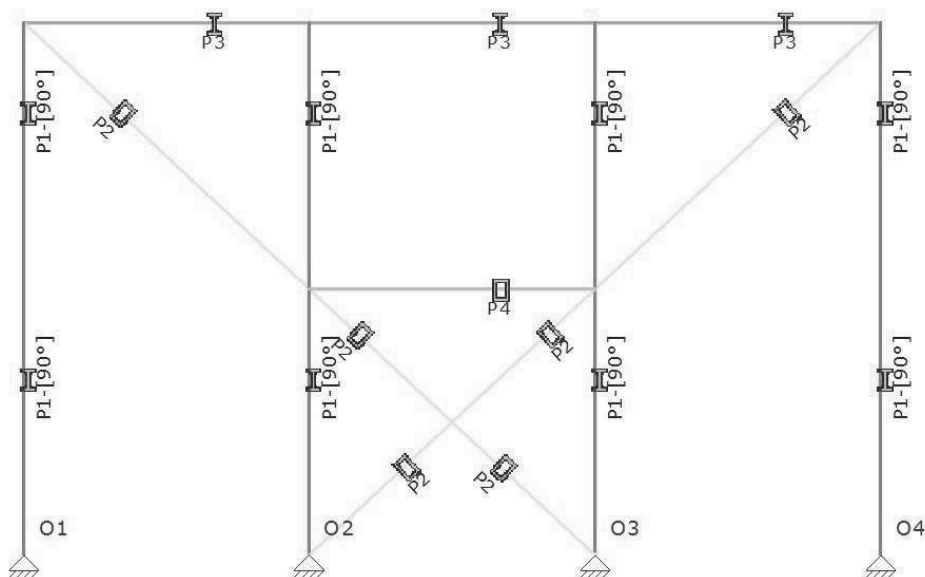
Staal	Profiel	Lsys	Massa
C1-V1 (0.000-5.000)	HE160B	5.000	212.937
Subtotaal:	HE160B	5.000	212.937
Totaal:		5.000 m	212.937 kg

Bijlage E		Novares Constructeurs	
Windbok as VV			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\wb-VV incl EG.mxf		

AFB. GEOMETRIE 1: RAAMWERK



AFB. GEOMETRIE 2: RAAMWERK



PROFIELEN

Profiel	Profielnaam	Oppervlakte	Iy Materiaal	Hoek
P1	HE180A	4.5251e-03	9.2461e-06 S235	90
P2	KK120/6	2.6124e-03	5.5094e-06 S235H(EN10219-1)	0
P3	HE180A	4.5251e-03	2.5103e-05 S235	0
10-11-2016 15:01:09		MatrixFrame© 5.2 SP9		

Profiel	Profielnaam	Oppervlakte	Iy Materiaal	Hoek
P4	KK100/4	1.4948e-03	2.2635e-06 S235H(EN10219-1)	0
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoëff
S235	78.50	2.1000e+08	12.0000e-06
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K5	vast	vast	vrij	0
O2	K6	vast	vast	vrij	0
O3	K7	vast	vast	vrij	0
O4	K8	vast	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

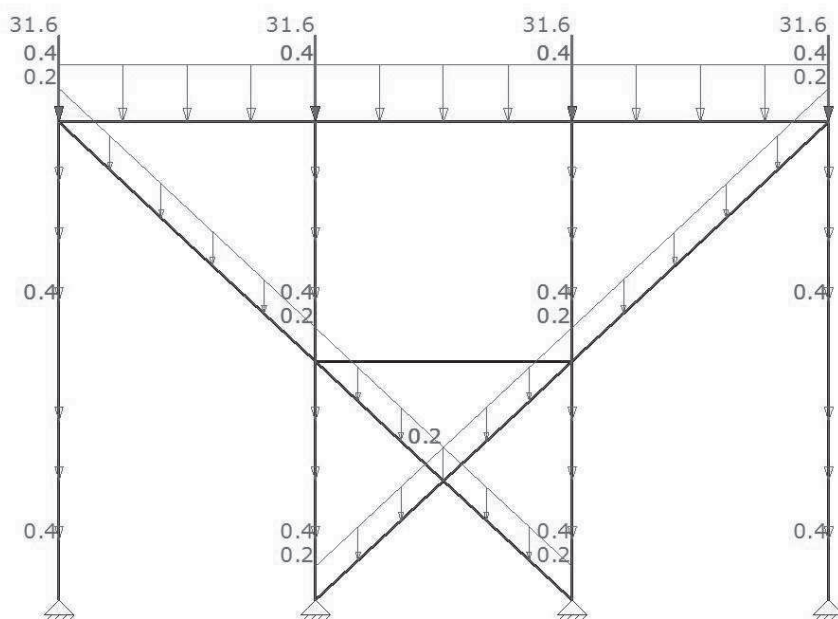
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong. Element	Niveau Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-	N.v.t.	N.v.t.			
B.G.2	Windbelasting	Windbelasting	-	N.v.t.	N.v.t.	0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte		N.v.t.	N.v.t.			
B.G.4	Kniklengte (Symmetrisch)	Kniklengte		N.v.t.	N.v.t.			

B.G.1: PERMANENT

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting Staaf of knoop
B.G.1: Permanent					
qG	0.36 (1.00x)	0.36 (1.00x)	0.000	5.000(L)	Z" S1-S3
qG	0.21 (1.00x)	0.21 (1.00x)	0.000	6.828(L)	Z" S10,S16
qG	0.36 (1.00x)	0.36 (1.00x)	0.000	4.650(L)	Z" S11-S12,S17-S18, S25-S28
qG	0.21 (1.00x)	0.21 (1.00x)	0.000	3.414(L)	Z" S14-S15,S19-S20
N	31.60				Z K1-K4
-	-	-	m	m	- -

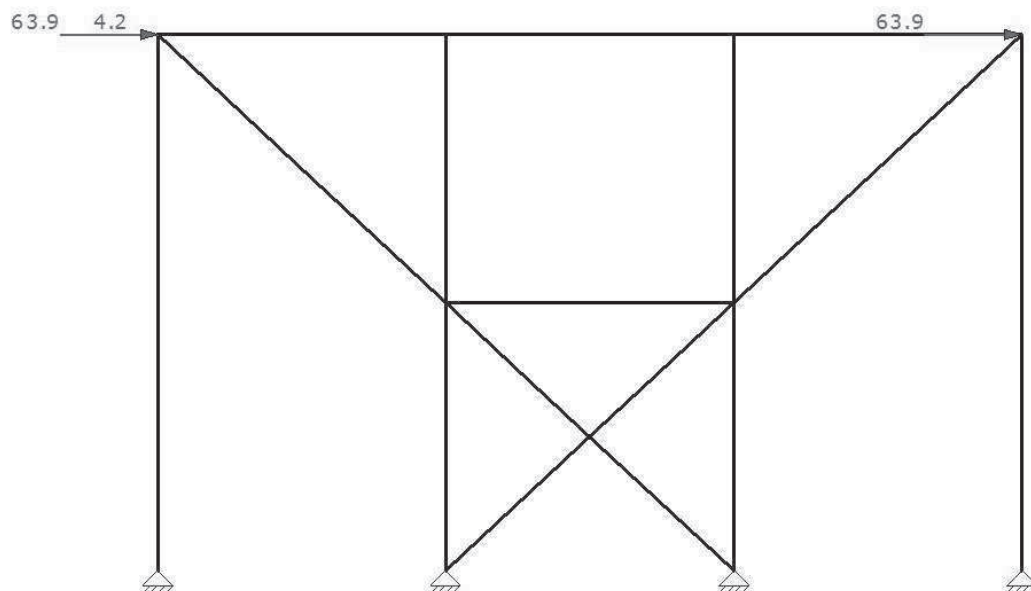
B.G.1: PERMANENT



B.G.2: WINDBELASTING

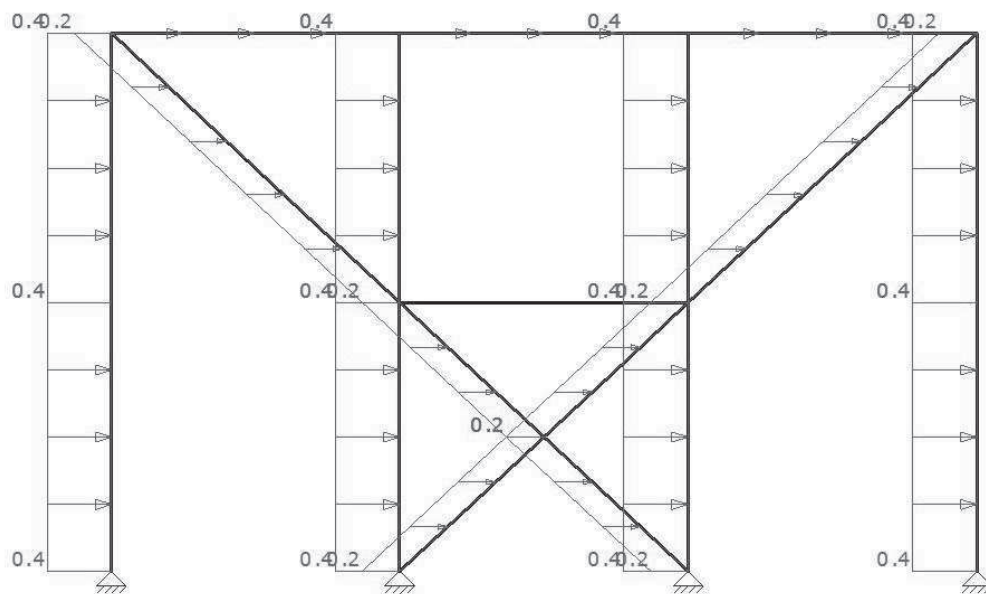
Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting Staaf of knoop
B.G.2: Windbelasting					
N	63.85				X K1,K4
N	4.20				X K1
-	-	-	m	m	- -

B.G.2: WINDBELASTING

**B.G.3: KNIKLENGTE (ASSYMETRISCH)**

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting Staaf of knoop
B.G.3: Kniklengte (Assymetrisch)					
qG	0.36 (1.00x)	0.36 (1.00x)	0.000	5.000(L)	X" S1-S3
qG	0.21 (1.00x)	0.21 (1.00x)	0.000	6.828(L)	X" S10,S16
qG	0.36 (1.00x)	0.36 (1.00x)	0.000	4.650(L)	X" S11-S12,S17-S18
qG	0.21 (1.00x)	0.21 (1.00x)	0.000	3.414(L)	X" S14-S15,S19-S20
qG	0.36 (1.00x)	0.36 (1.00x)	0.000	4.650(L)	X" S25-S28
-	-	-	m	m	- -

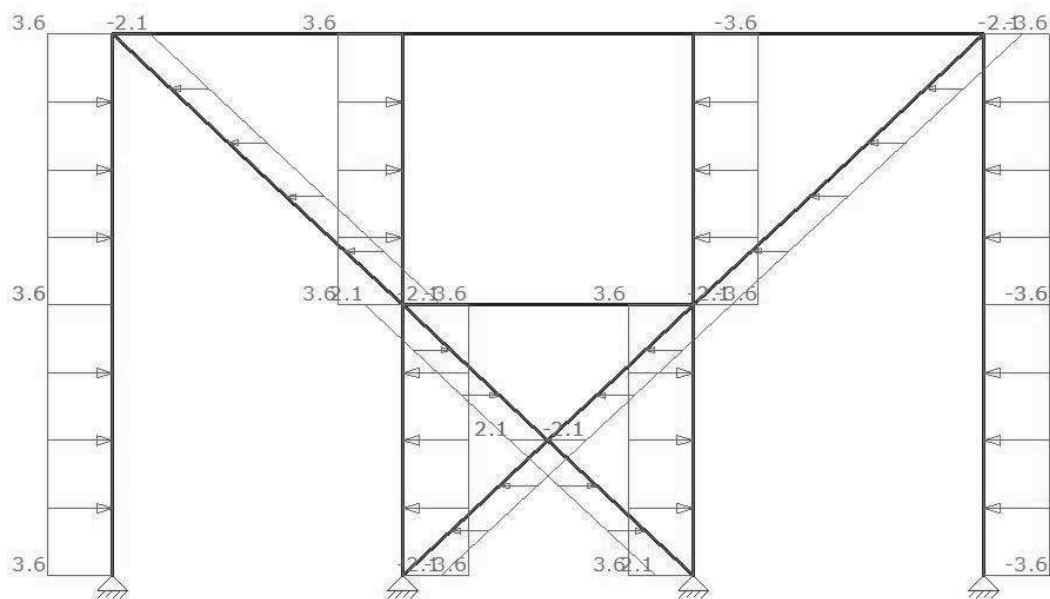
B.G.3: KNIKLENGTE (ASSYMETRISCH)



B.G.4: KNIKLENGTE (SYMMETRISCH)

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting Staaf of knoop
B.G.4: Kniklengte (Symmetrisch)					
qG	0.21 (-10.00x)	0.21 (-10.00x)	0.000	6.828(L)	X" S10,S16
qG	0.36 (10.00x)	0.36 (10.00x)	0.000	4.650(L)	X" S11,S18
qG	0.36 (-10.00x)	0.36 (-10.00x)	0.000	4.650(L)	X" S12,S17
qG	0.21 (10.00x)	0.21 (10.00x)	0.000	3.414(L)	X" S14-S15
qG	0.21 (-10.00x)	0.21 (-10.00x)	0.000	3.414(L)	X" S19-S20
qG	0.36 (10.00x)	0.36 (10.00x)	0.000	4.650(L)	X" S25-S26
qG	0.36 (-10.00x)	0.36 (-10.00x)	0.000	4.650(L)	X" S27-S28
-	-	-	m	m	- -

B.G.4: KNIKLENGTE (SYMMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5
B.G.1	Permanent	1.00	1.35	1.20	1.00	-
B.G.2	Windbelasting	1.30	-	1.50	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-	-	-
B.G.4	Kniklengte (Symmetrisch)	-	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-
B.G.4	Kniklengte (Symmetrisch)	-	-	-

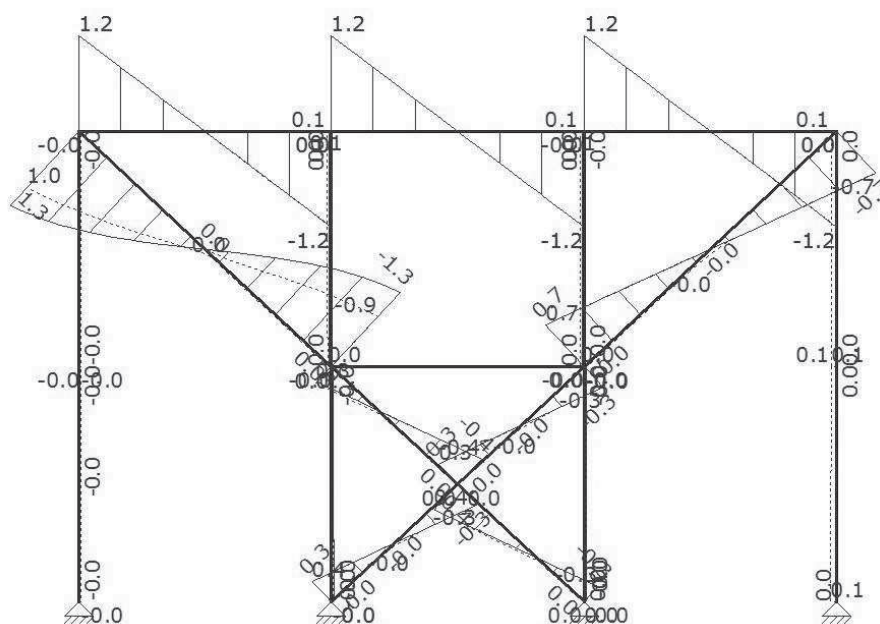
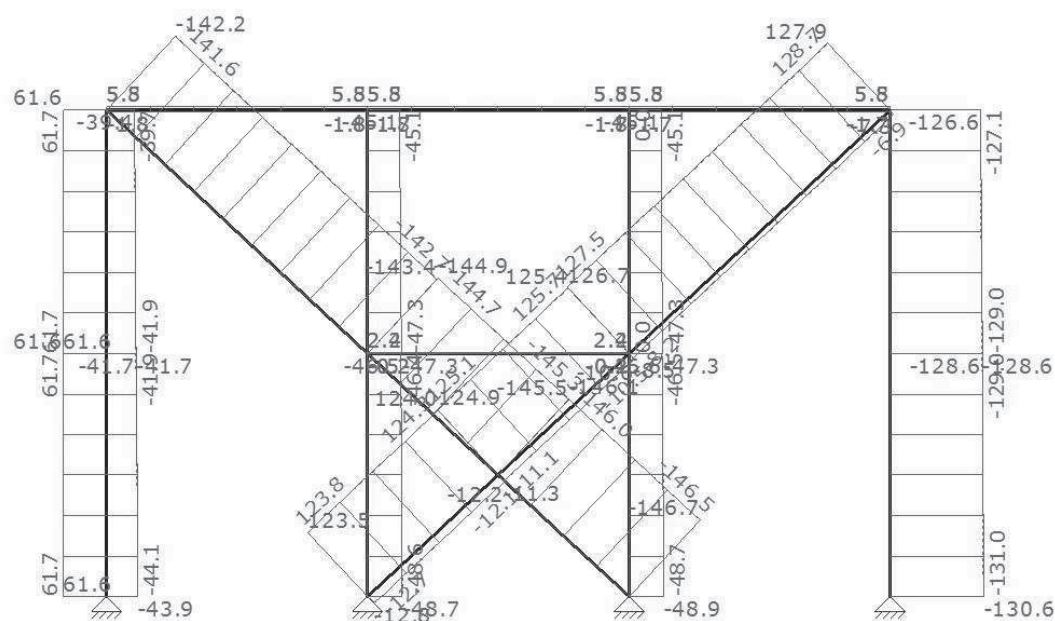
QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

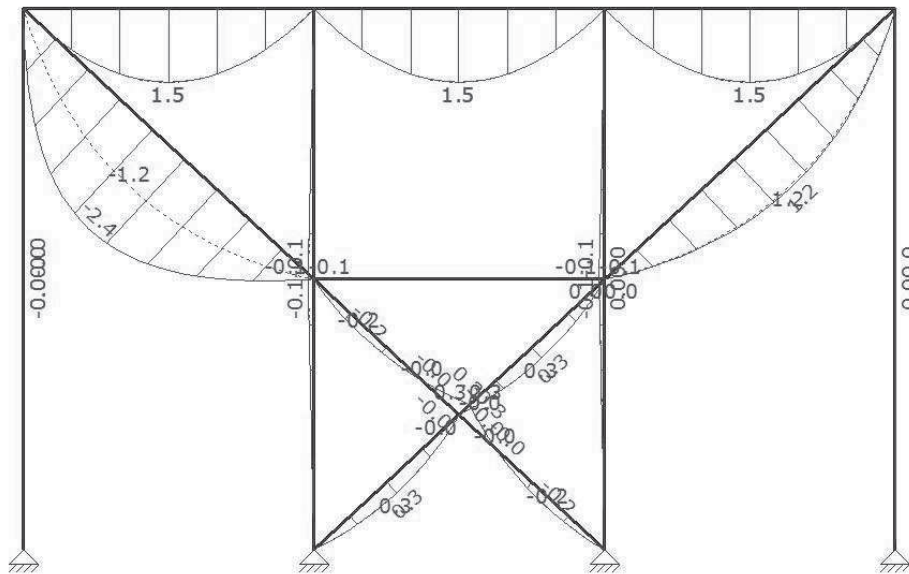
B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-
B.G.4	Kniklengte (Symmetrisch)	-

UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

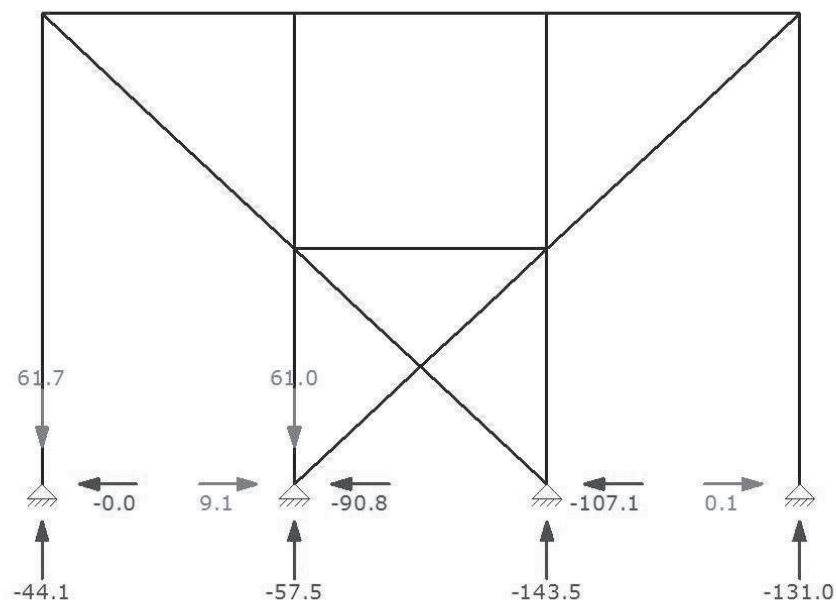
GNL analyse (P-delta + N-kracht correctie)





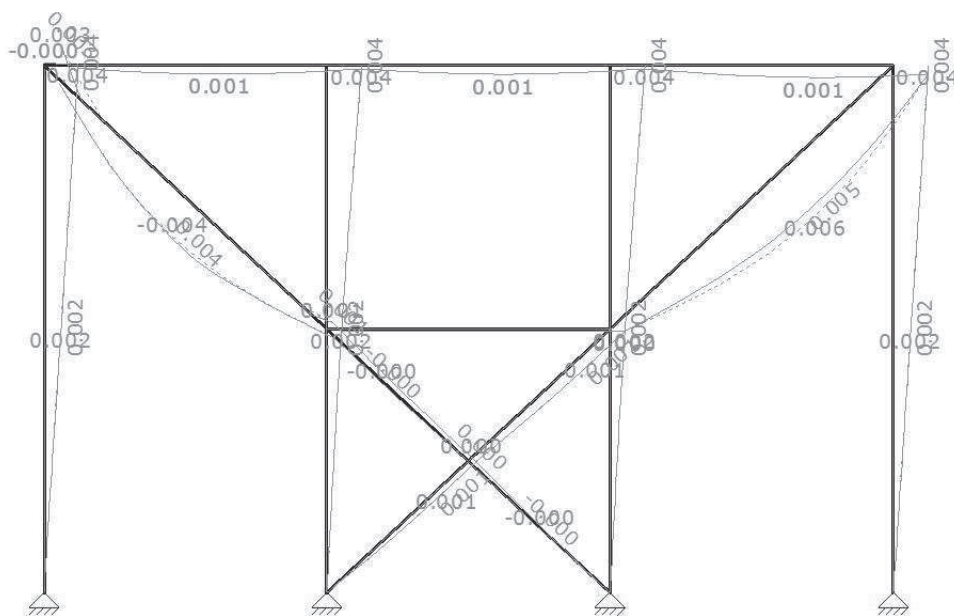
FU.C. OMHULLENDE ANALYSE

Staaf	Nx Minus	Nx Plus	Nx NegMax	Nx PosMin	Vz Minus	Vz Plus	My Minus	My Plus
S1	-1.76	5.53	-1.76	1.74	-1.20	1.20	0.00	1.49
S2	-1.75	5.53	-1.75	1.75	-1.20	1.20	0.00	1.49
S3	-1.73	5.53	-1.73	1.75	-1.20	1.20	0.00	1.49
S10	-8.20	128.66	-5.19	89.57	-0.71	0.71	0.00	1.22
S11	-48.71	0.00	-0.25	0.00	-0.02	0.00	-0.11	0.00
S12	-47.29	0.00	-33.38	0.00	0.00	0.03	-0.11	0.00
S14	-146.54	0.00	-8.90	0.00	-0.26	0.43	-0.17	0.30
S15	-145.29	0.00	-7.86	0.00	-0.43	0.26	-0.17	0.30
S16	-142.74	0.00	-5.19	0.00	-1.26	1.26	-2.38	0.00
S17	-48.59	0.00	-0.19	0.00	-0.03	0.00	-0.12	0.00
S18	-47.29	0.00	0.00	0.00	0.00	0.03	-0.12	0.00
S19	-12.70	124.32	-8.96	89.92	-0.35	0.35	0.00	0.30
S20	-11.14	125.72	-7.80	89.92	-0.35	0.35	0.00	0.30
S23	-0.22	2.39	-0.22	1.55	0.00	0.00	0.00	0.00
S25	-44.12	61.66	-30.98	47.43	0.00	0.00	0.00	0.00
S26	-41.89	61.66	-29.33	49.09	0.00	0.00	0.00	0.00
S27	-131.03	0.00	-30.98	0.00	0.00	0.01	0.00	0.01
S28	-129.05	0.00	-29.33	0.00	0.00	0.00	0.00	0.01
-	kN	kN	kN	kN	kN	kN	kNm	kNm



FU.C. EXTREME OPLEGREACTIES ANALYSE

Oplegging	Knoop	B.C.	Xmax	Z	My B.C.	X	Zmax	My B.C.	X	Z	Mymax
O1	K5				Fu.C.5	-0.02	61.66	0.00			
O1	K5	Fu.C.3	-0.03	53.01	0.00Fu.C.2	0.00	-44.12	0.00			
O2	K6	Fu.C.2	9.07	-57.50	0.00Fu.C.5	-65.84	61.04	0.00			
O2	K6	Fu.C.3	-90.80	40.67	0.00Fu.C.2	9.07	-57.50	0.00			
O3	K7	Fu.C.3	-107.09	-143.53	0.00Fu.C.3	-107.09	-143.53	0.00			
O4	K8	Fu.C.3	0.07	-131.03	0.00						
O4	K8				Fu.C.3	0.07	-131.03	0.00			
Globale extreme waarden											
O2	K6	Fu.C.2	9.07	-57.50	0.00						
O3	K7	Fu.C.3	-107.09	-143.53	0.00						
O1	K5				Fu.C.5	-0.02	61.66	0.00			
O3	K7				Fu.C.3	-107.09	-143.53	0.00			
-	-	-	kN	kN	kNm	-	kN	kN	kNm	kN	kN



KA.C. EXTREME KNOOPVERPLAATSINGEN ANALYSE

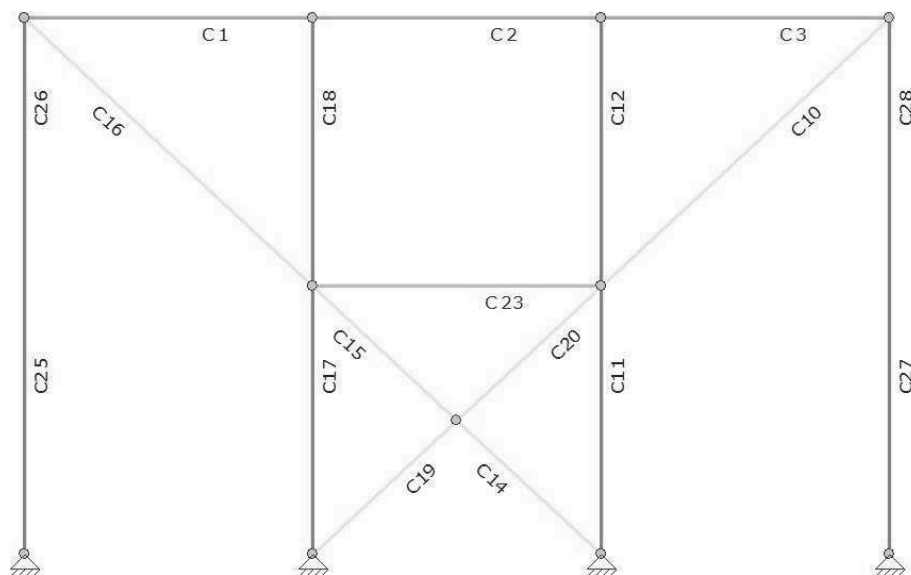
Knoop	B.C.	X	Z	Ry
K1	Ka.C.(w1)	0.0000	0.0003	-0.000e-03
	Ka.C.2	0.0036	-0.0003	-0.000e-03
K2	Ka.C.(w1)	0.0000	0.0003	-0.000e-03
	Ka.C.2	0.0036	0.0003	-0.000e-03
K3	Ka.C.(w1)	0.0000	0.0003	-0.000e-03
	Ka.C.2	0.0036	0.0003	-0.000e-03
K4	Ka.C.2	0.0036	0.0009	-0.000e-03
K10	Ka.C.(w1)	0.0000	0.0002	-0.001e-03
	Ka.C.2	0.0015	0.0002	-0.391e-03
K12	Ka.C.(w1)	0.0000	0.0001	0.020e-03
	Ka.C.2	0.0008	0.0001	-0.133e-03
K13	Ka.C.(w1)	0.0000	0.0002	0.001e-03
	Ka.C.2	0.0015	0.0002	-0.389e-03
K14	Ka.C.(w1)	0.0000	0.0002	0.004e-03
	Ka.C.2	0.0018	-0.0001	-0.388e-03
K15	Ka.C.2	0.0018	0.0005	-0.392e-03
-	-	m	m	rad

KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.2	0.004	0.000	2.500	0.0005	0.004	0.000
S2	Ka.C.2	0.004	0.000	2.500	0.0005	0.004	0.000
S3	Ka.C.2	0.004	0.000	2.500	0.0005	0.004	0.001
S10	Ka.C.(w1)	0.000	0.000	3.414	0.0038	0.000	0.000
S10	Ka.C.1	0.000	0.000	3.414	0.0038	0.000	0.000
S11	Ka.C.2	0.000	0.000	2.790	-0.0001	0.002	0.000
S12	Ka.C.2	0.002	0.000	2.092	-0.0001	0.004	0.000
S14	Ka.C.2	0.000	0.000	1.536	-0.0001	0.001	0.000
S15	Ka.C.2	0.001	0.000	2.048	-0.0001	0.002	0.000
S16	Ka.C.2	0.002	0.000	3.414	-0.0059	0.004	0.000
S17	Ka.C.2	0.000	0.000	2.790	-0.0001	0.002	0.000
S18	Ka.C.2	0.002	0.000	2.092	-0.0001	0.004	0.000
S19	Ka.C.(w1)	0.000	0.000	1.707	0.0002	0.000	0.000

Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S19	Ka.C.1	0.000	0.000	1.707	0.0002	0.000	0.000
S20	Ka.C.(w1)	0.000	0.000	1.707	0.0002	0.000	0.000
S20	Ka.C.1	0.000	0.000	1.707	0.0002	0.000	0.000
-	-	m	m	m	m	m	m

AFB. STAALDEFINITIE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C1	s1
C2	s2
C3	s3
C10	s10
C11	s11
C12	s12
C14	s14
C15	s15
C16	s16
C17	s17
C18	s18
C19	s19
C20	s20
C23	s23
C25	s25
C26	s26
C27	s27
C28	s28

EXTREME UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

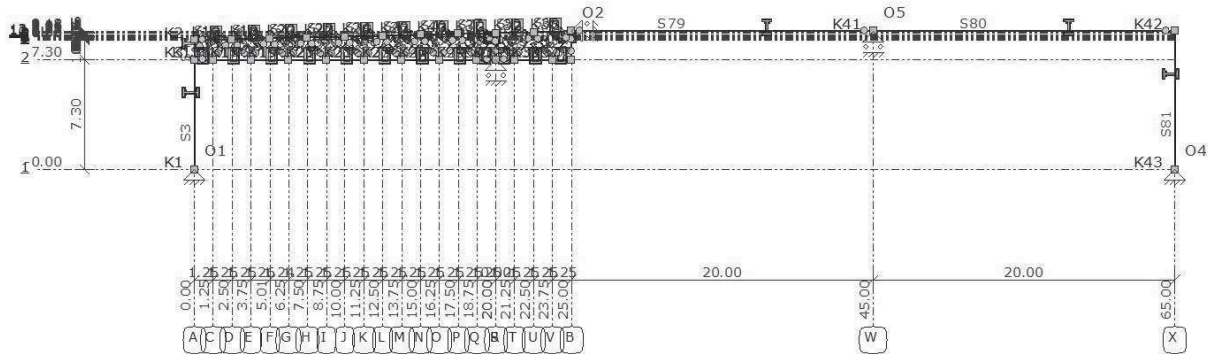
Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C2-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C3-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.02
C10-V1 (0.000-6.828)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.5)	0.21
C11-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.09

Bijlage E	Novares Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C12-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.09
C14-V1 (0.000-3.414)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.36
C15-V1 (0.000-3.414)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.36
C16-V1 (0.000-6.828)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.95
C17-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.09
C18-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.09
C19-V1 (0.000-3.414)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.5)	0.20
C20-V1 (0.000-3.414)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.5)	0.20
C23-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0.01
C25-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.09
C26-V1 (0.000-4.650)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.08
C27-V1 (0.000-4.650)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.25
C28-V1 (0.000-4.650)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.25

Secundair vakwerk spant		Noveres Constructeurs	
Bijlage F			
Projectnaam		Projectnummer	
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\vw-2-var.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staafl	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S3	K1	NVM	NVM	K3	P1	0.000	0.000	0.000	-7.300	7.300
S4	K3	NVM	NVM	K2	P1	0.000	-7.300	0.000	-8.600	1.300
S6	K2	NV-	NV-	K15	P4	0.000	-8.600	1.250	-7.300	1.803
S7	K3	NV-	NVM	K15	P2	0.000	-7.300	1.250	-7.300	1.250
S9	K15	NV-	NV-	K16	P4	1.250	-7.300	2.504	-8.658	1.848
S10	K2	NV-	NVM	K16	P3	0.000	-8.600	2.504	-8.658	2.504
S12	K16	NV-	NV-	K17	P4	2.504	-8.658	3.750	-7.300	1.843
S13	K15	NVM	NVM	K17	P2	1.250	-7.300	3.750	-7.300	2.500
S15	K17	NV-	NV-	K18	P4	3.750	-7.300	5.007	-8.716	1.893
S16	K16	NVM	NVM	K18	P3	2.504	-8.658	5.007	-8.716	2.503
S18	K18	NV-	NV-	K19	P4	5.007	-8.716	6.250	-7.300	1.884
S19	K17	NVM	NVM	K19	P2	3.750	-7.300	6.250	-7.300	2.500
S21	K19	NV-	NV-	K20	P4	6.250	-7.300	7.505	-8.773	1.935
S22	K18	NVM	NVM	K20	P3	5.007	-8.716	7.505	-8.773	2.499
S24	K20	NV-	NV-	K21	P4	7.505	-8.773	8.750	-7.300	1.929
S25	K19	NVM	NVM	K21	P2	6.250	-7.300	8.750	-7.300	2.500
S27	K21	NV-	NV-	K22	P4	8.750	-7.300	10.004	-8.831	1.979
S28	K20	NVM	NVM	K22	P3	7.505	-8.773	10.004	-8.831	2.500
S30	K22	NV-	NV-	K23	P4	10.004	-8.831	11.250	-7.300	1.974
S31	K21	NVM	NVM	K23	P2	8.750	-7.300	11.250	-7.300	2.500
S33	K23	NV-	NV-	K24	P4	11.250	-7.300	12.502	-8.888	2.022
S34	K22	NVM	NVM	K24	P3	10.004	-8.831	12.502	-8.888	2.498
S36	K24	NV-	NV-	K25	P4	12.502	-8.888	13.750	-7.300	2.020
S37	K23	NVM	NVM	K25	P2	11.250	-7.300	13.750	-7.300	2.500
S39	K25	NV-	NV-	K26	P4	13.750	-7.300	15.001	-8.946	2.068
S40	K24	NVM	NVM	K26	P3	12.502	-8.888	15.001	-8.946	2.500
S42	K26	NV-	NV-	K27	P6	15.001	-8.946	16.250	-7.300	2.066
S43	K25	NVM	NVM	K27	P2	13.750	-7.300	16.250	-7.300	2.500
S47	K27	NVM	NVM	K29	P2	16.250	-7.300	18.750	-7.300	2.500
S49	K29	NV-	NV-	K30	P4	18.750	-7.300	19.999	-9.062	2.159
S52	K30	NV-	NV-	K31	P7	19.999	-9.062	21.250	-7.300	2.161
S55	K31	NV-	NV-	K32	P7	21.250	-7.300	22.497	-9.119	2.206
S56	K30	NVM	NVM	K32	P3	19.999	-9.062	22.497	-9.119	2.499
S58	K32	NV-	NV-	K33	P7	22.497	-9.119	23.750	-7.300	2.209
S59	K31	NVM	NVM	K33	P2	21.250	-7.300	23.750	-7.300	2.500
S63	K37	NV-	NV-	K38	P1	25.000	-7.300	25.000	-9.177	1.877
S65	K32	NVM	NVM	K38	P3	22.497	-9.119	25.000	-9.177	2.503
S67	K33	NVM	NVM	K37	P2	23.750	-7.300	25.000	-7.300	1.250
S69	K33	NV-	NV-	K38	P7	23.750	-7.300	25.000	-9.177	2.255
S71	K39	NV-	NV-	K30	P7	20.000	-7.300	19.999	-9.062	1.762
S73	K29	NVM	NV-	K39	P2	18.750	-7.300	20.000	-7.300	1.250
S74	K39	NV-	NVM	K31	P2	20.000	-7.300	21.250	-7.300	1.250
S75	K27	NV-	NV-	K40	P4	16.250	-7.300	17.500	-9.010	2.118
S76	K26	NVM	NVM	K40	P3	15.001	-8.946	17.500	-9.010	2.500
S77	K40	NVM	NVM	K30	P3	17.500	-9.010	19.999	-9.062	2.499
S78	K40	NV-	NV-	K29	P6	17.500	-9.010	18.750	-7.300	2.118

Secundair vakwerk spant	Noveres Constructeurs	
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Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S79	K38	NV-	NV-	K41	P5	25.000	-9.177	45.000	-9.177	20.000
S80	K41	NVM	NV-	K42	P5	45.000	-9.177	65.000	-9.177	20.000
S81	K43	NVM	NVM	K42	P1	65.000	0.000	65.000	-9.177	9.177
-	-	-	-	-	-	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly	Materiaal	Hoek
P1	HE180A	4.5251e-03	2.5103e-05	S235	0
P2	KK120/5	2.2356e-03	4.8547e-06	S235H(EN10219-1)	0
P3	KK140/5	2.6356e-03	7.9056e-06	S235H(EN10219-1)	0
P4	KK60/4	8.5480e-04	4.3551e-07	S235H(EN10219-1)	0
P5	HE200A	5.3831e-03	3.6922e-05	S235	0
P6	KK60/6	1.1724e-03	5.3275e-07	S235H(EN10219-1)	0
P7	KK100/4	1.4948e-03	2.2635e-06	S235H(EN10219-1)	0
-	-	m2	m4	-	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235	78.50	2.1000e+08	12.0000e-06
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	C/m

OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vast	vast	vrij	0
O2	K38	vast	vrij	vrij	0
O3	K39	vrij	vast	vrij	0
O4	K43	vast	vast	vrij	0
O5	K41	vrij	vast	vrij	0
-	-	kN/m	kN/m	kNmrad	°

GEWICHTSBEREKENING

Index	Staven	Berekening	Waarde	Eenheden
Lsys1	Belastingen en vervormingen	NEN-EN1991		
Height1	Systeemmaat	5.00	5.00	[m]
Width1	Totale hoogte van constructie	9.18	9.18	[m]
LR1	Totale breedte van constructie	65.00	65.00	[m]
	Permanente Belasting	NEN-EN1991-1-1:2011/NB:2011		
Pp1	Plat Dak (S10,S16,S22,S28,S34,S40,S56,S65,S76,S77,S79,S80)	.73	0.73	[kN/m²]
q1	Stalen dak + windvb	Pp1*Lsys1	3.65	[kN/m]
LR2	Permanente Belasting			
	Opgelegde belastingen	NEN-EN1991-1-1:2011/NB:2011		
qk1	S10,S16,S22,S28,S34,S40,S56,S65,S76-S77			
q2	Opgelegde belastingen (qk)	NEN-EN1991-1-1#6.3(Cat=H, Hoek=1)	1.00	[kN/m²]
	Opgelegde belastingen (q) (Lsys=5.00)	qk1 * Min(5.0, Lsys1)	5.00	[kN/m]
qk2	S79-S80			
q3	Opgelegde belastingen (qk)	NEN-EN1991-1-1#6.3(Cat=H)	1.00	[kN/m²]
LR3	Opgelegde belastingen (q) (Lsys=5.00)	qk2 * Min(5.0, Lsys1)	5.00	[kN/m]
	Windbelasting van Links + Overdruk	NEN-EN1991-1-4:2011/NB:2011		
Height2	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18	[m]
Width2	Gemiddelde breedte (b)	60.00	60.00	[m]
Width3	Constructie diepte (d)	65.00	65.00	[m]
A1	Belast oppervlak (A)	550.62	550.62	[m²]
Co1	Orthografie factor (C0)	1.00	1.00	
CsCd1	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width2,h=Height2,T errein=Onbebouwd, Regio=3,C0=Co1)	0.85	
Cfr1	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01	
Cpe1	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand, Zone=D, hd=0.14)	0.80	
Cpi1	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe1, Openingen=0.00, Over=True)	0.20	

Secundair vakwerk spant	Noveres Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR3			
Z1	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp1	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebouwd,Regio=3,C0=Co1)	0.68 [kN/m²]
q4	Wrijving; Verdeelde element belasting (q)	(Cfr1*Qp1) * Lsys1	0.03 [kN/m]
q5	Interne druk; Verdeelde element belasting (q)	(Cpi1*Qp1) * Lsys1	0.68 [kN/m]
Cpe2	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14)	0.80
q6	Vertikale wand S3; Verdeelde element belasting (q)	(Qp1*Cpe2*CsCd1) * Lsys1	2.32 [kN/m]
Cpe3	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14)	-0.50
C1	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe2-Cpe3) * 0.85	1.11
q7	Vertikale wand S3; Verdeelde element belasting (q)	(Qp1*(Cpe3+C1)*CsCd1) * Lsys1	1.75 [kN/m]
Cpe4	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q8	Plat dak S10; Verdeelde element belasting (q)	(Qp1*Cpe4*CsCd1) * Lsys1	-3.47 [kN/m]
Cpe5	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q9	Plat dak S10; Verdeelde element belasting (q)	(Qp1*Cpe5*CsCd1) * Lsys1	-2.03 [kN/m]
Cpe6	Plat dak S28; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q10	Plat dak S28; Verdeelde element belasting (q)	(Qp1*Cpe6*CsCd1) * Lsys1	0.58 [kN/m]
q11	Vertikale wand S81; Verdeelde element belasting (q)	(Qp1*Cpe3*CsCd1) * Lsys1	-1.45 [kN/m]
q12	Vertikale wand S81; Verdeelde element belasting (q)	(Qp1*(Cpe2-C1)*CsCd1) * Lsys1	-0.88 [kN/m]
LR4			
	Windbelasting van Links + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height3	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width4	Gemiddelde breedte (b)	60.00	60.00 [m]
Width5	Constructie diepte (d)	65.00	65.00 [m]
A2	Belast oppervlak (A)	550.62	550.62 [m²]
Co2	Orthografie factor (C0)	1.00	1.00
CsCd2	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width4,h=Height3,Terrein=Onbebouwd,Regio=3,C0=Co2)	0.85
Cfr2	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe7	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14)	0.80
Cpi2	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe7,Openingen=0.00,Over=True)	0.20
Z2	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp2	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebouwd,Regio=3,C0=Co2)	0.68 [kN/m²]
q13	Wrijving; Verdeelde element belasting (q)	(Cfr2*Qp2) * Lsys1	0.03 [kN/m]
q14	Interne druk; Verdeelde element belasting (q)	(Cpi2*Qp2) * Lsys1	0.68 [kN/m]
Cpe8	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14,Eerst=False)	0.80
q15	Vertikale wand S3; Verdeelde element belasting (q)	(Qp2*Cpe8*CsCd2) * Lsys1	2.32 [kN/m]
Cpe9	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14,Eerst=False)	-0.50
C2	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe8-Cpe9) * 0.85	1.11
q16	Vertikale wand S3; Verdeelde element belasting (q)	(Qp2*(Cpe9+C2)*CsCd2) * Lsys1	1.75 [kN/m]
Cpe10	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,Eerst=False)	-1.20
q17	Plat dak S10; Verdeelde element belasting (q)	(Qp2*Cpe10*CsCd2) * Lsys1	-3.47 [kN/m]
Cpe11	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,Eerst=False)	-0.70
q18	Plat dak S10; Verdeelde element belasting (q)	(Qp2*Cpe11*CsCd2) * Lsys1	-2.03 [kN/m]
Cpe12	Plat dak S28; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0.20
q19	Plat dak S28; Verdeelde element belasting (q)	(Qp2*Cpe12*CsCd2) * Lsys1	-0.58 [kN/m]
q20	Vertikale wand S81; Verdeelde element belasting (q)	(Qp2*Cpe9*CsCd2) * Lsys1	-1.45 [kN/m]
q21	Vertikale wand S81; Verdeelde element belasting (q)	(Qp2*(Cpe8-C2)*CsCd2) * Lsys1	-0.88 [kN/m]
LR5			
	Windbelasting van Links + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height4	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width6	Gemiddelde breedte (b)	60.00	60.00 [m]
Width7	Constructie diepte (d)	65.00	65.00 [m]
A3	Belast oppervlak (A)	550.62	550.62 [m²]
Co3	Orthografie factor (C0)	1.00	1.00
CsCd3	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width6,h=Height4,Terrein=Onbebouwd,Regio=3,C0=Co3)	0.85
Cfr3	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe13	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14)	-0.50
Cpi3	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe13,Openingen=0.00,Over=False)	-0.30

Secundair vakwerk spant	Noveres Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR5			
Z3	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp3	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebo uwd,Regio=3,C0=Co3)	0.68 [kN/m²]
q22	Wrijving; Verdeelde element belasting (q)	(Cfr3*Qp3) * Lsys1	0.03 [kN/m]
q23	Interne druk; Verdeelde element belasting (q)	(Cpi3*Qp3) * Lsys1	-1.02 [kN/m]
Cpe14	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.14)	0.80
q24	Vertikale wand S3; Verdeelde element belasting (q)	(Qp3*Cpe14*CsCd3) * Lsys1	2.32 [kN/m]
Cpe15	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14)	-0.50
C3	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe14-Cpe15) * 0.85	1.11
q25	Vertikale wand S3; Verdeelde element belasting (q)	(Qp3*(Cpe15+C3)*CsCd3) * Lsys1	1.75 [kN/m]
Cpe16	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q26	Plat dak S10; Verdeelde element belasting (q)	(Qp3*Cpe16*CsCd3) * Lsys1	-3.47 [kN/m]
Cpe17	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q27	Plat dak S10; Verdeelde element belasting (q)	(Qp3*Cpe17*CsCd3) * Lsys1	-2.03 [kN/m]
Cpe18	Plat dak S28; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q28	Plat dak S28; Verdeelde element belasting (q)	(Qp3*Cpe18*CsCd3) * Lsys1	0.58 [kN/m]
q29	Vertikale wand S81; Verdeelde element belasting (q)	(Qp3*Cpe15*CsCd3) * Lsys1	-1.45 [kN/m]
q30	Vertikale wand S81; Verdeelde element belasting (q)	(Qp3*(Cpe14-C3)*CsCd3) * Lsys1	-0.88 [kN/m]
LR6			
Height5	Windbelasting van Links + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Width8	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width9	Gemiddelde breedte (b)	60.00	60.00 [m]
A4	Constructie diepte (d)	65.00	65.00 [m]
Co4	Belast oppervlak (A)	550.62	550.62 [m²]
CsCd4	Orthografie factor (C0)	1.00	1.00
Cfr4	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width8,h=Height5,T errein=Onbebouwd,Regio=3,C0=Co4)	0.85
Cpe19	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpi4	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14)	-0.50
	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe19,Openingen =0.00,Over=False)	-0.30
Z4	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp4	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebo uwd,Regio=3,C0=Co4)	0.68 [kN/m²]
q31	Wrijving; Verdeelde element belasting (q)	(Cfr4*Qp4) * Lsys1	0.03 [kN/m]
q32	Interne druk; Verdeelde element belasting (q)	(Cpi4*Qp4) * Lsys1	-1.02 [kN/m]
Cpe20	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.14,Eerst=False)	0.80
q33	Vertikale wand S3; Verdeelde element belasting (q)	(Qp4*Cpe20*CsCd4) * Lsys1	2.32 [kN/m]
Cpe21	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14,Eerst=False)	-0.50
C4	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe20-Cpe21) * 0.85	1.11
q34	Vertikale wand S3; Verdeelde element belasting (q)	(Qp4*(Cpe21+C4)*CsCd4) * Lsys1	1.75 [kN/m]
Cpe22	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1.20
q35	Plat dak S10; Verdeelde element belasting (q)	(Qp4*Cpe22*CsCd4) * Lsys1	-3.47 [kN/m]
Cpe23	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0.70
q36	Plat dak S10; Verdeelde element belasting (q)	(Qp4*Cpe23*CsCd4) * Lsys1	-2.03 [kN/m]
Cpe24	Plat dak S28; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q37	Plat dak S28; Verdeelde element belasting (q)	(Qp4*Cpe24*CsCd4) * Lsys1	-0.58 [kN/m]
q38	Vertikale wand S81; Verdeelde element belasting (q)	(Qp4*Cpe21*CsCd4) * Lsys1	-1.45 [kN/m]
q39	Vertikale wand S81; Verdeelde element belasting (q)	(Qp4*(Cpe20-C4)*CsCd4) * Lsys1	-0.88 [kN/m]
LR7			
Height6	Windbelasting van Rechts + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Width10	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width11	Gemiddelde breedte (b)	60.00	60.00 [m]
A5	Constructie diepte (d)	65.00	65.00 [m]
Co5	Belast oppervlak (A)	550.62	550.62 [m²]
CsCd5	Orthografie factor (C0)	1.00	1.00
Cfr5	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width10,h=Height6, Terrein=Onbebouwd,Regio=3,C0=Co5)	0.85
Cpe25	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpi5	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.14)	0.80
	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe25,Openingen =0.00,Over=True)	0.20

Secundair vakwerk spant	Noveres Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR7			
Z5	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp5	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z5,Terrein=Onbebouwd,Regio=3,C0=Co5)	0.68 [kN/m²]
q40	Wrijving; Verdeelde element belasting (q)	(Cfr5*Qp5) * Lsys1	0.03 [kN/m]
q41	Interne druk; Verdeelde element belasting (q)	(Cpi5*Qp5) * Lsys1	0.68 [kN/m]
Cpe26	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14)	-0.50
q42	Vertikale wand S3; Verdeelde element belasting (q)	(Qp5*Cpe26*CsCd5) * Lsys1	-1.45 [kN/m]
Cpe27	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14)	0.80
C5	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe27-Cpe26) * 0.85	1.11
q43	Vertikale wand S3; Verdeelde element belasting (q)	(Qp5*(Cpe27-C5)*CsCd5) * Lsys1	-0.88 [kN/m]
q44	Vertikale wand S3; Verdeelde element belasting (q)	(Qp5*(Cpe26+C5)*CsCd5) * Lsys1	1.75 [kN/m]
Cpe28	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q45	Plat dak S10; Verdeelde element belasting (q)	(Qp5*Cpe28*CsCd5) * Lsys1	0.58 [kN/m]
Cpe29	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q46	Plat dak S80; Verdeelde element belasting (q)	(Qp5*Cpe29*CsCd5) * Lsys1	-2.03 [kN/m]
Cpe30	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q47	Plat dak S80; Verdeelde element belasting (q)	(Qp5*Cpe30*CsCd5) * Lsys1	-3.47 [kN/m]
q48	Vertikale wand S81; Verdeelde element belasting (q)	(Qp5*Cpe27*CsCd5) * Lsys1	2.32 [kN/m]
LR8			
	Windbelasting van Rechts + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height7	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width12	Gemiddelde breedte (b)	60.00	60.00 [m]
Width13	Constructie diepte (d)	65.00	65.00 [m]
A6	Belast oppervlak (A)	550.62	550.62 [m²]
Co6	Orthografie factor (C0)	1.00	1.00
CsCd6	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width12,h=Height7,Terrein=Onbebouwd,Regio=3,C0=Co6)	0.85
Cfr6	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe31	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14)	0.80
Cpi6	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe31,Openingen=0.00,Over=True)	0.20
Z6	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp6	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z6,Terrein=Onbebouwd,Regio=3,C0=Co6)	0.68 [kN/m²]
q49	Wrijving; Verdeelde element belasting (q)	(Cfr6*Qp6) * Lsys1	0.03 [kN/m]
q50	Interne druk; Verdeelde element belasting (q)	(Cpi6*Qp6) * Lsys1	0.68 [kN/m]
Cpe32	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14,Eerst=False)	-0.50
q51	Vertikale wand S3; Verdeelde element belasting (q)	(Qp6*Cpe32*CsCd6) * Lsys1	-1.45 [kN/m]
Cpe33	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.14,Eerst=False)	0.80
C6	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe33-Cpe32) * 0.85	1.11
q52	Vertikale wand S3; Verdeelde element belasting (q)	(Qp6*(Cpe33-C6)*CsCd6) * Lsys1	-0.88 [kN/m]
q53	Vertikale wand S3; Verdeelde element belasting (q)	(Qp6*(Cpe32+C6)*CsCd6) * Lsys1	1.75 [kN/m]
Cpe34	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0.20
q54	Plat dak S10; Verdeelde element belasting (q)	(Qp6*Cpe34*CsCd6) * Lsys1	-0.58 [kN/m]
Cpe35	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,Eerst=False)	-0.70
q55	Plat dak S80; Verdeelde element belasting (q)	(Qp6*Cpe35*CsCd6) * Lsys1	-2.03 [kN/m]
Cpe36	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,Eerst=False)	-1.20
q56	Plat dak S80; Verdeelde element belasting (q)	(Qp6*Cpe36*CsCd6) * Lsys1	-3.47 [kN/m]
q57	Vertikale wand S81; Verdeelde element belasting (q)	(Qp6*Cpe33*CsCd6) * Lsys1	2.32 [kN/m]
LR9			
	Windbelasting van Rechts + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height8	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width14	Gemiddelde breedte (b)	60.00	60.00 [m]
Width15	Constructie diepte (d)	65.00	65.00 [m]
A7	Belast oppervlak (A)	550.62	550.62 [m²]
Co7	Orthografie factor (C0)	1.00	1.00
CsCd7	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width14,h=Height8,Terrein=Onbebouwd,Regio=3,C0=Co7)	0.85
Cfr7	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe37	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.14)	-0.50

Secundair vakwerk spant	Noveres Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR9			
Cpi7	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe37,Openingen=0.00,Over=False)	-0.30
Z7	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp7	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbeo uwd,Regio=3,C0=Co7)	0.68 [kN/m²]
q58	Wrijving; Verdeelde element belasting (q)	(Cfr7*Qp7) * Lsys1	0.03 [kN/m]
q59	Interne druk; Verdeelde element belasting (q)	(Cpi7*Qp7) * Lsys1	-1.02 [kN/m]
Cpe38	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14)	-0.50
q60	Vertikale wand S3; Verdeelde element belasting (q)	(Qp7*Cpe38*CsCd7) * Lsys1	-1.45 [kN/m]
Cpe39	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.14)	0.80
C7	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe39-Cpe38) * 0.85	1.11
q61	Vertikale wand S3; Verdeelde element belasting (q)	(Qp7*(Cpe39-C7)*CsCd7) * Lsys1	-0.88 [kN/m]
q62	Vertikale wand S3; Verdeelde element belasting (q)	(Qp7*(Cpe38+C7)*CsCd7) * Lsys1	1.75 [kN/m]
Cpe40	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q63	Plat dak S10; Verdeelde element belasting (q)	(Qp7*Cpe40*CsCd7) * Lsys1	0.58 [kN/m]
Cpe41	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q64	Plat dak S80; Verdeelde element belasting (q)	(Qp7*Cpe41*CsCd7) * Lsys1	-2.03 [kN/m]
Cpe42	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q65	Plat dak S80; Verdeelde element belasting (q)	(Qp7*Cpe42*CsCd7) * Lsys1	-3.47 [kN/m]
q66	Vertikale wand S81; Verdeelde element belasting (q)	(Qp7*Cpe39*CsCd7) * Lsys1	2.32 [kN/m]
LR10			
Height9	Windbelasting van Rechts + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Width16	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width17	Gemiddelde breedte (b)	60.00	60.00 [m]
A8	Constructie diepte (d)	65.00	65.00 [m]
Co8	Belast oppervlak (A)	550.62	550.62 [m²]
Co8	Orthografie factor (C0)	1.00	1.00
CsCd8	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width16,h=Height9, Terrein=Onbebouwd,Regio=3,C0=Co8)	0.85
Cfr8	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe43	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14)	-0.50
Cpi8	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen=0.00,Over=False)	-0.30
Z8	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp8	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbeo uwd,Regio=3,C0=Co8)	0.68 [kN/m²]
q67	Wrijving; Verdeelde element belasting (q)	(Cfr8*Qp8) * Lsys1	0.03 [kN/m]
q68	Interne druk; Verdeelde element belasting (q)	(Cpi8*Qp8) * Lsys1	-1.02 [kN/m]
Cpe44	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.14,Eerst=False)	-0.50
q69	Vertikale wand S3; Verdeelde element belasting (q)	(Qp8*Cpe44*CsCd8) * Lsys1	-1.45 [kN/m]
Cpe45	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.14,Eerst=False)	0.80
C8	Vertikale wand S3; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe45-Cpe44) * 0.85	1.11
q70	Vertikale wand S3; Verdeelde element belasting (q)	(Qp8*(Cpe45-C8)*CsCd8) * Lsys1	-0.88 [kN/m]
q71	Vertikale wand S3; Verdeelde element belasting (q)	(Qp8*(Cpe44+C8)*CsCd8) * Lsys1	1.75 [kN/m]
Cpe46	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q72	Plat dak S10; Verdeelde element belasting (q)	(Qp8*Cpe46*CsCd8) * Lsys1	-0.58 [kN/m]
Cpe47	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0.70
q73	Plat dak S80; Verdeelde element belasting (q)	(Qp8*Cpe47*CsCd8) * Lsys1	-2.03 [kN/m]
Cpe48	Plat dak S80; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1.20
q74	Plat dak S80; Verdeelde element belasting (q)	(Qp8*Cpe48*CsCd8) * Lsys1	-3.47 [kN/m]
q75	Vertikale wand S81; Verdeelde element belasting (q)	(Qp8*Cpe45*CsCd8) * Lsys1	2.32 [kN/m]
LR11			
Height10	Windbelasting van Voren	NEN-EN1991-1-4:2011/NB:2011	
Width18	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width19	Gemiddelde breedte (b)	65.00	65.00 [m]
A9	Constructie diepte (d)	65.00	65.00 [m]
Co9	Belast oppervlak (A)	596.50	596.50 [m²]
Co9	Orthografie factor (C0)	1.00	1.00
CsCd9	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width18,h=Height1 0,Terrein=Onbebouwd,Regio=3,C0=Co9)	0.85
Cfr9	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01

Secundair vakwerk spant	Noveres Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR11			
Z9	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp9	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z9,Terrein=Onbebo uwd,Regio=3,C0=Co9)	0.68 [kN/m²]
q76	Wrijving; Verdeelde element belasting (q)	(Cfr9*Qp9) * Lsys1	0.03 [kN/m]
Cpe49	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B, hd=0.14)	-0.80
q77	Vertikale wand S3; Verdeelde element belasting (q)	(Qp9*Cpe49*CsCd9) * Lsys1	-2.32 [kN/m]
Cpe50	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q78	Plat dak S10; Verdeelde element belasting (q)	(Qp9*Cpe50*CsCd9) * Lsys1	0.58 [kN/m]
LR12			
	Windbelasting van Voren (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height11	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width20	Gemiddelde breedte (b)	65.00	65.00 [m]
Width21	Constructie diepte (d)	65.00	65.00 [m]
A10	Belast oppervlak (A)	596.50	596.50 [m²]
Co10	Orthografie factor (C0)	1.00	1.00
CsCd10	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width20,h=Height1 1,Terrein=Onbebouwd,Regio=3,C0=Co10)	0.85
Cfr10	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Z10	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp10	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z10,Terrein=Onbeb ouwd,Regio=3,C0=Co10)	0.68 [kN/m²]
q79	Wrijving; Verdeelde element belasting (q)	(Cfr10*Qp10) * Lsys1	0.03 [kN/m]
Cpe51	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B, hd=0.14,Eerst=False)	-0.80
q80	Vertikale wand S3; Verdeelde element belasting (q)	(Qp10*Cpe51*CsCd10) * Lsys1	-2.32 [kN/m]
Cpe52	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q81	Plat dak S10; Verdeelde element belasting (q)	(Qp10*Cpe52*CsCd10) * Lsys1	-0.58 [kN/m]
LR13			
	Windbelasting van Achteren	NEN-EN1991-1-4:2011/NB:2011	
Height12	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width22	Gemiddelde breedte (b)	65.00	65.00 [m]
Width23	Constructie diepte (d)	65.00	65.00 [m]
A11	Belast oppervlak (A)	596.50	596.50 [m²]
Co11	Orthografie factor (C0)	1.00	1.00
CsCd11	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width22,h=Height1 2,Terrein=Onbebouwd,Regio=3,C0=Co11)	0.85
Cfr11	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Z11	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp11	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z11,Terrein=Onbeb ouwd,Regio=3,C0=Co11)	0.68 [kN/m²]
q82	Wrijving; Verdeelde element belasting (q)	(Cfr11*Qp11) * Lsys1	0.03 [kN/m]
Cpe53	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C, hd=0.14)	-0.50
q83	Vertikale wand S3; Verdeelde element belasting (q)	(Qp11*Cpe53*CsCd11) * Lsys1	-1.45 [kN/m]
Cpe54	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q84	Plat dak S10; Verdeelde element belasting (q)	(Qp11*Cpe54*CsCd11) * Lsys1	0.58 [kN/m]
LR14			
	Windbelasting van Achteren (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height13	Totale hoogte (incl. gedeelte boven de grond) (h)	9.18	9.18 [m]
Width24	Gemiddelde breedte (b)	65.00	65.00 [m]
Width25	Constructie diepte (d)	65.00	65.00 [m]
A12	Belast oppervlak (A)	596.50	596.50 [m²]
Co12	Orthografie factor (C0)	1.00	1.00
CsCd12	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width24,h=Height1 3,Terrein=Onbebouwd,Regio=3,C0=Co12)	0.85
Cfr12	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Z12	z=h; (h<=b) voor knopen: K1,K2,K3,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K29,K30,K31,K32,K33,K37,K38,K39,K40,K41,K42,K43	9.18	9.18 [m]
Qp12	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z12,Terrein=Onbeb ouwd,Regio=3,C0=Co12)	0.68 [kN/m²]
q85	Wrijving; Verdeelde element belasting (q)	(Cfr12*Qp12) * Lsys1	0.03 [kN/m]
Cpe55	Vertikale wand S3; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C, hd=0.14,Eerst=False)	-0.50

Secundair vakwerk spant	Noveres Constructeurs	
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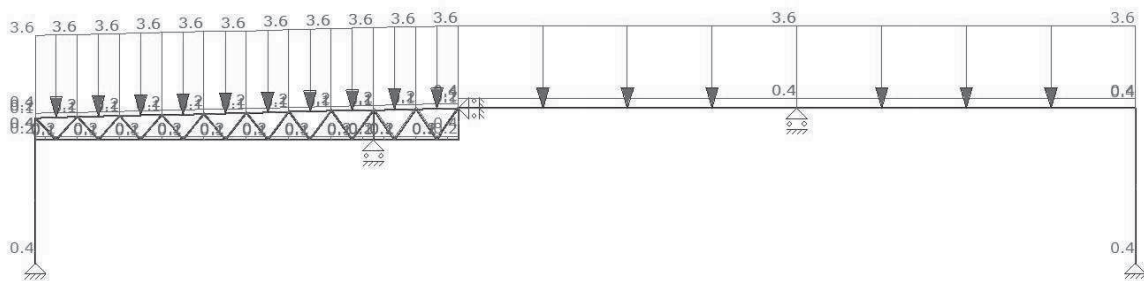
Index	Staven	Berekening	Waarde Eenheden
LR14			
q86	Vertikale wand S3; Verdeelde element belasting (q)	(Qp12*Cpe55*CsCd12) * Lsys1	-1.45 [kN/m]
Cpe56	Plat dak S10; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q87	Plat dak S10; Verdeelde element belasting (q)	(Qp12*Cpe56*CsCd12) * Lsys1	-0.58 [kN/m]
LR15			
	Sneeuwbelasting	NEN-EN1991-1-3:2011/NB:2011	
Sk1	Karakteristiek waarde van de sneeuwlast op de grond (Sk)	NEN-EN1991-1-3#4.1(Zone=1)	0.70 [kN/m²]
Ce1	De milieucoefficient (Ce)	NEN-EN1991-1-3#5.2.7()	1.00
Ct1	De thermische coefficient (Ct)	NEN-EN1991-1-3#5.2.8()	1.00
	Plat dak, Mu1 Hoek: 1.32; S10		
Mu1	Mu1; Sneeuwbelasting coefficient (Mu)	EN1991-1-3#5.3(Dak=Plat,Hoek=1.32,Mu= Mu1,Sk=Sk1)	0.80
q88	Verdeelde element belasting (q)	(Sk1*Ce1*Ct1*Mu1) * Lsys1	2.80 [kN/m]
	Plat dak, Mu1 Hoek: 0.00; S79		
Mu2	Mu1; Sneeuwbelasting coefficient (Mu)	EN1991-1-3#5.3(Dak=Plat,Mu=Mu1,Sk=Sk 1)	0.80
q89	Verdeelde element belasting (q)	(Sk1*Ce1*Ct1*Mu2) * Lsys1	2.80 [kN/m]

BELASTINGSGEVALLEN TYPEN

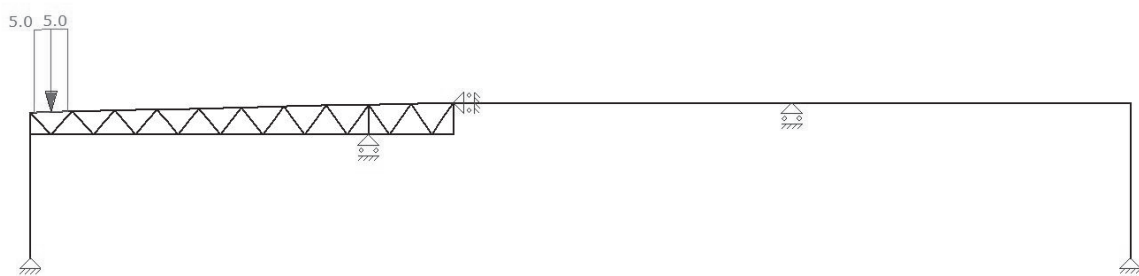
Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanente Belasting	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	2	1				1.00
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	3	3				1.00
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	4	5				1.00
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	5	7				1.00
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	6	9				1.00
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	7	11				1.00
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	8	13				1.00
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	9	15				1.00
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	10	17				1.00
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	11	20				1.00
B.G.12	Windbelasting van Links + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.16	Windbelasting van Links + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.20	Windbelasting van Rechts + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.24	Windbelasting van Rechts + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.28	Windbelasting van Voren	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.29	Windbelasting van Voren (2e Cpe)	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.30	Windbelasting van Achteren	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.31	Windbelasting van Achteren (2e Cpe)	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1.00
B.G.32	Sneeuwbelasting 1	Sneeuwbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.33	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				
B.G.34	Kniklengte (Symmetrisch)	Kniklengte			N.v.t.	N.v.t.				

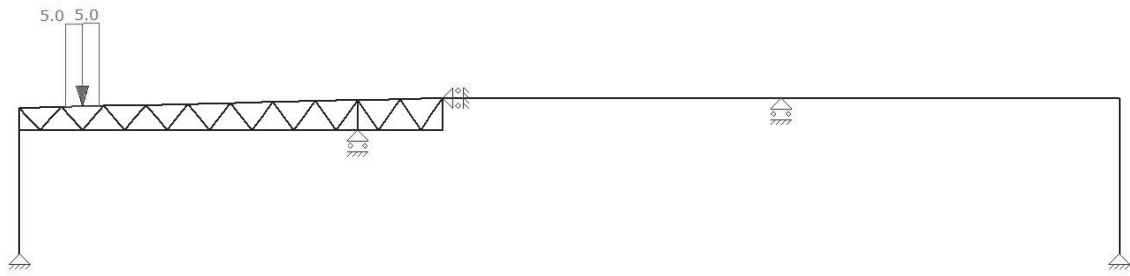
AFB. LASTEN B.G.1 PERMANENTE BELASTING



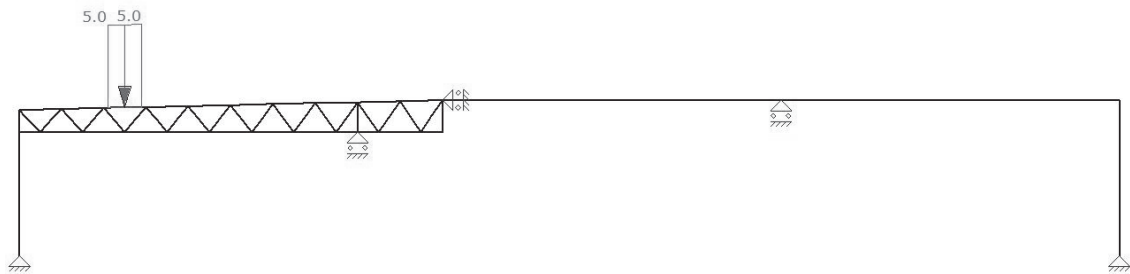
AFB. LASTEN B.G.2 OPGELEGDE BELASTINGEN. VLOER 2, VELD 1



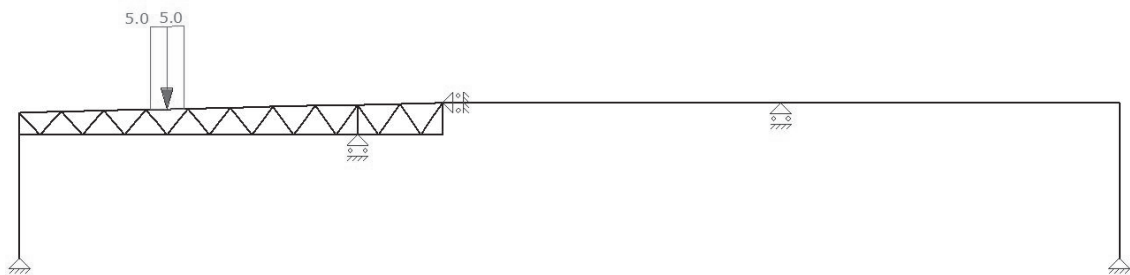
AFB. LASTEN B.G.3 OPGELEGDE BELASTINGEN. VLOER 3, VELD 3



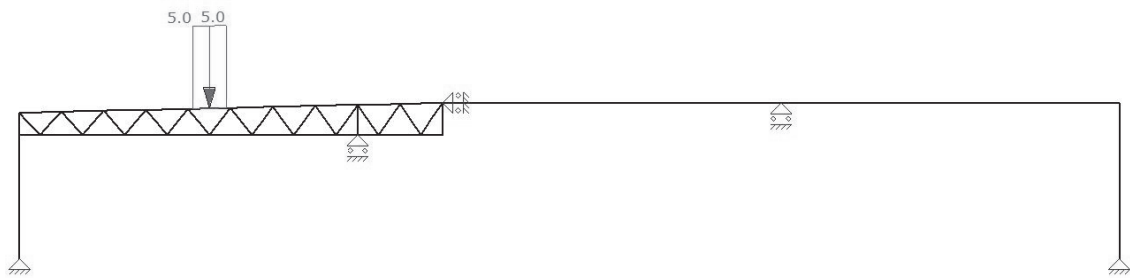
AFB. LASTEN B.G.4 OPGELEGDE BELASTINGEN. VLOER 4, VELD 5



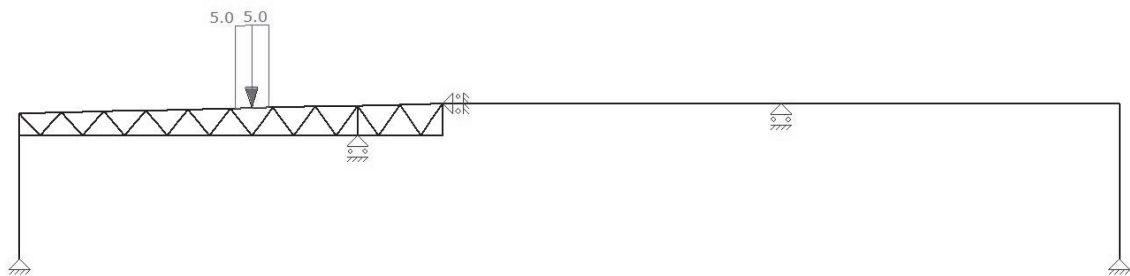
AFB. LASTEN B.G.5 OPGELEGDE BELASTINGEN. VLOER 5, VELD 7



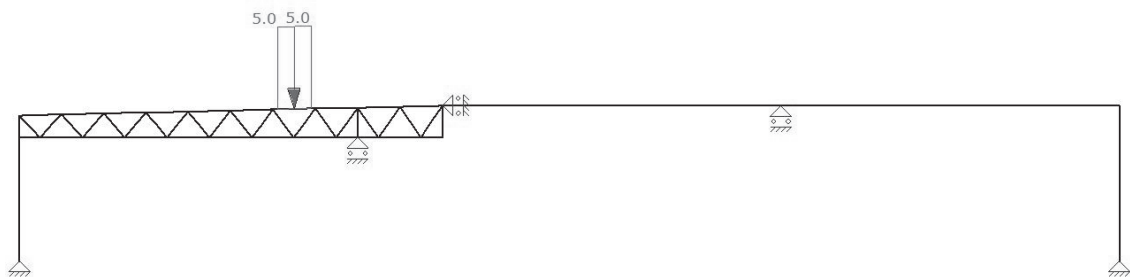
AFB. LASTEN B.G.6 OPGELEGDE BELASTINGEN. VLOER 6, VELD 9



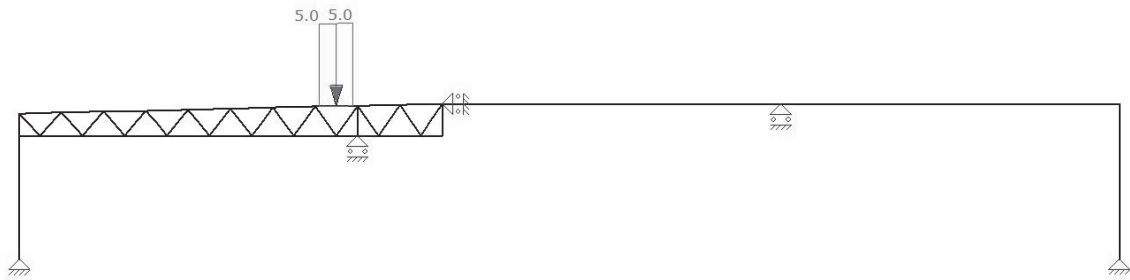
AFB. LASTEN B.G.7 OPGELEGDE BELASTINGEN. VLOER 7, VELD 11



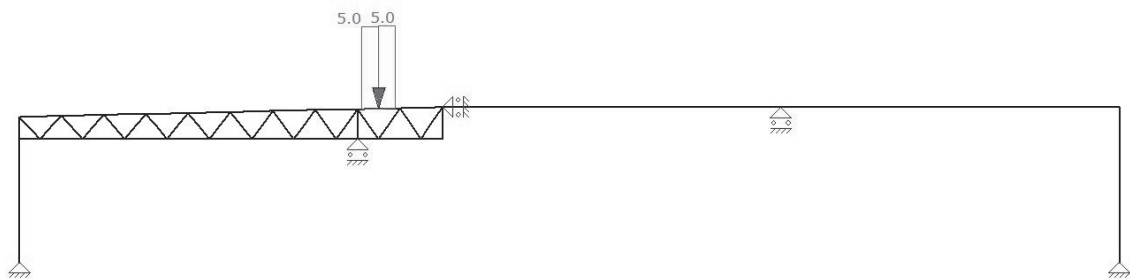
AFB. LASTEN B.G.8 OPGELEGDE BELASTINGEN. VLOER 8, VELD 13



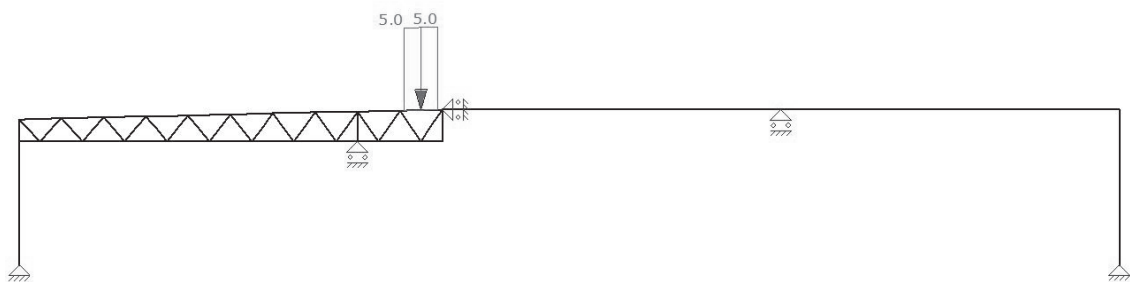
AFB. LASTEN B.G.9 OPGELEGDE BELASTINGEN. VLOER 9, VELD 15



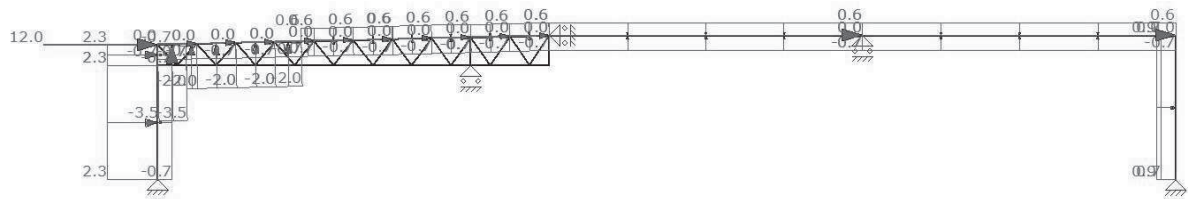
AFB. LASTEN B.G.10 OPGELEGDE BELASTINGEN. VLOER 10, VELD 17



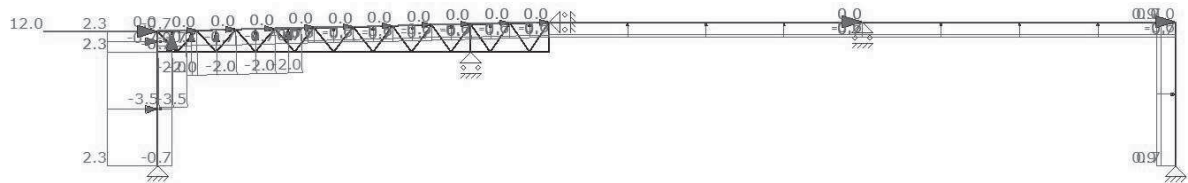
AFB. LASTEN B.G.11 OPGELEGDE BELASTINGEN. VLOER 11, VELD 20



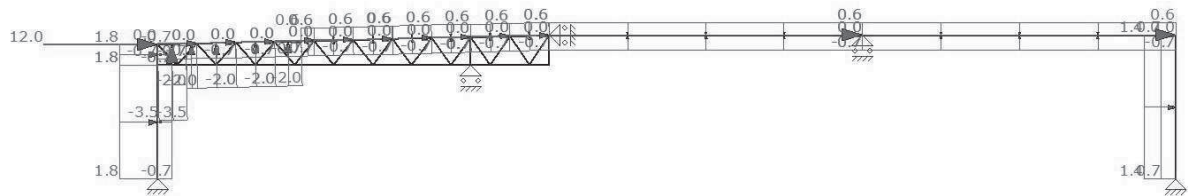
AFB. LASTEN B.G.12 WINDBELASTING VAN LINKS + OVERDRUK



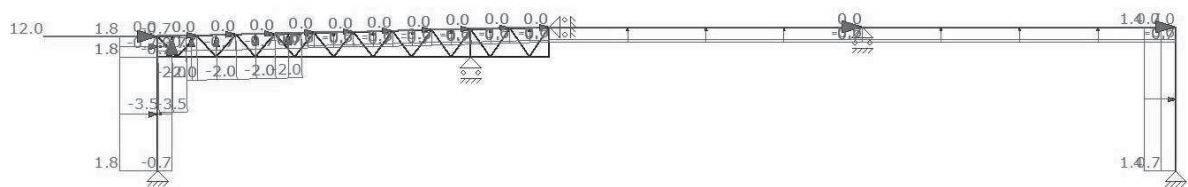
AFB. LASTEN B.G.13 WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)



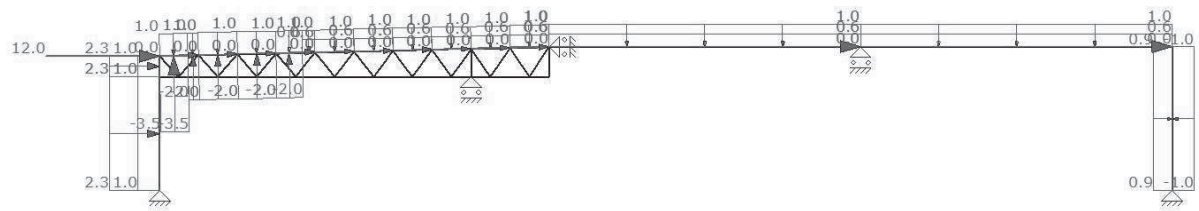
AFB. LASTEN B.G.14 WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



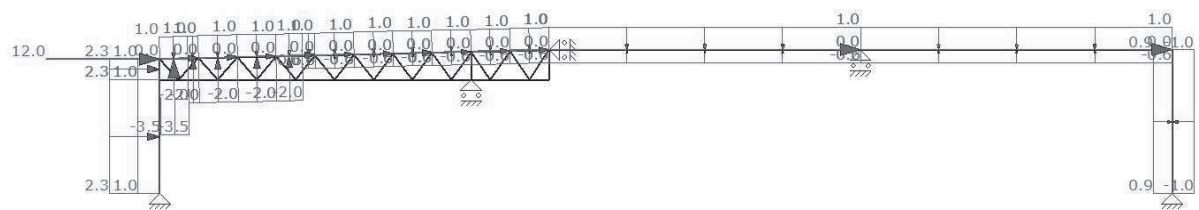
AFB. LASTEN B.G.15 WINDBELASTING VAN LINKS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



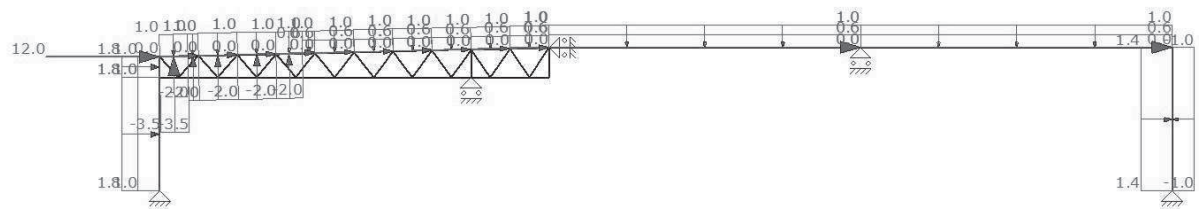
AFB. LASTEN B.G.16 WINDBELASTING VAN LINKS + ONDERDRUK



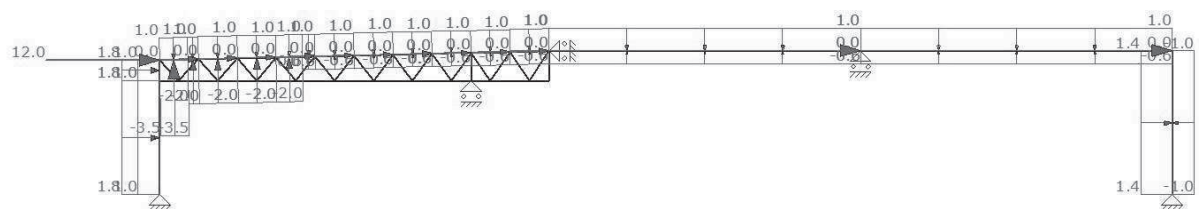
AFB. LASTEN B.G.17 WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE)



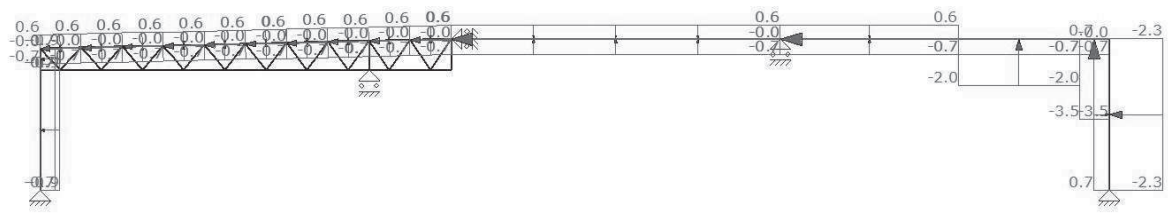
AFB. LASTEN B.G.18 WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)



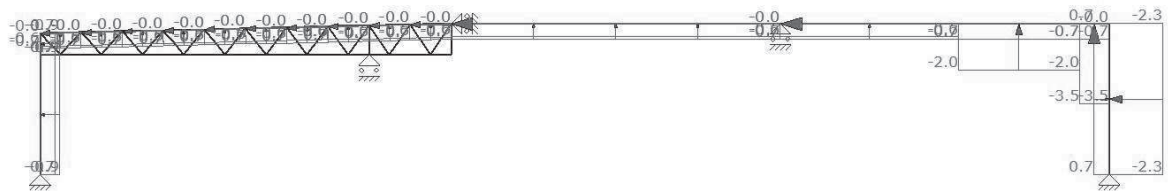
AFB. LASTEN B.G.19 WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



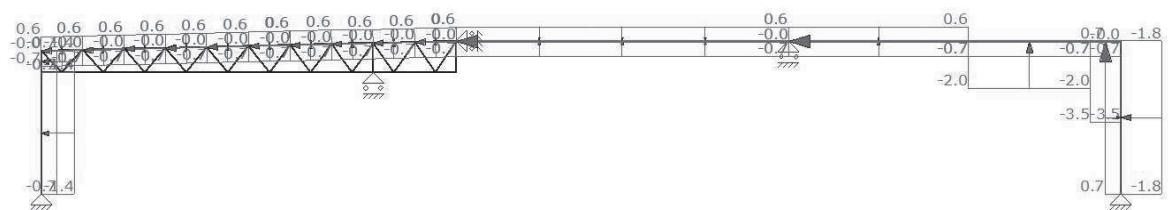
AFB. LASTEN B.G.20 WINDBELASTING VAN RECHTS + OVERDRUK



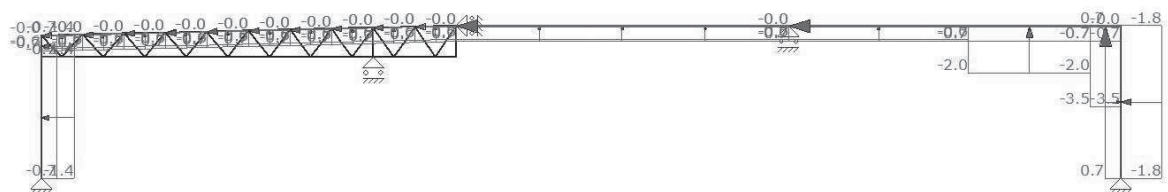
AFB. LASTEN B.G.21 WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)



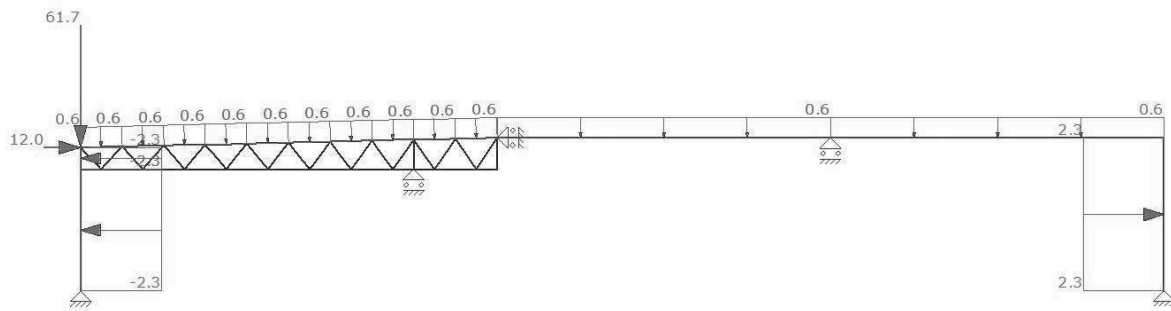
AFB. LASTEN B.G.22 WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)



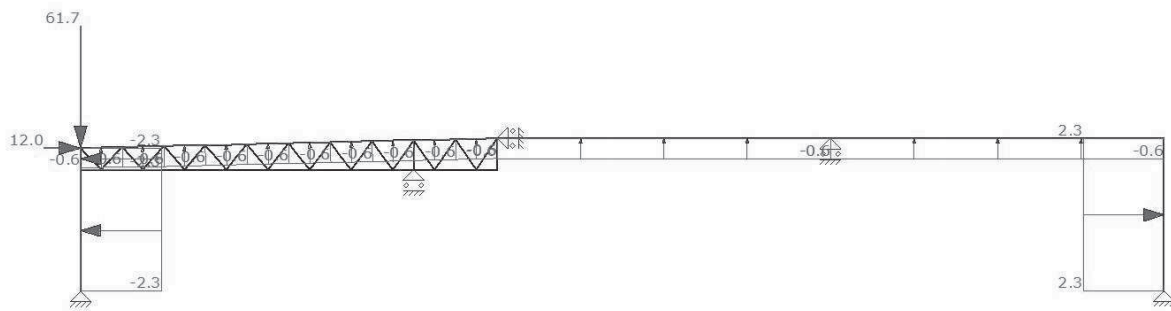
AFB. LASTEN B.G.23 WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



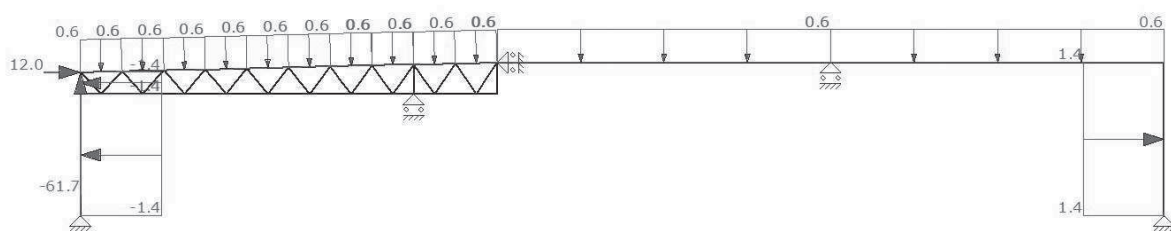
AFB. LASTEN B.G.28 WINDBELASTING VAN VOREN



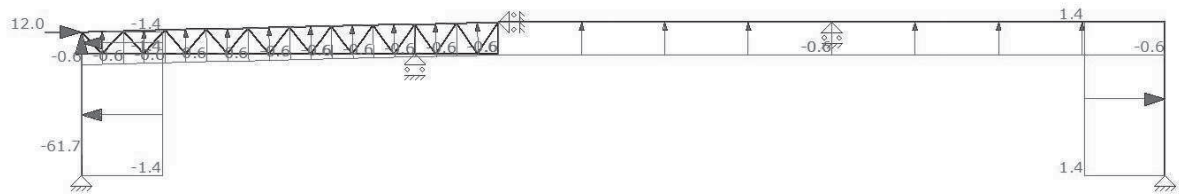
AFB. LASTEN B.G.29 WINDBELASTING VAN VOREN (2E CPE)



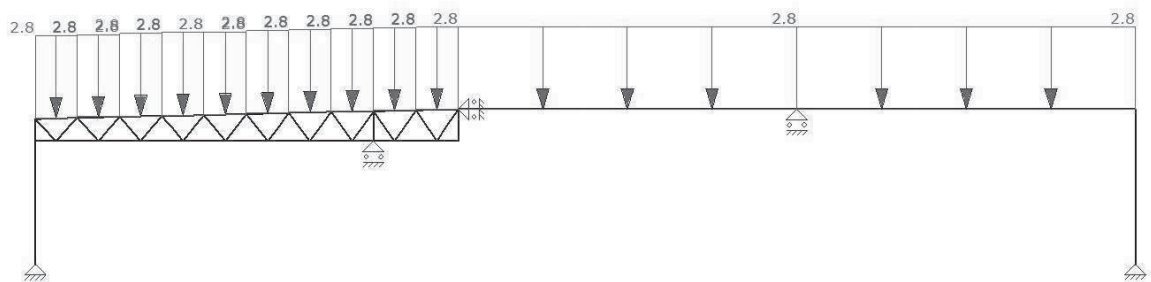
AFB. LASTEN B.G.30 WINDBELASTING VAN ACHTEREN



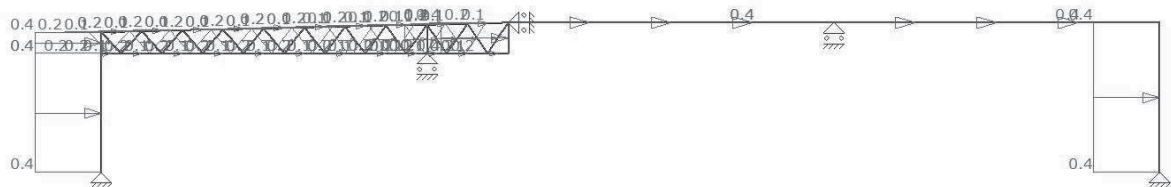
AFB. LASTEN B.G.31 WINDBELASTING VAN ACHTEREN (2E CPE)



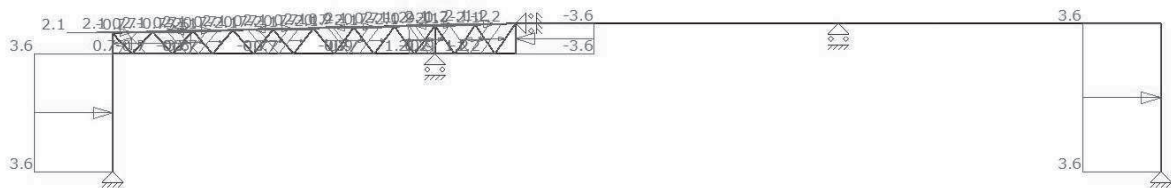
AFB. LASTEN B.G.32 SNEEUWBELASTING 1



AFB. LASTEN B.G.33 KNIKLINGTE (ASYMMETRISCH)



AFB. LASTEN B.G.34 KNIKLINGTE (SYMMETRISCH)



Secundair vakwerk spant	Noveres Constructeurs	
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FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5	Fu.C.6	Fu.C.7	Fu.C.8
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	1.50	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	1.50	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	1.50	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	1.50	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	1.50	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	1.50	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	1.50	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	1.50	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	1.50	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	1.50	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	1.50	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	1.50	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	1.50	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	1.50	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	1.50	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	1.50	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	1.50
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.9	Fu.C.10	Fu.C.11	Fu.C.12	Fu.C.13	Fu.C.14	Fu.C.15	Fu.C.16
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	1.50	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	1.50	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	1.50	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	1.50	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	1.50	-	-	-

Secundair vakwerk spant		Noveres Constructeurs							
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	1.50	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	1.50	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	1.50
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.17	Fu.C.18	Fu.C.19	Fu.C.20	Fu.C.21	Fu.C.22	Fu.C.23	Fu.C.24
B.G.1	Permanente Belasting	1.20	1.20	0.90	1.20	0.90	1.20	0.90	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	1.50	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	1.50	1.50	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	1.50	1.50	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	1.50	1.50	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	1.50
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.25	Fu.C.26	Fu.C.27	Fu.C.28	Fu.C.29	Fu.C.30	Fu.C.31	Fu.C.32
B.G.1	Permanente Belasting	0.90	1.20	1.35	0.90	1.20	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	1.50	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	1.50	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	1.50	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	1.50
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-

Secundair vakwerk spant		Noveres Constructeurs							
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	1.50	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	1.50	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.33	Fu.C.34	Fu.C.35	Fu.C.36	Fu.C.37	Fu.C.38	Fu.C.39	Fu.C.40
B.G.1	Permanente Belasting	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	1.50	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	1.50	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	1.50	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	1.50	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	1.50	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	1.50	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.41							
B.G.1	Permanente Belasting	1.20							
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-							
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-							
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-							
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-							

Secundair vakwerk spant	Noveres Constructeurs	
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B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-
B.G.12	Windbelasting van Links + Overdruk	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.16	Windbelasting van Links + Onderdruk	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.20	Windbelasting van Rechts + Overdruk	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.24	Windbelasting van Rechts + Onderdruk	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.28	Windbelasting van Voren	-
B.G.29	Windbelasting van Voren (2e Cpe)	-
B.G.30	Windbelasting van Achteren	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-
B.G.32	Sneeuwbelasting 1	-
B.G.33	Kniklengte (Assymetrisch)	-
B.G.34	Kniklengte (Symmetrisch)	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3	Ka.C.4	Ka.C.5	Ka.C.6	Ka.C.7
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	1.00	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	1.00	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	1.00	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	1.00	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	1.00	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	1.00
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-

Secundair vakwerk spant		Noveres Constructeurs							
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.8	Ka.C.9	Ka.C.10	Ka.C.11	Ka.C.12	Ka.C.13	Ka.C.14	Ka.C.15
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	1.00	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	1.00	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	1.00	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	1.00	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	1.00
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.16	Ka.C.17	Ka.C.18	Ka.C.19	Ka.C.20	Ka.C.21	Ka.C.22	Ka.C.23
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	1.00	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	1.00	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	1.00	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	1.00	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	1.00	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	1.00	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	1.00	-

Secundair vakwerk spant		Noveres Constructeurs							
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	1.00
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.24	Ka.C.25	Ka.C.26	Ka.C.27	Ka.C.28	Ka.C.29	Ka.C.30	Ka.C.31
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	1.00	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	1.00	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	1.00	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	1.00	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	1.00	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	1.00	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	1.00	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	1.00
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.32	Ka.C.33	Ka.C.34	Ka.C.35				
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00				
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-				
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-				
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-				
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-				
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-				
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-				
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-				
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-				
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-				
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-				

Secundair vakwerk spant		Noveres Constructeurs							
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-				
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-				
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-				
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-				
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-				
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-				
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-				
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-				
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-				
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-				
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-				
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-				
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.28	Windbelasting van Voren	-	-	-	-				
B.G.29	Windbelasting van Voren (2e Cpe)	1.00	-	-	-				
B.G.30	Windbelasting van Achteren	-	1.00	-	-				
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	1.00	-				
B.G.32	Sneeuwbelasting 1	-	-	-	-			1.00	
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-				
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-				

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1	Fr.C.2	Fr.C.3	Fr.C.4	Fr.C.5	Fr.C.6	Fr.C.7
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	0.20	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	0.20	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	0.20	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	0.20	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	0.20	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	0.20
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-

Secundair vakwerk spant		Noveres Constructeurs							
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B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.8	Fr.C.9	Fr.C.10	Fr.C.11	Fr.C.12	Fr.C.13	Fr.C.14	Fr.C.15
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	0.20	-	-	-	-	-	-	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	0.20	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk	-	-	0.20	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	0.20	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	0.20	-	-	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	0.20	-	-
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	0.20	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	0.20
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	-	-	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.16	Fr.C.17	Fr.C.18	Fr.C.19	Fr.C.20	Fr.C.21	Fr.C.22	
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-	-	-	-	-	-	-	
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-	-	-	-	-	-	-	
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-	-	-	-	-	-	-	
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-	-	-	-	-	-	-	
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-	-	-	-	-	-	-	
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-	-	-	-	-	-	-	
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-	-	-	-	-	-	-	
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-	-	-	-	-	-	-	
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-	-	-	-	-	-	-	
B.G.12	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	
B.G.16	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	
B.G.20	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	

Secundair vakwerk spant		Noveres Constructeurs						
B.G.24	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	0.20	-	-	-	-	-	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	0.20	-	-	-	-	-
B.G.28	Windbelasting van Voren	-	-	0.20	-	-	-	-
B.G.29	Windbelasting van Voren (2e Cpe)	-	-	-	0.20	-	-	-
B.G.30	Windbelasting van Achteren	-	-	-	-	0.20	-	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-	-	-	-	-	0.20	-
B.G.32	Sneeuwbelasting 1	-	-	-	-	-	-	0.20
B.G.33	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-
B.G.34	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanente Belasting	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-
B.G.3	Opgelegde belastingen. Vloer 3, Veld 3	-
B.G.4	Opgelegde belastingen. Vloer 4, Veld 5	-
B.G.5	Opgelegde belastingen. Vloer 5, Veld 7	-
B.G.6	Opgelegde belastingen. Vloer 6, Veld 9	-
B.G.7	Opgelegde belastingen. Vloer 7, Veld 11	-
B.G.8	Opgelegde belastingen. Vloer 8, Veld 13	-
B.G.9	Opgelegde belastingen. Vloer 9, Veld 15	-
B.G.10	Opgelegde belastingen. Vloer 10, Veld 17	-
B.G.11	Opgelegde belastingen. Vloer 11, Veld 20	-
B.G.12	Windbelasting van Links + Overdruk	-
B.G.13	Windbelasting van Links + Overdruk (2e Cpe)	-
B.G.14	Windbelasting van Links + Overdruk (2e corr. factor)	-
B.G.15	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.16	Windbelasting van Links + Onderdruk	-
B.G.17	Windbelasting van Links + Onderdruk (2e Cpe)	-
B.G.18	Windbelasting van Links + Onderdruk (2e corr. factor)	-
B.G.19	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.20	Windbelasting van Rechts + Overdruk	-
B.G.21	Windbelasting van Rechts + Overdruk (2e Cpe)	-
B.G.22	Windbelasting van Rechts + Overdruk (2e corr. factor)	-
B.G.23	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.24	Windbelasting van Rechts + Onderdruk	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e Cpe)	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-
B.G.27	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.28	Windbelasting van Voren	-
B.G.29	Windbelasting van Voren (2e Cpe)	-
B.G.30	Windbelasting van Achteren	-
B.G.31	Windbelasting van Achteren (2e Cpe)	-
B.G.32	Sneeuwbelasting 1	-
B.G.33	Kniklengte (Assymetrisch)	-
B.G.34	Kniklengte (Symmetrisch)	-

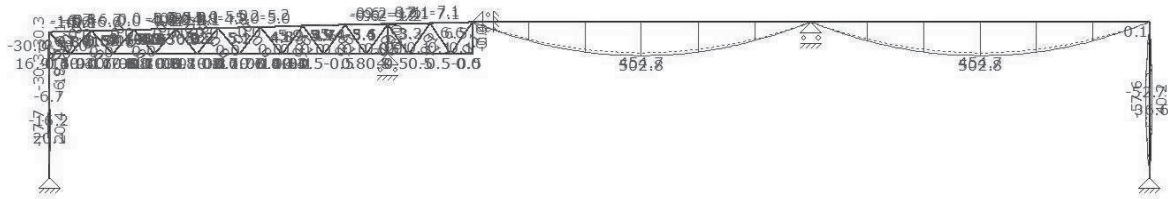
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

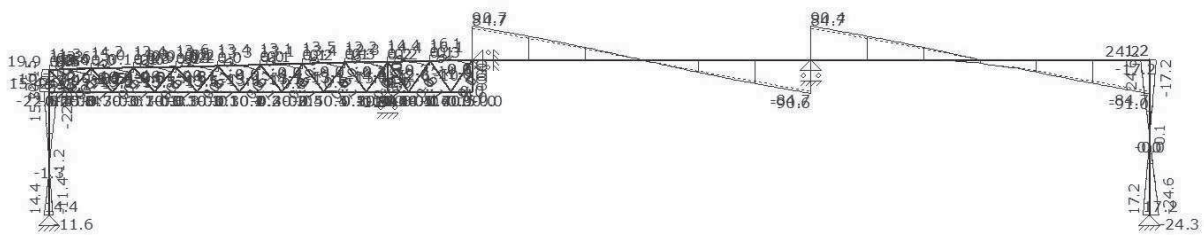
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



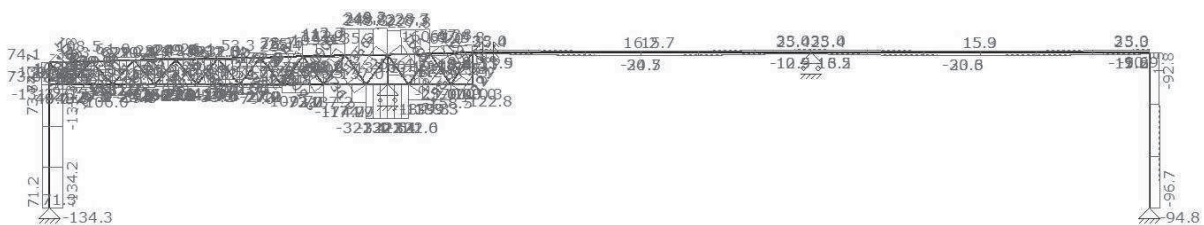
AFB. FU.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



FU.C. STAAFKRACHTEN ANALYSE

Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S3	Fu.C.1	0.00			-8.39	0.000	0.000 D	-94.53	-1.35	-1.35	-0.80
	Fu.C.2	0.00	10.20	2.920	-13.66	0.000	0.000 T	4.19	7.07	-10.82	-10.82
	Fu.C.3	0.00	10.26	2.920	-13.51	0.000	0.000 T	3.85	7.09	-10.80	-10.80
	Fu.C.4	0.00	6.63	2.920	-9.05	0.000	0.000 T	4.83	4.61	-7.10	-7.10
	Fu.C.5	0.00	6.69	2.920	-8.90	0.000	0.000 T	4.49	4.63	-7.08	-7.08
	Fu.C.6	0.00	20.34	2.920	-30.28	0.000	0.000 D	-27.21	14.36	-22.49	-22.49
	Fu.C.7	0.00	20.41	2.920	-30.13	0.000	0.000 D	-27.53	14.38	-22.47	-22.47
	Fu.C.8	0.00	16.70	2.920	-25.61	0.000	0.000 D	-26.60	11.86	-18.74	-18.74
	Fu.C.9	0.00	16.77	2.920	-25.46	0.000	0.000 D	-26.92	11.88	-18.72	-18.72
	Fu.C.10	0.00	-10.96	2.920	10.70	0.000	0.000 D	-25.54	-7.22	10.10	10.10
	Fu.C.11	0.00	-10.43	2.920	11.71	0.000	0.000 D	-13.52	-7.02	10.20	10.20
	Fu.C.12	0.00	-14.58	2.920	15.36	0.000	0.000 D	-24.86	-9.71	13.84	13.84
	Fu.C.13	0.00	-14.02	2.920	16.34	0.000	0.000 D	-12.84	-9.49	13.93	13.93
	Fu.C.14	0.00			-5.69	0.000	0.000 D	-54.79	-0.06	-1.44	-1.44
	Fu.C.15	0.00	0.02	0.365	-4.64	0.000	0.000 D	-42.72	0.11	-1.34	-1.34

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S3	Fu.C.16	0.00	-5.02	4.015	-0.97	0.000	0.000 D	-54.13	-2.59	-2.59	2.33
	Fu.C.17	0.00	-4.41	3.650	0.06	0.000	0.000 D	-42.07	-2.41	2.42	2.42
	Fu.C.18	0.00	-17.67	2.920	16.57	0.000	0.000 D	-134.20	-11.45	15.53	15.53
	Fu.C.19	0.00	-17.20	2.920	17.19	0.000	0.000 D	-124.69	-11.26	15.53	15.53
	Fu.C.20	0.00	-17.03	2.920	17.44	0.000	0.000 D	-122.19	-11.20	15.54	15.54
	Fu.C.21	0.00	-16.56	2.920	18.07	0.000	0.000 D	-112.69	-11.01	15.55	15.55
	Fu.C.22	0.00	-10.49	3.285	7.39	0.000	0.000 T	52.80	-6.68	8.77	8.77
	Fu.C.23	0.00	-10.09	3.285	8.14	0.000	0.000 T	61.54	-6.54	8.86	8.86
	Fu.C.24	0.00	-9.94	2.920	8.45	0.000	0.000 T	64.83	-6.49	8.90	8.90
	Fu.C.25	0.00	-9.59	2.920	9.21	0.000	0.000 T	73.57	-6.36	9.01	9.01
	Fu.C.26	0.00			-5.58	0.000	0.000 D	-66.95	-0.86	-0.86	-0.60
	Fu.C.27	0.00			-3.45	0.000	0.000 D	-42.64	-0.51	-0.51	-0.41
	Fu.C.28	0.00			-2.32	0.000	0.000 D	-28.43	-0.33	-0.33	-0.29
	Fu.C.29	0.00			-3.41	0.000	0.000 D	-52.03	-0.51	-0.51	-0.39
	Fu.C.30	0.00			-3.96	0.000	0.000 D	-50.19	-0.59	-0.59	-0.46
	Fu.C.31	0.00			-4.20	0.000	0.000 D	-48.33	-0.63	-0.63	-0.49
	Fu.C.32	0.00			-4.23	0.000	0.000 D	-46.46	-0.63	-0.63	-0.50
	Fu.C.33	0.00			-4.10	0.000	0.000 D	-44.58	-0.61	-0.61	-0.49
	Fu.C.34	0.00			-3.86	0.000	0.000 D	-42.69	-0.57	-0.57	-0.46
	Fu.C.35	0.00			-3.56	0.000	0.000 D	-40.80	-0.52	-0.52	-0.43
	Fu.C.36	0.00			-3.24	0.000	0.000 D	-38.90	-0.47	-0.47	-0.39
	Fu.C.37	0.00			-2.96	0.000	0.000 D	-37.00	-0.43	-0.43	-0.36
	Fu.C.38	0.00			-2.72	0.000	0.000 D	-35.11	-0.40	-0.40	-0.33
	Fu.C.39	0.00			-3.08	0.000	0.000 D	-37.95	-0.45	-0.45	-0.37
	Fu.C.40	0.00			-3.08	0.000	0.000 D	-37.95	-0.45	-0.45	-0.37
	Fu.C.41	0.00			-3.08	0.000	0.000 D	-37.95	-0.45	-0.45	-0.37
S4	Fu.C.1	-8.39			0.00	0.000	0.000 D	-91.01	6.41	6.49	6.49
	Fu.C.2	-13.66			0.00	0.000	0.000 T	4.63	12.10	12.10	8.91
	Fu.C.3	-13.51			0.00	0.000	0.000 T	4.28	11.99	11.99	8.79
	Fu.C.4	-9.05			0.00	0.000	0.000 T	5.28	8.01	8.01	5.92
	Fu.C.5	-8.90			0.00	0.000	0.000 T	4.93	7.89	7.89	5.80
	Fu.C.6	-30.28			0.00	0.000	0.000 D	-24.20	26.49	26.49	20.06
	Fu.C.7	-30.13			0.00	0.000	0.000 D	-24.52	26.38	26.38	19.95
	Fu.C.8	-25.61			0.00	0.000	0.000 D	-23.52	22.36	22.36	17.02
	Fu.C.9	-25.46			0.00	0.000	0.000 D	-23.84	22.24	22.24	16.90
	Fu.C.10	10.70			0.00	0.000	0.000 D	-23.05	-9.74	-9.74	-6.72
	Fu.C.11	11.71			0.00	0.000	0.000 D	-11.09	-10.52	-10.52	-7.49
	Fu.C.12	15.36			0.00	0.000	0.000 D	-22.39	-13.87	-13.87	-9.75
	Fu.C.13	16.34			0.00	0.000	0.000 D	-10.43	-14.63	-14.63	-10.50
	Fu.C.14	-5.69			0.00	0.000	0.000 D	-51.41	4.49	4.49	4.26
	Fu.C.15	-4.64			0.00	0.000	0.000 D	-39.39	3.69	3.69	3.44
	Fu.C.16	-0.97			0.00	0.000	0.000 D	-50.73	0.33	1.16	1.16
	Fu.C.17	0.06	-0.11	0.715	0.00	0.000	0.000 D	-38.72	-0.46	-0.46	0.37
	Fu.C.18	16.57			0.00	0.000	0.000 D	-130.75	-14.84	-14.84	-10.57
	Fu.C.19	17.19			0.00	0.000	0.000 D	-122.09	-15.32	-15.32	-11.04
	Fu.C.20	17.44			0.00	0.000	0.000 D	-118.80	-15.52	-15.52	-11.23
	Fu.C.21	18.07			0.00	0.000	0.000 D	-110.14	-16.01	-16.01	-11.71
	Fu.C.22	7.39			0.00	0.000	0.000 T	53.58	-7.13	-7.13	-4.26
	Fu.C.23	8.14			0.00	0.000	0.000 T	62.12	-7.71	-7.71	-4.83
	Fu.C.24	8.45			0.00	0.000	0.000 T	65.55	-7.95	-7.95	-5.07
	Fu.C.25	9.21			0.00	0.000	0.000 T	74.10	-8.55	-8.55	-5.65
	Fu.C.26	-5.58			0.00	0.000	0.000 D	-63.52	4.27	4.31	4.31
	Fu.C.27	-3.45			0.00	0.000	0.000 D	-38.91	2.64	2.66	2.66
	Fu.C.28	-2.32			0.00	0.000	0.000 D	-25.95	1.78	1.78	1.78
	Fu.C.29	-3.41			0.00	0.000	0.000 D	-48.64	2.61	2.63	2.63
	Fu.C.30	-3.96			0.00	0.000	0.000 D	-46.81	3.03	3.05	3.05
	Fu.C.31	-4.20			0.00	0.000	0.000 D	-45.00	3.22	3.24	3.24
	Fu.C.32	-4.23			0.00	0.000	0.000 D	-43.12	3.24	3.26	3.26
	Fu.C.33	-4.10			0.00	0.000	0.000 D	-41.25	3.14	3.16	3.16
	Fu.C.34	-3.86			0.00	0.000	0.000 D	-39.36	2.96	2.98	2.98
	Fu.C.35	-3.56			0.00	0.000	0.000 D	-37.47	2.73	2.75	2.75
	Fu.C.36	-3.24			0.00	0.000	0.000 D	-35.58	2.49	2.50	2.50
	Fu.C.37	-2.96			0.00	0.000	0.000 D	-33.69	2.27	2.28	2.28
	Fu.C.38	-2.72			0.00	0.000	0.000 D	-31.80	2.09	2.10	2.10
	Fu.C.39	-3.08			0.00	0.000	0.000 D	-34.63	2.36	2.37	2.37
	Fu.C.40	-3.08			0.00	0.000	0.000 D	-34.63	2.36	2.37	2.37

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S4	Fu.C.41	-3.08			0.00	0.000	0.000 D	-34.63	2.36	2.37	2.37
S6	Fu.C.1	0.00	0.02	0.902	0.00	0.000	0.000 T	108.55	0.03	-0.05	-0.05
	Fu.C.2	0.00	0.02	0.902	0.00	0.000	0.000 D	-2.77	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	0.902	0.00	0.000	0.000 D	-2.31	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	0.902	0.00	0.000	0.000 D	-3.77	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	0.902	0.00	0.000	0.000 D	-3.31	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	0.902	0.00	0.000	0.000 T	30.82	0.05	-0.05	-0.05
	Fu.C.7	0.00	0.02	0.902	0.00	0.000	0.000 T	31.25	0.05	-0.05	-0.05
	Fu.C.8	0.00	0.02	0.902	0.00	0.000	0.000 T	29.82	0.05	-0.05	-0.05
	Fu.C.9	0.00	0.02	0.902	0.00	0.000	0.000 T	30.25	0.05	-0.05	-0.05
	Fu.C.10	0.00	0.02	0.902	0.00	0.000	0.000 T	25.81	0.03	-0.04	-0.04
	Fu.C.11	0.00	0.02	0.902	0.00	0.000	0.000 T	11.95	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	0.902	0.00	0.000	0.000 T	24.80	0.03	-0.04	-0.04
	Fu.C.13	0.00	0.02	0.902	0.00	0.000	0.000 T	10.95	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.02	0.902	0.00	0.000	0.000 T	59.35	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.902	0.00	0.000	0.000 T	45.41	0.04	-0.05	-0.05
	Fu.C.16	0.00	0.02	0.902	0.00	0.000	0.000 T	58.32	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.902	0.00	0.000	0.000 T	44.39	0.04	-0.05	-0.05
	Fu.C.18	0.00	0.02	0.902	0.00	0.000	0.000 T	42.46	0.04	-0.05	-0.05
	Fu.C.19	0.00	0.02	0.902	0.00	0.000	0.000 T	32.48	0.03	-0.04	-0.04
	Fu.C.20	0.00	0.02	0.902	0.00	0.000	0.000 T	28.61	0.05	-0.05	-0.05
	Fu.C.21	0.00	0.02	0.902	0.00	0.000	0.000 T	18.64	0.03	-0.04	-0.04
	Fu.C.22	0.00	0.02	0.902	0.00	0.000	0.000 T	44.52	0.04	-0.05	-0.05
	Fu.C.23	0.00	0.02	0.902	0.00	0.000	0.000 T	34.51	0.03	-0.04	-0.04
	Fu.C.24	0.00	0.02	0.902	0.00	0.000	0.000 T	30.63	0.05	-0.05	-0.05
	Fu.C.25	0.00	0.02	0.902	0.00	0.000	0.000 T	20.63	0.03	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.902	0.00	0.000	0.000 T	73.29	0.04	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.902	0.00	0.000	0.000 T	44.76	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.02	0.902	0.00	0.000	0.000 T	29.84	0.03	-0.04	-0.04
	Fu.C.29	0.00	0.02	0.902	0.00	0.000	0.000 T	50.16	0.04	-0.05	-0.05
	Fu.C.30	0.00	0.02	0.902	0.00	0.000	0.000 T	57.47	0.04	-0.05	-0.05
	Fu.C.31	0.00	0.02	0.902	0.00	0.000	0.000 T	53.59	0.04	-0.05	-0.05
	Fu.C.32	0.00	0.02	0.902	0.00	0.000	0.000 T	51.42	0.04	-0.05	-0.05
	Fu.C.33	0.00	0.02	0.902	0.00	0.000	0.000 T	48.79	0.04	-0.05	-0.05
	Fu.C.34	0.00	0.02	0.902	0.00	0.000	0.000 T	46.26	0.04	-0.05	-0.05
	Fu.C.35	0.00	0.02	0.902	0.00	0.000	0.000 T	43.69	0.04	-0.05	-0.05
	Fu.C.36	0.00	0.02	0.902	0.00	0.000	0.000 T	41.12	0.04	-0.05	-0.05
	Fu.C.37	0.00	0.02	0.902	0.00	0.000	0.000 T	38.56	0.04	-0.05	-0.05
	Fu.C.38	0.00	0.02	0.902	0.00	0.000	0.000 T	35.99	0.04	-0.05	-0.05
	Fu.C.39	0.00	0.02	0.902	0.00	0.000	0.000 T	39.84	0.04	-0.05	-0.05
	Fu.C.40	0.00	0.02	0.902	0.00	0.000	0.000 T	39.84	0.04	-0.05	-0.05
	Fu.C.41	0.00	0.02	0.902	0.00	0.000	0.000 T	39.84	0.04	-0.05	-0.05
S7	Fu.C.1	0.00			0.37	0.000	0.000 D	-7.17	0.43	0.43	0.16
	Fu.C.2	0.00	0.00	0.188	-0.09	0.000	0.000 D	-22.92	0.03	-0.17	-0.17
	Fu.C.3	0.00	0.00	0.188	-0.09	0.000	0.000 D	-22.79	0.03	-0.17	-0.17
	Fu.C.4	0.00	0.00	0.250	-0.08	0.000	0.000 D	-15.11	0.04	-0.16	-0.16
	Fu.C.5	0.00	0.00	0.250	-0.08	0.000	0.000 D	-14.97	0.04	-0.16	-0.16
	Fu.C.6	0.00	0.03	0.563	-0.02	0.000	0.000 D	-48.95	0.12	-0.15	-0.15
	Fu.C.7	0.00	0.03	0.563	-0.02	0.000	0.000 D	-48.82	0.12	-0.14	-0.14
	Fu.C.8	0.00	0.04	0.625	-0.01	0.000	0.000 D	-41.08	0.13	-0.14	-0.14
	Fu.C.9	0.00	0.04	0.625	0.00	0.000	0.000 D	-40.94	0.13	-0.14	-0.14
	Fu.C.10	0.00	0.10	1.125	0.10	0.000	0.000 T	19.82	0.18	0.18	-0.02
	Fu.C.11	0.00	0.05	0.813	0.04	0.000	0.000 T	20.71	0.13	0.13	-0.07
	Fu.C.12	0.00	0.11	1.188	0.11	0.000	0.000 T	27.69	0.19	0.19	-0.01
	Fu.C.13	0.00	0.06	0.875	0.05	0.000	0.000 T	28.55	0.14	0.14	-0.06
	Fu.C.14	0.00			0.17	0.000	0.000 D	-5.93	0.27	0.27	0.01
	Fu.C.15	0.00	0.12	1.063	0.11	0.000	0.000 D	-5.02	0.22	0.22	-0.04
	Fu.C.16	0.00			0.19	0.000	0.000 T	2.00	0.28	0.28	0.02
	Fu.C.17	0.00	0.13	1.125	0.12	0.000	0.000 T	2.88	0.23	0.23	-0.03
	Fu.C.18	0.00			0.32	0.000	0.000 T	30.30	0.38	0.38	0.12
	Fu.C.19	0.00			0.29	0.000	0.000 T	30.78	0.33	0.33	0.14
	Fu.C.20	0.00			0.25	0.000	0.000 T	30.98	0.33	0.33	0.07
	Fu.C.21	0.00			0.23	0.000	0.000 T	31.48	0.28	0.28	0.08
	Fu.C.22	0.00	0.11	1.063	0.11	0.000	0.000 T	15.91	0.22	0.22	-0.05
	Fu.C.23	0.00	0.09	1.063	0.08	0.000	0.000 T	16.59	0.16	0.16	-0.03
	Fu.C.24	0.00	0.07	0.813	0.05	0.000	0.000 T	16.87	0.17	0.17	-0.10

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S7	Fu.C.25	0.00	0.04	0.750	0.02	0.000	0.000 T	17.58	0.12	0.12	-0.08
	Fu.C.26	0.00			0.24	0.000	0.000 D	-4.86	0.33	0.33	0.06
	Fu.C.27	0.00	0.11	1.000	0.10	0.000	0.000 D	-3.05	0.23	0.23	-0.07
	Fu.C.28	0.00	0.07	0.938	0.07	0.000	0.000 D	-2.07	0.15	0.15	-0.04
	Fu.C.29	0.00			0.19	0.000	0.000 D	-3.00	0.28	0.28	0.02
	Fu.C.30	0.00			0.17	0.000	0.000 D	-3.49	0.27	0.27	0.01
	Fu.C.31	0.00	0.12	1.063	0.11	0.000	0.000 D	-3.70	0.22	0.22	-0.04
	Fu.C.32	0.00	0.13	1.125	0.13	0.000	0.000 D	-3.73	0.23	0.23	-0.03
	Fu.C.33	0.00	0.12	1.063	0.11	0.000	0.000 D	-3.62	0.22	0.22	-0.04
	Fu.C.34	0.00	0.11	1.063	0.11	0.000	0.000 D	-3.41	0.22	0.22	-0.05
	Fu.C.35	0.00	0.11	1.000	0.10	0.000	0.000 D	-3.15	0.21	0.21	-0.05
	Fu.C.36	0.00	0.10	1.000	0.09	0.000	0.000 D	-2.87	0.21	0.21	-0.06
	Fu.C.37	0.00	0.10	0.938	0.09	0.000	0.000 D	-2.62	0.20	0.20	-0.06
	Fu.C.38	0.00	0.09	0.938	0.08	0.000	0.000 D	-2.42	0.20	0.20	-0.07
	Fu.C.39	0.00	0.10	1.000	0.09	0.000	0.000 D	-2.73	0.20	0.20	-0.06
	Fu.C.40	0.00	0.10	1.000	0.09	0.000	0.000 D	-2.73	0.20	0.20	-0.06
	Fu.C.41	0.00	0.10	1.000	0.09	0.000	0.000 D	-2.73	0.20	0.20	-0.06
S9	Fu.C.1	0.00	0.04	0.924	0.00	0.000	0.000 D	-105.99	0.09	0.09	-0.07
	Fu.C.2	0.00	0.02	0.924	0.00	0.000	0.000 T	3.35	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	0.924	0.00	0.000	0.000 T	2.89	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	0.924	0.00	0.000	0.000 T	4.31	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	0.924	0.00	0.000	0.000 T	3.86	0.04	0.04	-0.04
	Fu.C.6	0.00	0.03	0.924	0.00	0.000	0.000 D	-29.46	0.06	0.06	-0.06
	Fu.C.7	0.00	0.03	0.924	0.00	0.000	0.000 D	-29.88	0.06	0.06	-0.06
	Fu.C.8	0.00	0.03	0.924	0.00	0.000	0.000 D	-28.48	0.06	0.06	-0.06
	Fu.C.9	0.00	0.03	0.924	0.00	0.000	0.000 D	-28.90	0.06	0.06	-0.06
	Fu.C.10	0.00	0.02	0.924	0.00	0.000	0.000 D	-24.86	0.04	0.04	-0.04
	Fu.C.11	0.00	0.02	0.924	0.00	0.000	0.000 D	-11.22	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	0.924	0.00	0.000	0.000 D	-23.89	0.04	0.04	-0.04
	Fu.C.13	0.00	0.02	0.924	0.00	0.000	0.000 D	-10.25	0.04	0.04	-0.04
	Fu.C.14	0.00	0.03	0.924	0.00	0.000	0.000 D	-57.60	0.06	0.06	-0.06
	Fu.C.15	0.00	0.03	0.924	0.00	0.000	0.000 D	-43.89	0.06	0.06	-0.06
	Fu.C.16	0.00	0.03	0.924	0.00	0.000	0.000 D	-56.61	0.06	0.06	-0.06
	Fu.C.17	0.00	0.03	0.924	0.00	0.000	0.000 D	-42.91	0.06	0.06	-0.06
	Fu.C.18	0.00	0.03	0.924	0.00	0.000	0.000 D	-41.32	0.06	0.06	-0.06
	Fu.C.19	0.00	0.02	0.924	0.00	0.000	0.000 D	-31.70	0.04	0.04	-0.04
	Fu.C.20	0.00	0.03	0.924	0.00	0.000	0.000 D	-27.68	0.06	0.06	-0.05
	Fu.C.21	0.00	0.02	0.924	0.00	0.000	0.000 D	-18.06	0.04	0.04	-0.04
	Fu.C.22	0.00	0.03	0.924	0.00	0.000	0.000 D	-42.97	0.06	0.06	-0.06
	Fu.C.23	0.00	0.02	0.924	0.00	0.000	0.000 D	-33.32	0.04	0.04	-0.04
	Fu.C.24	0.00	0.03	0.924	0.00	0.000	0.000 D	-29.30	0.06	0.06	-0.05
	Fu.C.25	0.00	0.02	0.924	0.00	0.000	0.000 D	-19.65	0.04	0.04	-0.04
	Fu.C.26	0.00	0.03	0.924	0.00	0.000	0.000 D	-71.34	0.07	0.07	-0.06
	Fu.C.27	0.00	0.03	0.924	0.00	0.000	0.000 D	-43.15	0.07	0.07	-0.06
	Fu.C.28	0.00	0.02	0.924	0.00	0.000	0.000 D	-28.77	0.04	0.04	-0.04
	Fu.C.29	0.00	0.03	0.924	0.00	0.000	0.000 D	-48.66	0.06	0.06	-0.06
	Fu.C.30	0.00	0.03	0.924	0.00	0.000	0.000 D	-55.76	0.06	0.06	-0.06
	Fu.C.31	0.00	0.03	0.924	0.00	0.000	0.000 D	-51.87	0.06	0.06	-0.06
	Fu.C.32	0.00	0.03	0.924	0.00	0.000	0.000 D	-49.80	0.06	0.06	-0.06
	Fu.C.33	0.00	0.03	0.924	0.00	0.000	0.000 D	-47.19	0.06	0.06	-0.06
	Fu.C.34	0.00	0.03	0.924	0.00	0.000	0.000 D	-44.71	0.06	0.06	-0.06
	Fu.C.35	0.00	0.03	0.924	0.00	0.000	0.000 D	-42.19	0.06	0.06	-0.06
	Fu.C.36	0.00	0.03	0.924	0.00	0.000	0.000 D	-39.67	0.06	0.06	-0.06
	Fu.C.37	0.00	0.03	0.924	0.00	0.000	0.000 D	-37.15	0.06	0.06	-0.06
	Fu.C.38	0.00	0.03	0.924	0.00	0.000	0.000 D	-34.63	0.06	0.06	-0.06
	Fu.C.39	0.00	0.03	0.924	0.00	0.000	0.000 D	-38.41	0.06	0.06	-0.06
	Fu.C.40	0.00	0.03	0.924	0.00	0.000	0.000 D	-38.41	0.06	0.06	-0.06
	Fu.C.41	0.00	0.03	0.924	0.00	0.000	0.000 D	-38.41	0.06	0.06	-0.06
S10	Fu.C.1	0.00	6.34	1.002	-6.72	0.000	0.000 D	-68.91	10.83	-16.08	-16.08
	Fu.C.2	0.00	-1.49	1.002	0.99	0.000	0.000 D	-7.05	-2.88	-2.88	2.60
	Fu.C.3	0.00	-1.49	1.002	0.99	0.000	0.000 D	-7.49	-2.88	-2.88	2.60
	Fu.C.4	0.00	-1.48	1.002	1.02	0.000	0.000 D	-9.36	-2.87	-2.87	2.61
	Fu.C.5	0.00	-1.48	1.002	1.02	0.000	0.000 D	-9.79	-2.87	-2.87	2.61
	Fu.C.6	0.00	0.43	1.002	-1.22	0.000	0.000 D	-19.24	0.90	-2.94	-2.94
	Fu.C.7	0.00	0.43	1.002	-1.22	0.000	0.000 D	-19.65	0.91	-2.94	-2.94
	Fu.C.8	0.00	0.44	1.002	-1.19	0.000	0.000 D	-21.58	0.92	-2.93	-2.93

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S10	Fu.C.9	0.00	0.44	1.002	-1.19	0.000	0.000 D	-21.99	0.92	-2.93	-2.93
	Fu.C.10	0.00	1.79	1.002	-1.81	0.000	0.000 D	-24.65	3.45	-4.89	-4.89
	Fu.C.11	0.00	0.87	1.002	-0.81	0.000	0.000 D	-15.78	1.66	-2.31	-2.31
	Fu.C.12	0.00	1.80	1.002	-1.79	0.000	0.000 D	-26.98	3.46	-4.88	-4.88
	Fu.C.13	0.00	0.88	1.002	-0.79	0.000	0.000 D	-18.10	1.67	-2.30	-2.30
	Fu.C.14	0.00	3.73	1.002	-4.04	0.000	0.000 D	-37.00	7.26	-10.45	-10.45
	Fu.C.15	0.00	2.80	1.002	-3.03	0.000	0.000 D	-28.12	5.46	-7.86	-7.86
	Fu.C.16	0.00	3.74	1.002	-4.01	0.000	0.000 D	-39.37	7.28	-10.44	-10.44
	Fu.C.17	0.00	2.81	1.002	-3.00	0.000	0.000 D	-30.48	5.48	-7.85	-7.85
	Fu.C.18	0.00	3.00	1.002	-2.99	0.000	0.000 D	-58.14	5.78	-8.13	-8.13
	Fu.C.19	0.00	2.38	1.002	-2.32	0.000	0.000 D	-51.65	4.57	-6.39	-6.39
	Fu.C.20	0.00	2.07	1.002	-1.98	0.000	0.000 D	-49.13	3.97	-5.53	-5.53
	Fu.C.21	0.00	1.45	1.002	-1.32	0.000	0.000 D	-42.65	2.76	-3.80	-3.80
	Fu.C.22	0.00	2.98	1.002	-3.04	0.000	0.000 D	-52.96	5.75	-8.14	-8.14
	Fu.C.23	0.00	2.35	1.002	-2.37	0.000	0.000 D	-46.62	4.54	-6.41	-6.41
	Fu.C.24	0.00	2.05	1.002	-2.03	0.000	0.000 D	-44.15	3.95	-5.55	-5.55
	Fu.C.25	0.00	1.43	1.002	-1.36	0.000	0.000 D	-37.82	2.74	-3.82	-3.82
	Fu.C.26	0.00	4.69	1.002	-5.08	0.000	0.000 D	-46.64	9.14	-13.14	-13.14
	Fu.C.27	0.00	2.76	1.002	-2.97	0.000	0.000 D	-28.44	5.37	-7.72	-7.72
	Fu.C.28	0.00	1.83	1.002	-1.97	0.000	0.000 D	-18.95	3.57	-5.14	-5.14
	Fu.C.29	0.00	6.84	1.127	-5.37	0.000	0.000 D	-32.32	11.26	-15.51	-15.51
	Fu.C.30	0.00	1.70	0.877	-4.64	0.000	0.000 D	-36.84	3.98	-7.64	-7.64
	Fu.C.31	0.00	2.73	1.127	-2.00	0.000	0.000 D	-33.98	5.05	-6.63	-6.63
	Fu.C.32	0.00	2.43	1.002	-2.72	0.000	0.000 D	-32.45	4.76	-6.90	-6.90
	Fu.C.33	0.00	2.49	1.002	-2.55	0.000	0.000 D	-30.73	4.82	-6.84	-6.84
	Fu.C.34	0.00	2.47	1.002	-2.61	0.000	0.000 D	-29.16	4.79	-6.86	-6.86
	Fu.C.35	0.00	2.46	1.002	-2.61	0.000	0.000 D	-27.61	4.79	-6.86	-6.86
	Fu.C.36	0.00	2.46	1.002	-2.63	0.000	0.000 D	-26.08	4.78	-6.87	-6.87
	Fu.C.37	0.00	2.45	1.002	-2.65	0.000	0.000 D	-24.52	4.77	-6.87	-6.87
	Fu.C.38	0.00	2.44	1.002	-2.66	0.000	0.000 D	-22.92	4.77	-6.88	-6.88
	Fu.C.39	0.00	2.45	1.002	-2.64	0.000	0.000 D	-25.31	4.78	-6.87	-6.87
	Fu.C.40	0.00	2.45	1.002	-2.64	0.000	0.000 D	-25.31	4.78	-6.87	-6.87
	Fu.C.41	0.00	2.45	1.002	-2.64	0.000	0.000 D	-25.31	4.78	-6.87	-6.87
S12	Fu.C.1	0.00	0.02	0.921	0.00	0.000	0.000 T	60.83	0.04	-0.05	-0.05
	Fu.C.2	0.00	0.02	0.921	0.00	0.000	0.000 T	1.67	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	0.921	0.00	0.000	0.000 T	2.10	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	0.921	0.00	0.000	0.000 T	0.77	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	0.921	0.00	0.000	0.000 T	1.20	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	0.921	0.00	0.000	0.000 T	18.96	0.05	-0.05	-0.05
	Fu.C.7	0.00	0.02	0.921	0.00	0.000	0.000 T	19.36	0.05	-0.05	-0.05
	Fu.C.8	0.00	0.02	0.921	0.00	0.000	0.000 T	18.05	0.05	-0.05	-0.05
	Fu.C.9	0.00	0.02	0.921	0.00	0.000	0.000 T	18.45	0.05	-0.05	-0.05
	Fu.C.10	0.00	0.02	0.921	0.00	0.000	0.000 T	11.29	0.04	-0.04	-0.04
	Fu.C.11	0.00	0.02	0.921	0.00	0.000	0.000 T	4.75	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	0.921	0.00	0.000	0.000 T	10.38	0.04	-0.04	-0.04
	Fu.C.13	0.00	0.02	0.921	0.00	0.000	0.000 T	3.84	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.02	0.921	0.00	0.000	0.000 T	28.56	0.05	-0.05	-0.05
	Fu.C.15	0.00	0.02	0.921	0.00	0.000	0.000 T	21.96	0.05	-0.05	-0.05
	Fu.C.16	0.00	0.02	0.921	0.00	0.000	0.000 T	27.63	0.05	-0.05	-0.05
	Fu.C.17	0.00	0.02	0.921	0.00	0.000	0.000 T	21.04	0.05	-0.05	-0.05
	Fu.C.18	0.00	0.02	0.921	0.00	0.000	0.000 T	18.82	0.05	-0.05	-0.05
	Fu.C.19	0.00	0.02	0.921	0.00	0.000	0.000 T	14.03	0.04	-0.04	-0.04
	Fu.C.20	0.00	0.02	0.921	0.00	0.000	0.000 T	12.30	0.05	-0.05	-0.05
	Fu.C.21	0.00	0.02	0.921	0.00	0.000	0.000 T	7.51	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.02	0.921	0.00	0.000	0.000 T	20.37	0.05	-0.05	-0.05
	Fu.C.23	0.00	0.02	0.921	0.00	0.000	0.000 T	15.56	0.04	-0.04	-0.04
	Fu.C.24	0.00	0.02	0.921	0.00	0.000	0.000 T	13.81	0.05	-0.05	-0.05
	Fu.C.25	0.00	0.02	0.921	0.00	0.000	0.000 T	9.00	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.921	0.00	0.000	0.000 T	34.95	0.04	-0.05	-0.05
	Fu.C.27	0.00	0.02	0.921	0.00	0.000	0.000 T	21.58	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.02	0.921	0.00	0.000	0.000 T	14.40	0.04	-0.04	-0.04
	Fu.C.29	0.00	0.02	0.921	0.00	0.000	0.000 T	15.70	0.05	-0.05	-0.05
	Fu.C.30	0.00	0.02	0.921	0.00	0.000	0.000 T	24.81	0.05	-0.05	-0.05
	Fu.C.31	0.00	0.02	0.921	0.00	0.000	0.000 T	33.85	0.04	-0.05	-0.05
	Fu.C.32	0.00	0.02	0.921	0.00	0.000	0.000 T	29.63	0.05	-0.05	-0.05
	Fu.C.33	0.00	0.02	0.921	0.00	0.000	0.000 T	27.73	0.05	-0.05	-0.05

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S12	Fu.C.34	0.00	0.02	0.921	0.00	0.000	0.000 T	25.21	0.05	-0.05	-0.05
	Fu.C.35	0.00	0.02	0.921	0.00	0.000	0.000 T	22.83	0.05	-0.05	-0.05
	Fu.C.36	0.00	0.02	0.921	0.00	0.000	0.000 T	20.42	0.05	-0.05	-0.05
	Fu.C.37	0.00	0.02	0.921	0.00	0.000	0.000 T	18.01	0.05	-0.05	-0.05
	Fu.C.38	0.00	0.02	0.921	0.00	0.000	0.000 T	15.60	0.05	-0.05	-0.05
	Fu.C.39	0.00	0.02	0.921	0.00	0.000	0.000 T	19.21	0.05	-0.05	-0.05
	Fu.C.40	0.00	0.02	0.921	0.00	0.000	0.000 T	19.21	0.05	-0.05	-0.05
	Fu.C.41	0.00	0.02	0.921	0.00	0.000	0.000 T	19.21	0.05	-0.05	-0.05
S13	Fu.C.1	0.37	0.69	2.250	0.69	0.000	0.000 T	139.87	0.29	0.29	-0.04
	Fu.C.2	-0.09	0.01	1.125	-0.14	0.000	0.000 D	-27.06	0.18	-0.22	-0.22
	Fu.C.3	-0.09	0.01	1.125	-0.14	0.000	0.000 D	-26.30	0.18	-0.22	-0.22
	Fu.C.4	-0.08	0.02	1.125	-0.13	0.000	0.000 D	-20.59	0.18	-0.22	-0.22
	Fu.C.5	-0.08	0.02	1.125	-0.13	0.000	0.000 D	-19.83	0.18	-0.22	-0.22
	Fu.C.6	-0.02	0.16	1.375	0.01	0.000	0.000 D	-7.68	0.28	0.28	-0.25
	Fu.C.7	-0.02	0.17	1.375	0.02	0.000	0.000 D	-6.96	0.28	0.28	-0.25
	Fu.C.8	-0.01	0.17	1.250	0.03	0.000	0.000 D	-1.16	0.28	0.28	-0.25
	Fu.C.9	0.00	0.18	1.250	0.03	0.000	0.000 D	-0.45	0.28	0.28	-0.25
	Fu.C.10	0.10	0.24	1.375	0.15	0.000	0.000 T	54.52	0.20	0.20	-0.16
	Fu.C.11	0.04	0.16	1.250	0.05	0.000	0.000 T	36.55	0.20	0.20	-0.19
	Fu.C.12	0.11	0.25	1.375	0.16	0.000	0.000 T	61.02	0.20	0.20	-0.16
	Fu.C.13	0.05	0.17	1.250	0.06	0.000	0.000 T	43.04	0.19	0.19	-0.19
	Fu.C.14	0.17	0.40	1.500	0.32	0.000	0.000 T	74.21	0.29	0.29	-0.18
	Fu.C.15	0.11	0.32	1.500	0.21	0.000	0.000 T	56.15	0.29	0.29	-0.21
	Fu.C.16	0.19	0.41	1.625	0.33	0.000	0.000 T	80.75	0.29	0.29	-0.17
	Fu.C.17	0.12	0.33	1.500	0.22	0.000	0.000 T	62.68	0.28	0.28	-0.20
	Fu.C.18	0.32	0.43	1.125	0.28	0.000	0.000 T	87.68	0.21	-0.24	-0.24
	Fu.C.19	0.29	0.37	1.125	0.23	0.000	0.000 T	74.74	0.14	-0.20	-0.20
	Fu.C.20	0.25	0.36	1.125	0.17	0.000	0.000 T	69.51	0.20	-0.27	-0.27
	Fu.C.21	0.23	0.29	1.000	0.12	0.000	0.000 T	56.59	0.14	-0.22	-0.22
	Fu.C.22	0.11	0.37	1.625	0.30	0.000	0.000 T	75.84	0.31	0.31	-0.16
	Fu.C.23	0.08	0.29	1.750	0.25	0.000	0.000 T	63.06	0.25	0.25	-0.11
	Fu.C.24	0.05	0.28	1.500	0.19	0.000	0.000 T	57.90	0.31	0.31	-0.19
	Fu.C.25	0.02	0.21	1.625	0.15	0.000	0.000 T	45.15	0.24	0.24	-0.14
	Fu.C.26	0.24	0.49	1.750	0.43	0.000	0.000 T	94.26	0.29	0.29	-0.14
	Fu.C.27	0.10	0.32	1.375	0.20	0.000	0.000 T	57.16	0.31	0.31	-0.24
	Fu.C.28	0.07	0.22	1.375	0.13	0.000	0.000 T	38.08	0.21	0.21	-0.17
	Fu.C.29	0.19	0.36	1.375	0.24	0.000	0.000 T	64.70	0.26	0.26	-0.22
	Fu.C.30	0.17	0.41	1.625	0.34	0.000	0.000 T	74.10	0.30	0.30	-0.17
	Fu.C.31	0.11	0.36	1.625	0.28	0.000	0.000 T	68.56	0.31	0.31	-0.17
	Fu.C.32	0.13	0.33	1.500	0.23	0.000	0.000 T	65.61	0.28	0.28	-0.20
	Fu.C.33	0.11	0.33	1.500	0.23	0.000	0.000 T	62.14	0.29	0.29	-0.20
	Fu.C.34	0.11	0.31	1.500	0.21	0.000	0.000 T	58.91	0.28	0.28	-0.21
	Fu.C.35	0.10	0.30	1.500	0.20	0.000	0.000 T	55.67	0.28	0.28	-0.21
	Fu.C.36	0.09	0.29	1.375	0.18	0.000	0.000 T	52.46	0.28	0.28	-0.21
	Fu.C.37	0.09	0.28	1.375	0.17	0.000	0.000 T	49.23	0.28	0.28	-0.22
	Fu.C.38	0.08	0.27	1.375	0.15	0.000	0.000 T	45.94	0.28	0.28	-0.22
	Fu.C.39	0.09	0.29	1.375	0.17	0.000	0.000 T	50.86	0.28	0.28	-0.22
	Fu.C.40	0.09	0.29	1.375	0.17	0.000	0.000 T	50.86	0.28	0.28	-0.22
	Fu.C.41	0.09	0.29	1.375	0.17	0.000	0.000 T	50.86	0.28	0.28	-0.22
S15	Fu.C.1	0.00	0.03	0.946	0.00	0.000	0.000 D	-59.48	0.07	0.07	-0.06
	Fu.C.2	0.00	0.02	0.946	0.00	0.000	0.000 D	-0.93	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	0.946	0.00	0.000	0.000 D	-1.36	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	0.946	0.00	0.000	0.000 D	-0.05	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	0.946	0.00	0.000	0.000 D	-0.47	0.04	0.04	-0.04
	Fu.C.6	0.00	0.03	0.946	0.00	0.000	0.000 D	-17.76	0.05	0.05	-0.05
	Fu.C.7	0.00	0.03	0.946	0.00	0.000	0.000 D	-18.15	0.05	0.05	-0.05
	Fu.C.8	0.00	0.03	0.946	0.00	0.000	0.000 D	-16.87	0.05	0.05	-0.05
	Fu.C.9	0.00	0.03	0.946	0.00	0.000	0.000 D	-17.26	0.05	0.05	-0.05
	Fu.C.10	0.00	0.02	0.946	0.00	0.000	0.000 D	-10.51	0.04	0.04	-0.04
	Fu.C.11	0.00	0.02	0.946	0.00	0.000	0.000 D	-4.02	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	0.946	0.00	0.000	0.000 D	-9.62	0.04	0.04	-0.04
	Fu.C.13	0.00	0.02	0.946	0.00	0.000	0.000 D	-3.13	0.04	0.04	-0.04
	Fu.C.14	0.00	0.03	0.946	0.00	0.000	0.000 D	-27.40	0.06	0.06	-0.06
	Fu.C.15	0.00	0.03	0.946	0.00	0.000	0.000 D	-20.83	0.05	0.05	-0.05
	Fu.C.16	0.00	0.03	0.946	0.00	0.000	0.000 D	-26.50	0.06	0.06	-0.06
	Fu.C.17	0.00	0.03	0.946	0.00	0.000	0.000 D	-19.93	0.05	0.05	-0.05

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S15	Fu.C.18	0.00	0.03	0.946	0.00	0.000	0.000 D	-17.71	0.05	0.05	-0.05
	Fu.C.19	0.00	0.02	0.946	0.00	0.000	0.000 D	-13.18	0.04	0.04	-0.04
	Fu.C.20	0.00	0.03	0.946	0.00	0.000	0.000 D	-11.22	0.05	0.05	-0.05
	Fu.C.21	0.00	0.02	0.946	0.00	0.000	0.000 D	-6.69	0.04	0.04	-0.04
	Fu.C.22	0.00	0.03	0.946	0.00	0.000	0.000 D	-19.37	0.05	0.05	-0.05
	Fu.C.23	0.00	0.02	0.946	0.00	0.000	0.000 D	-14.81	0.04	0.04	-0.04
	Fu.C.24	0.00	0.03	0.946	0.00	0.000	0.000 D	-12.84	0.05	0.05	-0.05
	Fu.C.25	0.00	0.02	0.946	0.00	0.000	0.000 D	-8.29	0.04	0.04	-0.04
	Fu.C.26	0.00	0.03	0.946	0.00	0.000	0.000 D	-33.78	0.06	0.06	-0.06
	Fu.C.27	0.00	0.03	0.946	0.00	0.000	0.000 D	-20.34	0.06	0.06	-0.06
	Fu.C.28	0.00	0.02	0.946	0.00	0.000	0.000 D	-13.56	0.04	0.04	-0.04
	Fu.C.29	0.00	0.03	0.946	0.00	0.000	0.000 D	-14.69	0.05	0.05	-0.05
	Fu.C.30	0.00	0.03	0.946	0.00	0.000	0.000 D	-23.75	0.06	0.06	-0.05
	Fu.C.31	0.00	0.03	0.946	0.00	0.000	0.000 D	-32.57	0.06	0.06	-0.06
	Fu.C.32	0.00	0.03	0.946	0.00	0.000	0.000 D	-28.36	0.06	0.06	-0.06
	Fu.C.33	0.00	0.03	0.946	0.00	0.000	0.000 D	-26.52	0.06	0.06	-0.05
	Fu.C.34	0.00	0.03	0.946	0.00	0.000	0.000 D	-24.02	0.06	0.06	-0.05
	Fu.C.35	0.00	0.03	0.946	0.00	0.000	0.000 D	-21.68	0.06	0.06	-0.05
	Fu.C.36	0.00	0.03	0.946	0.00	0.000	0.000 D	-19.29	0.05	0.05	-0.05
	Fu.C.37	0.00	0.03	0.946	0.00	0.000	0.000 D	-16.92	0.05	0.05	-0.05
	Fu.C.38	0.00	0.03	0.946	0.00	0.000	0.000 D	-14.54	0.05	0.05	-0.05
	Fu.C.39	0.00	0.03	0.946	0.00	0.000	0.000 D	-18.10	0.05	0.05	-0.05
	Fu.C.40	0.00	0.03	0.946	0.00	0.000	0.000 D	-18.10	0.05	0.05	-0.05
	Fu.C.41	0.00	0.03	0.946	0.00	0.000	0.000 D	-18.10	0.05	0.05	-0.05
S16	Fu.C.1	-6.72	3.82	1.377	-4.57	0.000	0.000 D	-182.20	14.24	14.24	-12.58
	Fu.C.2	0.99	-0.06	1.878	0.05	0.000	0.000 D	-5.75	-1.11	-1.11	0.37
	Fu.C.3	0.99	-0.05	1.878	0.06	0.000	0.000 D	-6.79	-1.11	-1.11	0.37
	Fu.C.4	1.02	-0.05	1.878	0.06	0.000	0.000 D	-6.80	-1.12	-1.12	0.36
	Fu.C.5	1.02	-0.04	1.878	0.07	0.000	0.000 D	-7.83	-1.12	-1.12	0.36
	Fu.C.6	-1.22	1.13	1.252	-1.44	0.000	0.000 D	-52.00	3.84	-4.01	-4.01
	Fu.C.7	-1.22	1.14	1.252	-1.44	0.000	0.000 D	-52.97	3.84	-4.01	-4.01
	Fu.C.8	-1.19	1.15	1.252	-1.43	0.000	0.000 D	-53.07	3.83	-4.02	-4.02
	Fu.C.9	-1.19	1.16	1.252	-1.42	0.000	0.000 D	-54.04	3.84	-4.02	-4.02
	Fu.C.10	-1.81	1.08	1.377	-1.25	0.000	0.000 D	-49.01	4.38	4.38	-3.94
	Fu.C.11	-0.81	0.55	1.252	-0.57	0.000	0.000 D	-26.33	2.08	2.08	-1.88
	Fu.C.12	-1.79	1.10	1.377	-1.24	0.000	0.000 D	-50.05	4.38	4.38	-3.95
	Fu.C.13	-0.79	0.57	1.252	-0.55	0.000	0.000 D	-27.37	2.07	2.07	-1.89
	Fu.C.14	-4.04	2.17	1.377	-2.77	0.000	0.000 D	-95.45	9.33	9.33	-8.34
	Fu.C.15	-3.03	1.64	1.377	-2.07	0.000	0.000 D	-72.67	7.03	7.03	-6.27
	Fu.C.16	-4.01	2.19	1.377	-2.76	0.000	0.000 D	-96.52	9.33	9.33	-8.35
	Fu.C.17	-3.00	1.66	1.377	-2.06	0.000	0.000 D	-73.74	7.02	7.02	-6.28
	Fu.C.18	-2.99	1.83	1.377	-2.07	0.000	0.000 D	-98.97	7.28	7.28	-6.56
	Fu.C.19	-2.32	1.47	1.377	-1.61	0.000	0.000 D	-82.70	5.74	5.74	-5.18
	Fu.C.20	-1.98	1.30	1.377	-1.37	0.000	0.000 D	-76.16	4.97	4.97	-4.49
	Fu.C.21	-1.32	0.94	1.252	-0.92	0.000	0.000 D	-59.91	3.43	3.43	-3.11
	Fu.C.22	-3.04	1.80	1.377	-2.09	0.000	0.000 D	-95.96	7.29	7.29	-6.55
	Fu.C.23	-2.37	1.43	1.377	-1.63	0.000	0.000 D	-79.80	5.74	5.74	-5.16
	Fu.C.24	-2.03	1.26	1.377	-1.40	0.000	0.000 D	-73.30	4.98	4.98	-4.48
	Fu.C.25	-1.36	0.90	1.377	-0.94	0.000	0.000 D	-57.17	3.44	3.44	-3.10
	Fu.C.26	-5.08	2.73	1.377	-3.50	0.000	0.000 D	-118.79	11.72	11.72	-10.49
	Fu.C.27	-2.97	1.62	1.377	-2.03	0.000	0.000 D	-72.31	6.90	6.90	-6.17
	Fu.C.28	-1.97	1.08	1.377	-1.35	0.000	0.000 D	-48.20	4.60	4.60	-4.10
	Fu.C.29	-5.37	0.75	1.627	-1.03	0.000	0.000 D	-75.90	7.46	7.46	-4.06
	Fu.C.30	-4.64	5.11	1.252	-3.96	0.000	0.000 D	-91.63	13.71	13.71	-13.18
	Fu.C.31	-2.00	0.75	1.127	-3.89	0.000	0.000 D	-92.05	5.04	-6.50	-6.50
	Fu.C.32	-2.72	1.82	1.377	-1.09	0.000	0.000 D	-86.29	6.48	6.48	-5.20
	Fu.C.33	-2.55	1.46	1.252	-1.86	0.000	0.000 D	-81.50	6.09	6.09	-5.55
	Fu.C.34	-2.61	1.52	1.377	-1.69	0.000	0.000 D	-76.55	6.18	6.18	-5.46
	Fu.C.35	-2.61	1.47	1.377	-1.77	0.000	0.000 D	-71.67	6.15	6.15	-5.49
	Fu.C.36	-2.63	1.45	1.377	-1.79	0.000	0.000 D	-66.79	6.15	6.15	-5.48
	Fu.C.37	-2.65	1.43	1.377	-1.82	0.000	0.000 D	-61.90	6.14	6.14	-5.49
	Fu.C.38	-2.66	1.40	1.377	-1.84	0.000	0.000 D	-56.95	6.13	6.13	-5.49
	Fu.C.39	-2.64	1.44	1.377	-1.80	0.000	0.000 D	-64.36	6.14	6.14	-5.48
	Fu.C.40	-2.64	1.44	1.377	-1.80	0.000	0.000 D	-64.36	6.14	6.14	-5.48
	Fu.C.41	-2.64	1.44	1.377	-1.80	0.000	0.000 D	-64.36	6.14	6.14	-5.48
S18	Fu.C.1	0.00	0.02	0.942	0.00	0.000	0.000 T	22.80	0.05	-0.05	-0.05

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S18	Fu.C.2	0.00	0.02	0.942	0.00	0.000	0.000 T	2.04	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	0.942	0.00	0.000	0.000 T	2.45	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	0.942	0.00	0.000	0.000 T	1.19	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	0.942	0.00	0.000	0.000 T	1.60	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	0.942	0.00	0.000	0.000 T	6.35	0.05	-0.05	-0.05
	Fu.C.7	0.00	0.02	0.942	0.00	0.000	0.000 T	6.74	0.05	-0.05	-0.05
	Fu.C.8	0.00	0.02	0.942	0.00	0.000	0.000 T	5.49	0.05	-0.05	-0.05
	Fu.C.9	0.00	0.02	0.942	0.00	0.000	0.000 T	5.88	0.05	-0.05	-0.05
	Fu.C.10	0.00	0.02	0.942	0.00	0.000	0.000 D	-0.68	0.04	0.04	-0.04
	Fu.C.11	0.00	0.02	0.942	0.00	0.000	0.000 D	-1.39	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	0.942	0.00	0.000	0.000 D	-1.54	0.04	0.04	-0.04
	Fu.C.13	0.00	0.02	0.942	0.00	0.000	0.000 D	-2.25	0.04	0.04	-0.04
	Fu.C.14	0.00	0.02	0.942	0.00	0.000	0.000 T	3.70	0.05	-0.05	-0.05
	Fu.C.15	0.00	0.02	0.942	0.00	0.000	0.000 T	2.95	0.05	-0.05	-0.05
	Fu.C.16	0.00	0.02	0.942	0.00	0.000	0.000 T	2.83	0.05	-0.05	-0.05
	Fu.C.17	0.00	0.02	0.942	0.00	0.000	0.000 T	2.09	0.05	-0.05	-0.05
	Fu.C.18	0.00	0.02	0.942	0.00	0.000	0.000 D	-0.87	0.05	0.05	-0.05
	Fu.C.19	0.00	0.02	0.942	0.00	0.000	0.000 D	-1.42	0.04	0.04	-0.04
	Fu.C.20	0.00	0.02	0.942	0.00	0.000	0.000 D	-1.55	0.05	0.05	-0.05
	Fu.C.21	0.00	0.02	0.942	0.00	0.000	0.000 D	-2.10	0.04	0.04	-0.04
	Fu.C.22	0.00	0.02	0.942	0.00	0.000	0.000 T	0.85	0.05	-0.05	-0.05
	Fu.C.23	0.00	0.02	0.942	0.00	0.000	0.000 T	0.24	0.04	-0.04	-0.04
	Fu.C.24	0.00	0.02	0.942	0.00	0.000	0.000 T	0.14	0.05	-0.05	-0.05
	Fu.C.25	0.00	0.02	0.942	0.00	0.000	0.000 D	-0.56	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.942	0.00	0.000	0.000 T	4.06	0.05	-0.05	-0.05
	Fu.C.27	0.00	0.03	0.942	0.00	0.000	0.000 T	2.75	0.06	-0.06	-0.06
	Fu.C.28	0.00	0.02	0.942	0.00	0.000	0.000 T	1.85	0.04	-0.04	-0.04
	Fu.C.29	0.00	0.02	0.942	0.00	0.000	0.000 T	1.49	0.05	-0.05	-0.05
	Fu.C.30	0.00	0.02	0.942	0.00	0.000	0.000 D	-3.69	0.05	0.05	-0.05
	Fu.C.31	0.00	0.02	0.942	0.00	0.000	0.000 T	5.00	0.05	-0.05	-0.05
	Fu.C.32	0.00	0.02	0.942	0.00	0.000	0.000 T	14.08	0.05	-0.05	-0.05
	Fu.C.33	0.00	0.02	0.942	0.00	0.000	0.000 T	9.98	0.05	-0.05	-0.05
	Fu.C.34	0.00	0.02	0.942	0.00	0.000	0.000 T	8.21	0.05	-0.05	-0.05
	Fu.C.35	0.00	0.02	0.942	0.00	0.000	0.000 T	5.83	0.05	-0.05	-0.05
	Fu.C.36	0.00	0.02	0.942	0.00	0.000	0.000 T	3.59	0.05	-0.05	-0.05
	Fu.C.37	0.00	0.02	0.942	0.00	0.000	0.000 T	1.32	0.05	-0.05	-0.05
	Fu.C.38	0.00	0.02	0.942	0.00	0.000	0.000 D	-1.05	0.05	0.05	-0.05
	Fu.C.39	0.00	0.02	0.942	0.00	0.000	0.000 T	2.45	0.05	-0.05	-0.05
	Fu.C.40	0.00	0.02	0.942	0.00	0.000	0.000 T	2.45	0.05	-0.05	-0.05
	Fu.C.41	0.00	0.02	0.942	0.00	0.000	0.000 T	2.45	0.05	-0.05	-0.05
S19	Fu.C.1	0.69			0.83	0.000	0.000 T	220.39	0.11	0.11	-0.01
	Fu.C.2	-0.14	0.00	1.250	-0.11	0.000	0.000 D	-25.37	0.21	0.21	-0.19
	Fu.C.3	-0.14	0.00	1.375	-0.11	0.000	0.000 D	-24.03	0.21	0.21	-0.18
	Fu.C.4	-0.13	0.01	1.250	-0.11	0.000	0.000 D	-20.09	0.20	0.20	-0.19
	Fu.C.5	-0.13	0.01	1.375	-0.10	0.000	0.000 D	-18.75	0.21	0.21	-0.19
	Fu.C.6	0.01	0.21	1.375	0.07	0.000	0.000 T	16.85	0.28	0.28	-0.24
	Fu.C.7	0.02	0.21	1.375	0.08	0.000	0.000 T	18.10	0.28	0.28	-0.24
	Fu.C.8	0.03	0.21	1.375	0.08	0.000	0.000 T	22.16	0.28	0.28	-0.24
	Fu.C.9	0.03	0.22	1.375	0.08	0.000	0.000 T	23.41	0.28	0.28	-0.24
	Fu.C.10	0.15	0.27	1.250	0.16	0.000	0.000 T	69.08	0.18	0.18	-0.18
	Fu.C.11	0.05	0.17	1.250	0.05	0.000	0.000 T	42.37	0.19	-0.19	-0.19
	Fu.C.12	0.16	0.27	1.250	0.17	0.000	0.000 T	74.37	0.18	0.18	-0.18
	Fu.C.13	0.06	0.18	1.250	0.06	0.000	0.000 T	47.65	0.19	-0.19	-0.19
	Fu.C.14	0.32	0.47	1.375	0.36	0.000	0.000 T	111.63	0.22	0.22	-0.19
	Fu.C.15	0.21	0.37	1.375	0.24	0.000	0.000 T	84.76	0.24	0.24	-0.22
	Fu.C.16	0.33	0.47	1.375	0.37	0.000	0.000 T	116.94	0.22	0.22	-0.19
	Fu.C.17	0.22	0.38	1.375	0.25	0.000	0.000 T	90.06	0.24	0.24	-0.22
	Fu.C.18	0.28	0.43	1.375	0.33	0.000	0.000 T	112.08	0.23	0.23	-0.19
	Fu.C.19	0.23	0.35	1.375	0.27	0.000	0.000 T	92.91	0.18	0.18	-0.15
	Fu.C.20	0.17	0.34	1.375	0.21	0.000	0.000 T	85.20	0.25	0.25	-0.22
	Fu.C.21	0.12	0.25	1.375	0.16	0.000	0.000 T	66.06	0.19	0.19	-0.17
	Fu.C.22	0.30	0.43	1.250	0.30	0.000	0.000 T	102.39	0.21	-0.22	-0.22
	Fu.C.23	0.25	0.35	1.250	0.24	0.000	0.000 T	83.35	0.16	-0.17	-0.17
	Fu.C.24	0.19	0.34	1.250	0.18	0.000	0.000 T	75.69	0.23	-0.24	-0.24
	Fu.C.25	0.15	0.25	1.250	0.13	0.000	0.000 T	56.68	0.18	-0.19	-0.19
	Fu.C.26	0.43	0.57	1.375	0.48	0.000	0.000 T	140.23	0.20	0.20	-0.16

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S19	Fu.C.27	0.20	0.37	1.375	0.23	0.000	0.000 T	85.17	0.28	0.28	-0.25
	Fu.C.28	0.13	0.25	1.250	0.15	0.000	0.000 T	56.76	0.19	0.19	-0.18
	Fu.C.29	0.24	0.37	1.250	0.21	0.000	0.000 T	84.99	0.22	-0.24	-0.24
	Fu.C.30	0.34	0.45	1.250	0.31	0.000	0.000 T	106.56	0.20	-0.23	-0.23
	Fu.C.31	0.28	0.48	1.500	0.41	0.000	0.000 T	112.98	0.26	0.26	-0.16
	Fu.C.32	0.23	0.42	1.500	0.34	0.000	0.000 T	104.39	0.26	0.26	-0.18
	Fu.C.33	0.23	0.39	1.375	0.28	0.000	0.000 T	98.41	0.24	0.24	-0.21
	Fu.C.34	0.21	0.38	1.375	0.27	0.000	0.000 T	91.82	0.25	0.25	-0.20
	Fu.C.35	0.20	0.36	1.375	0.24	0.000	0.000 T	85.42	0.25	0.25	-0.22
	Fu.C.36	0.18	0.34	1.375	0.21	0.000	0.000 T	79.00	0.25	0.25	-0.22
	Fu.C.37	0.17	0.33	1.250	0.19	0.000	0.000 T	72.56	0.25	0.25	-0.23
	Fu.C.38	0.15	0.31	1.250	0.17	0.000	0.000 T	66.07	0.25	0.25	-0.24
	Fu.C.39	0.17	0.33	1.375	0.20	0.000	0.000 T	75.79	0.25	0.25	-0.23
	Fu.C.40	0.17	0.33	1.375	0.20	0.000	0.000 T	75.79	0.25	0.25	-0.23
	Fu.C.41	0.17	0.33	1.375	0.20	0.000	0.000 T	75.79	0.25	0.25	-0.23
S21	Fu.C.1	0.00	0.03	0.968	0.00	0.000	0.000 D	-22.30	0.06	0.06	-0.05
	Fu.C.2	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.34	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.76	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	0.968	0.00	0.000	0.000 D	-0.50	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	0.968	0.00	0.000	0.000 D	-0.92	0.04	0.04	-0.04
	Fu.C.6	0.00	0.03	0.968	0.00	0.000	0.000 D	-5.41	0.05	0.05	-0.05
	Fu.C.7	0.00	0.03	0.968	0.00	0.000	0.000 D	-5.80	0.05	0.05	-0.05
	Fu.C.8	0.00	0.02	0.968	0.00	0.000	0.000 D	-4.56	0.05	0.05	-0.05
	Fu.C.9	0.00	0.02	0.968	0.00	0.000	0.000 D	-4.95	0.05	0.05	-0.05
	Fu.C.10	0.00	0.02	0.968	0.00	0.000	0.000 T	1.28	0.04	-0.04	-0.04
	Fu.C.11	0.00	0.02	0.968	0.00	0.000	0.000 T	2.02	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	0.968	0.00	0.000	0.000 T	2.12	0.04	-0.04	-0.04
	Fu.C.13	0.00	0.02	0.968	0.00	0.000	0.000 T	2.86	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.02	0.968	0.00	0.000	0.000 D	-2.96	0.05	0.05	-0.05
	Fu.C.15	0.00	0.02	0.968	0.00	0.000	0.000 D	-2.15	0.05	0.05	-0.05
	Fu.C.16	0.00	0.02	0.968	0.00	0.000	0.000 D	-2.11	0.05	0.05	-0.05
	Fu.C.17	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.30	0.05	0.05	-0.05
	Fu.C.18	0.00	0.02	0.968	0.00	0.000	0.000 T	1.55	0.05	-0.05	-0.05
	Fu.C.19	0.00	0.02	0.968	0.00	0.000	0.000 T	1.93	0.04	-0.04	-0.04
	Fu.C.20	0.00	0.02	0.968	0.00	0.000	0.000 T	2.30	0.05	-0.05	-0.05
	Fu.C.21	0.00	0.02	0.968	0.00	0.000	0.000 T	2.66	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.02	0.968	0.00	0.000	0.000 D	-0.09	0.05	0.05	-0.05
	Fu.C.23	0.00	0.02	0.968	0.00	0.000	0.000 T	0.42	0.04	0.04	-0.04
	Fu.C.24	0.00	0.02	0.968	0.00	0.000	0.000 T	0.80	0.05	-0.05	-0.05
	Fu.C.25	0.00	0.02	0.968	0.00	0.000	0.000 T	1.18	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.968	0.00	0.000	0.000 D	-3.42	0.05	0.05	-0.05
	Fu.C.27	0.00	0.03	0.968	0.00	0.000	0.000 D	-1.84	0.06	0.06	-0.06
	Fu.C.28	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.22	0.04	0.04	-0.04
	Fu.C.29	0.00	0.02	0.968	0.00	0.000	0.000 D	-0.65	0.05	0.05	-0.05
	Fu.C.30	0.00	0.02	0.968	0.00	0.000	0.000 T	4.37	0.05	-0.05	-0.05
	Fu.C.31	0.00	0.02	0.968	0.00	0.000	0.000 D	-4.33	0.05	0.05	-0.05
	Fu.C.32	0.00	0.03	0.968	0.00	0.000	0.000 D	-13.18	0.05	0.05	-0.05
	Fu.C.33	0.00	0.03	0.968	0.00	0.000	0.000 D	-9.09	0.05	0.05	-0.05
	Fu.C.34	0.00	0.03	0.968	0.00	0.000	0.000 D	-7.36	0.05	0.05	-0.05
	Fu.C.35	0.00	0.03	0.968	0.00	0.000	0.000 D	-4.98	0.05	0.05	-0.05
	Fu.C.36	0.00	0.02	0.968	0.00	0.000	0.000 D	-2.77	0.05	0.05	-0.05
	Fu.C.37	0.00	0.02	0.968	0.00	0.000	0.000 D	-0.51	0.05	0.05	-0.05
	Fu.C.38	0.00	0.02	0.968	0.00	0.000	0.000 T	1.85	0.05	-0.05	-0.05
	Fu.C.39	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.63	0.05	0.05	-0.05
	Fu.C.40	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.63	0.05	0.05	-0.05
	Fu.C.41	0.00	0.02	0.968	0.00	0.000	0.000 D	-1.63	0.05	0.05	-0.05
S22	Fu.C.1	-4.57	4.79	1.249	-5.01	0.000	0.000 D	-236.78	13.44	-13.75	-13.75
	Fu.C.2	0.05	-0.28	1.000	0.34	0.000	0.000 D	-7.56	-0.63	0.85	0.85
	Fu.C.3	0.06	-0.27	1.125	0.33	0.000	0.000 D	-9.16	-0.63	0.85	0.85
	Fu.C.4	0.06	-0.27	1.000	0.35	0.000	0.000 D	-7.46	-0.63	0.85	0.85
	Fu.C.5	0.07	-0.26	1.125	0.34	0.000	0.000 D	-9.05	-0.63	0.85	0.85
	Fu.C.6	-1.44	1.09	1.249	-1.30	0.000	0.000 D	-67.96	3.98	3.98	-3.87
	Fu.C.7	-1.44	1.09	1.249	-1.30	0.000	0.000 D	-69.45	3.97	3.97	-3.87
	Fu.C.8	-1.43	1.10	1.249	-1.29	0.000	0.000 D	-67.87	3.98	3.98	-3.87
	Fu.C.9	-1.42	1.10	1.249	-1.30	0.000	0.000 D	-69.36	3.97	3.97	-3.87
	Fu.C.10	-1.25	1.28	1.249	-1.40	0.000	0.000 D	-55.40	4.11	-4.22	-4.22

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S22	Fu.C.11	-0.57	0.64	1.249	-0.64	0.000	0.000 D	-27.84	1.95	-2.01	-2.01
	Fu.C.12	-1.24	1.30	1.249	-1.39	0.000	0.000 D	-55.29	4.11	-4.22	-4.22
	Fu.C.13	-0.55	0.65	1.249	-0.63	0.000	0.000 D	-27.73	1.95	-2.01	-2.01
	Fu.C.14	-2.77	2.67	1.249	-3.07	0.000	0.000 D	-116.04	8.76	-8.98	-8.98
	Fu.C.15	-2.07	2.01	1.249	-2.29	0.000	0.000 D	-88.30	6.58	-6.75	-6.75
	Fu.C.16	-2.76	2.68	1.249	-3.06	0.000	0.000 D	-115.93	8.76	-8.99	-8.99
	Fu.C.17	-2.06	2.02	1.249	-2.28	0.000	0.000 D	-88.20	6.58	-6.75	-6.75
	Fu.C.18	-2.07	2.18	1.249	-2.31	0.000	0.000 D	-110.22	6.85	-7.03	-7.03
	Fu.C.19	-1.61	1.73	1.249	-1.80	0.000	0.000 D	-90.57	5.39	-5.54	-5.54
	Fu.C.20	-1.37	1.52	1.249	-1.54	0.000	0.000 D	-82.54	4.67	-4.81	-4.81
	Fu.C.21	-0.92	1.08	1.249	-1.04	0.000	0.000 D	-62.91	3.22	-3.32	-3.32
	Fu.C.22	-2.09	2.16	1.249	-2.33	0.000	0.000 D	-109.37	6.85	-7.03	-7.03
	Fu.C.23	-1.63	1.71	1.249	-1.82	0.000	0.000 D	-89.80	5.39	-5.54	-5.54
	Fu.C.24	-1.40	1.50	1.249	-1.56	0.000	0.000 D	-81.80	4.68	-4.80	-4.80
	Fu.C.25	-0.94	1.05	1.249	-1.05	0.000	0.000 D	-62.26	3.23	-3.31	-3.31
	Fu.C.26	-3.50	3.35	1.249	-3.87	0.000	0.000 D	-143.86	11.02	-11.30	-11.30
	Fu.C.27	-2.03	1.98	1.249	-2.25	0.000	0.000 D	-87.56	6.47	-6.63	-6.63
	Fu.C.28	-1.35	1.31	1.249	-1.49	0.000	0.000 D	-58.37	4.30	-4.41	-4.41
	Fu.C.29	-1.03	2.10	1.125	-2.16	0.000	0.000 D	-86.52	5.41	-6.29	-6.29
	Fu.C.30	-3.96	1.13	1.499	-1.30	0.000	0.000 D	-104.88	6.82	6.82	-4.75
	Fu.C.31	-3.89	5.45	1.249	-4.09	0.000	0.000 D	-117.10	13.42	-13.57	-13.57
	Fu.C.32	-1.09	1.22	1.000	-4.07	0.000	0.000 D	-114.33	4.63	-6.94	-6.94
	Fu.C.33	-1.86	2.12	1.249	-1.28	0.000	0.000 D	-105.66	6.09	6.09	-5.64
	Fu.C.34	-1.69	1.80	1.249	-2.05	0.000	0.000 D	-97.85	5.70	-5.97	-5.97
	Fu.C.35	-1.77	1.83	1.249	-1.90	0.000	0.000 D	-89.85	5.79	-5.88	-5.88
	Fu.C.36	-1.79	1.77	1.249	-1.99	0.000	0.000 D	-81.91	5.75	-5.91	-5.91
	Fu.C.37	-1.82	1.74	1.249	-2.01	0.000	0.000 D	-73.93	5.75	-5.90	-5.90
	Fu.C.38	-1.84	1.70	1.249	-2.05	0.000	0.000 D	-65.92	5.73	-5.90	-5.90
	Fu.C.39	-1.80	1.76	1.249	-2.00	0.000	0.000 D	-77.93	5.75	-5.90	-5.90
	Fu.C.40	-1.80	1.76	1.249	-2.00	0.000	0.000 D	-77.93	5.75	-5.90	-5.90
	Fu.C.41	-1.80	1.76	1.249	-2.00	0.000	0.000 D	-77.93	5.75	-5.90	-5.90
S24	Fu.C.1	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.95	0.05	0.05	-0.05
	Fu.C.2	0.00	0.02	0.964	0.00	0.000	0.000 T	3.24	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	0.964	0.00	0.000	0.000 T	3.62	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	0.964	0.00	0.000	0.000 T	2.43	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	0.964	0.00	0.000	0.000 T	2.81	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	0.964	0.00	0.000	0.000 D	-5.06	0.05	0.05	-0.05
	Fu.C.7	0.00	0.02	0.964	0.00	0.000	0.000 D	-4.71	0.05	0.05	-0.05
	Fu.C.8	0.00	0.02	0.964	0.00	0.000	0.000 D	-5.87	0.05	0.05	-0.05
	Fu.C.9	0.00	0.02	0.964	0.00	0.000	0.000 D	-5.52	0.05	0.05	-0.05
	Fu.C.10	0.00	0.02	0.964	0.00	0.000	0.000 D	-12.11	0.04	0.04	-0.04
	Fu.C.11	0.00	0.02	0.964	0.00	0.000	0.000 D	-7.19	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	0.964	0.00	0.000	0.000 D	-12.92	0.04	-0.04	-0.04
	Fu.C.13	0.00	0.02	0.964	0.00	0.000	0.000 D	-7.99	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.03	0.964	0.00	0.000	0.000 D	-20.33	0.05	0.05	-0.05
	Fu.C.15	0.00	0.03	0.964	0.00	0.000	0.000 D	-15.43	0.05	0.05	-0.05
	Fu.C.16	0.00	0.03	0.964	0.00	0.000	0.000 D	-21.15	0.05	0.05	-0.05
	Fu.C.17	0.00	0.03	0.964	0.00	0.000	0.000 D	-16.25	0.05	0.05	-0.05
	Fu.C.18	0.00	0.03	0.964	0.00	0.000	0.000 D	-19.56	0.05	0.05	-0.05
	Fu.C.19	0.00	0.02	0.964	0.00	0.000	0.000 D	-16.08	0.04	0.04	-0.04
	Fu.C.20	0.00	0.03	0.964	0.00	0.000	0.000 D	-14.61	0.05	0.05	-0.05
	Fu.C.21	0.00	0.02	0.964	0.00	0.000	0.000 D	-11.13	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.03	0.964	0.00	0.000	0.000 D	-18.10	0.05	0.05	-0.05
	Fu.C.23	0.00	0.02	0.964	0.00	0.000	0.000 D	-14.63	0.04	0.04	-0.04
	Fu.C.24	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.17	0.05	0.05	-0.05
	Fu.C.25	0.00	0.02	0.964	0.00	0.000	0.000 D	-9.71	0.04	0.04	-0.04
	Fu.C.26	0.00	0.03	0.964	0.00	0.000	0.000 D	-25.78	0.06	0.06	-0.06
	Fu.C.27	0.00	0.03	0.964	0.00	0.000	0.000 D	-15.47	0.06	0.06	-0.06
	Fu.C.28	0.00	0.02	0.964	0.00	0.000	0.000 D	-10.30	0.04	0.04	-0.04
	Fu.C.29	0.00	0.03	0.964	0.00	0.000	0.000 D	-15.31	0.05	0.05	-0.05
	Fu.C.30	0.00	0.03	0.964	0.00	0.000	0.000 D	-17.58	0.05	0.05	-0.05
	Fu.C.31	0.00	0.03	0.964	0.00	0.000	0.000 D	-22.35	0.05	0.05	-0.05
	Fu.C.32	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.85	0.05	0.05	-0.05
	Fu.C.33	0.00	0.02	0.964	0.00	0.000	0.000 D	-4.84	0.05	0.05	-0.05
	Fu.C.34	0.00	0.03	0.964	0.00	0.000	0.000 D	-8.78	0.05	0.05	-0.05
	Fu.C.35	0.00	0.03	0.964	0.00	0.000	0.000 D	-10.46	0.05	0.05	-0.05

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S24	Fu.C.36	0.00	0.03	0.964	0.00	0.000	0.000 D	-12.72	0.05	0.05	-0.05
	Fu.C.37	0.00	0.03	0.964	0.00	0.000	0.000 D	-14.83	0.05	0.05	-0.05
	Fu.C.38	0.00	0.03	0.964	0.00	0.000	0.000 D	-16.97	0.05	-0.05	-0.05
	Fu.C.39	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.76	0.05	0.05	-0.05
	Fu.C.40	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.76	0.05	0.05	-0.05
	Fu.C.41	0.00	0.03	0.964	0.00	0.000	0.000 D	-13.76	0.05	0.05	-0.05
S25	Fu.C.1	0.83	0.84	0.875	0.82	0.000	0.000 T	249.80	0.01	-0.03	-0.03
	Fu.C.2	-0.11	0.02	1.375	-0.09	0.000	0.000 D	-23.21	0.21	0.21	-0.19
	Fu.C.3	-0.11	0.03	1.250	-0.09	0.000	0.000 D	-21.33	0.20	0.20	-0.19
	Fu.C.4	-0.11	0.03	1.375	-0.08	0.000	0.000 D	-19.04	0.21	0.21	-0.19
	Fu.C.5	-0.10	0.03	1.250	-0.09	0.000	0.000 D	-17.16	0.20	0.20	-0.19
	Fu.C.6	0.07	0.24	1.250	0.09	0.000	0.000 T	24.48	0.26	0.26	-0.25
	Fu.C.7	0.08	0.24	1.250	0.08	0.000	0.000 T	26.24	0.26	0.26	-0.26
	Fu.C.8	0.08	0.24	1.250	0.09	0.000	0.000 T	28.67	0.26	0.26	-0.25
	Fu.C.9	0.08	0.24	1.250	0.09	0.000	0.000 T	30.43	0.26	0.26	-0.26
	Fu.C.10	0.16	0.26	1.125	0.13	0.000	0.000 T	67.86	0.17	-0.19	-0.19
	Fu.C.11	0.05	0.16	1.250	0.03	0.000	0.000 T	40.20	0.18	-0.20	-0.20
	Fu.C.12	0.17	0.26	1.125	0.13	0.000	0.000 T	72.03	0.16	-0.19	-0.19
	Fu.C.13	0.06	0.16	1.125	0.03	0.000	0.000 T	44.37	0.18	-0.20	-0.20
	Fu.C.14	0.36	0.46	1.125	0.31	0.000	0.000 T	115.92	0.19	-0.23	-0.23
	Fu.C.15	0.24	0.37	1.125	0.21	0.000	0.000 T	88.02	0.21	-0.25	-0.25
	Fu.C.16	0.37	0.47	1.125	0.32	0.000	0.000 T	120.10	0.18	-0.23	-0.23
	Fu.C.17	0.25	0.37	1.125	0.21	0.000	0.000 T	92.21	0.21	-0.25	-0.25
	Fu.C.18	0.33	0.43	1.125	0.26	0.000	0.000 T	110.58	0.19	-0.24	-0.24
	Fu.C.19	0.27	0.35	1.125	0.22	0.000	0.000 T	90.78	0.14	-0.19	-0.19
	Fu.C.20	0.21	0.33	1.125	0.16	0.000	0.000 T	82.76	0.21	-0.26	-0.26
	Fu.C.21	0.16	0.25	1.125	0.12	0.000	0.000 T	63.00	0.16	-0.20	-0.20
	Fu.C.22	0.30	0.41	1.125	0.26	0.000	0.000 T	102.94	0.20	-0.24	-0.24
	Fu.C.23	0.24	0.33	1.125	0.21	0.000	0.000 T	83.24	0.15	-0.18	-0.18
	Fu.C.24	0.18	0.32	1.250	0.15	0.000	0.000 T	75.26	0.23	-0.25	-0.25
	Fu.C.25	0.13	0.24	1.250	0.11	0.000	0.000 T	55.60	0.18	-0.19	-0.19
	Fu.C.26	0.48	0.56	1.125	0.42	0.000	0.000 T	145.05	0.15	-0.20	-0.20
	Fu.C.27	0.23	0.37	1.125	0.19	0.000	0.000 T	88.09	0.25	-0.28	-0.28
	Fu.C.28	0.15	0.25	1.125	0.12	0.000	0.000 T	58.72	0.17	-0.19	-0.19
	Fu.C.29	0.21	0.35	1.250	0.20	0.000	0.000 T	86.31	0.23	-0.24	-0.24
	Fu.C.30	0.31	0.40	1.000	0.22	0.000	0.000 T	101.37	0.18	-0.26	-0.26
	Fu.C.31	0.41	0.48	1.000	0.29	0.000	0.000 T	119.01	0.16	-0.25	-0.25
	Fu.C.32	0.34	0.48	1.375	0.38	0.000	0.000 T	122.15	0.22	0.22	-0.18
	Fu.C.33	0.28	0.42	1.250	0.30	0.000	0.000 T	110.81	0.22	0.22	-0.20
	Fu.C.34	0.27	0.39	1.125	0.24	0.000	0.000 T	101.93	0.21	-0.24	-0.24
	Fu.C.35	0.24	0.37	1.250	0.22	0.000	0.000 T	92.42	0.22	-0.24	-0.24
	Fu.C.36	0.21	0.34	1.125	0.18	0.000	0.000 T	83.09	0.22	-0.25	-0.25
	Fu.C.37	0.19	0.32	1.125	0.15	0.000	0.000 T	73.69	0.22	-0.25	-0.25
	Fu.C.38	0.17	0.30	1.125	0.12	0.000	0.000 T	64.25	0.23	-0.26	-0.26
	Fu.C.39	0.20	0.33	1.125	0.17	0.000	0.000 T	78.40	0.22	-0.25	-0.25
	Fu.C.40	0.20	0.33	1.125	0.17	0.000	0.000 T	78.40	0.22	-0.25	-0.25
	Fu.C.41	0.20	0.33	1.125	0.17	0.000	0.000 T	78.40	0.22	-0.25	-0.25
S27	Fu.C.1	0.00	0.02	0.989	0.00	0.000	0.000 T	13.98	0.05	0.05	-0.05
	Fu.C.2	0.00	0.02	0.989	0.00	0.000	0.000 D	-2.53	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	0.989	0.00	0.000	0.000 D	-2.91	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	0.989	0.00	0.000	0.000 D	-1.73	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	0.989	0.00	0.000	0.000 D	-2.11	0.04	0.04	-0.04
	Fu.C.6	0.00	0.02	0.989	0.00	0.000	0.000 T	5.86	0.05	0.05	-0.05
	Fu.C.7	0.00	0.02	0.989	0.00	0.000	0.000 T	5.51	0.05	0.05	-0.05
	Fu.C.8	0.00	0.02	0.989	0.00	0.000	0.000 T	6.66	0.05	0.05	-0.05
	Fu.C.9	0.00	0.02	0.989	0.00	0.000	0.000 T	6.31	0.05	0.05	-0.05
	Fu.C.10	0.00	0.02	0.989	0.00	0.000	0.000 T	12.57	0.04	0.04	-0.04
	Fu.C.11	0.00	0.02	0.989	0.00	0.000	0.000 T	7.74	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	0.989	0.00	0.000	0.000 T	13.36	0.04	0.04	-0.04
	Fu.C.13	0.00	0.02	0.989	0.00	0.000	0.000 T	8.54	0.04	0.04	-0.04
	Fu.C.14	0.00	0.02	0.989	0.00	0.000	0.000 T	20.80	0.05	0.05	-0.05
	Fu.C.15	0.00	0.02	0.989	0.00	0.000	0.000 T	16.02	0.05	0.05	-0.05
	Fu.C.16	0.00	0.02	0.989	0.00	0.000	0.000 T	21.60	0.05	0.05	-0.05
	Fu.C.17	0.00	0.02	0.989	0.00	0.000	0.000 T	16.82	0.05	0.05	-0.05
	Fu.C.18	0.00	0.02	0.989	0.00	0.000	0.000 T	20.08	0.05	0.05	-0.05
	Fu.C.19	0.00	0.02	0.989	0.00	0.000	0.000 T	16.45	0.04	0.04	-0.04

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S27	Fu.C.20	0.00	0.02	0.989	0.00	0.000	0.000 T	15.24	0.05	0.05	-0.05
	Fu.C.21	0.00	0.02	0.989	0.00	0.000	0.000 T	11.61	0.04	0.04	-0.04
	Fu.C.22	0.00	0.02	0.989	0.00	0.000	0.000 T	18.63	0.05	0.05	-0.05
	Fu.C.23	0.00	0.02	0.989	0.00	0.000	0.000 T	15.02	0.04	0.04	-0.04
	Fu.C.24	0.00	0.02	0.989	0.00	0.000	0.000 T	13.82	0.05	0.05	-0.05
	Fu.C.25	0.00	0.02	0.989	0.00	0.000	0.000 T	10.21	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.989	0.00	0.000	0.000 T	26.10	0.05	0.05	-0.05
	Fu.C.27	0.00	0.03	0.989	0.00	0.000	0.000 T	16.18	0.05	0.05	-0.05
	Fu.C.28	0.00	0.02	0.989	0.00	0.000	0.000 T	10.78	0.04	0.04	-0.04
	Fu.C.29	0.00	0.02	0.989	0.00	0.000	0.000 T	15.90	0.05	0.05	-0.05
	Fu.C.30	0.00	0.02	0.989	0.00	0.000	0.000 T	18.16	0.05	0.05	-0.05
	Fu.C.31	0.00	0.02	0.989	0.00	0.000	0.000 T	22.81	0.05	0.05	-0.05
	Fu.C.32	0.00	0.02	0.989	0.00	0.000	0.000 T	14.30	0.05	0.05	-0.05
	Fu.C.33	0.00	0.02	0.989	0.00	0.000	0.000 T	5.52	0.05	0.05	-0.05
	Fu.C.34	0.00	0.02	0.989	0.00	0.000	0.000 T	9.46	0.05	0.05	-0.05
	Fu.C.35	0.00	0.02	0.989	0.00	0.000	0.000 T	11.10	0.05	0.05	-0.05
	Fu.C.36	0.00	0.02	0.989	0.00	0.000	0.000 T	13.35	0.05	0.05	-0.05
	Fu.C.37	0.00	0.02	0.989	0.00	0.000	0.000 T	15.45	0.05	0.05	-0.05
	Fu.C.38	0.00	0.02	0.989	0.00	0.000	0.000 T	17.59	0.05	0.05	-0.05
	Fu.C.39	0.00	0.02	0.989	0.00	0.000	0.000 T	14.40	0.05	0.05	-0.05
	Fu.C.40	0.00	0.02	0.989	0.00	0.000	0.000 T	14.40	0.05	0.05	-0.05
	Fu.C.41	0.00	0.02	0.989	0.00	0.000	0.000 T	14.40	0.05	0.05	-0.05
S28	Fu.C.1	-5.01	4.56	1.250	-5.01	0.000	0.000 D	-242.31	13.56	13.56	-13.56
	Fu.C.2	0.34	-0.18	1.375	-1.10	0.000	0.000 D	-10.36	-0.78	-2.53	-2.53
	Fu.C.3	0.33	-0.17	1.250	-0.48	0.000	0.000 D	-12.47	-0.77	-1.08	-1.08
	Fu.C.4	0.35	-0.17	1.375	-1.09	0.000	0.000 D	-9.19	-0.78	-2.53	-2.53
	Fu.C.5	0.34	-0.16	1.250	-0.48	0.000	0.000 D	-11.29	-0.77	-1.09	-1.09
	Fu.C.6	-1.30	1.10	1.250	-2.77	0.000	0.000 D	-68.25	3.87	-7.20	-7.20
	Fu.C.7	-1.30	1.11	1.250	-2.15	0.000	0.000 D	-70.22	3.88	-5.75	-5.75
	Fu.C.8	-1.29	1.10	1.250	-2.76	0.000	0.000 D	-67.08	3.87	-7.20	-7.20
	Fu.C.9	-1.30	1.11	1.250	-2.15	0.000	0.000 D	-69.05	3.88	-5.76	-5.76
	Fu.C.10	-1.40	1.18	1.250	-1.45	0.000	0.000 D	-46.68	4.14	-4.18	-4.18
	Fu.C.11	-0.64	0.58	1.250	-0.68	0.000	0.000 D	-21.72	1.96	-1.99	-1.99
	Fu.C.12	-1.39	1.19	1.250	-1.45	0.000	0.000 D	-45.50	4.14	-4.18	-4.18
	Fu.C.13	-0.63	0.59	1.250	-0.67	0.000	0.000 D	-20.53	1.96	-1.99	-1.99
	Fu.C.14	-3.07	2.47	1.250	-3.13	0.000	0.000 D	-104.86	8.82	-8.88	-8.88
	Fu.C.15	-2.29	1.86	1.250	-2.35	0.000	0.000 D	-79.65	6.63	-6.68	-6.68
	Fu.C.16	-3.06	2.48	1.250	-3.13	0.000	0.000 D	-103.68	8.82	-8.88	-8.88
	Fu.C.17	-2.28	1.87	1.250	-2.34	0.000	0.000 D	-78.47	6.63	-6.68	-6.68
	Fu.C.18	-2.31	2.00	1.250	-2.39	0.000	0.000 D	-96.72	6.89	-6.95	-6.95
	Fu.C.19	-1.80	1.59	1.250	-1.87	0.000	0.000 D	-79.05	5.43	-5.48	-5.48
	Fu.C.20	-1.54	1.40	1.250	-1.61	0.000	0.000 D	-71.65	4.70	-4.76	-4.76
	Fu.C.21	-1.04	0.98	1.250	-1.09	0.000	0.000 D	-54.01	3.24	-3.29	-3.29
	Fu.C.22	-2.33	1.99	1.250	-2.40	0.000	0.000 D	-97.80	6.90	-6.95	-6.95
	Fu.C.23	-1.82	1.58	1.250	-1.88	0.000	0.000 D	-80.19	5.43	-5.48	-5.48
	Fu.C.24	-1.56	1.38	1.250	-1.62	0.000	0.000 D	-72.81	4.71	-4.75	-4.75
	Fu.C.25	-1.05	0.97	1.250	-1.10	0.000	0.000 D	-55.23	3.25	-3.28	-3.28
	Fu.C.26	-3.87	3.10	1.250	-3.95	0.000	0.000 D	-129.46	11.10	-11.16	-11.16
	Fu.C.27	-2.25	1.83	1.250	-2.30	0.000	0.000 D	-78.77	6.52	-6.56	-6.56
	Fu.C.28	-1.49	1.22	1.250	-1.53	0.000	0.000 D	-52.52	4.34	-4.37	-4.37
	Fu.C.29	-2.16	1.59	1.250	-1.98	0.000	0.000 D	-77.07	5.89	-5.89	-5.75
	Fu.C.30	-1.30	1.96	1.125	-2.14	0.000	0.000 D	-90.74	5.52	-6.17	-6.17
	Fu.C.31	-4.09	1.05	1.500	-1.34	0.000	0.000 D	-105.38	6.85	-6.85	-4.71
	Fu.C.32	-4.07	5.33	1.250	-4.14	0.000	0.000 D	-114.13	13.46	-13.51	-13.51
	Fu.C.33	-1.28	1.08	1.000	-4.11	0.000	0.000 D	-108.41	4.68	-6.88	-6.88
	Fu.C.34	-2.05	1.98	1.250	-1.35	0.000	0.000 D	-96.98	6.12	6.12	-5.58
	Fu.C.35	-1.90	1.65	1.250	-2.12	0.000	0.000 D	-86.34	5.74	-5.91	-5.91
	Fu.C.36	-1.99	1.67	1.250	-1.99	0.000	0.000 D	-75.50	5.82	-5.82	-5.82
	Fu.C.37	-2.01	1.60	1.250	-2.08	0.000	0.000 D	-64.70	5.79	-5.84	-5.84
	Fu.C.38	-2.05	1.56	1.250	-2.12	0.000	0.000 D	-53.84	5.78	-5.83	-5.83
	Fu.C.39	-2.00	1.63	1.250	-2.05	0.000	0.000 D	-70.11	5.80	-5.84	-5.84
	Fu.C.40	-2.00	1.63	1.250	-2.05	0.000	0.000 D	-70.11	5.80	-5.84	-5.84
	Fu.C.41	-2.00	1.63	1.250	-2.05	0.000	0.000 D	-70.11	5.80	-5.84	-5.84
S30	Fu.C.1	0.00	0.03	0.987	0.00	0.000	0.000 D	-47.71	0.06	-0.06	-0.06
	Fu.C.2	0.00	0.02	0.987	0.00	0.000	0.000 D	-5.90	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	0.987	0.00	0.000	0.000 D	-1.13	0.04	0.04	-0.04

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S30	Fu.C.4	0.00	0.02	0.987	0.00	0.000	0.000 D	-6.67	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	0.987	0.00	0.000	0.000 D	-1.90	0.04	0.04	-0.04
	Fu.C.6	0.00	0.03	0.987	0.00	0.000	0.000 D	-25.69	0.06	-0.06	-0.06
	Fu.C.7	0.00	0.03	0.987	0.00	0.000	0.000 D	-20.95	0.05	-0.05	-0.05
	Fu.C.8	0.00	0.03	0.987	0.00	0.000	0.000 D	-26.46	0.06	-0.06	-0.06
	Fu.C.9	0.00	0.03	0.987	0.00	0.000	0.000 D	-21.72	0.05	-0.05	-0.05
	Fu.C.10	0.00	0.02	0.987	0.00	0.000	0.000 D	-22.72	0.04	-0.04	-0.04
	Fu.C.11	0.00	0.02	0.987	0.00	0.000	0.000 D	-12.58	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	0.987	0.00	0.000	0.000 D	-23.48	0.04	-0.04	-0.04
	Fu.C.13	0.00	0.02	0.987	0.00	0.000	0.000 D	-13.35	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.03	0.987	0.00	0.000	0.000 D	-42.48	0.06	-0.06	-0.06
	Fu.C.15	0.00	0.03	0.987	0.00	0.000	0.000 D	-32.37	0.06	-0.06	-0.06
	Fu.C.16	0.00	0.03	0.987	0.00	0.000	0.000 D	-43.25	0.06	-0.06	-0.06
	Fu.C.17	0.00	0.03	0.987	0.00	0.000	0.000 D	-33.14	0.06	-0.06	-0.06
	Fu.C.18	0.00	0.03	0.987	0.00	0.000	0.000 D	-36.93	0.06	-0.06	-0.06
	Fu.C.19	0.00	0.02	0.987	0.00	0.000	0.000 D	-29.71	0.04	-0.04	-0.04
	Fu.C.20	0.00	0.03	0.987	0.00	0.000	0.000 D	-26.78	0.06	-0.06	-0.06
	Fu.C.21	0.00	0.02	0.987	0.00	0.000	0.000 D	-19.55	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.03	0.987	0.00	0.000	0.000 D	-35.54	0.06	-0.06	-0.06
	Fu.C.23	0.00	0.02	0.987	0.00	0.000	0.000 D	-28.34	0.04	-0.04	-0.04
	Fu.C.24	0.00	0.03	0.987	0.00	0.000	0.000 D	-25.41	0.06	-0.06	-0.06
	Fu.C.25	0.00	0.02	0.987	0.00	0.000	0.000 D	-18.20	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.03	0.987	0.00	0.000	0.000 D	-53.28	0.06	-0.06	-0.06
	Fu.C.27	0.00	0.03	0.987	0.00	0.000	0.000 D	-32.25	0.06	-0.06	-0.06
	Fu.C.28	0.00	0.02	0.987	0.00	0.000	0.000 D	-21.49	0.04	-0.04	-0.04
	Fu.C.29	0.00	0.03	0.987	0.00	0.000	0.000 D	-30.00	0.06	-0.06	-0.06
	Fu.C.30	0.00	0.03	0.987	0.00	0.000	0.000 D	-32.83	0.06	-0.06	-0.06
	Fu.C.31	0.00	0.03	0.987	0.00	0.000	0.000 D	-35.01	0.06	-0.06	-0.06
	Fu.C.32	0.00	0.03	0.987	0.00	0.000	0.000 D	-39.61	0.06	-0.06	-0.06
	Fu.C.33	0.00	0.03	0.987	0.00	0.000	0.000 D	-31.14	0.06	-0.06	-0.06
	Fu.C.34	0.00	0.03	0.987	0.00	0.000	0.000 D	-22.23	0.05	-0.05	-0.05
	Fu.C.35	0.00	0.03	0.987	0.00	0.000	0.000 D	-26.01	0.06	-0.06	-0.06
	Fu.C.36	0.00	0.03	0.987	0.00	0.000	0.000 D	-27.60	0.06	-0.06	-0.06
	Fu.C.37	0.00	0.03	0.987	0.00	0.000	0.000 D	-29.74	0.06	-0.06	-0.06
	Fu.C.38	0.00	0.03	0.987	0.00	0.000	0.000 D	-31.74	0.06	-0.06	-0.06
	Fu.C.39	0.00	0.03	0.987	0.00	0.000	0.000 D	-28.70	0.06	-0.06	-0.06
	Fu.C.40	0.00	0.03	0.987	0.00	0.000	0.000 D	-28.70	0.06	-0.06	-0.06
	Fu.C.41	0.00	0.03	0.987	0.00	0.000	0.000 D	-28.70	0.06	-0.06	-0.06
S31	Fu.C.1	0.82			0.67	0.000	0.000 T	232.02	-0.01	-0.12	-0.12
	Fu.C.2	-0.09	0.06	1.375	-0.04	0.000	0.000 D	-19.58	0.21	0.21	-0.18
	Fu.C.3	-0.09	0.05	1.375	-0.06	0.000	0.000 D	-17.21	0.21	0.21	-0.19
	Fu.C.4	-0.08	0.06	1.375	-0.04	0.000	0.000 D	-16.42	0.21	0.21	-0.18
	Fu.C.5	-0.09	0.05	1.375	-0.06	0.000	0.000 D	-14.07	0.21	0.21	-0.19
	Fu.C.6	0.09	0.24	1.250	0.07	0.000	0.000 T	17.58	0.25	-0.26	-0.26
	Fu.C.7	0.08	0.23	1.250	0.06	0.000	0.000 T	19.78	0.25	-0.27	-0.27
	Fu.C.8	0.09	0.24	1.250	0.08	0.000	0.000 T	20.74	0.25	-0.26	-0.26
	Fu.C.9	0.09	0.23	1.250	0.06	0.000	0.000 T	22.94	0.25	-0.27	-0.27
	Fu.C.10	0.13	0.21	1.125	0.06	0.000	0.000 T	52.14	0.16	-0.21	-0.21
	Fu.C.11	0.03	0.13	1.125	-0.01	0.000	0.000 T	30.72	0.18	-0.21	-0.21
	Fu.C.12	0.13	0.21	1.125	0.06	0.000	0.000 T	55.28	0.16	-0.21	-0.21
	Fu.C.13	0.03	0.13	1.125	-0.01	0.000	0.000 T	33.86	0.18	-0.21	-0.21
	Fu.C.14	0.31	0.40	1.000	0.19	0.000	0.000 T	89.70	0.18	-0.28	-0.28
	Fu.C.15	0.21	0.31	1.000	0.11	0.000	0.000 T	67.99	0.20	-0.28	-0.28
	Fu.C.16	0.32	0.40	1.000	0.19	0.000	0.000 T	92.85	0.17	-0.28	-0.28
	Fu.C.17	0.21	0.32	1.000	0.12	0.000	0.000 T	71.14	0.20	-0.28	-0.28
	Fu.C.18	0.26	0.36	1.000	0.15	0.000	0.000 T	85.31	0.19	-0.28	-0.28
	Fu.C.19	0.22	0.29	1.000	0.13	0.000	0.000 T	70.03	0.14	-0.21	-0.21
	Fu.C.20	0.16	0.28	1.125	0.08	0.000	0.000 T	63.75	0.22	-0.28	-0.28
	Fu.C.21	0.12	0.21	1.125	0.06	0.000	0.000 T	48.51	0.17	-0.21	-0.21
	Fu.C.22	0.26	0.35	1.000	0.15	0.000	0.000 T	79.53	0.19	-0.28	-0.28
	Fu.C.23	0.21	0.28	1.000	0.13	0.000	0.000 T	64.34	0.14	-0.21	-0.21
	Fu.C.24	0.15	0.27	1.125	0.08	0.000	0.000 T	58.08	0.22	-0.28	-0.28
	Fu.C.25	0.11	0.20	1.125	0.06	0.000	0.000 T	42.93	0.17	-0.21	-0.21
	Fu.C.26	0.42	0.48	0.875	0.26	0.000	0.000 T	111.96	0.14	-0.27	-0.27
	Fu.C.27	0.19	0.32	1.125	0.10	0.000	0.000 T	67.94	0.24	-0.31	-0.31
	Fu.C.28	0.12	0.21	1.125	0.06	0.000	0.000 T	45.29	0.16	-0.21	-0.21

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S31	Fu.C.29	0.20	0.30	1.000	0.10	0.000	0.000 T	66.43	0.21	-0.28	-0.28
	Fu.C.30	0.22	0.33	1.125	0.14	0.000	0.000 T	78.60	0.21	-0.27	-0.27
	Fu.C.31	0.29	0.37	0.875	0.15	0.000	0.000 T	90.21	0.17	-0.29	-0.29
	Fu.C.32	0.38	0.44	0.875	0.21	0.000	0.000 T	104.23	0.15	-0.29	-0.29
	Fu.C.33	0.30	0.43	1.250	0.29	0.000	0.000 T	104.27	0.21	-0.22	-0.22
	Fu.C.34	0.24	0.36	1.125	0.20	0.000	0.000 T	90.35	0.22	-0.24	-0.24
	Fu.C.35	0.22	0.33	1.125	0.13	0.000	0.000 T	78.72	0.20	-0.27	-0.27
	Fu.C.36	0.18	0.30	1.125	0.11	0.000	0.000 T	66.50	0.21	-0.28	-0.28
	Fu.C.37	0.15	0.27	1.125	0.07	0.000	0.000 T	54.41	0.21	-0.28	-0.28
	Fu.C.38	0.12	0.24	1.125	0.03	0.000	0.000 T	42.23	0.22	-0.29	-0.29
	Fu.C.39	0.17	0.28	1.125	0.09	0.000	0.000 T	60.47	0.21	-0.28	-0.28
S33	Fu.C.40	0.17	0.28	1.125	0.09	0.000	0.000 T	60.47	0.21	-0.28	-0.28
	Fu.C.41	0.17	0.28	1.125	0.09	0.000	0.000 T	60.47	0.21	-0.28	-0.28
	Fu.C.1	0.00	0.02	1.011	0.00	0.000	0.000 T	47.50	0.04	0.04	-0.04
	Fu.C.2	0.00	0.02	1.011	0.00	0.000	0.000 T	6.45	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	1.011	0.00	0.000	0.000 T	1.76	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	1.011	0.00	0.000	0.000 T	7.20	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	1.011	0.00	0.000	0.000 T	2.51	0.04	0.04	-0.04
	Fu.C.6	0.00	0.02	1.011	0.00	0.000	0.000 T	26.20	0.05	0.05	-0.05
	Fu.C.7	0.00	0.02	1.011	0.00	0.000	0.000 T	21.52	0.05	0.05	-0.05
	Fu.C.8	0.00	0.02	1.011	0.00	0.000	0.000 T	26.95	0.05	0.05	-0.05
	Fu.C.9	0.00	0.02	1.011	0.00	0.000	0.000 T	22.28	0.05	0.05	-0.05
	Fu.C.10	0.00	0.02	1.011	0.00	0.000	0.000 T	23.06	0.04	0.04	-0.03
	Fu.C.11	0.00	0.02	1.011	0.00	0.000	0.000 T	13.07	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	1.011	0.00	0.000	0.000 T	23.81	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	1.011	0.00	0.000	0.000 T	13.82	0.04	0.04	-0.04
	Fu.C.14	0.00	0.02	1.011	0.00	0.000	0.000 T	42.74	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	1.011	0.00	0.000	0.000 T	32.79	0.05	0.05	-0.04
	Fu.C.16	0.00	0.02	1.011	0.00	0.000	0.000 T	43.50	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	1.011	0.00	0.000	0.000 T	33.55	0.05	0.05	-0.04
	Fu.C.18	0.00	0.02	1.011	0.00	0.000	0.000 T	37.28	0.04	0.04	-0.04
	Fu.C.19	0.00	0.02	1.011	0.00	0.000	0.000 T	29.94	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.011	0.00	0.000	0.000 T	27.27	0.05	0.05	-0.05
	Fu.C.21	0.00	0.02	1.011	0.00	0.000	0.000 T	19.93	0.04	0.04	-0.03
	Fu.C.22	0.00	0.02	1.011	0.00	0.000	0.000 T	35.91	0.04	0.04	-0.04
	Fu.C.23	0.00	0.02	1.011	0.00	0.000	0.000 T	28.59	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.011	0.00	0.000	0.000 T	25.93	0.05	0.05	-0.05
	Fu.C.25	0.00	0.02	1.011	0.00	0.000	0.000 T	18.60	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	1.011	0.00	0.000	0.000 T	53.38	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	1.011	0.00	0.000	0.000 T	32.78	0.05	0.05	-0.05
	Fu.C.28	0.00	0.02	1.011	0.00	0.000	0.000 T	21.85	0.04	0.04	-0.03
	Fu.C.29	0.00	0.02	1.011	0.00	0.000	0.000 T	30.46	0.05	0.05	-0.05
	Fu.C.30	0.00	0.02	1.011	0.00	0.000	0.000 T	33.22	0.05	0.05	-0.04
	Fu.C.31	0.00	0.02	1.011	0.00	0.000	0.000 T	35.40	0.05	0.05	-0.04
	Fu.C.32	0.00	0.02	1.011	0.00	0.000	0.000 T	39.90	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.011	0.00	0.000	0.000 T	31.43	0.05	0.05	-0.04
	Fu.C.34	0.00	0.02	1.011	0.00	0.000	0.000 T	22.73	0.05	0.05	-0.05
	Fu.C.35	0.00	0.02	1.011	0.00	0.000	0.000 T	26.52	0.05	0.05	-0.05
	Fu.C.36	0.00	0.02	1.011	0.00	0.000	0.000 T	28.07	0.05	0.05	-0.05
	Fu.C.37	0.00	0.02	1.011	0.00	0.000	0.000 T	30.21	0.05	0.05	-0.05
	Fu.C.38	0.00	0.02	1.011	0.00	0.000	0.000 T	32.19	0.05	0.05	-0.04
	Fu.C.39	0.00	0.02	1.011	0.00	0.000	0.000 T	29.17	0.05	0.05	-0.05
	Fu.C.40	0.00	0.02	1.011	0.00	0.000	0.000 T	29.17	0.05	0.05	-0.05
	Fu.C.41	0.00	0.02	1.011	0.00	0.000	0.000 T	29.17	0.05	0.05	-0.05
S34	Fu.C.1	-5.01	4.41	1.249	-5.16	0.000	0.000 D	-203.40	13.44	-13.56	-13.56
	Fu.C.2	-1.10	1.15	1.124	-1.81	0.000	0.000 D	-8.31	3.86	-4.43	-4.43
	Fu.C.3	-0.48	0.57	1.124	-0.86	0.000	0.000 D	-13.59	1.82	-2.13	-2.13
	Fu.C.4	-1.09	1.15	1.124	-1.81	0.000	0.000 D	-6.15	3.86	-4.43	-4.43
	Fu.C.5	-0.48	0.57	1.124	-0.86	0.000	0.000 D	-11.42	1.82	-2.13	-2.13
	Fu.C.6	-2.77	2.36	1.249	-3.55	0.000	0.000 D	-48.61	8.50	-9.12	-9.12
	Fu.C.7	-2.15	1.78	1.249	-2.60	0.000	0.000 D	-53.71	6.46	-6.82	-6.82
	Fu.C.8	-2.76	2.36	1.249	-3.55	0.000	0.000 D	-46.45	8.50	-9.12	-9.12
	Fu.C.9	-2.15	1.78	1.249	-2.60	0.000	0.000 D	-51.56	6.46	-6.82	-6.82
	Fu.C.10	-1.45	1.10	1.249	-1.54	0.000	0.000 D	-24.29	4.12	-4.18	-4.18
	Fu.C.11	-0.68	0.53	1.249	-0.73	0.000	0.000 D	-8.68	1.95	-1.99	-1.99
	Fu.C.12	-1.45	1.10	1.249	-1.54	0.000	0.000 D	-22.12	4.11	-4.18	-4.18

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S34	Fu.C.13	-0.67	0.53	1.249	-0.73	0.000	0.000 D	-6.51	1.95	-1.99	-1.99
	Fu.C.14	-3.13	2.33	1.249	-3.27	0.000	0.000 D	-64.94	8.76	-8.87	-8.87
	Fu.C.15	-2.35	1.75	1.249	-2.46	0.000	0.000 D	-49.03	6.59	-6.68	-6.68
	Fu.C.16	-3.13	2.33	1.249	-3.27	0.000	0.000 D	-62.76	8.76	-8.87	-8.87
	Fu.C.17	-2.34	1.75	1.249	-2.46	0.000	0.000 D	-46.86	6.59	-6.68	-6.68
	Fu.C.18	-2.39	1.87	1.249	-2.52	0.000	0.000 D	-60.79	6.84	-6.95	-6.95
	Fu.C.19	-1.87	1.48	1.249	-1.98	0.000	0.000 D	-49.96	5.39	-5.48	-5.48
	Fu.C.20	-1.61	1.30	1.249	-1.71	0.000	0.000 D	-45.10	4.68	-4.75	-4.75
	Fu.C.21	-1.09	0.91	1.249	-1.17	0.000	0.000 D	-34.31	3.23	-3.29	-3.29
	Fu.C.22	-2.40	1.86	1.249	-2.52	0.000	0.000 D	-63.67	6.85	-6.95	-6.95
	Fu.C.23	-1.88	1.48	1.249	-1.98	0.000	0.000 D	-52.88	5.40	-5.48	-5.48
	Fu.C.24	-1.62	1.29	1.249	-1.71	0.000	0.000 D	-48.03	4.68	-4.75	-4.75
	Fu.C.25	-1.10	0.91	1.249	-1.17	0.000	0.000 D	-37.28	3.23	-3.29	-3.29
	Fu.C.26	-3.95	2.92	1.249	-4.12	0.000	0.000 D	-79.34	11.01	-11.14	-11.14
	Fu.C.27	-2.30	1.72	1.249	-2.42	0.000	0.000 D	-48.24	6.47	-6.56	-6.56
	Fu.C.28	-1.53	1.15	1.249	-1.61	0.000	0.000 D	-32.17	4.31	-4.37	-4.37
	Fu.C.29	-1.98	1.58	1.249	-2.14	0.000	0.000 D	-48.12	5.74	-5.87	-5.87
	Fu.C.30	-2.14	1.54	1.249	-2.06	0.000	0.000 D	-58.58	5.84	5.84	-5.77
	Fu.C.31	-1.34	1.88	1.124	-2.22	0.000	0.000 D	-68.84	5.48	-6.17	-6.17
	Fu.C.32	-4.14	0.96	1.499	-1.43	0.000	0.000 D	-80.01	6.83	6.83	-4.71
	Fu.C.33	-4.11	5.19	1.249	-4.25	0.000	0.000 D	-85.50	13.37	-13.48	-13.48
	Fu.C.34	-1.35	0.98	0.999	-4.21	0.000	0.000 D	-77.00	4.65	-6.89	-6.89
	Fu.C.35	-2.12	1.84	1.249	-1.50	0.000	0.000 D	-62.96	6.07	6.07	-5.57
	Fu.C.36	-1.99	1.51	1.249	-2.26	0.000	0.000 D	-49.68	5.69	-5.91	-5.91
	Fu.C.37	-2.08	1.52	1.249	-2.14	0.000	0.000 D	-36.20	5.78	-5.82	-5.82
	Fu.C.38	-2.12	1.44	1.249	-2.24	0.000	0.000 D	-22.72	5.74	-5.84	-5.84
	Fu.C.39	-2.05	1.53	1.249	-2.15	0.000	0.000 D	-42.94	5.76	-5.84	-5.84
	Fu.C.40	-2.05	1.53	1.249	-2.15	0.000	0.000 D	-42.94	5.76	-5.84	-5.84
	Fu.C.41	-2.05	1.53	1.249	-2.15	0.000	0.000 D	-42.94	5.76	-5.84	-5.84
S36	Fu.C.1	0.00	0.04	1.010	0.00	0.000	0.000 D	-79.13	0.07	-0.08	-0.08
	Fu.C.2	0.00	0.02	1.010	0.00	0.000	0.000 D	-17.07	0.04	0.04	-0.04
	Fu.C.3	0.00	0.02	1.010	0.00	0.000	0.000 D	-6.97	0.04	0.04	-0.04
	Fu.C.4	0.00	0.02	1.010	0.00	0.000	0.000 D	-17.79	0.04	0.04	-0.04
	Fu.C.5	0.00	0.02	1.010	0.00	0.000	0.000 D	-7.70	0.04	0.04	-0.04
	Fu.C.6	0.00	0.03	1.010	0.00	0.000	0.000 D	-47.63	0.06	-0.06	-0.06
	Fu.C.7	0.00	0.03	1.010	0.00	0.000	0.000 D	-37.56	0.06	-0.06	-0.06
	Fu.C.8	0.00	0.03	1.010	0.00	0.000	0.000 D	-48.35	0.06	-0.06	-0.06
	Fu.C.9	0.00	0.03	1.010	0.00	0.000	0.000 D	-38.29	0.06	-0.06	-0.06
	Fu.C.10	0.00	0.02	1.010	0.00	0.000	0.000 D	-32.59	0.04	-0.04	-0.04
	Fu.C.11	0.00	0.02	1.010	0.00	0.000	0.000 D	-17.61	0.04	-0.04	-0.04
	Fu.C.12	0.00	0.02	1.010	0.00	0.000	0.000 D	-33.32	0.04	-0.04	-0.04
	Fu.C.13	0.00	0.02	1.010	0.00	0.000	0.000 D	-18.34	0.04	-0.04	-0.04
	Fu.C.14	0.00	0.04	1.010	0.00	0.000	0.000 D	-63.09	0.07	-0.07	-0.07
	Fu.C.15	0.00	0.03	1.010	0.00	0.000	0.000 D	-48.14	0.06	-0.06	-0.06
	Fu.C.16	0.00	0.04	1.010	0.00	0.000	0.000 D	-63.82	0.07	-0.07	-0.07
	Fu.C.17	0.00	0.03	1.010	0.00	0.000	0.000 D	-48.87	0.06	-0.06	-0.06
	Fu.C.18	0.00	0.03	1.010	0.00	0.000	0.000 D	-53.09	0.06	-0.06	-0.06
	Fu.C.19	0.00	0.02	1.010	0.00	0.000	0.000 D	-42.39	0.04	-0.05	-0.05
	Fu.C.20	0.00	0.03	1.010	0.00	0.000	0.000 D	-38.09	0.06	-0.06	-0.06
	Fu.C.21	0.00	0.02	1.010	0.00	0.000	0.000 D	-27.38	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.03	1.010	0.00	0.000	0.000 D	-51.78	0.06	-0.06	-0.06
	Fu.C.23	0.00	0.02	1.010	0.00	0.000	0.000 D	-41.09	0.04	-0.05	-0.05
	Fu.C.24	0.00	0.03	1.010	0.00	0.000	0.000 D	-36.80	0.06	-0.06	-0.06
	Fu.C.25	0.00	0.02	1.010	0.00	0.000	0.000 D	-26.10	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.04	1.010	0.00	0.000	0.000 D	-78.89	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.04	1.010	0.00	0.000	0.000 D	-47.87	0.07	-0.07	-0.07
	Fu.C.28	0.00	0.02	1.010	0.00	0.000	0.000 D	-31.91	0.04	-0.04	-0.04
	Fu.C.29	0.00	0.03	1.010	0.00	0.000	0.000 D	-43.88	0.06	-0.06	-0.06
	Fu.C.30	0.00	0.03	1.010	0.00	0.000	0.000 D	-46.38	0.06	-0.06	-0.06
	Fu.C.31	0.00	0.03	1.010	0.00	0.000	0.000 D	-49.08	0.06	-0.06	-0.06
	Fu.C.32	0.00	0.03	1.010	0.00	0.000	0.000 D	-51.14	0.06	-0.06	-0.06
	Fu.C.33	0.00	0.03	1.010	0.00	0.000	0.000 D	-55.58	0.06	-0.07	-0.07
	Fu.C.34	0.00	0.03	1.010	0.00	0.000	0.000 D	-47.13	0.06	-0.06	-0.06
	Fu.C.35	0.00	0.03	1.010	0.00	0.000	0.000 D	-38.32	0.06	-0.06	-0.06
	Fu.C.36	0.00	0.03	1.010	0.00	0.000	0.000 D	-41.98	0.06	-0.06	-0.06
	Fu.C.37	0.00	0.03	1.010	0.00	0.000	0.000 D	-43.48	0.06	-0.06	-0.06

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S36	Fu.C.38	0.00	0.03	1.010	0.00	0.000	0.000 D	-45.53	0.06	-0.06	-0.06
	Fu.C.39	0.00	0.03	1.010	0.00	0.000	0.000 D	-42.60	0.06	-0.06	-0.06
	Fu.C.40	0.00	0.03	1.010	0.00	0.000	0.000 D	-42.60	0.06	-0.06	-0.06
	Fu.C.41	0.00	0.03	1.010	0.00	0.000	0.000 D	-42.60	0.06	-0.06	-0.06
S37	Fu.C.1	0.67	0.67	0.125	0.36	0.000	0.000 T	172.61	0.02	-0.27	-0.27
	Fu.C.2	-0.04	0.06	1.125	-0.08	0.000	0.000 D	-27.23	0.18	-0.21	-0.21
	Fu.C.3	-0.06	0.06	1.250	-0.07	0.000	0.000 D	-18.95	0.19	-0.20	-0.20
	Fu.C.4	-0.04	0.06	1.125	-0.08	0.000	0.000 D	-25.03	0.18	-0.21	-0.21
	Fu.C.5	-0.06	0.06	1.250	-0.07	0.000	0.000 D	-16.76	0.19	-0.20	-0.20
	Fu.C.6	0.07	0.18	1.000	-0.05	0.000	0.000 D	-14.77	0.21	-0.32	-0.32
	Fu.C.7	0.06	0.18	1.000	-0.05	0.000	0.000 D	-6.68	0.22	-0.31	-0.31
	Fu.C.8	0.08	0.18	1.000	-0.06	0.000	0.000 D	-12.56	0.21	-0.32	-0.32
	Fu.C.9	0.06	0.17	1.000	-0.05	0.000	0.000 D	-4.47	0.22	-0.31	-0.31
	Fu.C.10	0.06	0.14	1.000	-0.05	0.000	0.000 T	23.59	0.15	-0.24	-0.24
	Fu.C.11	-0.01	0.09	1.125	-0.07	0.000	0.000 T	14.75	0.17	-0.22	-0.22
	Fu.C.12	0.06	0.14	1.000	-0.05	0.000	0.000 T	25.78	0.15	-0.24	-0.24
	Fu.C.13	-0.01	0.09	1.125	-0.07	0.000	0.000 T	16.93	0.17	-0.22	-0.22
	Fu.C.14	0.19	0.26	0.875	-0.02	0.000	0.000 T	36.52	0.17	-0.34	-0.34
	Fu.C.15	0.11	0.21	1.000	-0.04	0.000	0.000 T	27.34	0.20	-0.32	-0.32
	Fu.C.16	0.19	0.26	0.875	-0.02	0.000	0.000 T	38.71	0.17	-0.34	-0.34
	Fu.C.17	0.12	0.21	1.000	-0.04	0.000	0.000 T	29.54	0.19	-0.32	-0.32
	Fu.C.18	0.15	0.24	0.875	-0.02	0.000	0.000 T	39.01	0.18	-0.33	-0.33
	Fu.C.19	0.13	0.19	0.875	-0.01	0.000	0.000 T	32.81	0.14	-0.25	-0.25
	Fu.C.20	0.08	0.19	1.000	-0.04	0.000	0.000 T	30.05	0.21	-0.31	-0.31
	Fu.C.21	0.06	0.14	1.000	-0.03	0.000	0.000 T	23.90	0.16	-0.23	-0.23
	Fu.C.22	0.15	0.24	0.875	-0.02	0.000	0.000 T	34.96	0.19	-0.32	-0.32
	Fu.C.23	0.13	0.19	0.875	-0.01	0.000	0.000 T	28.82	0.14	-0.25	-0.25
	Fu.C.24	0.08	0.18	1.000	-0.04	0.000	0.000 T	26.08	0.21	-0.31	-0.31
	Fu.C.25	0.06	0.14	1.000	-0.03	0.000	0.000 T	19.99	0.16	-0.23	-0.23
	Fu.C.26	0.26	0.31	0.750	0.00	0.000	0.000 T	45.38	0.15	-0.36	-0.36
	Fu.C.27	0.10	0.21	1.000	-0.06	0.000	0.000 T	27.39	0.23	-0.35	-0.35
	Fu.C.28	0.06	0.14	1.000	-0.04	0.000	0.000 T	18.27	0.15	-0.24	-0.24
	Fu.C.29	0.10	0.20	1.000	-0.04	0.000	0.000 T	28.73	0.20	-0.32	-0.32
	Fu.C.30	0.14	0.22	0.875	-0.03	0.000	0.000 T	37.40	0.19	-0.32	-0.32
	Fu.C.31	0.15	0.24	1.000	0.00	0.000	0.000 T	46.29	0.19	-0.31	-0.31
	Fu.C.32	0.21	0.28	0.875	-0.01	0.000	0.000 T	54.62	0.16	-0.34	-0.34
	Fu.C.33	0.29	0.34	0.750	0.05	0.000	0.000 T	65.24	0.15	-0.34	-0.34
	Fu.C.34	0.20	0.31	1.000	0.10	0.000	0.000 T	62.33	0.20	-0.29	-0.29
	Fu.C.35	0.13	0.24	1.000	0.03	0.000	0.000 T	45.97	0.21	-0.29	-0.29
	Fu.C.36	0.11	0.21	1.000	-0.03	0.000	0.000 T	31.78	0.20	-0.31	-0.31
	Fu.C.37	0.07	0.17	1.000	-0.06	0.000	0.000 T	17.02	0.21	-0.31	-0.31
	Fu.C.38	0.03	0.13	1.000	-0.11	0.000	0.000 T	2.35	0.21	-0.32	-0.32
	Fu.C.39	0.09	0.19	1.000	-0.05	0.000	0.000 T	24.38	0.20	-0.31	-0.31
	Fu.C.40	0.09	0.19	1.000	-0.05	0.000	0.000 T	24.38	0.20	-0.31	-0.31
	Fu.C.41	0.09	0.19	1.000	-0.05	0.000	0.000 T	24.38	0.20	-0.31	-0.31
S39	Fu.C.1	0.00	0.02	1.034	0.00	0.000	0.000 T	78.79	0.04	0.04	-0.04
	Fu.C.2	0.00	0.02	1.034	0.00	0.000	0.000 T	17.44	0.04	-0.04	-0.04
	Fu.C.3	0.00	0.02	1.034	0.00	0.000	0.000 T	7.50	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	1.034	0.00	0.000	0.000 T	18.16	0.04	-0.04	-0.04
	Fu.C.5	0.00	0.02	1.034	0.00	0.000	0.000 T	8.22	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	1.034	0.00	0.000	0.000 T	47.80	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	1.034	0.00	0.000	0.000 T	37.88	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	1.034	0.00	0.000	0.000 T	48.52	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	1.034	0.00	0.000	0.000 T	38.60	0.04	0.04	-0.04
	Fu.C.10	0.00	0.02	1.034	0.00	0.000	0.000 T	32.80	0.03	0.03	-0.03
	Fu.C.11	0.00	0.02	1.034	0.00	0.000	0.000 T	18.02	0.04	0.04	-0.04
	Fu.C.12	0.00	0.02	1.034	0.00	0.000	0.000 T	33.52	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	1.034	0.00	0.000	0.000 T	18.74	0.04	0.04	-0.04
	Fu.C.14	0.00	0.02	1.034	0.00	0.000	0.000 T	63.10	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	1.034	0.00	0.000	0.000 T	48.35	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	1.034	0.00	0.000	0.000 T	63.82	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	1.034	0.00	0.000	0.000 T	49.07	0.04	0.04	-0.04
	Fu.C.18	0.00	0.02	1.034	0.00	0.000	0.000 T	53.24	0.04	0.04	-0.04
	Fu.C.19	0.00	0.02	1.034	0.00	0.000	0.000 T	42.46	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.034	0.00	0.000	0.000 T	38.44	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	1.034	0.00	0.000	0.000 T	27.66	0.03	0.03	-0.03

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S39	Fu.C.22	0.00	0.02	1.034	0.00	0.000	0.000 T	51.94	0.04	0.04	-0.04
	Fu.C.23	0.00	0.02	1.034	0.00	0.000	0.000 T	41.18	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.034	0.00	0.000	0.000 T	37.16	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	1.034	0.00	0.000	0.000 T	26.39	0.03	0.03	-0.03
	Fu.C.26	0.00	0.02	1.034	0.00	0.000	0.000 T	78.69	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	1.034	0.00	0.000	0.000 T	48.19	0.05	0.05	-0.05
	Fu.C.28	0.00	0.02	1.034	0.00	0.000	0.000 T	32.12	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	1.034	0.00	0.000	0.000 T	44.15	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	1.034	0.00	0.000	0.000 T	46.62	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	1.034	0.00	0.000	0.000 T	49.27	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	1.034	0.00	0.000	0.000 T	51.35	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.034	0.00	0.000	0.000 T	55.71	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	1.034	0.00	0.000	0.000 T	47.28	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	1.034	0.00	0.000	0.000 T	38.63	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	1.034	0.00	0.000	0.000 T	42.26	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	1.034	0.00	0.000	0.000 T	43.73	0.04	0.04	-0.04
	Fu.C.38	0.00	0.02	1.034	0.00	0.000	0.000 T	45.76	0.04	0.04	-0.04
	Fu.C.39	0.00	0.02	1.034	0.00	0.000	0.000 T	42.89	0.04	0.04	-0.04
	Fu.C.40	0.00	0.02	1.034	0.00	0.000	0.000 T	42.89	0.04	0.04	-0.04
	Fu.C.41	0.00	0.02	1.034	0.00	0.000	0.000 T	42.89	0.04	0.04	-0.04
S40	Fu.C.1	-5.16	3.84	1.250	-5.91	0.000	0.000 D	-125.10	13.08	-13.67	-13.67
	Fu.C.2	-1.81	0.76	1.250	-1.84	0.000	0.000 T	6.12	4.13	-4.16	-4.16
	Fu.C.3	-0.86	0.37	1.250	-0.86	0.000	0.000 D	-8.28	1.98	1.98	-1.97
	Fu.C.4	-1.81	0.76	1.250	-1.85	0.000	0.000 T	9.19	4.13	-4.16	-4.16
	Fu.C.5	-0.86	0.37	1.250	-0.87	0.000	0.000 D	-5.19	1.97	-1.98	-1.98
	Fu.C.6	-3.55	1.78	1.250	-3.89	0.000	0.000 D	-3.30	8.66	-8.93	-8.93
	Fu.C.7	-2.60	1.39	1.250	-2.92	0.000	0.000 D	-17.42	6.50	-6.75	-6.75
	Fu.C.8	-3.55	1.77	1.250	-3.90	0.000	0.000 D	-0.23	8.65	-8.93	-8.93
	Fu.C.9	-2.60	1.38	1.250	-2.92	0.000	0.000 D	-14.34	6.50	-6.75	-6.75
	Fu.C.10	-1.54	0.88	1.250	-1.88	0.000	0.000 T	10.55	4.01	-4.28	-4.28
	Fu.C.11	-0.73	0.42	1.250	-0.91	0.000	0.000 T	10.80	1.90	-2.05	-2.05
	Fu.C.12	-1.54	0.88	1.250	-1.88	0.000	0.000 T	13.64	4.01	-4.28	-4.28
	Fu.C.13	-0.73	0.41	1.250	-0.92	0.000	0.000 T	13.89	1.90	-2.05	-2.05
	Fu.C.14	-3.27	1.90	1.250	-3.92	0.000	0.000 T	0.86	8.53	-9.05	-9.05
	Fu.C.15	-2.46	1.43	1.250	-2.96	0.000	0.000 T	1.45	6.42	-6.82	-6.82
	Fu.C.16	-3.27	1.90	1.250	-3.93	0.000	0.000 T	3.96	8.53	-9.05	-9.05
	Fu.C.17	-2.46	1.42	1.250	-2.97	0.000	0.000 T	4.54	6.42	-6.82	-6.82
	Fu.C.18	-2.52	1.51	1.250	-3.06	0.000	0.000 D	-5.01	6.66	-7.09	-7.09
	Fu.C.19	-1.98	1.20	1.250	-2.41	0.000	0.000 D	-5.33	5.25	-5.60	-5.60
	Fu.C.20	-1.71	1.04	1.250	-2.10	0.000	0.000 D	-4.70	4.55	-4.86	-4.86
	Fu.C.21	-1.17	0.73	1.250	-1.45	0.000	0.000 D	-5.05	3.14	-3.37	-3.37
	Fu.C.22	-2.52	1.51	1.250	-3.05	0.000	0.000 D	-9.55	6.67	-7.09	-7.09
	Fu.C.23	-1.98	1.20	1.250	-2.40	0.000	0.000 D	-9.89	5.26	-5.59	-5.59
	Fu.C.24	-1.71	1.04	1.250	-2.09	0.000	0.000 D	-9.26	4.55	-4.86	-4.86
	Fu.C.25	-1.17	0.73	1.250	-1.44	0.000	0.000 D	-9.63	3.14	-3.36	-3.36
	Fu.C.26	-4.12	2.38	1.250	-4.92	0.000	0.000 T	2.98	10.72	-11.36	-11.36
	Fu.C.27	-2.42	1.40	1.250	-2.91	0.000	0.000 T	1.89	6.31	-6.71	-6.71
	Fu.C.28	-1.61	0.94	1.250	-1.94	0.000	0.000 T	1.23	4.20	-4.47	-4.47
	Fu.C.29	-2.14	1.26	1.250	-2.58	0.000	0.000 D	-2.21	5.62	-5.97	-5.97
	Fu.C.30	-2.06	1.30	1.250	-2.58	0.000	0.000 D	-9.41	5.58	-6.00	-6.00
	Fu.C.31	-2.22	1.26	1.250	-2.51	0.000	0.000 D	-16.66	5.68	-5.91	-5.91
	Fu.C.32	-1.43	1.59	1.125	-2.69	0.000	0.000 D	-23.71	5.30	-6.30	-6.30
	Fu.C.33	-4.25	0.62	1.500	-1.94	0.000	0.000 D	-31.62	6.69	6.69	-4.86
	Fu.C.34	-4.21	4.81	1.250	-4.76	0.000	0.000 D	-34.04	13.12	-13.55	-13.55
	Fu.C.35	-1.50	0.70	1.000	-4.70	0.000	0.000 D	-22.89	4.51	-7.06	-7.06
	Fu.C.36	-2.26	1.48	1.250	-2.02	0.000	0.000 D	-6.43	5.89	5.89	-5.70
	Fu.C.37	-2.14	1.16	1.250	-2.78	0.000	0.000 T	9.58	5.53	-6.05	-6.05
	Fu.C.38	-2.24	1.16	1.250	-2.67	0.000	0.000 T	25.56	5.62	-5.96	-5.96
	Fu.C.39	-2.15	1.25	1.250	-2.59	0.000	0.000 T	1.67	5.61	-5.97	-5.97
	Fu.C.40	-2.15	1.25	1.250	-2.59	0.000	0.000 T	1.67	5.61	-5.97	-5.97
	Fu.C.41	-2.15	1.25	1.250	-2.59	0.000	0.000 T	1.67	5.61	-5.97	-5.97
S42	Fu.C.1	0.00	0.06	1.033	0.00	0.000	0.000 D	-109.73	0.11	-0.12	-0.12
	Fu.C.2	0.00	0.03	1.033	0.00	0.000	0.000 D	-27.26	0.06	0.06	-0.06
	Fu.C.3	0.00	0.03	1.033	0.00	0.000	0.000 D	-12.34	0.05	0.05	-0.05
	Fu.C.4	0.00	0.03	1.033	0.00	0.000	0.000 D	-27.95	0.06	0.06	-0.06
	Fu.C.5	0.00	0.03	1.033	0.00	0.000	0.000 D	-13.03	0.05	0.05	-0.05

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S42	Fu.C.6	0.00	0.05	1.033	0.00	0.000	0.000 D	-68.24	0.09	-0.09	-0.09
	Fu.C.7	0.00	0.05	1.033	0.00	0.000	0.000 D	-53.35	0.08	-0.08	-0.08
	Fu.C.8	0.00	0.05	1.033	0.00	0.000	0.000 D	-68.93	0.09	-0.09	-0.09
	Fu.C.9	0.00	0.05	1.033	0.00	0.000	0.000 D	-54.03	0.08	-0.08	-0.08
	Fu.C.10	0.00	0.03	1.033	0.00	0.000	0.000 D	-42.19	0.06	-0.06	-0.06
	Fu.C.11	0.00	0.03	1.033	0.00	0.000	0.000 D	-22.51	0.06	-0.06	-0.06
	Fu.C.12	0.00	0.03	1.033	0.00	0.000	0.000 D	-42.88	0.06	-0.06	-0.06
	Fu.C.13	0.00	0.03	1.033	0.00	0.000	0.000 D	-23.19	0.06	-0.06	-0.06
	Fu.C.14	0.00	0.05	1.033	0.00	0.000	0.000 D	-83.11	0.10	-0.10	-0.10
	Fu.C.15	0.00	0.05	1.033	0.00	0.000	0.000 D	-63.46	0.09	-0.09	-0.09
	Fu.C.16	0.00	0.05	1.033	0.00	0.000	0.000 D	-83.79	0.10	-0.10	-0.10
	Fu.C.17	0.00	0.05	1.033	0.00	0.000	0.000 D	-64.15	0.09	-0.09	-0.09
	Fu.C.18	0.00	0.05	1.033	0.00	0.000	0.000 D	-68.84	0.09	-0.09	-0.09
	Fu.C.19	0.00	0.03	1.033	0.00	0.000	0.000 D	-54.74	0.06	-0.06	-0.06
	Fu.C.20	0.00	0.04	1.033	0.00	0.000	0.000 D	-49.14	0.08	-0.08	-0.08
	Fu.C.21	0.00	0.03	1.033	0.00	0.000	0.000 D	-35.04	0.06	-0.06	-0.06
	Fu.C.22	0.00	0.05	1.033	0.00	0.000	0.000 D	-67.60	0.09	-0.09	-0.09
	Fu.C.23	0.00	0.03	1.033	0.00	0.000	0.000 D	-53.52	0.06	-0.06	-0.06
	Fu.C.24	0.00	0.04	1.033	0.00	0.000	0.000 D	-47.92	0.08	-0.08	-0.08
	Fu.C.25	0.00	0.03	1.033	0.00	0.000	0.000 D	-33.83	0.06	-0.06	-0.06
	Fu.C.26	0.00	0.06	1.033	0.00	0.000	0.000 D	-103.73	0.11	-0.11	-0.11
	Fu.C.27	0.00	0.05	1.033	0.00	0.000	0.000 D	-63.06	0.10	-0.10	-0.10
	Fu.C.28	0.00	0.03	1.033	0.00	0.000	0.000 D	-42.04	0.06	-0.06	-0.06
	Fu.C.29	0.00	0.05	1.033	0.00	0.000	0.000 D	-57.34	0.08	-0.09	-0.09
	Fu.C.30	0.00	0.05	1.033	0.00	0.000	0.000 D	-59.79	0.09	-0.09	-0.09
	Fu.C.31	0.00	0.05	1.033	0.00	0.000	0.000 D	-62.21	0.09	-0.09	-0.09
	Fu.C.32	0.00	0.05	1.033	0.00	0.000	0.000 D	-64.83	0.09	-0.09	-0.09
	Fu.C.33	0.00	0.05	1.033	0.00	0.000	0.000 D	-66.82	0.09	-0.09	-0.09
	Fu.C.34	0.00	0.05	1.033	0.00	0.000	0.000 D	-71.13	0.09	-0.09	-0.09
	Fu.C.35	0.00	0.05	1.033	0.00	0.000	0.000 D	-62.68	0.09	-0.09	-0.09
	Fu.C.36	0.00	0.05	1.033	0.00	0.000	0.000 D	-53.89	0.08	-0.08	-0.08
	Fu.C.37	0.00	0.05	1.033	0.00	0.000	0.000 D	-57.39	0.08	-0.09	-0.09
	Fu.C.38	0.00	0.05	1.033	0.00	0.000	0.000 D	-58.73	0.09	-0.09	-0.09
	Fu.C.39	0.00	0.05	1.033	0.00	0.000	0.000 D	-56.12	0.08	-0.09	-0.09
	Fu.C.40	0.00	0.05	1.033	0.00	0.000	0.000 D	-56.12	0.08	-0.09	-0.09
	Fu.C.41	0.00	0.05	1.033	0.00	0.000	0.000 D	-56.12	0.08	-0.09	-0.09
S43	Fu.C.1	0.36	0.36	0.125	-0.19	0.000	0.000 T	76.13	0.02	-0.47	-0.47
	Fu.C.2	-0.08	-0.03	0.750	-0.25	0.000	0.000 D	-48.27	0.12	-0.26	-0.26
	Fu.C.3	-0.07	0.01	1.000	-0.16	0.000	0.000 D	-27.74	0.16	-0.23	-0.23
	Fu.C.4	-0.08	-0.03	0.750	-0.26	0.000	0.000 D	-46.95	0.12	-0.26	-0.26
	Fu.C.5	-0.07	0.01	1.000	-0.17	0.000	0.000 D	-26.43	0.16	-0.23	-0.23
	Fu.C.6	-0.05	-0.03	0.500	-0.44	0.000	0.000 D	-73.05	0.10	-0.40	-0.40
	Fu.C.7	-0.05	0.00	0.625	-0.35	0.000	0.000 D	-52.73	0.14	-0.38	-0.38
	Fu.C.8	-0.06	-0.03	0.500	-0.44	0.000	0.000 D	-71.72	0.10	-0.40	-0.40
	Fu.C.9	-0.05	0.00	0.625	-0.35	0.000	0.000 D	-51.41	0.14	-0.38	-0.38
	Fu.C.10	-0.05	-0.01	0.750	-0.25	0.000	0.000 D	-16.34	0.11	-0.28	-0.28
	Fu.C.11	-0.07	0.01	1.000	-0.18	0.000	0.000 D	-6.98	0.15	-0.24	-0.24
	Fu.C.12	-0.05	-0.01	0.750	-0.26	0.000	0.000 D	-15.03	0.11	-0.28	-0.28
	Fu.C.13	-0.07	0.00	1.000	-0.18	0.000	0.000 D	-5.68	0.15	-0.24	-0.24
	Fu.C.14	-0.02	0.00	0.375	-0.44	0.000	0.000 D	-40.57	0.09	-0.42	-0.42
	Fu.C.15	-0.04	0.00	0.625	-0.37	0.000	0.000 D	-31.59	0.13	-0.39	-0.39
	Fu.C.16	-0.02	0.00	0.375	-0.44	0.000	0.000 D	-39.27	0.09	-0.43	-0.43
	Fu.C.17	-0.04	0.00	0.625	-0.37	0.000	0.000 D	-30.27	0.13	-0.39	-0.39
	Fu.C.18	-0.02	0.01	0.625	-0.37	0.000	0.000 D	-25.94	0.12	-0.40	-0.40
	Fu.C.19	-0.01	0.01	0.500	-0.28	0.000	0.000 D	-19.01	0.09	-0.31	-0.31
	Fu.C.20	-0.04	0.02	0.750	-0.29	0.000	0.000 D	-16.66	0.16	-0.36	-0.36
	Fu.C.21	-0.03	0.02	0.750	-0.21	0.000	0.000 D	-9.70	0.13	-0.27	-0.27
	Fu.C.22	-0.02	0.02	0.625	-0.37	0.000	0.000 D	-28.39	0.12	-0.40	-0.40
	Fu.C.23	-0.01	0.02	0.500	-0.28	0.000	0.000 D	-21.43	0.09	-0.30	-0.30
	Fu.C.24	-0.04	0.02	0.750	-0.29	0.000	0.000 D	-19.06	0.16	-0.36	-0.36
	Fu.C.25	-0.03	0.02	0.750	-0.20	0.000	0.000 D	-12.05	0.13	-0.27	-0.27
	Fu.C.26	0.00	0.01	0.250	-0.52	0.000	0.000 D	-50.91	0.05	-0.46	-0.46
	Fu.C.27	-0.06	0.00	0.750	-0.38	0.000	0.000 D	-31.27	0.16	-0.42	-0.42
	Fu.C.28	-0.04	0.00	0.750	-0.25	0.000	0.000 D	-20.83	0.11	-0.28	-0.28
	Fu.C.29	-0.04	0.01	0.750	-0.33	0.000	0.000 D	-25.02	0.14	-0.38	-0.38
	Fu.C.30	-0.03	0.02	0.625	-0.33	0.000	0.000 D	-19.40	0.14	-0.38	-0.38

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S43	Fu.C.31	0.00	0.04	0.625	-0.32	0.000	0.000 D	-13.77	0.14	-0.39	-0.39
	Fu.C.32	-0.01	0.04	0.625	-0.31	0.000	0.000 D	-7.97	0.14	-0.38	-0.38
	Fu.C.33	0.05	0.08	0.500	-0.32	0.000	0.000 D	-2.73	0.12	-0.41	-0.41
	Fu.C.34	0.10	0.13	0.500	-0.27	0.000	0.000 T	4.68	0.11	-0.41	-0.41
	Fu.C.35	0.03	0.09	0.750	-0.24	0.000	0.000 D	-1.01	0.15	-0.37	-0.37
	Fu.C.36	-0.03	0.02	0.750	-0.32	0.000	0.000 D	-19.65	0.15	-0.38	-0.38
	Fu.C.37	-0.06	-0.02	0.625	-0.38	0.000	0.000 D	-36.23	0.14	-0.38	-0.38
	Fu.C.38	-0.11	-0.06	0.625	-0.42	0.000	0.000 D	-53.40	0.13	-0.38	-0.38
	Fu.C.39	-0.05	0.00	0.750	-0.34	0.000	0.000 D	-27.82	0.15	-0.38	-0.38
	Fu.C.40	-0.05	0.00	0.750	-0.34	0.000	0.000 D	-27.82	0.15	-0.38	-0.38
S47	Fu.C.41	-0.05	0.00	0.750	-0.34	0.000	0.000 D	-27.82	0.15	-0.38	-0.38
	Fu.C.1	-0.19			0.76	0.000	0.000 D	-54.99	0.66	0.66	0.08
	Fu.C.2	-0.25	0.17	2.250	0.17	0.000	0.000 D	-81.11	0.36	0.36	-0.04
	Fu.C.3	-0.16	0.11	1.875	0.08	0.000	0.000 D	-42.79	0.29	0.29	-0.11
	Fu.C.4	-0.26	0.17	2.250	0.16	0.000	0.000 D	-80.61	0.36	0.36	-0.04
	Fu.C.5	-0.17	0.11	1.875	0.07	0.000	0.000 D	-42.30	0.29	0.29	-0.11
	Fu.C.6	-0.44			0.41	0.000	0.000 D	-154.82	0.60	0.60	0.03
	Fu.C.7	-0.35	0.32	2.375	0.32	0.000	0.000 D	-116.75	0.53	0.53	-0.02
	Fu.C.8	-0.44			0.41	0.000	0.000 D	-154.31	0.60	0.60	0.03
	Fu.C.9	-0.35	0.32	2.375	0.32	0.000	0.000 D	-116.24	0.53	0.53	-0.02
	Fu.C.10	-0.25	0.17	2.250	0.16	0.000	0.000 D	-66.92	0.36	0.36	-0.04
	Fu.C.11	-0.18	0.08	1.875	0.05	0.000	0.000 D	-34.11	0.29	0.29	-0.11
	Fu.C.12	-0.26	0.16	2.250	0.16	0.000	0.000 D	-66.42	0.36	0.36	-0.04
	Fu.C.13	-0.18	0.08	1.875	0.04	0.000	0.000 D	-33.62	0.29	0.29	-0.11
	Fu.C.14	-0.44			0.41	0.000	0.000 D	-140.02	0.60	0.60	0.04
	Fu.C.15	-0.37	0.30	2.375	0.30	0.000	0.000 D	-107.62	0.53	0.53	-0.02
	Fu.C.16	-0.44			0.41	0.000	0.000 D	-139.53	0.60	0.60	0.04
	Fu.C.17	-0.37	0.29	2.375	0.29	0.000	0.000 D	-107.12	0.52	0.52	-0.02
	Fu.C.18	-0.37			0.32	0.000	0.000 D	-108.37	0.54	0.54	-0.01
	Fu.C.19	-0.28			0.26	0.000	0.000 D	-84.55	0.41	0.41	0.00
	Fu.C.20	-0.29	0.22	2.125	0.21	0.000	0.000 D	-75.63	0.46	0.46	-0.08
	Fu.C.21	-0.21	0.16	2.125	0.14	0.000	0.000 D	-51.76	0.34	0.34	-0.06
	Fu.C.22	-0.37			0.33	0.000	0.000 D	-109.35	0.54	0.54	-0.01
	Fu.C.23	-0.28			0.27	0.000	0.000 D	-85.50	0.42	0.42	0.00
	Fu.C.24	-0.29	0.23	2.125	0.21	0.000	0.000 D	-76.58	0.46	0.46	-0.08
	Fu.C.25	-0.20	0.16	2.125	0.15	0.000	0.000 D	-52.68	0.34	0.34	-0.06
	Fu.C.26	-0.52			0.53	0.000	0.000 D	-174.93	0.68	0.68	0.10
	Fu.C.27	-0.38	0.29	2.250	0.28	0.000	0.000 D	-106.88	0.56	0.56	-0.06
	Fu.C.28	-0.25	0.19	2.375	0.19	0.000	0.000 D	-71.23	0.37	0.37	-0.03
	Fu.C.29	-0.33	0.26	2.250	0.26	0.000	0.000 D	-93.76	0.50	0.50	-0.05
	Fu.C.30	-0.33	0.28	2.250	0.27	0.000	0.000 D	-91.05	0.50	0.50	-0.05
	Fu.C.31	-0.32	0.29	2.375	0.29	0.000	0.000 D	-88.31	0.51	0.51	-0.04
	Fu.C.32	-0.31	0.30	2.375	0.30	0.000	0.000 D	-85.61	0.51	0.51	-0.04
	Fu.C.33	-0.32	0.32	2.375	0.32	0.000	0.000 D	-82.76	0.52	0.52	-0.03
	Fu.C.34	-0.27	0.31	2.250	0.31	0.000	0.000 D	-80.45	0.50	0.50	-0.05
	Fu.C.35	-0.24	0.38	2.375	0.38	0.000	0.000 D	-76.10	0.52	0.52	-0.04
	Fu.C.36	-0.32			0.38	0.000	0.000 D	-84.33	0.55	0.55	-0.01
	Fu.C.37	-0.38	0.28	2.375	0.28	0.000	0.000 D	-105.05	0.52	0.52	-0.02
	Fu.C.38	-0.42	0.25	2.375	0.25	0.000	0.000 D	-123.81	0.52	0.52	-0.02
	Fu.C.39	-0.34	0.26	2.250	0.25	0.000	0.000 D	-95.11	0.50	0.50	-0.05
	Fu.C.40	-0.34	0.26	2.250	0.25	0.000	0.000 D	-95.11	0.50	0.50	-0.05
	Fu.C.41	-0.34	0.26	2.250	0.25	0.000	0.000 D	-95.11	0.50	0.50	-0.05
S49	Fu.C.1	0.00	0.02	1.080	0.00	0.000	0.000 T	135.64	0.04	0.04	-0.03
	Fu.C.2	0.00	0.02	1.080	0.00	0.000	0.000 T	36.64	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.02	1.080	0.00	0.000	0.000 T	17.47	0.03	-0.04	-0.04
	Fu.C.4	0.00	0.02	1.080	0.00	0.000	0.000 T	37.31	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.02	1.080	0.00	0.000	0.000 T	18.14	0.03	-0.04	-0.04
	Fu.C.6	0.00	0.02	1.080	0.00	0.000	0.000 T	86.49	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	1.080	0.00	0.000	0.000 T	67.28	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	1.080	0.00	0.000	0.000 T	87.16	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	1.080	0.00	0.000	0.000 T	67.95	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.02	1.080	0.00	0.000	0.000 T	50.79	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.02	1.080	0.00	0.000	0.000 T	27.22	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.02	1.080	0.00	0.000	0.000 T	51.46	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.02	1.080	0.00	0.000	0.000 T	27.89	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	1.080	0.00	0.000	0.000 T	100.60	0.04	-0.04	-0.04

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S49	Fu.C.15	0.00	0.02	1.080	0.00	0.000	0.000 T	76.99	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	1.080	0.00	0.000	0.000 T	101.27	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	1.080	0.00	0.000	0.000 T	77.66	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.02	1.080	0.00	0.000	0.000 T	82.63	0.04	0.04	-0.04
	Fu.C.19	0.00	0.02	1.080	0.00	0.000	0.000 T	65.48	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.080	0.00	0.000	0.000 T	59.00	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	1.080	0.00	0.000	0.000 T	41.87	0.03	0.03	-0.03
	Fu.C.22	0.00	0.02	1.080	0.00	0.000	0.000 T	81.42	0.04	0.04	-0.04
	Fu.C.23	0.00	0.02	1.080	0.00	0.000	0.000 T	64.28	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.080	0.00	0.000	0.000 T	57.81	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	1.080	0.00	0.000	0.000 T	40.69	0.03	0.03	-0.03
	Fu.C.26	0.00	0.02	1.080	0.00	0.000	0.000 T	125.36	0.03	-0.03	-0.03
	Fu.C.27	0.00	0.02	1.080	0.00	0.000	0.000 T	76.58	0.04	-0.04	-0.04
	Fu.C.28	0.00	0.02	1.080	0.00	0.000	0.000 T	51.01	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	1.080	0.00	0.000	0.000 T	69.26	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	1.080	0.00	0.000	0.000 T	71.53	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	1.080	0.00	0.000	0.000 T	73.81	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	1.080	0.00	0.000	0.000 T	76.08	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.080	0.00	0.000	0.000 T	78.50	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	1.080	0.00	0.000	0.000 T	80.39	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	1.080	0.00	0.000	0.000 T	84.41	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	1.080	0.00	0.000	0.000 T	76.06	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	1.080	0.00	0.000	0.000 T	67.55	0.04	-0.04	-0.04
	Fu.C.38	0.00	0.02	1.080	0.00	0.000	0.000 T	71.21	0.04	-0.04	-0.04
	Fu.C.39	0.00	0.02	1.080	0.00	0.000	0.000 T	68.13	0.04	-0.04	-0.04
	Fu.C.40	0.00	0.02	1.080	0.00	0.000	0.000 T	68.13	0.04	-0.04	-0.04
	Fu.C.41	0.00	0.02	1.080	0.00	0.000	0.000 T	68.13	0.04	-0.04	-0.04
S52	Fu.C.1	0.00	0.04	1.080	0.00	0.000	0.000 T	115.40	0.08	0.08	-0.08
	Fu.C.2	0.00	0.03	1.080	0.00	0.000	0.000 T	62.16	0.06	-0.06	-0.06
	Fu.C.3	0.00	0.03	1.080	0.00	0.000	0.000 T	31.86	0.06	-0.07	-0.07
	Fu.C.4	0.00	0.03	1.080	0.00	0.000	0.000 T	62.29	0.06	-0.06	-0.06
	Fu.C.5	0.00	0.03	1.080	0.00	0.000	0.000 T	32.00	0.06	-0.07	-0.07
	Fu.C.6	0.00	0.04	1.080	0.00	0.000	0.000 T	128.13	0.08	-0.08	-0.08
	Fu.C.7	0.00	0.04	1.080	0.00	0.000	0.000 T	97.94	0.08	-0.08	-0.08
	Fu.C.8	0.00	0.04	1.080	0.00	0.000	0.000 T	128.26	0.08	-0.08	-0.08
	Fu.C.9	0.00	0.04	1.080	0.00	0.000	0.000 T	98.07	0.08	-0.08	-0.08
	Fu.C.10	0.00	0.03	1.080	0.00	0.000	0.000 T	63.26	0.06	-0.06	-0.06
	Fu.C.11	0.00	0.03	1.080	0.00	0.000	0.000 T	33.13	0.06	-0.06	-0.06
	Fu.C.12	0.00	0.03	1.080	0.00	0.000	0.000 T	63.39	0.06	-0.06	-0.06
	Fu.C.13	0.00	0.03	1.080	0.00	0.000	0.000 T	33.27	0.06	-0.06	-0.06
	Fu.C.14	0.00	0.04	1.080	0.00	0.000	0.000 T	128.95	0.08	-0.08	-0.08
	Fu.C.15	0.00	0.04	1.080	0.00	0.000	0.000 T	98.98	0.08	-0.08	-0.08
	Fu.C.16	0.00	0.04	1.080	0.00	0.000	0.000 T	129.09	0.08	-0.08	-0.08
	Fu.C.17	0.00	0.04	1.080	0.00	0.000	0.000 T	99.11	0.08	-0.08	-0.08
	Fu.C.18	0.00	0.04	1.080	0.00	0.000	0.000 T	102.64	0.08	-0.08	-0.08
	Fu.C.19	0.00	0.03	1.080	0.00	0.000	0.000 T	80.66	0.06	-0.06	-0.06
	Fu.C.20	0.00	0.04	1.080	0.00	0.000	0.000 T	72.50	0.08	-0.08	-0.08
	Fu.C.21	0.00	0.03	1.080	0.00	0.000	0.000 T	50.51	0.06	-0.06	-0.06
	Fu.C.22	0.00	0.04	1.080	0.00	0.000	0.000 T	102.44	0.08	-0.08	-0.08
	Fu.C.23	0.00	0.03	1.080	0.00	0.000	0.000 T	80.45	0.06	-0.06	-0.06
	Fu.C.24	0.00	0.04	1.080	0.00	0.000	0.000 T	72.29	0.08	-0.08	-0.08
	Fu.C.25	0.00	0.03	1.080	0.00	0.000	0.000 T	50.30	0.06	-0.06	-0.06
	Fu.C.26	0.00	0.04	1.080	0.00	0.000	0.000 T	160.77	0.08	-0.08	-0.08
	Fu.C.27	0.00	0.05	1.080	0.00	0.000	0.000 T	98.40	0.09	-0.09	-0.09
	Fu.C.28	0.00	0.03	1.080	0.00	0.000	0.000 T	65.56	0.06	-0.06	-0.06
	Fu.C.29	0.00	0.04	1.080	0.00	0.000	0.000 T	87.55	0.08	-0.08	-0.08
	Fu.C.30	0.00	0.04	1.080	0.00	0.000	0.000 T	87.52	0.08	-0.08	-0.08
	Fu.C.31	0.00	0.04	1.080	0.00	0.000	0.000 T	87.50	0.08	-0.08	-0.08
	Fu.C.32	0.00	0.04	1.080	0.00	0.000	0.000 T	87.47	0.08	-0.08	-0.08
	Fu.C.33	0.00	0.04	1.080	0.00	0.000	0.000 T	87.48	0.08	-0.08	-0.08
	Fu.C.34	0.00	0.04	1.080	0.00	0.000	0.000 T	87.34	0.08	-0.08	-0.08
	Fu.C.35	0.00	0.04	1.080	0.00	0.000	0.000 T	87.76	0.08	-0.08	-0.08
	Fu.C.36	0.00	0.04	1.080	0.00	0.000	0.000 T	86.04	0.08	-0.08	-0.08
	Fu.C.37	0.00	0.04	1.080	0.00	0.000	0.000 T	96.60	0.08	-0.08	-0.08
	Fu.C.38	0.00	0.04	1.080	0.00	0.000	0.000 T	108.16	0.08	-0.08	-0.08
	Fu.C.39	0.00	0.04	1.080	0.00	0.000	0.000 T	87.56	0.08	-0.08	-0.08

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S52	Fu.C.40	0.00	0.04	1.080	0.00	0.000	0.000 T	87.56	0.08	-0.08	-0.08
	Fu.C.41	0.00	0.04	1.080	0.00	0.000	0.000 T	87.56	0.08	-0.08	-0.08
S55	Fu.C.1	0.00	0.05	1.103	0.00	0.000	0.000 D	-113.90	0.10	-0.10	-0.10
	Fu.C.2	0.00	0.04	1.103	0.00	0.000	0.000 D	-61.02	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.103	0.00	0.000	0.000 D	-30.97	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.103	0.00	0.000	0.000 D	-61.14	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.103	0.00	0.000	0.000 D	-31.10	0.07	0.07	-0.07
	Fu.C.6	0.00	0.06	1.103	0.00	0.000	0.000 D	-126.16	0.10	0.10	-0.10
	Fu.C.7	0.00	0.05	1.103	0.00	0.000	0.000 D	-96.28	0.10	0.10	-0.09
	Fu.C.8	0.00	0.06	1.103	0.00	0.000	0.000 D	-126.28	0.10	0.10	-0.10
	Fu.C.9	0.00	0.05	1.103	0.00	0.000	0.000 D	-96.41	0.10	0.10	-0.09
	Fu.C.10	0.00	0.04	1.103	0.00	0.000	0.000 D	-62.11	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.103	0.00	0.000	0.000 D	-32.21	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.103	0.00	0.000	0.000 D	-62.24	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.103	0.00	0.000	0.000 D	-32.34	0.07	0.07	-0.07
	Fu.C.14	0.00	0.06	1.103	0.00	0.000	0.000 D	-126.99	0.10	0.10	-0.10
	Fu.C.15	0.00	0.05	1.103	0.00	0.000	0.000 D	-97.31	0.10	0.10	-0.09
	Fu.C.16	0.00	0.06	1.103	0.00	0.000	0.000 D	-127.12	0.10	0.10	-0.10
	Fu.C.17	0.00	0.05	1.103	0.00	0.000	0.000 D	-97.43	0.10	0.10	-0.09
	Fu.C.18	0.00	0.05	1.103	0.00	0.000	0.000 D	-100.94	0.10	0.10	-0.09
	Fu.C.19	0.00	0.04	1.103	0.00	0.000	0.000 D	-79.39	0.07	0.07	-0.07
	Fu.C.20	0.00	0.05	1.103	0.00	0.000	0.000 D	-71.07	0.10	0.10	-0.09
	Fu.C.21	0.00	0.04	1.103	0.00	0.000	0.000 D	-49.48	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.103	0.00	0.000	0.000 D	-100.74	0.10	0.10	-0.09
	Fu.C.23	0.00	0.04	1.103	0.00	0.000	0.000 D	-79.19	0.07	0.07	-0.07
	Fu.C.24	0.00	0.05	1.103	0.00	0.000	0.000 D	-70.86	0.10	0.10	-0.09
	Fu.C.25	0.00	0.04	1.103	0.00	0.000	0.000 D	-49.27	0.07	0.07	-0.07
	Fu.C.26	0.00	0.06	1.103	0.00	0.000	0.000 D	-158.46	0.11	0.11	-0.10
	Fu.C.27	0.00	0.06	1.103	0.00	0.000	0.000 D	-96.61	0.11	0.11	-0.11
	Fu.C.28	0.00	0.04	1.103	0.00	0.000	0.000 D	-64.41	0.07	0.07	-0.07
	Fu.C.29	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.98	0.10	0.10	-0.09
	Fu.C.30	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.96	0.10	0.10	-0.09
	Fu.C.31	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.95	0.10	0.10	-0.09
	Fu.C.32	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.93	0.10	0.10	-0.09
	Fu.C.33	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.95	0.10	0.10	-0.09
	Fu.C.34	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.83	0.10	0.10	-0.09
	Fu.C.35	0.00	0.05	1.103	0.00	0.000	0.000 D	-86.25	0.10	0.10	-0.09
	Fu.C.36	0.00	0.05	1.103	0.00	0.000	0.000 D	-84.57	0.10	0.10	-0.09
	Fu.C.37	0.00	0.05	1.103	0.00	0.000	0.000 D	-95.00	0.10	0.10	-0.09
	Fu.C.38	0.00	0.05	1.103	0.00	0.000	0.000 D	-106.35	0.10	0.10	-0.09
	Fu.C.39	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.98	0.10	0.10	-0.09
	Fu.C.40	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.98	0.10	0.10	-0.09
	Fu.C.41	0.00	0.05	1.103	0.00	0.000	0.000 D	-85.98	0.10	0.10	-0.09
S56	Fu.C.1	-9.22	1.13	1.375	-7.07	0.000	0.000 T	147.20	14.36	14.36	-12.57
	Fu.C.2	-3.01	0.12	1.375	-1.99	0.000	0.000 T	56.06	4.59	4.59	-3.76
	Fu.C.3	-1.44	0.07	1.375	-0.91	0.000	0.000 T	13.17	2.19	2.19	-1.77
	Fu.C.4	-3.03	0.11	1.375	-1.99	0.000	0.000 T	61.09	4.60	4.60	-3.76
	Fu.C.5	-1.45	0.06	1.375	-0.92	0.000	0.000 T	18.21	2.19	2.19	-1.76
	Fu.C.6	-6.51	0.23	1.375	-4.23	0.000	0.000 T	134.05	9.88	9.88	-7.99
	Fu.C.7	-4.92	0.17	1.375	-3.16	0.000	0.000 T	91.37	7.41	7.41	-5.97
	Fu.C.8	-6.53	0.21	1.375	-4.24	0.000	0.000 T	139.09	9.89	9.89	-7.99
	Fu.C.9	-4.94	0.16	1.375	-3.16	0.000	0.000 T	96.40	7.42	7.42	-5.97
	Fu.C.10	-3.30	-0.02	1.375	-2.03	0.000	0.000 T	104.29	4.72	4.72	-3.69
	Fu.C.11	-1.66	-0.06	1.375	-0.98	0.000	0.000 T	62.09	2.27	2.27	-1.72
	Fu.C.12	-3.32	-0.03	1.375	-2.04	0.000	0.000 T	109.33	4.73	4.73	-3.69
	Fu.C.13	-1.68	-0.07	1.375	-0.99	0.000	0.000 T	67.13	2.28	2.28	-1.72
	Fu.C.14	-6.81	0.10	1.375	-4.27	0.000	0.000 T	181.87	10.06	10.06	-7.94
	Fu.C.15	-5.15	0.05	1.375	-3.21	0.000	0.000 T	139.99	7.55	7.55	-5.94
	Fu.C.16	-6.83	0.09	1.375	-4.28	0.000	0.000 T	186.93	10.08	10.08	-7.94
	Fu.C.17	-5.17	0.04	1.375	-3.22	0.000	0.000 T	145.04	7.56	7.56	-5.94
	Fu.C.18	-5.39	0.04	1.375	-3.33	0.000	0.000 T	147.28	7.87	7.87	-6.16
	Fu.C.19	-4.24	0.03	1.375	-2.63	0.000	0.000 T	116.12	6.17	6.17	-4.85
	Fu.C.20	-3.74	0.00	1.375	-2.28	0.000	0.000 T	105.07	5.37	5.37	-4.17
	Fu.C.21	-2.60	-0.01	1.375	-1.57	0.000	0.000 T	73.89	3.70	3.70	-2.87
	Fu.C.22	-5.35	0.06	1.375	-3.32	0.000	0.000 T	139.17	7.84	7.84	-6.17
	Fu.C.23	-4.21	0.05	1.375	-2.62	0.000	0.000 T	108.05	6.15	6.15	-4.85

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S56	Fu.C.24	-3.71	0.02	1.375	-2.27	0.000	0.000 T	97.00	5.36	5.36	-4.18
	Fu.C.25	-2.57	0.01	1.375	-1.56	0.000	0.000 T	65.85	3.69	3.69	-2.87
	Fu.C.26	-8.55	0.14	1.375	-5.36	0.000	0.000 T	228.71	12.72	12.72	-10.03
	Fu.C.27	-5.09	0.04	1.375	-3.16	0.000	0.000 T	139.42	7.43	7.43	-5.83
	Fu.C.28	-3.38	0.02	1.375	-2.11	0.000	0.000 T	92.92	4.91	4.91	-3.87
	Fu.C.29	-4.54	0.03	1.375	-2.81	0.000	0.000 T	124.02	6.60	6.60	-5.18
	Fu.C.30	-4.57	0.02	1.375	-2.80	0.000	0.000 T	123.93	6.62	6.62	-5.16
	Fu.C.31	-4.59	0.01	1.375	-2.79	0.000	0.000 T	123.88	6.63	6.63	-5.15
	Fu.C.32	-4.63	0.00	1.375	-2.78	0.000	0.000 T	123.86	6.65	6.65	-5.13
	Fu.C.33	-4.61	0.01	1.375	-2.79	0.000	0.000 T	123.89	6.64	6.64	-5.14
	Fu.C.34	-4.82	-0.06	1.375	-2.74	0.000	0.000 T	123.88	6.76	6.76	-5.04
	Fu.C.35	-4.14	0.15	1.375	-2.90	0.000	0.000 T	124.09	6.39	6.39	-5.37
	Fu.C.36	-6.93	-0.52	1.625	-2.24	0.000	0.000 T	123.53	7.90	7.90	-4.03
	Fu.C.37	-7.00	3.24	1.375	-4.83	0.000	0.000 T	128.29	14.14	14.14	-12.36
	Fu.C.38	-4.12	-1.12	1.125	-5.67	0.000	0.000 T	144.52	5.38	-6.67	-6.67
	Fu.C.39	-4.53	0.03	1.375	-2.81	0.000	0.000 T	124.07	6.60	6.60	-5.18
	Fu.C.40	-4.53	0.03	1.375	-2.81	0.000	0.000 T	124.07	6.60	6.60	-5.18
	Fu.C.41	-4.53	0.03	1.375	-2.81	0.000	0.000 T	124.07	6.60	6.60	-5.18
S58	Fu.C.1	0.00	0.05	1.104	0.00	0.000	0.000 T	76.02	0.08	0.08	-0.08
	Fu.C.2	0.00	0.03	1.104	0.00	0.000	0.000 T	48.55	0.06	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.104	0.00	0.000	0.000 T	24.86	0.06	-0.07	-0.07
	Fu.C.4	0.00	0.03	1.104	0.00	0.000	0.000 T	48.67	0.06	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.104	0.00	0.000	0.000 T	24.99	0.06	-0.07	-0.07
	Fu.C.6	0.00	0.04	1.104	0.00	0.000	0.000 T	100.10	0.08	-0.08	-0.08
	Fu.C.7	0.00	0.05	1.104	0.00	0.000	0.000 T	76.56	0.08	-0.08	-0.08
	Fu.C.8	0.00	0.04	1.104	0.00	0.000	0.000 T	100.22	0.08	-0.08	-0.08
	Fu.C.9	0.00	0.04	1.104	0.00	0.000	0.000 T	76.68	0.08	-0.08	-0.08
	Fu.C.10	0.00	0.03	1.104	0.00	0.000	0.000 T	49.69	0.06	-0.06	-0.06
	Fu.C.11	0.00	0.04	1.104	0.00	0.000	0.000 T	26.10	0.06	-0.07	-0.07
	Fu.C.12	0.00	0.03	1.104	0.00	0.000	0.000 T	49.81	0.06	-0.06	-0.06
	Fu.C.13	0.00	0.04	1.104	0.00	0.000	0.000 T	26.23	0.06	-0.07	-0.07
	Fu.C.14	0.00	0.04	1.104	0.00	0.000	0.000 T	100.97	0.08	-0.08	-0.08
	Fu.C.15	0.00	0.04	1.104	0.00	0.000	0.000 T	77.59	0.08	-0.08	-0.08
	Fu.C.16	0.00	0.04	1.104	0.00	0.000	0.000 T	101.10	0.08	-0.08	-0.08
	Fu.C.17	0.00	0.04	1.104	0.00	0.000	0.000 T	77.71	0.08	-0.08	-0.08
	Fu.C.18	0.00	0.04	1.104	0.00	0.000	0.000 T	80.50	0.08	-0.08	-0.08
	Fu.C.19	0.00	0.03	1.104	0.00	0.000	0.000 T	63.28	0.06	-0.06	-0.06
	Fu.C.20	0.00	0.05	1.104	0.00	0.000	0.000 T	56.93	0.08	-0.09	-0.09
	Fu.C.21	0.00	0.04	1.104	0.00	0.000	0.000 T	39.69	0.06	-0.06	-0.06
	Fu.C.22	0.00	0.04	1.104	0.00	0.000	0.000 T	80.30	0.08	-0.08	-0.08
	Fu.C.23	0.00	0.03	1.104	0.00	0.000	0.000 T	63.08	0.06	-0.06	-0.06
	Fu.C.24	0.00	0.05	1.104	0.00	0.000	0.000 T	56.73	0.08	-0.09	-0.09
	Fu.C.25	0.00	0.04	1.104	0.00	0.000	0.000 T	39.48	0.06	-0.06	-0.06
	Fu.C.26	0.00	0.04	1.104	0.00	0.000	0.000 T	125.91	0.08	-0.08	-0.08
	Fu.C.27	0.00	0.05	1.104	0.00	0.000	0.000 T	77.16	0.09	-0.09	-0.09
	Fu.C.28	0.00	0.03	1.104	0.00	0.000	0.000 T	51.44	0.06	-0.06	-0.06
	Fu.C.29	0.00	0.05	1.104	0.00	0.000	0.000 T	68.68	0.08	-0.08	-0.08
	Fu.C.30	0.00	0.05	1.104	0.00	0.000	0.000 T	68.68	0.08	-0.08	-0.08
	Fu.C.31	0.00	0.05	1.104	0.00	0.000	0.000 T	68.69	0.08	-0.08	-0.08
	Fu.C.32	0.00	0.05	1.104	0.00	0.000	0.000 T	68.70	0.08	-0.08	-0.08
	Fu.C.33	0.00	0.05	1.104	0.00	0.000	0.000 T	68.70	0.08	-0.08	-0.08
	Fu.C.34	0.00	0.05	1.104	0.00	0.000	0.000 T	68.73	0.08	-0.08	-0.08
	Fu.C.35	0.00	0.05	1.104	0.00	0.000	0.000 T	68.66	0.08	-0.08	-0.08
	Fu.C.36	0.00	0.05	1.104	0.00	0.000	0.000 T	68.99	0.08	-0.08	-0.08
	Fu.C.37	0.00	0.05	1.104	0.00	0.000	0.000 T	67.71	0.08	-0.09	-0.09
	Fu.C.38	0.00	0.04	1.104	0.00	0.000	0.000 T	76.55	0.08	-0.09	-0.09
	Fu.C.39	0.00	0.05	1.104	0.00	0.000	0.000 T	68.67	0.08	-0.09	-0.09
	Fu.C.40	0.00	0.05	1.104	0.00	0.000	0.000 T	68.67	0.08	-0.09	-0.09
	Fu.C.41	0.00	0.05	1.104	0.00	0.000	0.000 T	68.67	0.08	-0.09	-0.09
S59	Fu.C.1	0.53			-0.38	0.000	0.000 D	-83.74	-0.07	-0.64	-0.64
	Fu.C.2	0.14	0.16	0.500	-0.16	0.000	0.000 D	-53.53	0.09	-0.32	-0.32
	Fu.C.3	0.06	0.12	0.875	-0.09	0.000	0.000 D	-27.19	0.14	-0.26	-0.26
	Fu.C.4	0.13	0.15	0.500	-0.17	0.000	0.000 D	-53.66	0.09	-0.32	-0.32
	Fu.C.5	0.05	0.11	0.875	-0.10	0.000	0.000 D	-27.33	0.14	-0.26	-0.26
	Fu.C.6	0.33	0.33	0.125	-0.32	0.000	0.000 D	-110.69	0.03	-0.53	-0.53
	Fu.C.7	0.25	0.27	0.375	-0.25	0.000	0.000 D	-84.51	0.08	-0.47	-0.47

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S59	Fu.C.8	0.33	0.33	0.125	-0.33	0.000	0.000 D	-110.82	0.03	-0.53	-0.53
	Fu.C.9	0.25	0.26	0.375	-0.26	0.000	0.000 D	-84.64	0.08	-0.47	-0.47
	Fu.C.10	0.11	0.12	0.375	-0.25	0.000	0.000 D	-54.74	0.06	-0.34	-0.34
	Fu.C.11	0.02	0.06	0.750	-0.17	0.000	0.000 D	-28.51	0.12	-0.27	-0.27
	Fu.C.12	0.10	0.12	0.375	-0.25	0.000	0.000 D	-54.88	0.06	-0.34	-0.34
	Fu.C.13	0.01	0.06	0.750	-0.18	0.000	0.000 D	-28.65	0.12	-0.27	-0.27
	Fu.C.14	0.31			-0.41	0.000	0.000 D	-111.61	0.00	-0.54	-0.54
	Fu.C.15	0.22	0.22	0.250	-0.33	0.000	0.000 D	-85.61	0.06	-0.48	-0.48
	Fu.C.16	0.30			-0.41	0.000	0.000 D	-111.75	0.00	-0.54	-0.54
	Fu.C.17	0.21	0.22	0.250	-0.34	0.000	0.000 D	-85.74	0.06	-0.48	-0.48
	Fu.C.18	0.23	0.24	0.250	-0.35	0.000	0.000 D	-88.85	0.05	-0.49	-0.49
	Fu.C.19	0.19	0.19	0.125	-0.27	0.000	0.000 D	-69.87	0.03	-0.38	-0.38
	Fu.C.20	0.14	0.16	0.500	-0.27	0.000	0.000 D	-62.64	0.11	-0.43	-0.43
	Fu.C.21	0.09	0.12	0.500	-0.20	0.000	0.000 D	-43.63	0.09	-0.31	-0.31
	Fu.C.22	0.24	0.25	0.250	-0.33	0.000	0.000 D	-88.63	0.05	-0.49	-0.49
	Fu.C.23	0.20	0.20	0.125	-0.26	0.000	0.000 D	-69.65	0.03	-0.38	-0.38
	Fu.C.24	0.15	0.17	0.500	-0.26	0.000	0.000 D	-62.42	0.11	-0.42	-0.42
	Fu.C.25	0.10	0.12	0.500	-0.18	0.000	0.000 D	-43.41	0.09	-0.31	-0.31
	Fu.C.26	0.40			-0.49	0.000	0.000 D	-139.34	-0.05	-0.61	-0.61
	Fu.C.27	0.20	0.22	0.375	-0.34	0.000	0.000 D	-85.06	0.10	-0.51	-0.51
	Fu.C.28	0.13	0.15	0.375	-0.23	0.000	0.000 D	-56.70	0.06	-0.34	-0.34
	Fu.C.29	0.18	0.20	0.375	-0.31	0.000	0.000 D	-75.70	0.08	-0.46	-0.46
	Fu.C.30	0.19	0.20	0.375	-0.31	0.000	0.000 D	-75.71	0.08	-0.46	-0.46
	Fu.C.31	0.20	0.21	0.375	-0.31	0.000	0.000 D	-75.71	0.07	-0.46	-0.46
	Fu.C.32	0.21	0.22	0.250	-0.31	0.000	0.000 D	-75.71	0.07	-0.47	-0.47
	Fu.C.33	0.21	0.22	0.250	-0.32	0.000	0.000 D	-75.71	0.07	-0.47	-0.47
	Fu.C.34	0.22	0.23	0.250	-0.32	0.000	0.000 D	-75.74	0.06	-0.48	-0.48
	Fu.C.35	0.23	0.24	0.250	-0.32	0.000	0.000 D	-75.66	0.06	-0.48	-0.48
	Fu.C.36	0.23	0.24	0.250	-0.33	0.000	0.000 D	-76.02	0.05	-0.48	-0.48
	Fu.C.37	0.25	0.26	0.250	-0.30	0.000	0.000 D	-74.61	0.06	-0.48	-0.48
	Fu.C.38	0.22	0.23	0.250	-0.30	0.000	0.000 D	-84.48	0.07	-0.47	-0.47
	Fu.C.39	0.18	0.19	0.375	-0.31	0.000	0.000 D	-75.70	0.08	-0.45	-0.45
	Fu.C.40	0.18	0.19	0.375	-0.31	0.000	0.000 D	-75.70	0.08	-0.45	-0.45
	Fu.C.41	0.18	0.19	0.375	-0.31	0.000	0.000 D	-75.70	0.08	-0.45	-0.45
S63	Fu.C.1	0.00	0.00	0.938	0.00	0.000	0.000 T	0.63	0.00	0.00	0.00
	Fu.C.2	0.00	0.00	0.938	0.00	0.000	0.000 T	0.57	0.00	0.00	0.00
	Fu.C.3	0.00	0.00	0.938	0.00	0.000	0.000 T	0.63	0.00	0.00	0.00
	Fu.C.4	0.00	0.00	0.938	0.00	0.000	0.000 T	0.56	0.00	0.00	0.00
	Fu.C.5	0.00	0.00	0.938	0.00	0.000	0.000 T	0.62	0.00	0.00	0.00
	Fu.C.6	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00
	Fu.C.7	0.00	0.00	0.938	0.00	0.000	0.000 T	0.73	0.00	0.00	0.00
	Fu.C.8	0.00	0.00	0.938	0.00	0.000	0.000 T	0.67	0.00	0.00	0.00
	Fu.C.9	0.00	0.00	0.938	0.00	0.000	0.000 T	0.72	0.00	0.00	0.00
	Fu.C.10	0.00	0.00	0.938	0.00	0.000	0.000 T	0.50	0.00	0.00	0.00
	Fu.C.11	0.00	0.00	0.938	0.00	0.000	0.000 T	0.56	0.00	0.00	0.00
	Fu.C.12	0.00	0.00	0.938	0.00	0.000	0.000 T	0.50	0.00	0.00	0.00
	Fu.C.13	0.00	0.00	0.938	0.00	0.000	0.000 T	0.55	0.00	0.00	0.00
	Fu.C.14	0.00	0.00	0.938	0.00	0.000	0.000 T	0.61	0.00	0.00	0.00
	Fu.C.15	0.00	0.00	0.938	0.00	0.000	0.000 T	0.67	0.00	0.00	0.00
	Fu.C.16	0.00	0.00	0.938	0.00	0.000	0.000 T	0.60	0.00	0.00	0.00
	Fu.C.17	0.00	0.00	0.938	0.00	0.000	0.000 T	0.66	0.00	0.00	0.00
	Fu.C.18	0.00	0.00	0.938	0.00	0.000	0.000 T	0.65	0.00	0.00	0.00
	Fu.C.19	0.00	0.00	0.938	0.00	0.000	0.000 T	0.48	0.00	0.00	0.00
	Fu.C.20	0.00	0.00	0.938	0.00	0.000	0.000 T	0.71	0.00	0.00	0.00
	Fu.C.21	0.00	0.00	0.938	0.00	0.000	0.000 T	0.54	0.00	0.00	0.00
	Fu.C.22	0.00	0.00	0.938	0.00	0.000	0.000 T	0.67	0.00	0.00	0.00
	Fu.C.23	0.00	0.00	0.938	0.00	0.000	0.000 T	0.49	0.00	0.00	0.00
	Fu.C.24	0.00	0.00	0.938	0.00	0.000	0.000 T	0.72	0.00	0.00	0.00
	Fu.C.25	0.00	0.00	0.938	0.00	0.000	0.000 T	0.55	0.00	0.00	0.00
	Fu.C.26	0.00	0.00	0.938	0.00	0.000	0.000 T	0.54	0.00	0.00	0.00
	Fu.C.27	0.00	0.00	0.938	0.00	0.000	0.000 T	0.77	0.00	0.00	0.00
	Fu.C.28	0.00	0.00	0.938	0.00	0.000	0.000 T	0.52	0.00	0.00	0.00
	Fu.C.29	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.30	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.31	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00
	Fu.C.32	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S63	Fu.C.33	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00
	Fu.C.34	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00
	Fu.C.35	0.00	0.00	0.938	0.00	0.000	0.000 T	0.68	0.00	0.00	0.00
	Fu.C.36	0.00	0.00	0.938	0.00	0.000	0.000 T	0.67	0.00	0.00	0.00
	Fu.C.37	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.38	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.39	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.40	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
S65	Fu.C.41	0.00	0.00	0.938	0.00	0.000	0.000 T	0.69	0.00	0.00	0.00
	Fu.C.1	-7.07	5.98	1.502	0.00	0.000	0.000 T	39.82	16.07	16.07	-10.37
	Fu.C.2	-1.99	1.70	1.502	0.00	0.000	0.000 D	-6.08	4.95	4.95	-3.36
	Fu.C.3	-0.91	0.83	1.502	0.00	0.000	0.000 D	-18.44	2.35	2.35	-1.62
	Fu.C.4	-1.99	1.70	1.502	0.00	0.000	0.000 D	-1.19	4.95	4.95	-3.36
	Fu.C.5	-0.92	0.82	1.502	0.00	0.000	0.000 D	-13.54	2.35	2.35	-1.62
	Fu.C.6	-4.23	3.59	1.502	0.00	0.000	0.000 T	5.77	10.49	10.49	-7.10
	Fu.C.7	-3.16	2.73	1.502	0.00	0.000	0.000 D	-6.67	7.90	7.90	-5.38
	Fu.C.8	-4.24	3.58	1.502	0.00	0.000	0.000 T	10.67	10.49	10.49	-7.09
	Fu.C.9	-3.16	2.72	1.502	0.00	0.000	0.000 D	-1.78	7.90	7.90	-5.37
	Fu.C.10	-2.03	1.66	1.502	0.00	0.000	0.000 T	41.21	4.95	4.95	-3.31
	Fu.C.11	-0.98	0.79	1.502	0.00	0.000	0.000 T	29.41	2.36	2.36	-1.58
	Fu.C.12	-2.04	1.65	1.502	0.00	0.000	0.000 T	46.10	4.95	4.95	-3.30
	Fu.C.13	-0.99	0.79	1.502	0.00	0.000	0.000 T	34.30	2.36	2.36	-1.57
	Fu.C.14	-4.27	3.52	1.502	0.00	0.000	0.000 T	52.89	10.47	10.47	-7.01
	Fu.C.15	-3.21	2.66	1.502	0.00	0.000	0.000 T	41.17	7.89	7.89	-5.30
	Fu.C.16	-4.28	3.51	1.502	0.00	0.000	0.000 T	57.80	10.47	10.47	-7.00
	Fu.C.17	-3.22	2.66	1.502	0.00	0.000	0.000 T	46.07	7.89	7.89	-5.29
	Fu.C.18	-3.33	2.76	1.502	0.00	0.000	0.000 T	44.60	8.19	8.19	-5.50
	Fu.C.19	-2.63	2.19	1.502	0.00	0.000	0.000 T	35.37	6.46	6.46	-4.34
	Fu.C.20	-2.28	1.90	1.502	0.00	0.000	0.000 T	32.77	5.61	5.61	-3.77
	Fu.C.21	-1.57	1.32	1.502	0.00	0.000	0.000 T	23.54	3.88	3.88	-2.61
	Fu.C.22	-3.32	2.78	1.502	0.00	0.000	0.000 T	36.72	8.19	8.19	-5.51
	Fu.C.23	-2.62	2.20	1.502	0.00	0.000	0.000 T	27.52	6.46	6.46	-4.36
	Fu.C.24	-2.27	1.91	1.502	0.00	0.000	0.000 T	24.93	5.61	5.61	-3.79
	Fu.C.25	-1.56	1.33	1.502	0.00	0.000	0.000 T	15.73	3.88	3.88	-2.62
	Fu.C.26	-5.36	4.40	1.502	0.00	0.000	0.000 T	67.78	13.13	13.13	-8.77
	Fu.C.27	-3.16	2.62	1.502	0.00	0.000	0.000 T	41.16	7.75	7.75	-5.21
	Fu.C.28	-2.11	1.75	1.502	0.00	0.000	0.000 T	27.41	5.17	5.17	-3.48
	Fu.C.29	-2.81	2.33	1.502	0.00	0.000	0.000 T	36.57	6.90	6.90	-4.64
	Fu.C.30	-2.80	2.34	1.502	0.00	0.000	0.000 T	36.48	6.90	6.90	-4.64
	Fu.C.31	-2.79	2.34	1.502	0.00	0.000	0.000 T	36.44	6.90	6.90	-4.64
	Fu.C.32	-2.78	2.34	1.502	0.00	0.000	0.000 T	36.43	6.89	6.89	-4.65
	Fu.C.33	-2.79	2.34	1.502	0.00	0.000	0.000 T	36.44	6.89	6.89	-4.65
	Fu.C.34	-2.74	2.36	1.502	0.00	0.000	0.000 T	36.49	6.87	6.87	-4.66
	Fu.C.35	-2.90	2.30	1.502	0.00	0.000	0.000 T	36.49	6.94	6.94	-4.60
	Fu.C.36	-2.24	2.56	1.502	0.00	0.000	0.000 T	36.73	6.67	6.67	-4.86
	Fu.C.37	-4.83	1.60	1.627	0.00	0.000	0.000 T	36.08	7.74	7.74	-3.85
	Fu.C.38	-5.67	6.53	1.502	0.00	0.000	0.000 T	41.18	15.48	15.48	-10.91
	Fu.C.39	-2.81	2.33	1.502	0.00	0.000	0.000 T	36.62	6.90	6.90	-4.64
	Fu.C.40	-2.81	2.33	1.502	0.00	0.000	0.000 T	36.62	6.90	6.90	-4.64
	Fu.C.41	-2.81	2.33	1.502	0.00	0.000	0.000 T	36.62	6.90	6.90	-4.64
S67	Fu.C.1	-0.38			0.00	0.000	0.000 D	0.00	0.44	0.44	0.18
	Fu.C.2	-0.16			0.00	0.000	0.000 T	0.00	0.23	0.23	0.03
	Fu.C.3	-0.09	0.00	1.063	0.00	0.000	0.000 T	0.00	0.17	0.17	-0.03
	Fu.C.4	-0.17			0.00	0.000	0.000 T	0.00	0.23	0.23	0.04
	Fu.C.5	-0.10	0.00	1.125	0.00	0.000	0.000 T	0.00	0.18	0.18	-0.02
	Fu.C.6	-0.32			0.00	0.000	0.000 T	0.00	0.39	0.39	0.13
	Fu.C.7	-0.25			0.00	0.000	0.000 T	0.00	0.33	0.33	0.07
	Fu.C.8	-0.33			0.00	0.000	0.000 T	0.00	0.40	0.40	0.13
	Fu.C.9	-0.26			0.00	0.000	0.000 T	0.00	0.34	0.34	0.08
	Fu.C.10	-0.25			0.00	0.000	0.000 T	0.00	0.30	0.30	0.10
	Fu.C.11	-0.17			0.00	0.000	0.000 T	0.00	0.24	0.24	0.04
	Fu.C.12	-0.25			0.00	0.000	0.000 T	0.00	0.30	0.30	0.10
	Fu.C.13	-0.18			0.00	0.000	0.000 T	0.00	0.24	0.24	0.05
	Fu.C.14	-0.41			0.00	0.000	0.000 T	0.00	0.46	0.46	0.19
	Fu.C.15	-0.33			0.00	0.000	0.000 T	0.00	0.40	0.40	0.13
	Fu.C.16	-0.41			0.00	0.000	0.000 T	0.00	0.46	0.46	0.20

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S67	Fu.C.17	-0.34			0.00	0.000	0.000 T	0.00	0.40	0.40	0.14
	Fu.C.18	-0.35			0.00	0.000	0.000 T	0.00	0.41	0.41	0.15
	Fu.C.19	-0.27			0.00	0.000	0.000 T	0.00	0.32	0.32	0.12
	Fu.C.20	-0.27			0.00	0.000	0.000 T	0.00	0.35	0.35	0.09
	Fu.C.21	-0.20			0.00	0.000	0.000 T	0.00	0.26	0.26	0.06
	Fu.C.22	-0.33			0.00	0.000	0.000 T	0.00	0.40	0.40	0.14
	Fu.C.23	-0.26			0.00	0.000	0.000 T	0.00	0.30	0.30	0.11
	Fu.C.24	-0.26			0.00	0.000	0.000 T	0.00	0.34	0.34	0.08
	Fu.C.25	-0.18			0.00	0.000	0.000 T	0.00	0.25	0.25	0.05
	Fu.C.26	-0.49			0.00	0.000	0.000 T	0.00	0.52	0.52	0.26
	Fu.C.27	-0.34			0.00	0.000	0.000 T	0.00	0.42	0.42	0.13
	Fu.C.28	-0.23			0.00	0.000	0.000 T	0.00	0.28	0.28	0.08
	Fu.C.29	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.11
	Fu.C.30	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.12
	Fu.C.31	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.12
	Fu.C.32	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.12
	Fu.C.33	-0.32			0.00	0.000	0.000 T	0.00	0.38	0.38	0.12
	Fu.C.34	-0.32			0.00	0.000	0.000 T	0.00	0.39	0.39	0.12
	Fu.C.35	-0.32			0.00	0.000	0.000 T	0.00	0.39	0.39	0.12
	Fu.C.36	-0.33			0.00	0.000	0.000 T	0.00	0.39	0.39	0.13
	Fu.C.37	-0.30			0.00	0.000	0.000 T	0.00	0.37	0.37	0.11
	Fu.C.38	-0.30			0.00	0.000	0.000 T	0.00	0.38	0.38	0.11
	Fu.C.39	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.11
	Fu.C.40	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.11
	Fu.C.41	-0.31			0.00	0.000	0.000 T	0.00	0.38	0.38	0.11
S69	Fu.C.1	0.00	0.05	1.128	0.00	0.000	0.000 D	-73.54	0.09	-0.09	-0.09
	Fu.C.2	0.00	0.04	1.128	0.00	0.000	0.000 D	-47.10	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.128	0.00	0.000	0.000 D	-23.81	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.128	0.00	0.000	0.000 D	-47.21	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.128	0.00	0.000	0.000 D	-23.93	0.07	0.07	-0.07
	Fu.C.6	0.00	0.06	1.128	0.00	0.000	0.000 D	-97.54	0.10	0.10	-0.09
	Fu.C.7	0.00	0.05	1.128	0.00	0.000	0.000 D	-74.40	0.10	0.10	-0.09
	Fu.C.8	0.00	0.06	1.128	0.00	0.000	0.000 D	-97.64	0.10	0.10	-0.09
	Fu.C.9	0.00	0.05	1.128	0.00	0.000	0.000 D	-74.51	0.10	0.10	-0.09
	Fu.C.10	0.00	0.04	1.128	0.00	0.000	0.000 D	-48.12	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.128	0.00	0.000	0.000 D	-24.93	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.128	0.00	0.000	0.000 D	-48.23	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.128	0.00	0.000	0.000 D	-25.05	0.07	0.07	-0.07
	Fu.C.14	0.00	0.06	1.128	0.00	0.000	0.000 D	-98.29	0.10	0.10	-0.09
	Fu.C.15	0.00	0.05	1.128	0.00	0.000	0.000 D	-75.32	0.10	0.10	-0.09
	Fu.C.16	0.00	0.06	1.128	0.00	0.000	0.000 D	-98.41	0.10	0.10	-0.09
	Fu.C.17	0.00	0.05	1.128	0.00	0.000	0.000 D	-75.43	0.10	0.10	-0.09
	Fu.C.18	0.00	0.05	1.128	0.00	0.000	0.000 D	-78.17	0.10	0.10	-0.09
	Fu.C.19	0.00	0.04	1.128	0.00	0.000	0.000 D	-61.49	0.07	0.07	-0.07
	Fu.C.20	0.00	0.05	1.128	0.00	0.000	0.000 D	-55.01	0.09	0.09	-0.09
	Fu.C.21	0.00	0.04	1.128	0.00	0.000	0.000 D	-38.30	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.128	0.00	0.000	0.000 D	-77.99	0.10	0.10	-0.09
	Fu.C.23	0.00	0.04	1.128	0.00	0.000	0.000 D	-61.31	0.07	0.07	-0.07
	Fu.C.24	0.00	0.05	1.128	0.00	0.000	0.000 D	-54.83	0.09	0.09	-0.09
	Fu.C.25	0.00	0.04	1.128	0.00	0.000	0.000 D	-38.12	0.07	0.07	-0.07
	Fu.C.26	0.00	0.06	1.128	0.00	0.000	0.000 D	-122.79	0.10	0.10	-0.10
	Fu.C.27	0.00	0.06	1.128	0.00	0.000	0.000 D	-74.79	0.11	0.11	-0.10
	Fu.C.28	0.00	0.04	1.128	0.00	0.000	0.000 D	-49.86	0.07	0.07	-0.07
	Fu.C.29	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.30	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.31	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.32	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.33	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.09	0.09	-0.09
	Fu.C.34	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.58	0.10	0.10	-0.09
	Fu.C.35	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.50	0.10	0.10	-0.09
	Fu.C.36	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.82	0.10	0.10	-0.09
	Fu.C.37	0.00	0.05	1.128	0.00	0.000	0.000 D	-65.58	0.10	0.10	-0.09
	Fu.C.38	0.00	0.05	1.128	0.00	0.000	0.000 D	-74.33	0.10	0.10	-0.09
	Fu.C.39	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.40	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09
	Fu.C.41	0.00	0.05	1.128	0.00	0.000	0.000 D	-66.56	0.10	0.10	-0.09

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S71	Fu.C.1	0.00	0.00	0.881	0.00	0.000	0.000 D	-233.98	-0.01	-0.01	-0.01
	Fu.C.2	0.00	0.00	0.881	0.00	0.000	0.000 D	-90.32	0.00	0.00	0.00
	Fu.C.3	0.00	0.00	0.881	0.00	0.000	0.000 D	-45.05	0.00	0.00	0.00
	Fu.C.4	0.00	0.00	0.881	0.00	0.000	0.000 D	-90.97	0.00	0.00	0.00
	Fu.C.5	0.00	0.00	0.881	0.00	0.000	0.000 D	-45.71	0.00	0.00	0.00
	Fu.C.6	0.00	0.00	0.881	0.00	0.000	0.000 D	-195.73	0.00	0.00	0.00
	Fu.C.7	0.00	0.00	0.881	0.00	0.000	0.000 D	-150.35	0.00	0.00	0.00
	Fu.C.8	0.00	0.00	0.881	0.00	0.000	0.000 D	-196.39	0.00	0.00	0.00
	Fu.C.9	0.00	0.00	0.881	0.00	0.000	0.000 D	-151.01	0.00	0.00	0.00
	Fu.C.10	0.00	0.00	0.881	0.00	0.000	0.000 D	-102.80	0.00	0.00	0.00
	Fu.C.11	0.00	0.00	0.881	0.00	0.000	0.000 D	-54.01	0.00	0.00	0.00
	Fu.C.12	0.00	0.00	0.881	0.00	0.000	0.000 D	-103.46	0.00	0.00	0.00
	Fu.C.13	0.00	0.00	0.881	0.00	0.000	0.000 D	-54.67	0.00	0.00	0.00
	Fu.C.14	0.00	0.00	0.881	0.00	0.000	0.000 D	-208.06	0.00	0.00	0.00
	Fu.C.15	0.00	0.00	0.881	0.00	0.000	0.000 D	-159.21	0.00	0.00	0.00
	Fu.C.16	0.00	0.00	0.881	0.00	0.000	0.000 D	-208.74	0.00	0.00	0.00
	Fu.C.17	0.00	0.00	0.881	0.00	0.000	0.000 D	-159.87	0.00	0.00	0.00
	Fu.C.18	0.00	0.00	0.881	0.00	0.000	0.000 D	-167.41	0.00	0.00	0.00
	Fu.C.19	0.00	0.00	0.881	0.00	0.000	0.000 D	-131.94	0.00	0.00	0.00
	Fu.C.20	0.00	0.00	0.881	0.00	0.000	0.000 D	-118.46	0.00	0.00	0.00
	Fu.C.21	0.00	0.00	0.881	0.00	0.000	0.000 D	-83.07	0.00	0.00	0.00
	Fu.C.22	0.00	0.00	0.881	0.00	0.000	0.000 D	-166.24	0.00	0.00	0.00
	Fu.C.23	0.00	0.00	0.881	0.00	0.000	0.000 D	-130.79	0.00	0.00	0.00
	Fu.C.24	0.00	0.00	0.881	0.00	0.000	0.000 D	-117.31	0.00	0.00	0.00
	Fu.C.25	0.00	0.00	0.881	0.00	0.000	0.000 D	-81.93	0.00	0.00	0.00
	Fu.C.26	0.00	0.00	0.881	0.00	0.000	0.000 D	-259.66	0.00	0.00	0.00
	Fu.C.27	0.00	0.00	0.881	0.00	0.000	0.000 D	-158.19	0.00	0.00	0.00
	Fu.C.28	0.00	0.00	0.881	0.00	0.000	0.000 D	-105.30	0.00	0.00	0.00
	Fu.C.29	0.00	0.00	0.881	0.00	0.000	0.000 D	-141.63	0.00	0.00	0.00
	Fu.C.30	0.00	0.00	0.881	0.00	0.000	0.000 D	-143.46	0.00	0.00	0.00
	Fu.C.31	0.00	0.00	0.881	0.00	0.000	0.000 D	-145.31	0.00	0.00	0.00
	Fu.C.32	0.00	0.00	0.881	0.00	0.000	0.000 D	-147.18	0.00	0.00	0.00
	Fu.C.33	0.00	0.00	0.881	0.00	0.000	0.000 D	-149.04	0.00	0.00	0.00
	Fu.C.34	0.00	0.00	0.881	0.00	0.000	0.000 D	-150.94	0.00	0.00	0.00
	Fu.C.35	0.00	0.00	0.881	0.00	0.000	0.000 D	-152.78	0.00	0.00	0.00
	Fu.C.36	0.00	0.00	0.881	0.00	0.000	0.000 D	-154.65	0.00	0.00	0.00
	Fu.C.37	0.00	0.00	0.881	0.00	0.000	0.000 D	-156.65	0.00	0.00	0.00
	Fu.C.38	0.00	0.00	0.881	0.00	0.000	0.000 D	-158.73	0.00	0.00	0.00
	Fu.C.39	0.00	0.00	0.881	0.00	0.000	0.000 D	-140.72	0.00	0.00	0.00
	Fu.C.40	0.00	0.00	0.881	0.00	0.000	0.000 D	-140.72	0.00	0.00	0.00
	Fu.C.41	0.00	0.00	0.881	0.00	0.000	0.000 D	-140.72	0.00	0.00	0.00
S73	Fu.C.1	0.76			0.00	0.000	0.000 D	-214.26	-0.42	-0.79	-0.79
	Fu.C.2	0.17			0.00	0.000	0.000 D	-123.95	-0.02	-0.24	-0.24
	Fu.C.3	0.08	0.08	0.250	0.00	0.000	0.000 D	-63.03	0.04	-0.16	-0.16
	Fu.C.4	0.16			0.00	0.000	0.000 D	-124.23	-0.02	-0.23	-0.23
	Fu.C.5	0.07	0.08	0.250	0.00	0.000	0.000 D	-63.32	0.04	-0.16	-0.16
	Fu.C.6	0.41			0.00	0.000	0.000 D	-256.25	-0.15	-0.49	-0.49
	Fu.C.7	0.32			0.00	0.000	0.000 D	-195.56	-0.10	-0.41	-0.41
	Fu.C.8	0.41			0.00	0.000	0.000 D	-256.52	-0.15	-0.49	-0.49
	Fu.C.9	0.32			0.00	0.000	0.000 D	-195.84	-0.10	-0.41	-0.41
	Fu.C.10	0.16			0.00	0.000	0.000 D	-126.37	-0.03	-0.24	-0.24
	Fu.C.11	0.05	0.06	0.375	0.00	0.000	0.000 D	-65.78	0.06	-0.14	-0.14
	Fu.C.12	0.16			0.00	0.000	0.000 D	-126.66	-0.02	-0.23	-0.23
	Fu.C.13	0.04	0.06	0.438	0.00	0.000	0.000 D	-66.07	0.07	-0.13	-0.13
	Fu.C.14	0.41			0.00	0.000	0.000 D	-258.01	-0.16	-0.49	-0.49
	Fu.C.15	0.30			0.00	0.000	0.000 D	-197.82	-0.08	-0.39	-0.39
	Fu.C.16	0.41			0.00	0.000	0.000 D	-258.30	-0.15	-0.49	-0.49
	Fu.C.17	0.29			0.00	0.000	0.000 D	-198.11	-0.08	-0.38	-0.38
	Fu.C.18	0.32			0.00	0.000	0.000 D	-205.20	-0.10	-0.41	-0.41
	Fu.C.19	0.26			0.00	0.000	0.000 D	-161.32	-0.10	-0.32	-0.32
	Fu.C.20	0.21			0.00	0.000	0.000 D	-144.62	-0.02	-0.31	-0.31
	Fu.C.21	0.14			0.00	0.000	0.000 D	-100.71	-0.01	-0.22	-0.22
	Fu.C.22	0.33			0.00	0.000	0.000 D	-204.76	-0.11	-0.42	-0.42
	Fu.C.23	0.27			0.00	0.000	0.000 D	-160.88	-0.10	-0.33	-0.33
	Fu.C.24	0.21			0.00	0.000	0.000 D	-144.18	-0.03	-0.31	-0.31
	Fu.C.25	0.15			0.00	0.000	0.000 D	-100.25	-0.02	-0.23	-0.23

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S73	Fu.C.26	0.53			0.00	0.000	0.000 D	-322.05	-0.22	-0.60	-0.60
	Fu.C.27	0.28			0.00	0.000	0.000 D	-196.52	-0.06	-0.39	-0.39
	Fu.C.28	0.19			0.00	0.000	0.000 D	-130.96	-0.04	-0.26	-0.26
	Fu.C.29	0.26			0.00	0.000	0.000 D	-174.85	-0.06	-0.36	-0.36
	Fu.C.30	0.27			0.00	0.000	0.000 D	-174.80	-0.07	-0.37	-0.37
	Fu.C.31	0.29			0.00	0.000	0.000 D	-174.77	-0.08	-0.38	-0.38
	Fu.C.32	0.30			0.00	0.000	0.000 D	-174.73	-0.09	-0.39	-0.39
	Fu.C.33	0.32			0.00	0.000	0.000 D	-174.73	-0.10	-0.41	-0.41
	Fu.C.34	0.31			0.00	0.000	0.000 D	-174.62	-0.10	-0.40	-0.40
	Fu.C.35	0.38			0.00	0.000	0.000 D	-175.03	-0.15	-0.46	-0.46
	Fu.C.36	0.38			0.00	0.000	0.000 D	-173.49	-0.15	-0.46	-0.46
	Fu.C.37	0.28			0.00	0.000	0.000 D	-184.16	-0.07	-0.37	-0.37
	Fu.C.38	0.25			0.00	0.000	0.000 D	-207.20	-0.05	-0.35	-0.35
	Fu.C.39	0.25			0.00	0.000	0.000 D	-174.88	-0.05	-0.35	-0.35
	Fu.C.40	0.25			0.00	0.000	0.000 D	-174.88	-0.05	-0.35	-0.35
	Fu.C.41	0.25			0.00	0.000	0.000 D	-174.88	-0.05	-0.35	-0.35
S74	Fu.C.1	0.00			0.53	0.000	0.000 D	-214.88	0.59	0.59	0.25
	Fu.C.2	0.00			0.14	0.000	0.000 D	-123.93	0.22	0.22	0.01
	Fu.C.3	0.00	0.07	0.875	0.06	0.000	0.000 D	-63.05	0.15	0.15	-0.05
	Fu.C.4	0.00			0.13	0.000	0.000 D	-124.21	0.21	0.21	0.00
	Fu.C.5	0.00	0.06	0.875	0.05	0.000	0.000 D	-63.34	0.14	0.14	-0.06
	Fu.C.6	0.00			0.33	0.000	0.000 D	-256.13	0.43	0.43	0.11
	Fu.C.7	0.00			0.25	0.000	0.000 D	-195.55	0.36	0.36	0.06
	Fu.C.8	0.00			0.33	0.000	0.000 D	-256.40	0.43	0.43	0.10
	Fu.C.9	0.00			0.25	0.000	0.000 D	-195.83	0.35	0.35	0.05
	Fu.C.10	0.00	0.11	1.125	0.11	0.000	0.000 D	-126.41	0.20	0.20	-0.01
	Fu.C.11	0.00	0.04	0.688	0.02	0.000	0.000 D	-65.81	0.11	0.11	-0.09
	Fu.C.12	0.00	0.11	1.125	0.10	0.000	0.000 D	-126.70	0.19	0.19	-0.02
	Fu.C.13	0.00	0.04	0.688	0.01	0.000	0.000 D	-66.10	0.11	0.11	-0.09
	Fu.C.14	0.00			0.31	0.000	0.000 D	-258.00	0.41	0.41	0.09
	Fu.C.15	0.00			0.22	0.000	0.000 D	-197.85	0.32	0.32	0.03
	Fu.C.16	0.00			0.30	0.000	0.000 D	-258.30	0.40	0.40	0.08
	Fu.C.17	0.00			0.21	0.000	0.000 D	-198.13	0.32	0.32	0.02
	Fu.C.18	0.00			0.23	0.000	0.000 D	-205.26	0.34	0.34	0.04
	Fu.C.19	0.00			0.19	0.000	0.000 D	-161.39	0.26	0.26	0.04
	Fu.C.20	0.00	0.14	1.125	0.14	0.000	0.000 D	-144.69	0.25	0.25	-0.03
	Fu.C.21	0.00	0.10	1.063	0.09	0.000	0.000 D	-100.77	0.18	0.18	-0.03
	Fu.C.22	0.00			0.24	0.000	0.000 D	-204.81	0.34	0.34	0.04
	Fu.C.23	0.00			0.20	0.000	0.000 D	-160.93	0.27	0.27	0.05
	Fu.C.24	0.00	0.15	1.125	0.15	0.000	0.000 D	-144.23	0.26	0.26	-0.02
	Fu.C.25	0.00	0.10	1.125	0.10	0.000	0.000 D	-100.30	0.19	0.19	-0.02
	Fu.C.26	0.00			0.40	0.000	0.000 D	-321.99	0.50	0.50	0.14
	Fu.C.27	0.00			0.20	0.000	0.000 D	-196.54	0.33	0.33	0.00
	Fu.C.28	0.00			0.13	0.000	0.000 D	-131.00	0.22	0.22	0.00
	Fu.C.29	0.00			0.18	0.000	0.000 D	-174.90	0.29	0.29	0.00
	Fu.C.30	0.00			0.19	0.000	0.000 D	-174.88	0.30	0.30	0.01
	Fu.C.31	0.00			0.20	0.000	0.000 D	-174.87	0.31	0.31	0.01
	Fu.C.32	0.00			0.21	0.000	0.000 D	-174.84	0.31	0.31	0.02
	Fu.C.33	0.00			0.21	0.000	0.000 D	-174.86	0.32	0.32	0.03
	Fu.C.34	0.00			0.22	0.000	0.000 D	-174.74	0.32	0.32	0.03
	Fu.C.35	0.00			0.23	0.000	0.000 D	-175.13	0.33	0.33	0.04
	Fu.C.36	0.00			0.23	0.000	0.000 D	-173.55	0.34	0.34	0.04
	Fu.C.37	0.00			0.25	0.000	0.000 D	-184.16	0.35	0.35	0.06
	Fu.C.38	0.00			0.22	0.000	0.000 D	-207.14	0.33	0.33	0.03
	Fu.C.39	0.00			0.18	0.000	0.000 D	-174.91	0.29	0.29	0.00
	Fu.C.40	0.00			0.18	0.000	0.000 D	-174.91	0.29	0.29	0.00
	Fu.C.41	0.00			0.18	0.000	0.000 D	-174.91	0.29	0.29	0.00
S75	Fu.C.1	0.00	0.02	1.059	0.00	0.000	0.000 T	110.00	0.04	0.04	-0.03
	Fu.C.2	0.00	0.02	1.059	0.00	0.000	0.000 T	27.85	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.02	1.059	0.00	0.000	0.000 T	13.00	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.02	1.059	0.00	0.000	0.000 T	28.53	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.02	1.059	0.00	0.000	0.000 T	13.68	0.04	-0.04	-0.04
	Fu.C.6	0.00	0.02	1.059	0.00	0.000	0.000 T	68.83	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	1.059	0.00	0.000	0.000 T	54.01	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	1.059	0.00	0.000	0.000 T	69.51	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	1.059	0.00	0.000	0.000 T	54.69	0.04	0.04	-0.04

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S75	Fu.C.10	0.00	0.02	1.059	0.00	0.000	0.000 T	42.62	0.03	0.03	-0.03
	Fu.C.11	0.00	0.02	1.059	0.00	0.000	0.000 T	23.04	0.03	0.03	-0.03
	Fu.C.12	0.00	0.02	1.059	0.00	0.000	0.000 T	43.29	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	1.059	0.00	0.000	0.000 T	23.72	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	1.059	0.00	0.000	0.000 T	83.55	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	1.059	0.00	0.000	0.000 T	64.01	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	1.059	0.00	0.000	0.000 T	84.23	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	1.059	0.00	0.000	0.000 T	64.69	0.04	0.04	-0.04
	Fu.C.18	0.00	0.02	1.059	0.00	0.000	0.000 T	69.35	0.04	0.04	-0.04
	Fu.C.19	0.00	0.02	1.059	0.00	0.000	0.000 T	55.10	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.059	0.00	0.000	0.000 T	49.76	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	1.059	0.00	0.000	0.000 T	35.51	0.03	0.03	-0.03
	Fu.C.22	0.00	0.02	1.059	0.00	0.000	0.000 T	68.12	0.04	0.04	-0.04
	Fu.C.23	0.00	0.02	1.059	0.00	0.000	0.000 T	53.89	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.059	0.00	0.000	0.000 T	48.55	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	1.059	0.00	0.000	0.000 T	34.32	0.03	0.03	-0.03
	Fu.C.26	0.00	0.02	1.059	0.00	0.000	0.000 T	104.07	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	1.059	0.00	0.000	0.000 T	63.72	0.05	0.05	-0.04
	Fu.C.28	0.00	0.02	1.059	0.00	0.000	0.000 T	42.48	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	1.059	0.00	0.000	0.000 T	57.92	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	1.059	0.00	0.000	0.000 T	60.35	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	1.059	0.00	0.000	0.000 T	62.76	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	1.059	0.00	0.000	0.000 T	65.33	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.059	0.00	0.000	0.000 T	67.34	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	1.059	0.00	0.000	0.000 T	71.58	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	1.059	0.00	0.000	0.000 T	63.22	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	1.059	0.00	0.000	0.000 T	54.58	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	1.059	0.00	0.000	0.000 T	57.99	0.04	0.04	-0.04
	Fu.C.38	0.00	0.02	1.059	0.00	0.000	0.000 T	59.31	0.04	0.04	-0.04
	Fu.C.39	0.00	0.02	1.059	0.00	0.000	0.000 T	56.71	0.04	0.04	-0.04
	Fu.C.40	0.00	0.02	1.059	0.00	0.000	0.000 T	56.71	0.04	0.04	-0.04
	Fu.C.41	0.00	0.02	1.059	0.00	0.000	0.000 T	56.71	0.04	0.04	-0.04
S76	Fu.C.1	-5.91	3.60	1.250	-5.38	0.000	0.000 D	-11.13	13.50	13.50	-13.08
	Fu.C.2	-1.84	0.83	1.250	-1.66	0.000	0.000 T	32.97	4.22	4.22	-4.07
	Fu.C.3	-0.86	0.42	1.250	-0.77	0.000	0.000 T	3.72	2.01	2.01	-1.94
	Fu.C.4	-1.85	0.83	1.250	-1.66	0.000	0.000 T	36.89	4.22	4.22	-4.07
	Fu.C.5	-0.87	0.41	1.250	-0.78	0.000	0.000 T	7.65	2.01	2.01	-1.94
	Fu.C.6	-3.89	1.79	1.250	-3.46	0.000	0.000 T	66.67	8.96	8.96	-8.61
	Fu.C.7	-2.92	1.38	1.250	-2.57	0.000	0.000 T	37.65	6.76	6.76	-6.48
	Fu.C.8	-3.90	1.79	1.250	-3.46	0.000	0.000 T	70.59	8.96	8.96	-8.60
	Fu.C.9	-2.92	1.37	1.250	-2.58	0.000	0.000 T	41.58	6.76	6.76	-6.48
	Fu.C.10	-1.88	0.83	1.250	-1.62	0.000	0.000 T	55.99	4.25	4.25	-4.04
	Fu.C.11	-0.91	0.39	1.250	-0.78	0.000	0.000 T	35.50	2.03	2.03	-1.92
	Fu.C.12	-1.88	0.83	1.250	-1.63	0.000	0.000 T	59.92	4.25	4.25	-4.04
	Fu.C.13	-0.92	0.38	1.250	-0.78	0.000	0.000 T	39.44	2.03	2.03	-1.92
	Fu.C.14	-3.92	1.79	1.250	-3.42	0.000	0.000 T	89.20	8.99	8.99	-8.57
	Fu.C.15	-2.96	1.35	1.250	-2.57	0.000	0.000 T	69.09	6.77	6.77	-6.46
	Fu.C.16	-3.93	1.78	1.250	-3.42	0.000	0.000 T	93.15	8.99	8.99	-8.57
	Fu.C.17	-2.97	1.34	1.250	-2.58	0.000	0.000 T	73.03	6.77	6.77	-6.45
	Fu.C.18	-3.06	1.42	1.250	-2.66	0.000	0.000 T	68.99	7.03	7.03	-6.70
	Fu.C.19	-2.41	1.12	1.250	-2.09	0.000	0.000 T	53.57	5.55	5.55	-5.29
	Fu.C.20	-2.10	0.97	1.250	-1.81	0.000	0.000 T	48.53	4.82	4.82	-4.58
	Fu.C.21	-1.45	0.68	1.250	-1.25	0.000	0.000 T	33.07	3.33	3.33	-3.17
	Fu.C.22	-3.05	1.42	1.250	-2.65	0.000	0.000 T	62.90	7.03	7.03	-6.70
	Fu.C.23	-2.40	1.13	1.250	-2.09	0.000	0.000 T	47.48	5.55	5.55	-5.29
	Fu.C.24	-2.09	0.98	1.250	-1.81	0.000	0.000 T	42.45	4.82	4.82	-4.59
	Fu.C.25	-1.44	0.69	1.250	-1.24	0.000	0.000 T	26.99	3.33	3.33	-3.17
	Fu.C.26	-4.92	2.23	1.250	-4.29	0.000	0.000 T	113.26	11.28	11.28	-10.76
	Fu.C.27	-2.91	1.32	1.250	-2.53	0.000	0.000 T	69.09	6.66	6.66	-6.34
	Fu.C.28	-1.94	0.89	1.250	-1.69	0.000	0.000 T	46.03	4.44	4.44	-4.23
	Fu.C.29	-2.58	1.19	1.250	-2.24	0.000	0.000 T	59.37	5.92	5.92	-5.65
	Fu.C.30	-2.58	1.20	1.250	-2.22	0.000	0.000 T	55.16	5.93	5.93	-5.64
	Fu.C.31	-2.51	1.24	1.250	-2.22	0.000	0.000 T	50.98	5.91	5.91	-5.66
	Fu.C.32	-2.69	1.18	1.250	-2.15	0.000	0.000 T	46.76	6.01	6.01	-5.56
	Fu.C.33	-1.94	1.47	1.250	-2.32	0.000	0.000 T	42.75	5.62	-5.93	-5.93
	Fu.C.34	-4.76	0.63	1.500	-1.57	0.000	0.000 T	37.93	7.10	7.10	-4.52

Secundair vakwerk spant				Noveres Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S76	Fu.C.35	-4.70	4.64	1.250	-4.39	0.000	0.000 T	38.79	13.36	13.36	-13.11
	Fu.C.36	-2.02	0.53	1.000	-4.35	0.000	0.000 T	51.96	4.87	-6.76	-6.76
	Fu.C.37	-2.78	1.38	1.375	-1.68	0.000	0.000 T	70.66	6.22	6.22	-5.33
	Fu.C.38	-2.67	1.02	1.250	-2.49	0.000	0.000 T	88.67	5.87	5.87	-5.72
	Fu.C.39	-2.59	1.18	1.250	-2.25	0.000	0.000 T	61.47	5.93	5.93	-5.64
	Fu.C.40	-2.59	1.18	1.250	-2.25	0.000	0.000 T	61.47	5.93	5.93	-5.64
S77	Fu.C.41	-2.59	1.18	1.250	-2.25	0.000	0.000 T	61.47	5.93	5.93	-5.64
	Fu.C.1	-5.38	2.01	1.125	-9.22	0.000	0.000 T	135.43	11.79	-14.96	-14.96
	Fu.C.2	-1.66	0.30	1.125	-3.01	0.000	0.000 T	70.92	3.62	-4.72	-4.72
	Fu.C.3	-0.77	0.15	1.125	-1.44	0.000	0.000 T	21.49	1.71	-2.25	-2.25
	Fu.C.4	-1.66	0.29	1.125	-3.03	0.000	0.000 T	75.63	3.61	-4.73	-4.73
	Fu.C.5	-0.78	0.14	1.125	-1.45	0.000	0.000 T	26.22	1.71	-2.25	-2.25
	Fu.C.6	-3.46	0.63	1.125	-6.51	0.000	0.000 T	158.38	7.64	-10.19	-10.19
	Fu.C.7	-2.57	0.48	1.125	-4.92	0.000	0.000 T	109.23	5.72	-7.65	-7.65
	Fu.C.8	-3.46	0.62	1.125	-6.53	0.000	0.000 T	163.10	7.64	-10.20	-10.20
	Fu.C.9	-2.58	0.47	1.125	-4.94	0.000	0.000 T	113.95	5.72	-7.66	-7.66
	Fu.C.10	-1.62	0.21	1.000	-3.30	0.000	0.000 T	111.34	3.51	-4.88	-4.88
	Fu.C.11	-0.78	0.06	1.000	-1.66	0.000	0.000 T	65.25	1.63	-2.35	-2.35
	Fu.C.12	-1.63	0.20	1.000	-3.32	0.000	0.000 T	116.07	3.50	-4.89	-4.89
	Fu.C.13	-0.78	0.05	1.000	-1.68	0.000	0.000 T	69.98	1.63	-2.36	-2.36
	Fu.C.14	-3.42	0.54	1.000	-6.81	0.000	0.000 T	198.25	7.54	-10.39	-10.39
	Fu.C.15	-2.57	0.39	1.000	-5.15	0.000	0.000 T	152.59	5.65	-7.80	-7.80
	Fu.C.16	-3.42	0.53	1.000	-6.83	0.000	0.000 T	203.00	7.54	-10.41	-10.41
	Fu.C.17	-2.58	0.38	1.000	-5.17	0.000	0.000 T	157.33	5.65	-7.81	-7.81
	Fu.C.18	-2.66	0.40	1.000	-5.39	0.000	0.000 T	158.87	5.85	-8.13	-8.13
	Fu.C.19	-2.09	0.32	1.000	-4.24	0.000	0.000 T	124.92	4.61	-6.38	-6.38
	Fu.C.20	-1.81	0.25	1.000	-3.74	0.000	0.000 T	112.80	3.97	-5.56	-5.56
	Fu.C.21	-1.25	0.17	1.000	-2.60	0.000	0.000 T	78.81	2.73	-3.83	-3.83
	Fu.C.22	-2.65	0.41	1.000	-5.35	0.000	0.000 T	151.35	5.86	-8.10	-8.10
	Fu.C.23	-2.09	0.33	1.000	-4.21	0.000	0.000 T	117.42	4.61	-6.36	-6.36
	Fu.C.24	-1.81	0.27	1.000	-3.71	0.000	0.000 T	105.30	3.97	-5.54	-5.54
	Fu.C.25	-1.24	0.18	1.000	-2.57	0.000	0.000 T	71.32	2.74	-3.82	-3.82
	Fu.C.26	-4.29	0.68	1.000	-8.55	0.000	0.000 T	249.18	9.50	-13.12	-13.12
	Fu.C.27	-2.53	0.37	1.000	-5.09	0.000	0.000 T	152.01	5.54	-7.67	-7.67
	Fu.C.28	-1.69	0.25	1.000	-3.38	0.000	0.000 T	101.31	3.69	-5.08	-5.08
	Fu.C.29	-2.24	0.33	1.000	-4.54	0.000	0.000 T	134.56	4.92	-6.82	-6.82
	Fu.C.30	-2.22	0.33	1.000	-4.57	0.000	0.000 T	133.14	4.90	-6.84	-6.84
	Fu.C.31	-2.22	0.32	1.000	-4.59	0.000	0.000 T	131.76	4.89	-6.85	-6.85
	Fu.C.32	-2.15	0.35	1.000	-4.63	0.000	0.000 T	130.41	4.84	-6.89	-6.89
	Fu.C.33	-2.32	0.26	1.000	-4.61	0.000	0.000 T	129.04	4.93	-6.82	-6.82
	Fu.C.34	-1.57	0.60	1.000	-4.82	0.000	0.000 T	127.87	4.51	-7.19	-7.19
	Fu.C.35	-4.39	-0.58	1.250	-4.14	0.000	0.000 T	125.96	6.04	6.04	-5.84
	Fu.C.36	-4.35	3.52	1.125	-6.93	0.000	0.000 T	129.47	12.15	-14.30	-14.30
	Fu.C.37	-1.68	-0.18	0.750	-7.00	0.000	0.000 T	144.91	3.76	-8.18	-8.18
	Fu.C.38	-2.49	0.37	1.125	-4.12	0.000	0.000 T	165.83	5.20	-6.56	-6.56
	Fu.C.39	-2.25	0.33	1.000	-4.53	0.000	0.000 T	135.27	4.93	-6.81	-6.81
	Fu.C.40	-2.25	0.33	1.000	-4.53	0.000	0.000 T	135.27	4.93	-6.81	-6.81
	Fu.C.41	-2.25	0.33	1.000	-4.53	0.000	0.000 T	135.27	4.93	-6.81	-6.81
S78	Fu.C.1	0.00	0.08	1.059	0.00	0.000	0.000 D	-137.11	0.13	-0.15	-0.15
	Fu.C.2	0.00	0.03	1.059	0.00	0.000	0.000 D	-36.80	0.06	0.06	-0.06
	Fu.C.3	0.00	0.03	1.059	0.00	0.000	0.000 D	-17.29	0.06	0.06	-0.05
	Fu.C.4	0.00	0.03	1.059	0.00	0.000	0.000 D	-37.48	0.06	0.06	-0.06
	Fu.C.5	0.00	0.03	1.059	0.00	0.000	0.000 D	-17.97	0.06	0.06	-0.05
	Fu.C.6	0.00	0.06	1.059	0.00	0.000	0.000 D	-87.24	0.10	0.10	-0.10
	Fu.C.7	0.00	0.05	1.059	0.00	0.000	0.000 D	-67.76	0.09	0.09	-0.09
	Fu.C.8	0.00	0.06	1.059	0.00	0.000	0.000 D	-87.92	0.10	0.10	-0.10
	Fu.C.9	0.00	0.05	1.059	0.00	0.000	0.000 D	-68.43	0.09	0.09	-0.09
	Fu.C.10	0.00	0.03	1.059	0.00	0.000	0.000 D	-51.09	0.06	-0.06	-0.06
	Fu.C.11	0.00	0.03	1.059	0.00	0.000	0.000 D	-27.11	0.06	-0.06	-0.06
	Fu.C.12	0.00	0.03	1.059	0.00	0.000	0.000 D	-51.76	0.06	-0.06	-0.06
	Fu.C.13	0.00	0.03	1.059	0.00	0.000	0.000 D	-27.78	0.06	-0.06	-0.06
	Fu.C.14	0.00	0.06	1.059	0.00	0.000	0.000 D	-101.47	0.11	-0.11	-0.11
	Fu.C.15	0.00	0.05	1.059	0.00	0.000	0.000 D	-77.53	0.09	-0.10	-0.10
	Fu.C.16	0.00	0.06	1.059	0.00	0.000	0.000 D	-102.14	0.11	-0.11	-0.11
	Fu.C.17	0.00	0.05	1.059	0.00	0.000	0.000 D	-78.20	0.10	-0.10	-0.10
	Fu.C.18	0.00	0.06	1.059	0.00	0.000	0.000 D	-83.24	0.10	-0.10	-0.10

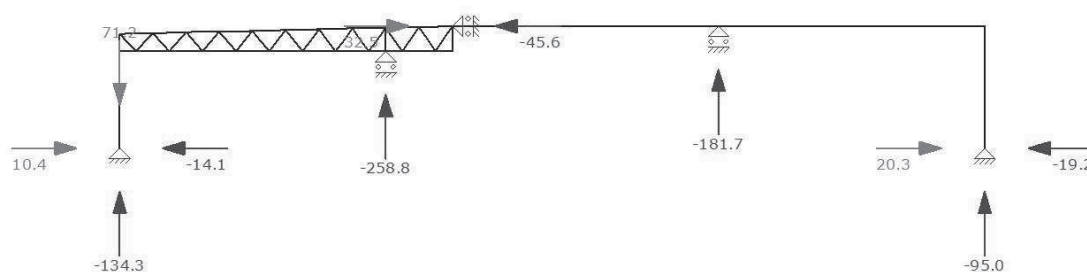
Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S78	Fu.C.19	0.00	0.04	1.059	0.00	0.000	0.000 D	-66.03	0.07	-0.07	-0.07
	Fu.C.20	0.00	0.05	1.059	0.00	0.000	0.000 D	-59.25	0.09	-0.09	-0.09
	Fu.C.21	0.00	0.03	1.059	0.00	0.000	0.000 D	-42.04	0.06	-0.06	-0.06
	Fu.C.22	0.00	0.06	1.059	0.00	0.000	0.000 D	-82.03	0.10	-0.10	-0.10
	Fu.C.23	0.00	0.04	1.059	0.00	0.000	0.000 D	-64.83	0.07	-0.07	-0.07
	Fu.C.24	0.00	0.05	1.059	0.00	0.000	0.000 D	-58.06	0.09	-0.09	-0.09
	Fu.C.25	0.00	0.03	1.059	0.00	0.000	0.000 D	-40.86	0.06	-0.06	-0.06
	Fu.C.26	0.00	0.08	1.059	0.00	0.000	0.000 D	-126.54	0.13	-0.13	-0.13
	Fu.C.27	0.00	0.06	1.059	0.00	0.000	0.000 D	-77.01	0.11	-0.11	-0.11
	Fu.C.28	0.00	0.03	1.059	0.00	0.000	0.000 D	-51.34	0.06	-0.06	-0.06
	Fu.C.29	0.00	0.05	1.059	0.00	0.000	0.000 D	-69.69	0.09	-0.09	-0.09
	Fu.C.30	0.00	0.05	1.059	0.00	0.000	0.000 D	-71.98	0.09	-0.09	-0.09
	Fu.C.31	0.00	0.05	1.059	0.00	0.000	0.000 D	-74.30	0.09	-0.09	-0.09
	Fu.C.32	0.00	0.05	1.059	0.00	0.000	0.000 D	-76.59	0.09	-0.10	-0.10
	Fu.C.33	0.00	0.05	1.059	0.00	0.000	0.000 D	-79.07	0.09	-0.10	-0.10
	Fu.C.34	0.00	0.05	1.059	0.00	0.000	0.000 D	-80.93	0.10	-0.10	-0.10
	Fu.C.35	0.00	0.06	1.059	0.00	0.000	0.000 D	-85.07	0.10	-0.10	-0.10
	Fu.C.36	0.00	0.05	1.059	0.00	0.000	0.000 D	-76.69	0.09	-0.09	-0.09
	Fu.C.37	0.00	0.05	1.059	0.00	0.000	0.000 D	-68.00	0.09	-0.09	-0.09
	Fu.C.38	0.00	0.05	1.059	0.00	0.000	0.000 D	-71.66	0.09	0.09	-0.09
	Fu.C.39	0.00	0.05	1.059	0.00	0.000	0.000 D	-68.54	0.09	-0.09	-0.09
	Fu.C.40	0.00	0.05	1.059	0.00	0.000	0.000 D	-68.54	0.09	-0.09	-0.09
	Fu.C.41	0.00	0.05	1.059	0.00	0.000	0.000 D	-68.54	0.09	-0.09	-0.09
S79	Fu.C.1	0.00	247.75	10.000	0.00	0.000	0.000 T	7.88	48.35	-48.36	-48.36
	Fu.C.2	0.00	165.59	10.000	0.00	0.000	0.000 T	16.90	33.11	-33.18	-33.18
	Fu.C.3	0.00	83.62	10.000	0.00	0.000	0.000 T	13.96	16.82	-16.85	-16.85
	Fu.C.4	0.00	162.43	10.000	0.00	0.000	0.000 T	20.69	32.61	-32.68	-32.68
	Fu.C.5	0.00	82.08	10.000	0.00	0.000	0.000 T	17.82	16.56	-16.60	-16.60
	Fu.C.6	0.00	377.13	10.000	0.00	0.000	0.000 T	15.65	71.51	-71.63	-71.63
	Fu.C.7	0.00	281.77	10.000	0.00	0.000	0.000 T	10.72	54.63	-54.72	-54.72
	Fu.C.8	0.00	368.53	10.000	0.00	0.000	0.000 T	19.26	70.33	-70.45	-70.45
	Fu.C.9	0.00	275.79	10.000	0.00	0.000	0.000 T	14.40	53.74	-53.84	-53.84
	Fu.C.10	0.00	189.52	10.000	0.00	0.000	0.000 D	-14.01	36.94	36.94	-36.86
	Fu.C.11	0.00	95.31	10.000	0.00	0.000	0.000 D	-13.55	18.78	18.78	-18.74
	Fu.C.12	0.00	185.41	10.000	0.00	0.000	0.000 D	-10.10	36.30	36.30	-36.22
	Fu.C.13	0.00	93.29	10.000	0.00	0.000	0.000 D	-9.65	18.45	18.45	-18.41
	Fu.C.14	0.00	438.34	10.000	0.00	0.000	0.000 D	-30.66	79.84	79.84	-79.64
	Fu.C.15	0.00	327.46	10.000	0.00	0.000	0.000 D	-28.43	61.35	61.35	-61.21
	Fu.C.16	0.00	426.94	10.000	0.00	0.000	0.000 D	-26.48	78.34	78.34	-78.16
	Fu.C.17	0.00	319.43	10.000	0.00	0.000	0.000 D	-24.39	60.21	60.21	-60.07
	Fu.C.18	0.00	269.41	10.000	0.00	0.000	0.000 T	25.36	53.22	-53.24	-53.24
	Fu.C.19	0.00	210.35	10.000	0.00	0.000	0.000 T	22.24	42.02	-42.03	-42.03
	Fu.C.20	0.00	186.87	10.000	0.00	0.000	0.000 T	21.06	37.39	-37.40	-37.40
	Fu.C.21	0.00	129.43	10.000	0.00	0.000	0.000 T	18.59	26.07	-26.08	-26.08
	Fu.C.22	0.00	277.95	10.000	0.00	0.000	0.000 T	19.68	54.49	-54.50	-54.50
	Fu.C.23	0.00	216.81	10.000	0.00	0.000	0.000 T	16.48	43.02	-43.03	-43.03
	Fu.C.24	0.00	192.58	10.000	0.00	0.000	0.000 T	15.25	38.29	-38.29	-38.29
	Fu.C.25	0.00	133.29	10.000	0.00	0.000	0.000 T	12.71	26.70	-26.71	-26.71
	Fu.C.26	0.00	502.82	10.000	0.00	0.000	0.000 T	19.36	90.67	90.67	-90.64
	Fu.C.27	0.00	279.94	10.000	0.00	0.000	0.000 T	9.52	54.26	54.26	-54.25
	Fu.C.28	0.00	184.20	10.000	0.00	0.000	0.000 T	4.76	36.36	36.36	-36.36
	Fu.C.29	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.30	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.31	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.32	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.33	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.34	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.35	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.35	-48.35
	Fu.C.36	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.37	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.38	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.39	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.40	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
	Fu.C.41	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.36	48.36	-48.35
S80	Fu.C.1	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.2	0.00	166.43	10.000	0.00	0.000	0.000 T	15.91	33.25	-33.31	-33.31

Secundair vakwerk spant				Noveres Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S80	Fu.C.3	0.00	84.03	10.000	0.00	0.000	0.000 T	12.95	16.89	-16.92	-16.92
	Fu.C.4	0.00	163.24	10.000	0.00	0.000	0.000 T	19.70	32.75	-32.81	-32.81
	Fu.C.5	0.00	82.48	10.000	0.00	0.000	0.000 T	16.81	16.63	-16.66	-16.66
	Fu.C.6	0.00	379.22	10.000	0.00	0.000	0.000 T	14.91	71.75	-71.99	-71.99
	Fu.C.7	0.00	283.31	10.000	0.00	0.000	0.000 T	9.81	54.85	-54.97	-54.97
	Fu.C.8	0.00	370.52	10.000	0.00	0.000	0.000 T	18.50	70.57	-70.78	-70.78
	Fu.C.9	0.00	277.27	10.000	0.00	0.000	0.000 T	13.48	53.96	-54.08	-54.08
	Fu.C.10	0.00	107.64	8.000	0.00	0.000	0.000 D	-13.07	27.78	27.78	-4.51
	Fu.C.11	0.00	50.03	7.000	0.00	0.000	0.000 D	-12.39	13.50	13.50	1.07
	Fu.C.12	0.00	105.62	8.000	0.00	0.000	0.000 D	-9.17	27.42	27.42	-4.22
	Fu.C.13	0.00	49.18	7.000	0.00	0.000	0.000 D	-8.49	13.33	13.33	1.19
	Fu.C.14	0.00	338.60	9.000	0.00	0.000	0.000 D	-30.34	70.74	70.74	-47.72
	Fu.C.15	0.00	270.80	9.000	0.00	0.000	0.000 D	-27.53	55.81	55.81	-41.27
	Fu.C.16	0.00	330.13	9.000	0.00	0.000	0.000 D	-26.15	69.52	69.52	-46.54
	Fu.C.17	0.00	264.35	9.000	0.00	0.000	0.000 D	-23.49	54.84	54.84	-40.33
	Fu.C.18	0.00	269.41	10.000	0.00	0.000	0.000 T	25.37	53.23	-53.25	-53.25
	Fu.C.19	0.00	210.35	10.000	0.00	0.000	0.000 T	22.23	42.03	-42.04	-42.04
	Fu.C.20	0.00	186.87	10.000	0.00	0.000	0.000 T	21.05	37.40	-37.41	-37.41
	Fu.C.21	0.00	129.42	10.000	0.00	0.000	0.000 T	18.59	26.08	-26.08	-26.08
	Fu.C.22	0.00	277.95	10.000	0.00	0.000	0.000 T	19.69	54.50	-54.52	-54.52
	Fu.C.23	0.00	216.81	10.000	0.00	0.000	0.000 T	16.47	43.03	-43.03	-43.03
	Fu.C.24	0.00	192.58	10.000	0.00	0.000	0.000 T	15.25	38.29	-38.30	-38.30
	Fu.C.25	0.00	133.29	10.000	0.00	0.000	0.000 T	12.70	26.71	-26.71	-26.71
	Fu.C.26	0.00	502.82	10.000	0.00	0.000	0.000 T	19.87	90.39	-90.95	-90.95
	Fu.C.27	0.00	279.94	10.000	0.00	0.000	0.000 T	9.54	54.25	-54.27	-54.27
	Fu.C.28	0.00	184.20	10.000	0.00	0.000	0.000 T	4.75	36.36	-36.36	-36.36
	Fu.C.29	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.30	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.31	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.32	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.33	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.34	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.35	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.36	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.37	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.38	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.39	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.40	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
	Fu.C.41	0.00	247.75	10.000	0.00	0.000	0.000 T	7.86	48.35	-48.36	-48.36
S81	Fu.C.1	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.2	0.00	26.18	4.588	0.00	0.000	0.000 D	-37.93	11.28	-11.29	-11.29
	Fu.C.3	0.00	25.46	4.588	0.00	0.000	0.000 D	-20.53	11.05	11.05	-11.03
	Fu.C.4	0.00	35.66	4.588	0.00	0.000	0.000 D	-37.81	15.37	15.37	-15.36
	Fu.C.5	0.00	34.65	4.588	0.00	0.000	0.000 D	-20.40	15.04	15.04	-15.01
	Fu.C.6	0.00	-3.06	4.588	0.00	0.000	0.000 D	-76.99	-1.38	-1.38	1.21
	Fu.C.7	0.00	-2.72	4.588	0.00	0.000	0.000 D	-59.47	-1.21	-1.21	1.11
	Fu.C.8	0.00	7.14	4.588	0.00	0.000	0.000 D	-77.09	2.94	-3.10	-3.10
	Fu.C.9	0.00	7.14	4.588	0.00	0.000	0.000 D	-59.53	3.01	-3.09	-3.09
	Fu.C.10	0.00	-26.10	4.588	0.00	0.000	0.000 D	-6.42	-11.37	-11.37	11.34
	Fu.C.11	0.00	-25.83	4.588	0.00	0.000	0.000 T	1.51	-11.27	-11.27	11.25
	Fu.C.12	0.00	-17.10	4.588	0.00	0.000	0.000 D	-6.55	-7.45	-7.45	7.43
	Fu.C.13	0.00	-16.92	4.588	0.00	0.000	0.000 D	-1.46	-7.38	-7.38	7.36
	Fu.C.14	0.00	-57.59	4.588	0.00	0.000	0.000 D	-44.71	-24.58	-24.58	24.55
	Fu.C.15	0.00	-56.68	4.588	0.00	0.000	0.000 D	-39.23	-24.37	-24.37	24.30
	Fu.C.16	0.00	-47.89	4.588	0.00	0.000	0.000 D	-44.66	-20.48	-20.48	20.42
	Fu.C.17	0.00	-47.13	4.588	0.00	0.000	0.000 D	-39.59	-20.28	-20.28	20.20
	Fu.C.18	0.00	40.25	4.588	0.00	0.000	0.000 D	-61.49	17.18	-17.19	-17.19
	Fu.C.19	0.00	39.46	4.588	0.00	0.000	0.000 D	-48.08	16.94	-16.94	-16.94
	Fu.C.20	0.00	39.14	4.588	0.00	0.000	0.000 D	-43.97	16.84	16.84	-16.82
	Fu.C.21	0.00	38.35	4.588	0.00	0.000	0.000 D	-30.62	16.58	16.58	-16.55
	Fu.C.22	0.00	25.04	4.588	0.00	0.000	0.000 D	-61.65	10.66	-10.72	-10.72
	Fu.C.23	0.00	24.62	4.588	0.00	0.000	0.000 D	-48.25	10.55	-10.58	-10.58
	Fu.C.24	0.00	24.41	4.588	0.00	0.000	0.000 D	-44.15	10.49	-10.50	-10.50
	Fu.C.25	0.00	23.95	4.588	0.00	0.000	0.000 D	-30.82	10.35	10.35	-10.35
	Fu.C.26	0.00	-1.03	4.588	0.00	0.000	0.000 D	-96.69	-0.56	-0.56	0.30
	Fu.C.27	0.00	-0.33	4.588	0.00	0.000	0.000 D	-59.48	-0.19	-0.19	0.09

Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S81	Fu.C.28	0.00	-0.09	4.588	0.00	0.000	0.000 D	-39.60	-0.06	-0.06	0.02
	Fu.C.29	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.30	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.31	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.32	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.33	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.34	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.35	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.36	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.37	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.38	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.39	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.40	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
	Fu.C.41	0.00	-0.23	4.588	0.00	0.000	0.000 D	-52.90	-0.14	-0.14	0.06
-	-	kNm	kNm	m	kNm	m	m -	kN	kN	kN	kN

AFB. FU.C. OPLEGREACTIES OMHULLENDE

Fundamenteel Belastingscombinaties



FU.C. OPLEGREACTIES ANALYSE

B.C.	Oplegging	Knoop	X	Z	My
Fu.C.1	O1	K1	1.12	-94.54	0.00
	O2	K38	1.24	0.00	0.00
	O3	K39	0.00	-234.20	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
Som Reacties			0.00	-479.44	
Som Lasten			0.00	479.44	
Fu.C.2	O1	K1	-7.08	1.84	0.00
	O2	K38	-44.27	0.00	0.00
	O3	K39	0.00	-90.51	0.00
	O4	K43	-11.51	-37.86	0.00
	O5	K41	0.00	-70.25	0.00
Som Reacties			-62.85	-196.79	
Som Lasten			62.85	196.79	
Fu.C.3	O1	K1	-7.10	1.50	0.00
	O2	K38	-44.27	0.00	0.00
	O3	K39	0.00	-45.30	0.00
	O4	K43	-10.85	-20.63	0.00
	O5	K41	0.00	-35.52	0.00
Som Reacties			-62.23	-99.95	
Som Lasten			62.23	99.95	
Fu.C.4	O1	K1	-4.62	2.49	0.00
	O2	K38	-43.37	0.00	0.00
	O3	K39	0.00	-91.15	0.00
	O4	K43	-15.36	-37.82	0.00
	O5	K41	0.00	-70.26	0.00
Som Reacties			-63.34	-196.74	
Som Lasten			63.34	196.74	
Fu.C.5	O1	K1	-4.64	2.14	0.00
	O2	K38	-43.34	0.00	0.00
	O3	K39	0.00	-45.94	0.00

Secundair vakwerk spant	Noveres Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.5	O4	K43	-14.73	-20.62	0.00
	O5	K41	0.00	-35.52	0.00
	Som Reacties		-62.71	-99.94	
	Som Lasten		62.71	99.94	
Fu.C.6	O1	K1	-14.13	-27.33	0.00
	O2	K38	-41.49	0.00	0.00
	O3	K39	0.00	-195.47	0.00
	O4	K43	-7.21	-76.66	0.00
	O5	K41	0.00	-145.49	0.00
	Som Reacties		-62.84	-444.96	
	Som Lasten		62.84	444.96	
Fu.C.7	O1	K1	-14.15	-27.65	0.00
	O2	K38	-45.55	0.00	0.00
	O3	K39	0.00	-150.42	0.00
	O4	K43	-2.53	-59.43	0.00
	O5	K41	0.00	-111.08	0.00
	Som Reacties		-62.22	-348.59	
	Som Lasten		62.22	348.59	
Fu.C.8	O1	K1	-11.68	-26.68	0.00
	O2	K38	-40.93	0.00	0.00
	O3	K39	0.00	-196.12	0.00
	O4	K43	-10.71	-76.40	0.00
	O5	K41	0.00	-145.51	0.00
	Som Reacties		-63.32	-444.72	
	Som Lasten		63.32	444.72	
Fu.C.9	O1	K1	-11.70	-27.00	0.00
	O2	K38	-44.76	0.00	0.00
	O3	K39	0.00	-151.07	0.00
	O4	K43	-6.26	-59.28	0.00
	O5	K41	0.00	-111.09	0.00
	Som Reacties		-62.71	-348.44	
	Som Lasten		62.71	348.44	
Fu.C.10	O1	K1	7.09	-25.57	0.00
	O2	K38	28.90	0.00	0.00
	O3	K39	0.00	-102.93	0.00
	O4	K43	11.15	-6.79	0.00
	O5	K41	0.00	-61.84	0.00
	Som Reacties		47.14	-197.13	
	Som Lasten		-47.14	197.13	
Fu.C.11	O1	K1	6.96	-13.55	0.00
	O2	K38	29.17	0.00	0.00
	O3	K39	0.00	-54.18	0.00
	O4	K43	11.24	-1.57	0.00
	O5	K41	0.00	-30.76	0.00
	Som Reacties		47.37	-100.07	
	Som Lasten		-47.37	100.07	
Fu.C.12	O1	K1	9.54	-24.93	0.00
	O2	K38	29.82	0.00	0.00
	O3	K39	0.00	-103.58	0.00
	O4	K43	7.28	-6.74	0.00
	O5	K41	0.00	-61.84	0.00
	Som Reacties		46.64	-197.09	
	Som Lasten		-46.64	197.09	
Fu.C.13	O1	K1	9.41	-12.90	0.00
	O2	K38	30.11	0.00	0.00
	O3	K39	0.00	-54.83	0.00
	O4	K43	7.36	-1.56	0.00
	O5	K41	0.00	-30.77	0.00
	Som Reacties		46.88	-100.06	
	Som Lasten		-46.88	100.06	
Fu.C.14	O1	K1	-0.01	-54.79	0.00
	O2	K38	31.83	0.00	0.00
	O3	K39	0.00	-207.70	0.00
	O4	K43	17.79	-47.38	0.00
	O5	K41	0.00	-136.91	0.00
	Som Reacties		49.62	-446.77	
	Som Lasten		-49.62	446.77	
Fu.C.15	O1	K1	-0.14	-42.72	0.00
	O2	K38	28.72	0.00	0.00

Secundair vakwerk spant	Noveres Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.15	O3	K39	0.00	-159.18	0.00
	O4	K43	20.30	-41.49	0.00
	O5	K41	0.00	-106.26	0.00
Som Reacties			48.88	-349.65	
Som Lasten			-48.88	349.65	
Fu.C.16	O1	K1	2.44	-54.14	0.00
	O2	K38	32.45	0.00	0.00
	O3	K39	0.00	-208.36	0.00
	O4	K43	14.20	-47.04	0.00
	O5	K41	0.00	-136.95	0.00
Som Reacties			49.09	-446.48	
Som Lasten			-49.09	446.48	
Fu.C.17	O1	K1	2.31	-42.07	0.00
	O2	K38	29.51	0.00	0.00
	O3	K39	0.00	-159.83	0.00
	O4	K43	16.55	-41.29	0.00
	O5	K41	0.00	-106.27	0.00
Som Reacties			48.37	-349.46	
Som Lasten			-48.37	349.46	
Fu.C.18	O1	K1	10.35	-134.29	0.00
	O2	K38	-11.58	0.00	0.00
	O3	K39	0.00	-167.35	0.00
	O4	K43	-19.19	-60.89	0.00
	O5	K41	0.00	-115.18	0.00
Som Reacties			-20.42	-477.71	
Som Lasten			20.42	477.71	
Fu.C.19	O1	K1	10.28	-124.78	0.00
	O2	K38	-13.23	0.00	0.00
	O3	K39	0.00	-132.02	0.00
	O4	K43	-17.48	-47.89	0.00
	O5	K41	0.00	-90.64	0.00
Som Reacties			-20.42	-395.33	
Som Lasten			20.42	395.33	
Fu.C.20	O1	K1	10.25	-122.27	0.00
	O2	K38	-12.65	0.00	0.00
	O3	K39	0.00	-118.62	0.00
	O4	K43	-17.03	-43.90	0.00
	O5	K41	0.00	-80.54	0.00
Som Reacties			-19.43	-365.33	
Som Lasten			19.43	365.33	
Fu.C.21	O1	K1	10.18	-112.76	0.00
	O2	K38	-13.32	0.00	0.00
	O3	K39	0.00	-83.27	0.00
	O4	K43	-16.29	-30.78	0.00
	O5	K41	0.00	-55.96	0.00
Som Reacties			-19.43	-282.77	
Som Lasten			19.43	282.77	
Fu.C.22	O1	K1	6.93	49.66	0.00
	O2	K38	-13.16	0.00	0.00
	O3	K39	0.00	-166.20	0.00
	O4	K43	-13.43	-61.10	0.00
	O5	K41	0.00	-115.17	0.00
Som Reacties			-19.67	-292.80	
Som Lasten			19.67	292.80	
Fu.C.23	O1	K1	6.83	59.18	0.00
	O2	K38	-14.89	0.00	0.00
	O3	K39	0.00	-130.89	0.00
	O4	K43	-11.61	-48.01	0.00
	O5	K41	0.00	-90.64	0.00
Som Reacties			-19.67	-210.35	
Som Lasten			19.67	210.35	
Fu.C.24	O1	K1	6.78	61.69	0.00
	O2	K38	-14.33	0.00	0.00
	O3	K39	0.00	-117.49	0.00
	O4	K43	-11.12	-44.00	0.00
	O5	K41	0.00	-80.54	0.00
Som Reacties			-18.68	-180.33	
Som Lasten			18.68	180.33	
Fu.C.25	O1	K1	6.68	71.21	0.00

Secundair vakwerk spant	Noveres Constructeurs				
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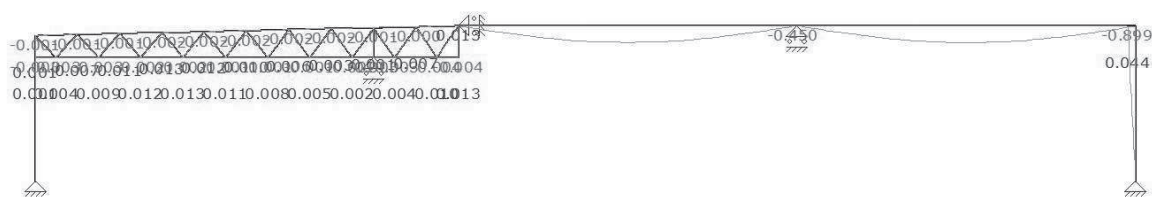
B.C.	Oplegging	Knoop	X	Z	My
Fu.C.25	O2	K38	-15.01	0.00	0.00
	O3	K39	0.00	-82.15	0.00
	O4	K43	-10.34	-30.82	0.00
	O5	K41	0.00	-55.96	0.00
	Som Reacties		-18.68	-97.72	
	Som Lasten		18.68	97.72	
Fu.C.26	O1	K1	0.73	-66.95	0.00
	O2	K38	17.28	0.00	0.00
	O3	K39	0.00	-258.79	0.00
	O4	K43	-18.01	-95.00	0.00
	O5	K41	0.00	-181.69	0.00
	Som Reacties		0.00	-602.44	
	Som Lasten		0.00	602.44	
Fu.C.27	O1	K1	0.46	-42.64	0.00
	O2	K38	2.94	0.00	0.00
	O3	K39	0.00	-158.18	0.00
	O4	K43	-3.40	-59.38	0.00
	O5	K41	0.00	-109.95	0.00
	Som Reacties		0.00	-370.16	
	Som Lasten		0.00	370.16	
Fu.C.28	O1	K1	0.31	-28.43	0.00
	O2	K38	0.66	0.00	0.00
	O3	K39	0.00	-105.45	0.00
	O4	K43	-0.97	-39.59	0.00
	O5	K41	0.00	-73.31	0.00
	Som Reacties		0.00	-246.77	
	Som Lasten		0.00	246.77	
Fu.C.29	O1	K1	0.45	-52.03	0.00
	O2	K38	1.91	0.00	0.00
	O3	K39	0.00	-141.70	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.30	O1	K1	0.53	-50.19	0.00
	O2	K38	1.83	0.00	0.00
	O3	K39	0.00	-143.54	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.31	O1	K1	0.56	-48.33	0.00
	O2	K38	1.80	0.00	0.00
	O3	K39	0.00	-145.40	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.32	O1	K1	0.57	-46.46	0.00
	O2	K38	1.80	0.00	0.00
	O3	K39	0.00	-147.27	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.33	O1	K1	0.55	-44.58	0.00
	O2	K38	1.81	0.00	0.00
	O3	K39	0.00	-149.15	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.34	O1	K1	0.52	-42.69	0.00
	O2	K38	1.84	0.00	0.00
	O3	K39	0.00	-151.04	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	

Secundair vakwerk spant	Noveres Constructeurs		
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.35	O1	K1	0.48	-40.80	0.00
	O2	K38	1.88	0.00	0.00
	O3	K39	0.00	-152.93	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.36	O1	K1	0.43	-38.90	0.00
	O2	K38	1.93	0.00	0.00
	O3	K39	0.00	-154.83	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.37	O1	K1	0.39	-37.00	0.00
	O2	K38	1.97	0.00	0.00
	O3	K39	0.00	-156.72	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.44	
	Som Lasten		0.00	344.44	
Fu.C.38	O1	K1	0.36	-35.11	0.00
	O2	K38	2.00	0.00	0.00
	O3	K39	0.00	-158.63	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-344.45	
	Som Lasten		0.00	344.45	
Fu.C.39	O1	K1	0.41	-37.95	0.00
	O2	K38	1.95	0.00	0.00
	O3	K39	0.00	-140.78	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-329.44	
	Som Lasten		0.00	329.44	
Fu.C.40	O1	K1	0.41	-37.95	0.00
	O2	K38	1.95	0.00	0.00
	O3	K39	0.00	-140.78	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-329.44	
	Som Lasten		0.00	329.44	
Fu.C.41	O1	K1	0.41	-37.95	0.00
	O2	K38	1.95	0.00	0.00
	O3	K39	0.00	-140.78	0.00
	O4	K43	-2.36	-52.85	0.00
	O5	K41	0.00	-97.86	0.00
	Som Reacties		0.00	-329.44	
	Som Lasten		0.00	329.44	
-	-	-	kN	kN	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Z	Yr
K1	Ka.C.(w1)	0.0000	0.0000	0.883e-03
	Ka.C.1	0.0000	0.0000	0.883e-03
	Ka.C.2	0.0000	0.0000	0.947e-03
	Ka.C.3	0.0000	0.0000	1.038e-03
	Ka.C.4	0.0000	0.0000	1.071e-03
	Ka.C.5	0.0000	0.0000	1.066e-03
	Ka.C.6	0.0000	0.0000	1.037e-03
	Ka.C.7	0.0000	0.0000	0.993e-03
	Ka.C.8	0.0000	0.0000	0.946e-03
	Ka.C.9	0.0000	0.0000	0.902e-03
	Ka.C.10	0.0000	0.0000	0.876e-03
	Ka.C.11	0.0000	0.0000	0.869e-03
	Ka.C.12	0.0000	0.0000	0.883e-03
	Ka.C.13	0.0000	0.0000	0.883e-03
	Ka.C.14	0.0000	0.0000	0.883e-03
	Ka.C.15	0.0000	0.0000	-2.546e-03
	Ka.C.16	0.0000	0.0000	-2.642e-03
	Ka.C.17	0.0000	0.0000	-1.494e-03
	Ka.C.18	0.0000	0.0000	-1.590e-03
	Ka.C.19	0.0000	0.0000	-5.403e-03
	Ka.C.20	0.0000	0.0000	-5.500e-03
	Ka.C.21	0.0000	0.0000	-4.342e-03
	Ka.C.22	0.0000	0.0000	-4.439e-03
	Ka.C.23	0.0000	0.0000	3.805e-03
	Ka.C.24	0.0000	0.0000	3.544e-03
	Ka.C.25	0.0000	0.0000	4.866e-03
	Ka.C.26	0.0000	0.0000	4.600e-03
	Ka.C.27	0.0000	0.0000	0.967e-03
	Ka.C.28	0.0000	0.0000	0.718e-03
	Ka.C.29	0.0000	0.0000	2.037e-03
	Ka.C.30	0.0000	0.0000	1.783e-03
	Ka.C.31	0.0000	0.0000	5.533e-03
	Ka.C.32	0.0000	0.0000	5.255e-03
	Ka.C.33	0.0000	0.0000	3.630e-03
	Ka.C.34	0.0000	0.0000	3.377e-03
	Ka.C.35	0.0000	0.0000	1.492e-03
K2	Ka.C.(w1)	-0.0005	0.0003	-1.260e-03
	Ka.C.1	-0.0005	0.0003	-1.260e-03
	Ka.C.2	-0.0003	0.0004	-1.401e-03
	Ka.C.3	-0.0001	0.0003	-1.617e-03
	Ka.C.4	0.0001	0.0003	-1.717e-03
	Ka.C.5	0.0002	0.0003	-1.734e-03
	Ka.C.6	0.0002	0.0003	-1.687e-03
	Ka.C.7	0.0001	0.0003	-1.594e-03
	Ka.C.8	-0.0001	0.0003	-1.472e-03
	Ka.C.9	-0.0003	0.0003	-1.333e-03
	Ka.C.10	-0.0006	0.0003	-1.198e-03
	Ka.C.11	-0.0010	0.0003	-1.073e-03
	Ka.C.12	-0.0005	0.0003	-1.260e-03
	Ka.C.13	-0.0005	0.0003	-1.260e-03
	Ka.C.14	-0.0005	0.0003	-1.260e-03
	Ka.C.15	-0.0007	0.0001	-0.711e-03
	Ka.C.16	-0.0001	0.0001	-0.724e-03
	Ka.C.17	-0.0008	0.0001	-0.649e-03
	Ka.C.18	-0.0002	0.0001	-0.662e-03
	Ka.C.19	-0.0006	0.0002	-1.425e-03
	Ka.C.20	-0.0001	0.0003	-1.437e-03
	Ka.C.21	-0.0007	0.0002	-1.363e-03
	Ka.C.22	-0.0002	0.0002	-1.376e-03
	Ka.C.23	-0.0007	0.0003	-1.050e-03
	Ka.C.24	-0.0005	0.0002	-0.694e-03
	Ka.C.25	-0.0007	0.0003	-0.987e-03
	Ka.C.26	-0.0006	0.0002	-0.631e-03
	Ka.C.27	-0.0006	0.0004	-1.768e-03
	Ka.C.28	-0.0005	0.0003	-1.410e-03
	Ka.C.29	-0.0007	0.0004	-1.704e-03
	Ka.C.30	-0.0006	0.0003	-1.346e-03
	Ka.C.31	-0.0002	0.0009	-1.297e-03
	Ka.C.32	-0.0001	0.0008	-0.941e-03
	Ka.C.33	-0.0001	-0.0002	-1.473e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K2	Ka.C.34	0.0000	-0.0003	-1.116e-03
	Ka.C.35	-0.0007	0.0005	-2.115e-03
K3	Ka.C.(w1)	-0.0020	0.0002	-0.943e-03
	Ka.C.1	-0.0020	0.0002	-0.943e-03
	Ka.C.2	-0.0020	0.0003	-1.056e-03
	Ka.C.3	-0.0020	0.0003	-1.226e-03
	Ka.C.4	-0.0020	0.0003	-1.306e-03
	Ka.C.5	-0.0019	0.0003	-1.321e-03
	Ka.C.6	-0.0019	0.0003	-1.285e-03
	Ka.C.7	-0.0018	0.0003	-1.212e-03
	Ka.C.8	-0.0018	0.0002	-1.114e-03
	Ka.C.9	-0.0019	0.0002	-1.002e-03
	Ka.C.10	-0.0020	0.0002	-0.891e-03
	Ka.C.11	-0.0023	0.0002	-0.786e-03
	Ka.C.12	-0.0020	0.0002	-0.943e-03
	Ka.C.13	-0.0020	0.0002	-0.943e-03
	Ka.C.14	-0.0020	0.0002	-0.943e-03
	Ka.C.15	-0.0011	0.0001	0.490e-03
	Ka.C.16	-0.0006	0.0001	0.465e-03
	Ka.C.17	-0.0012	0.0001	0.191e-03
	Ka.C.18	-0.0007	0.0001	0.165e-03
	Ka.C.19	-0.0015	0.0002	1.010e-03
	Ka.C.20	-0.0009	0.0002	0.986e-03
	Ka.C.21	-0.0016	0.0002	0.708e-03
	Ka.C.22	-0.0011	0.0002	0.684e-03
	Ka.C.23	-0.0023	0.0002	-1.752e-03
	Ka.C.24	-0.0018	0.0002	-1.480e-03
	Ka.C.25	-0.0024	0.0002	-2.053e-03
	Ka.C.26	-0.0019	0.0002	-1.780e-03
	Ka.C.27	-0.0027	0.0003	-1.240e-03
	Ka.C.28	-0.0021	0.0003	-0.969e-03
	Ka.C.29	-0.0028	0.0003	-1.543e-03
	Ka.C.30	-0.0023	0.0003	-1.271e-03
	Ka.C.31	-0.0024	0.0008	-2.482e-03
	Ka.C.32	-0.0018	0.0007	-2.205e-03
	Ka.C.33	-0.0022	-0.0002	-1.979e-03
	Ka.C.34	-0.0017	-0.0003	-1.709e-03
	Ka.C.35	-0.0033	0.0004	-1.589e-03
K15	Ka.C.(w1)	-0.0020	0.0022	-1.514e-03
	Ka.C.1	-0.0020	0.0022	-1.514e-03
	Ka.C.2	-0.0020	0.0025	-1.707e-03
	Ka.C.3	-0.0020	0.0028	-1.966e-03
	Ka.C.4	-0.0020	0.0029	-2.046e-03
	Ka.C.5	-0.0019	0.0029	-2.040e-03
	Ka.C.6	-0.0019	0.0028	-1.980e-03
	Ka.C.7	-0.0018	0.0027	-1.874e-03
	Ka.C.8	-0.0018	0.0025	-1.742e-03
	Ka.C.9	-0.0019	0.0023	-1.593e-03
	Ka.C.10	-0.0021	0.0021	-1.447e-03
	Ka.C.11	-0.0023	0.0019	-1.310e-03
	Ka.C.12	-0.0020	0.0022	-1.514e-03
	Ka.C.13	-0.0020	0.0022	-1.514e-03
	Ka.C.14	-0.0020	0.0022	-1.514e-03
	Ka.C.15	-0.0011	0.0007	-0.489e-03
	Ka.C.16	-0.0006	0.0007	-0.509e-03
	Ka.C.17	-0.0013	0.0007	-0.522e-03
	Ka.C.18	-0.0007	0.0008	-0.542e-03
	Ka.C.19	-0.0015	0.0015	-1.011e-03
	Ka.C.20	-0.0010	0.0015	-1.031e-03
	Ka.C.21	-0.0017	0.0015	-1.045e-03
	Ka.C.22	-0.0011	0.0016	-1.064e-03
	Ka.C.23	-0.0023	0.0023	-1.565e-03
	Ka.C.24	-0.0017	0.0016	-1.141e-03
	Ka.C.25	-0.0024	0.0023	-1.598e-03
	Ka.C.26	-0.0019	0.0017	-1.173e-03
	Ka.C.27	-0.0027	0.0030	-2.092e-03
	Ka.C.28	-0.0022	0.0024	-1.666e-03
	Ka.C.29	-0.0028	0.0031	-2.125e-03
	Ka.C.30	-0.0023	0.0024	-1.699e-03
	Ka.C.31	-0.0023	0.0034	-2.025e-03
	Ka.C.32	-0.0018	0.0028	-1.600e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K15	Ka.C.33	-0.0022	0.0023	-1.934e-03
	Ka.C.34	-0.0017	0.0017	-1.510e-03
	Ka.C.35	-0.0033	0.0037	-2.532e-03
K16	Ka.C.(w1)	-0.0005	0.0040	-1.070e-03
	Ka.C.1	-0.0005	0.0040	-1.070e-03
	Ka.C.2	-0.0003	0.0046	-0.315e-03
	Ka.C.3	-0.0001	0.0052	-2.193e-03
	Ka.C.4	0.0001	0.0054	-1.375e-03
	Ka.C.5	0.0002	0.0054	-1.616e-03
	Ka.C.6	0.0002	0.0052	-1.500e-03
	Ka.C.7	0.0001	0.0049	-1.417e-03
	Ka.C.8	-0.0001	0.0046	-1.286e-03
	Ka.C.9	-0.0003	0.0042	-1.145e-03
	Ka.C.10	-0.0006	0.0038	-1.006e-03
	Ka.C.11	-0.0010	0.0035	-0.875e-03
	Ka.C.12	-0.0005	0.0040	-1.070e-03
	Ka.C.13	-0.0005	0.0040	-1.070e-03
	Ka.C.14	-0.0005	0.0040	-1.070e-03
	Ka.C.15	-0.0007	0.0012	-0.561e-03
	Ka.C.16	-0.0002	0.0013	-0.580e-03
	Ka.C.17	-0.0008	0.0013	-0.587e-03
	Ka.C.18	-0.0002	0.0014	-0.605e-03
	Ka.C.19	-0.0007	0.0027	-0.925e-03
	Ka.C.20	-0.0001	0.0027	-0.943e-03
	Ka.C.21	-0.0007	0.0028	-0.951e-03
	Ka.C.22	-0.0002	0.0028	-0.969e-03
	Ka.C.23	-0.0007	0.0042	-1.109e-03
	Ka.C.24	-0.0006	0.0030	-0.810e-03
	Ka.C.25	-0.0007	0.0042	-1.134e-03
	Ka.C.26	-0.0006	0.0031	-0.835e-03
	Ka.C.27	-0.0006	0.0056	-1.477e-03
	Ka.C.28	-0.0005	0.0044	-1.176e-03
	Ka.C.29	-0.0007	0.0056	-1.501e-03
	Ka.C.30	-0.0006	0.0045	-1.201e-03
	Ka.C.31	-0.0003	0.0058	-1.414e-03
	Ka.C.32	-0.0002	0.0047	-1.114e-03
	Ka.C.33	-0.0002	0.0046	-1.422e-03
	Ka.C.34	-0.0001	0.0035	-1.124e-03
	Ka.C.35	-0.0008	0.0067	-1.785e-03
K17	Ka.C.(w1)	-0.0017	0.0054	-1.034e-03
	Ka.C.1	-0.0017	0.0054	-1.034e-03
	Ka.C.2	-0.0017	0.0061	-1.099e-03
	Ka.C.3	-0.0017	0.0070	-1.298e-03
	Ka.C.4	-0.0017	0.0074	-1.466e-03
	Ka.C.5	-0.0016	0.0074	-1.489e-03
	Ka.C.6	-0.0016	0.0071	-1.440e-03
	Ka.C.7	-0.0016	0.0067	-1.353e-03
	Ka.C.8	-0.0016	0.0062	-1.236e-03
	Ka.C.9	-0.0017	0.0057	-1.104e-03
	Ka.C.10	-0.0018	0.0052	-0.975e-03
	Ka.C.11	-0.0021	0.0046	-0.855e-03
	Ka.C.12	-0.0017	0.0054	-1.034e-03
	Ka.C.13	-0.0017	0.0054	-1.034e-03
	Ka.C.14	-0.0017	0.0054	-1.034e-03
	Ka.C.15	-0.0012	0.0017	-0.349e-03
	Ka.C.16	-0.0006	0.0018	-0.365e-03
	Ka.C.17	-0.0013	0.0018	-0.363e-03
	Ka.C.18	-0.0007	0.0019	-0.380e-03
	Ka.C.19	-0.0015	0.0037	-0.739e-03
	Ka.C.20	-0.0010	0.0038	-0.755e-03
	Ka.C.21	-0.0016	0.0038	-0.754e-03
	Ka.C.22	-0.0011	0.0039	-0.770e-03
	Ka.C.23	-0.0020	0.0056	-1.044e-03
	Ka.C.24	-0.0015	0.0040	-0.749e-03
	Ka.C.25	-0.0021	0.0057	-1.058e-03
	Ka.C.26	-0.0016	0.0041	-0.763e-03
	Ka.C.27	-0.0024	0.0075	-1.438e-03
	Ka.C.28	-0.0019	0.0060	-1.142e-03
	Ka.C.29	-0.0025	0.0076	-1.452e-03
	Ka.C.30	-0.0020	0.0061	-1.156e-03
	Ka.C.31	-0.0020	0.0076	-1.295e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K17	Ka.C.32	-0.0015	0.0060	-1.000e-03
	Ka.C.33	-0.0019	0.0065	-1.345e-03
	Ka.C.34	-0.0014	0.0049	-1.050e-03
	Ka.C.35	-0.0029	0.0091	-1.740e-03
K18	Ka.C.(w1)	-0.0007	0.0066	-0.802e-03
	Ka.C.1	-0.0007	0.0066	-0.802e-03
	Ka.C.2	-0.0005	0.0073	-1.053e-03
	Ka.C.3	-0.0003	0.0085	-0.234e-03
	Ka.C.4	-0.0002	0.0091	-1.843e-03
	Ka.C.5	-0.0001	0.0091	-1.018e-03
	Ka.C.6	-0.0001	0.0088	-1.210e-03
	Ka.C.7	-0.0001	0.0083	-1.076e-03
	Ka.C.8	-0.0003	0.0077	-0.988e-03
	Ka.C.9	-0.0005	0.0070	-0.865e-03
	Ka.C.10	-0.0008	0.0063	-0.750e-03
	Ka.C.11	-0.0012	0.0056	-0.643e-03
	Ka.C.12	-0.0007	0.0066	-0.802e-03
	Ka.C.13	-0.0007	0.0066	-0.802e-03
	Ka.C.14	-0.0007	0.0066	-0.802e-03
	Ka.C.15	-0.0008	0.0021	-0.239e-03
	Ka.C.16	-0.0003	0.0022	-0.252e-03
	Ka.C.17	-0.0009	0.0023	-0.245e-03
	Ka.C.18	-0.0003	0.0023	-0.258e-03
	Ka.C.19	-0.0008	0.0045	-0.560e-03
	Ka.C.20	-0.0003	0.0046	-0.571e-03
	Ka.C.21	-0.0009	0.0047	-0.566e-03
	Ka.C.22	-0.0004	0.0047	-0.577e-03
	Ka.C.23	-0.0009	0.0067	-0.794e-03
	Ka.C.24	-0.0007	0.0049	-0.564e-03
	Ka.C.25	-0.0009	0.0069	-0.798e-03
	Ka.C.26	-0.0008	0.0050	-0.568e-03
	Ka.C.27	-0.0009	0.0091	-1.119e-03
	Ka.C.28	-0.0007	0.0073	-0.887e-03
	Ka.C.29	-0.0009	0.0092	-1.124e-03
	Ka.C.30	-0.0008	0.0074	-0.892e-03
	Ka.C.31	-0.0005	0.0090	-0.986e-03
	Ka.C.32	-0.0004	0.0072	-0.755e-03
	Ka.C.33	-0.0005	0.0080	-1.030e-03
	Ka.C.34	-0.0003	0.0061	-0.800e-03
K19	Ka.C.35	-0.0011	0.0111	-1.353e-03
	Ka.C.(w1)	-0.0014	0.0073	-0.451e-03
	Ka.C.1	-0.0014	0.0073	-0.451e-03
	Ka.C.2	-0.0013	0.0080	-0.457e-03
	Ka.C.3	-0.0013	0.0092	-0.512e-03
	Ka.C.4	-0.0012	0.0100	-0.649e-03
	Ka.C.5	-0.0012	0.0102	-0.764e-03
	Ka.C.6	-0.0012	0.0099	-0.758e-03
	Ka.C.7	-0.0012	0.0093	-0.693e-03
	Ka.C.8	-0.0012	0.0086	-0.609e-03
	Ka.C.9	-0.0013	0.0077	-0.506e-03
	Ka.C.10	-0.0015	0.0069	-0.407e-03
	Ka.C.11	-0.0018	0.0061	-0.317e-03
	Ka.C.12	-0.0014	0.0073	-0.451e-03
	Ka.C.13	-0.0014	0.0073	-0.451e-03
	Ka.C.14	-0.0014	0.0073	-0.451e-03
	Ka.C.15	-0.0011	0.0024	-0.188e-03
	Ka.C.16	-0.0006	0.0025	-0.196e-03
	Ka.C.17	-0.0012	0.0025	-0.187e-03
	Ka.C.18	-0.0007	0.0026	-0.196e-03
	Ka.C.19	-0.0014	0.0051	-0.377e-03
	Ka.C.20	-0.0009	0.0052	-0.386e-03
	Ka.C.21	-0.0015	0.0052	-0.378e-03
	Ka.C.22	-0.0010	0.0053	-0.386e-03
	Ka.C.23	-0.0016	0.0074	-0.436e-03
	Ka.C.24	-0.0012	0.0053	-0.307e-03
	Ka.C.25	-0.0017	0.0075	-0.435e-03
	Ka.C.26	-0.0013	0.0055	-0.306e-03
	Ka.C.27	-0.0019	0.0101	-0.629e-03
	Ka.C.28	-0.0015	0.0080	-0.499e-03
	Ka.C.29	-0.0020	0.0102	-0.628e-03
	Ka.C.30	-0.0016	0.0081	-0.498e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K19	Ka.C.31	-0.0015	0.0099	-0.544e-03
	Ka.C.32	-0.0011	0.0078	-0.415e-03
	Ka.C.33	-0.0015	0.0089	-0.594e-03
	Ka.C.34	-0.0011	0.0068	-0.465e-03
	Ka.C.35	-0.0023	0.0122	-0.757e-03
K20	Ka.C.(w1)	-0.0009	0.0077	-0.131e-03
	Ka.C.1	-0.0009	0.0077	-0.131e-03
	Ka.C.2	-0.0008	0.0084	-0.068e-03
	Ka.C.3	-0.0007	0.0097	-0.308e-03
	Ka.C.4	-0.0005	0.0107	0.518e-03
	Ka.C.5	-0.0004	0.0110	-1.034e-03
	Ka.C.6	-0.0004	0.0107	-0.189e-03
	Ka.C.7	-0.0004	0.0100	-0.371e-03
	Ka.C.8	-0.0006	0.0092	-0.248e-03
	Ka.C.9	-0.0008	0.0082	-0.180e-03
	Ka.C.10	-0.0011	0.0073	-0.097e-03
	Ka.C.11	-0.0014	0.0064	-0.027e-03
	Ka.C.12	-0.0009	0.0077	-0.131e-03
	Ka.C.13	-0.0009	0.0077	-0.131e-03
	Ka.C.14	-0.0009	0.0077	-0.131e-03
	Ka.C.15	-0.0009	0.0026	-0.086e-03
	Ka.C.16	-0.0004	0.0027	-0.096e-03
	Ka.C.17	-0.0010	0.0027	-0.081e-03
	Ka.C.18	-0.0005	0.0028	-0.091e-03
	Ka.C.19	-0.0011	0.0055	-0.158e-03
	Ka.C.20	-0.0005	0.0056	-0.168e-03
	Ka.C.21	-0.0011	0.0056	-0.153e-03
	Ka.C.22	-0.0006	0.0057	-0.163e-03
	Ka.C.23	-0.0011	0.0078	-0.111e-03
	Ka.C.24	-0.0009	0.0056	-0.072e-03
	Ka.C.25	-0.0012	0.0080	-0.105e-03
	Ka.C.26	-0.0010	0.0058	-0.066e-03
	Ka.C.27	-0.0012	0.0107	-0.186e-03
	Ka.C.28	-0.0010	0.0085	-0.146e-03
	Ka.C.29	-0.0013	0.0108	-0.180e-03
	Ka.C.30	-0.0011	0.0086	-0.141e-03
	Ka.C.31	-0.0009	0.0104	-0.134e-03
	Ka.C.32	-0.0007	0.0082	-0.096e-03
	Ka.C.33	-0.0008	0.0095	-0.199e-03
	Ka.C.34	-0.0006	0.0073	-0.161e-03
	Ka.C.35	-0.0015	0.0129	-0.220e-03
K21	Ka.C.(w1)	-0.0011	0.0077	0.128e-03
	Ka.C.1	-0.0011	0.0077	0.128e-03
	Ka.C.2	-0.0010	0.0084	0.148e-03
	Ka.C.3	-0.0008	0.0096	0.181e-03
	Ka.C.4	-0.0007	0.0106	0.175e-03
	Ka.C.5	-0.0007	0.0111	0.071e-03
	Ka.C.6	-0.0007	0.0109	-0.025e-03
	Ka.C.7	-0.0008	0.0102	-0.016e-03
	Ka.C.8	-0.0008	0.0093	0.034e-03
	Ka.C.9	-0.0010	0.0082	0.093e-03
	Ka.C.10	-0.0012	0.0072	0.151e-03
	Ka.C.11	-0.0015	0.0062	0.199e-03
	Ka.C.12	-0.0011	0.0077	0.128e-03
	Ka.C.13	-0.0011	0.0077	0.128e-03
	Ka.C.14	-0.0011	0.0077	0.128e-03
	Ka.C.15	-0.0011	0.0026	0.016e-03
	Ka.C.16	-0.0005	0.0028	0.009e-03
	Ka.C.17	-0.0011	0.0027	0.025e-03
	Ka.C.18	-0.0006	0.0029	0.018e-03
	Ka.C.19	-0.0012	0.0055	0.040e-03
	Ka.C.20	-0.0007	0.0057	0.034e-03
	Ka.C.21	-0.0013	0.0056	0.048e-03
	Ka.C.22	-0.0008	0.0058	0.042e-03
	Ka.C.23	-0.0012	0.0077	0.151e-03
	Ka.C.24	-0.0010	0.0056	0.118e-03
	Ka.C.25	-0.0013	0.0079	0.161e-03
	Ka.C.26	-0.0010	0.0057	0.127e-03
	Ka.C.27	-0.0014	0.0106	0.172e-03
	Ka.C.28	-0.0012	0.0085	0.139e-03
	Ka.C.29	-0.0015	0.0107	0.182e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K21	Ka.C.30	-0.0012	0.0086	0.148e-03
	Ka.C.31	-0.0010	0.0103	0.196e-03
	Ka.C.32	-0.0008	0.0081	0.162e-03
	Ka.C.33	-0.0010	0.0094	0.123e-03
	Ka.C.34	-0.0008	0.0073	0.089e-03
	Ka.C.35	-0.0018	0.0129	0.212e-03
K22	Ka.C.(w1)	-0.0012	0.0074	0.382e-03
	Ka.C.1	-0.0012	0.0074	0.382e-03
	Ka.C.2	-0.0011	0.0081	0.404e-03
	Ka.C.3	-0.0010	0.0093	0.520e-03
	Ka.C.4	-0.0009	0.0102	0.330e-03
	Ka.C.5	-0.0008	0.0108	1.175e-03
	Ka.C.6	-0.0008	0.0108	-0.358e-03
	Ka.C.7	-0.0008	0.0101	0.477e-03
	Ka.C.8	-0.0009	0.0091	0.280e-03
	Ka.C.9	-0.0011	0.0080	0.371e-03
	Ka.C.10	-0.0013	0.0069	0.389e-03
	Ka.C.11	-0.0017	0.0059	0.416e-03
	Ka.C.12	-0.0012	0.0074	0.382e-03
	Ka.C.13	-0.0012	0.0074	0.382e-03
	Ka.C.14	-0.0012	0.0074	0.382e-03
	Ka.C.15	-0.0011	0.0026	-0.050e-03
	Ka.C.16	-0.0005	0.0027	0.016e-03
	Ka.C.17	-0.0011	0.0027	-0.039e-03
	Ka.C.18	-0.0006	0.0028	0.027e-03
	Ka.C.19	-0.0013	0.0054	0.071e-03
	Ka.C.20	-0.0008	0.0055	0.137e-03
	Ka.C.21	-0.0014	0.0055	0.082e-03
	Ka.C.22	-0.0009	0.0056	0.149e-03
	Ka.C.23	-0.0014	0.0074	0.406e-03
	Ka.C.24	-0.0011	0.0053	0.300e-03
	Ka.C.25	-0.0014	0.0075	0.418e-03
	Ka.C.26	-0.0011	0.0054	0.312e-03
	Ka.C.27	-0.0016	0.0103	0.526e-03
	Ka.C.28	-0.0013	0.0081	0.420e-03
	Ka.C.29	-0.0017	0.0104	0.538e-03
	Ka.C.30	-0.0014	0.0082	0.432e-03
	Ka.C.31	-0.0013	0.0099	0.517e-03
	Ka.C.32	-0.0009	0.0078	0.410e-03
	Ka.C.33	-0.0012	0.0091	0.440e-03
	Ka.C.34	-0.0009	0.0070	0.333e-03
	Ka.C.35	-0.0020	0.0124	0.641e-03
K23	Ka.C.(w1)	-0.0008	0.0067	0.598e-03
	Ka.C.1	-0.0008	0.0067	0.598e-03
	Ka.C.2	-0.0007	0.0073	0.647e-03
	Ka.C.3	-0.0005	0.0085	0.723e-03
	Ka.C.4	-0.0004	0.0093	0.784e-03
	Ka.C.5	-0.0003	0.0099	0.794e-03
	Ka.C.6	-0.0003	0.0100	0.696e-03
	Ka.C.7	-0.0004	0.0095	0.594e-03
	Ka.C.8	-0.0005	0.0085	0.577e-03
	Ka.C.9	-0.0007	0.0073	0.590e-03
	Ka.C.10	-0.0009	0.0062	0.594e-03
	Ka.C.11	-0.0013	0.0052	0.591e-03
	Ka.C.12	-0.0008	0.0067	0.598e-03
	Ka.C.13	-0.0008	0.0067	0.598e-03
	Ka.C.14	-0.0008	0.0067	0.598e-03
	Ka.C.15	-0.0010	0.0023	0.233e-03
	Ka.C.16	-0.0005	0.0025	0.209e-03
	Ka.C.17	-0.0011	0.0024	0.246e-03
	Ka.C.18	-0.0005	0.0026	0.222e-03
	Ka.C.19	-0.0011	0.0049	0.441e-03
	Ka.C.20	-0.0006	0.0051	0.417e-03
	Ka.C.21	-0.0012	0.0050	0.453e-03
	Ka.C.22	-0.0006	0.0052	0.430e-03
	Ka.C.23	-0.0009	0.0067	0.620e-03
	Ka.C.24	-0.0007	0.0048	0.453e-03
	Ka.C.25	-0.0010	0.0068	0.634e-03
	Ka.C.26	-0.0008	0.0049	0.466e-03
	Ka.C.27	-0.0011	0.0093	0.826e-03
	Ka.C.28	-0.0009	0.0074	0.658e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K23	Ka.C.29	-0.0011	0.0094	0.839e-03
	Ka.C.30	-0.0009	0.0075	0.672e-03
	Ka.C.31	-0.0007	0.0090	0.788e-03
	Ka.C.32	-0.0005	0.0071	0.620e-03
	Ka.C.33	-0.0007	0.0084	0.708e-03
	Ka.C.34	-0.0005	0.0065	0.540e-03
K24	Ka.C.35	-0.0013	0.0113	1.002e-03
	Ka.C.(w1)	-0.0014	0.0059	0.784e-03
	Ka.C.1	-0.0014	0.0059	0.784e-03
	Ka.C.2	-0.0013	0.0065	0.847e-03
	Ka.C.3	-0.0013	0.0075	0.930e-03
	Ka.C.4	-0.0012	0.0083	1.064e-03
	Ka.C.5	-0.0011	0.0088	0.884e-03
	Ka.C.6	-0.0011	0.0090	1.719e-03
	Ka.C.7	-0.0011	0.0086	0.188e-03
	Ka.C.8	-0.0011	0.0077	0.982e-03
	Ka.C.9	-0.0013	0.0065	0.749e-03
	Ka.C.10	-0.0015	0.0054	0.778e-03
	Ka.C.11	-0.0018	0.0044	0.730e-03
	Ka.C.12	-0.0014	0.0059	0.784e-03
	Ka.C.13	-0.0014	0.0059	0.784e-03
	Ka.C.14	-0.0014	0.0059	0.784e-03
	Ka.C.15	-0.0012	0.0020	0.385e-03
	Ka.C.16	-0.0007	0.0022	0.328e-03
	Ka.C.17	-0.0012	0.0021	0.398e-03
	Ka.C.18	-0.0007	0.0022	0.341e-03
	Ka.C.19	-0.0015	0.0043	0.670e-03
	Ka.C.20	-0.0010	0.0045	0.613e-03
	Ka.C.21	-0.0016	0.0044	0.683e-03
	Ka.C.22	-0.0011	0.0045	0.626e-03
	Ka.C.23	-0.0015	0.0059	0.803e-03
	Ka.C.24	-0.0012	0.0042	0.582e-03
	Ka.C.25	-0.0016	0.0060	0.817e-03
	Ka.C.26	-0.0012	0.0043	0.596e-03
	Ka.C.27	-0.0019	0.0082	1.086e-03
	Ka.C.28	-0.0015	0.0065	0.865e-03
	Ka.C.29	-0.0020	0.0083	1.100e-03
	Ka.C.30	-0.0016	0.0066	0.879e-03
	Ka.C.31	-0.0015	0.0080	1.024e-03
	Ka.C.32	-0.0011	0.0063	0.802e-03
	Ka.C.33	-0.0014	0.0074	0.941e-03
	Ka.C.34	-0.0011	0.0057	0.720e-03
	Ka.C.35	-0.0023	0.0099	1.317e-03
K25	Ka.C.(w1)	-0.0007	0.0048	0.856e-03
	Ka.C.1	-0.0007	0.0048	0.856e-03
	Ka.C.2	-0.0006	0.0053	0.922e-03
	Ka.C.3	-0.0003	0.0062	1.036e-03
	Ka.C.4	-0.0002	0.0069	1.124e-03
	Ka.C.5	-0.0001	0.0074	1.184e-03
	Ka.C.6	0.0000	0.0076	1.183e-03
	Ka.C.7	-0.0001	0.0073	1.062e-03
	Ka.C.8	-0.0003	0.0065	0.934e-03
	Ka.C.9	-0.0005	0.0054	0.879e-03
	Ka.C.10	-0.0009	0.0044	0.825e-03
	Ka.C.11	-0.0012	0.0035	0.759e-03
	Ka.C.12	-0.0007	0.0048	0.856e-03
	Ka.C.13	-0.0007	0.0048	0.856e-03
	Ka.C.14	-0.0007	0.0048	0.856e-03
	Ka.C.15	-0.0011	0.0015	0.369e-03
	Ka.C.16	-0.0005	0.0018	0.340e-03
	Ka.C.17	-0.0011	0.0016	0.382e-03
	Ka.C.18	-0.0005	0.0018	0.352e-03
	Ka.C.19	-0.0012	0.0035	0.689e-03
	Ka.C.20	-0.0006	0.0037	0.658e-03
	Ka.C.21	-0.0012	0.0035	0.700e-03
	Ka.C.22	-0.0006	0.0037	0.670e-03
	Ka.C.23	-0.0008	0.0048	0.869e-03
	Ka.C.24	-0.0006	0.0034	0.628e-03
	Ka.C.25	-0.0009	0.0049	0.882e-03
	Ka.C.26	-0.0007	0.0035	0.641e-03
	Ka.C.27	-0.0009	0.0067	1.187e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K25	Ka.C.28	-0.0007	0.0054	0.945e-03
	Ka.C.29	-0.0010	0.0068	1.200e-03
	Ka.C.30	-0.0008	0.0054	0.957e-03
	Ka.C.31	-0.0005	0.0066	1.120e-03
	Ka.C.32	-0.0004	0.0052	0.878e-03
	Ka.C.33	-0.0006	0.0061	1.039e-03
	Ka.C.34	-0.0004	0.0047	0.797e-03
K26	Ka.C.35	-0.0011	0.0081	1.437e-03
	Ka.C.(w1)	-0.0014	0.0038	0.836e-03
	Ka.C.1	-0.0014	0.0038	0.836e-03
	Ka.C.2	-0.0014	0.0042	0.907e-03
	Ka.C.3	-0.0014	0.0049	1.038e-03
	Ka.C.4	-0.0013	0.0055	1.126e-03
	Ka.C.5	-0.0013	0.0059	1.249e-03
	Ka.C.6	-0.0013	0.0060	1.053e-03
	Ka.C.7	-0.0012	0.0059	1.846e-03
	Ka.C.8	-0.0013	0.0054	0.303e-03
	Ka.C.9	-0.0014	0.0043	1.038e-03
	Ka.C.10	-0.0015	0.0034	0.740e-03
	Ka.C.11	-0.0018	0.0025	0.696e-03
	Ka.C.12	-0.0014	0.0038	0.836e-03
	Ka.C.13	-0.0014	0.0038	0.836e-03
	Ka.C.14	-0.0014	0.0038	0.836e-03
	Ka.C.15	-0.0012	0.0011	0.306e-03
	Ka.C.16	-0.0007	0.0013	0.310e-03
	Ka.C.17	-0.0012	0.0011	0.316e-03
	Ka.C.18	-0.0008	0.0014	0.321e-03
	Ka.C.19	-0.0016	0.0026	0.624e-03
	Ka.C.20	-0.0011	0.0028	0.627e-03
	Ka.C.21	-0.0016	0.0026	0.634e-03
	Ka.C.22	-0.0012	0.0029	0.638e-03
	Ka.C.23	-0.0016	0.0037	0.845e-03
	Ka.C.24	-0.0012	0.0027	0.607e-03
	Ka.C.25	-0.0016	0.0038	0.856e-03
	Ka.C.26	-0.0012	0.0027	0.618e-03
	Ka.C.27	-0.0020	0.0052	1.162e-03
	Ka.C.28	-0.0016	0.0042	0.923e-03
	Ka.C.29	-0.0020	0.0053	1.174e-03
	Ka.C.30	-0.0016	0.0042	0.934e-03
	Ka.C.31	-0.0016	0.0051	1.111e-03
	Ka.C.32	-0.0012	0.0041	0.872e-03
	Ka.C.33	-0.0015	0.0048	1.032e-03
	Ka.C.34	-0.0011	0.0037	0.794e-03
	Ka.C.35	-0.0024	0.0063	1.406e-03
K27	Ka.C.(w1)	-0.0008	0.0028	0.683e-03
	Ka.C.1	-0.0008	0.0028	0.683e-03
	Ka.C.2	-0.0007	0.0031	0.759e-03
	Ka.C.3	-0.0004	0.0036	0.891e-03
	Ka.C.4	-0.0002	0.0041	1.002e-03
	Ka.C.5	-0.0001	0.0044	1.074e-03
	Ka.C.6	-0.0001	0.0046	1.106e-03
	Ka.C.7	-0.0002	0.0045	1.069e-03
	Ka.C.8	-0.0004	0.0041	0.906e-03
	Ka.C.9	-0.0006	0.0033	0.734e-03
	Ka.C.10	-0.0010	0.0025	0.607e-03
	Ka.C.11	-0.0015	0.0018	0.471e-03
	Ka.C.12	-0.0008	0.0028	0.683e-03
	Ka.C.13	-0.0008	0.0028	0.683e-03
	Ka.C.14	-0.0008	0.0028	0.683e-03
	Ka.C.15	-0.0013	0.0008	0.159e-03
	Ka.C.16	-0.0006	0.0010	0.213e-03
	Ka.C.17	-0.0013	0.0008	0.167e-03
	Ka.C.18	-0.0007	0.0010	0.221e-03
	Ka.C.19	-0.0014	0.0019	0.423e-03
	Ka.C.20	-0.0008	0.0021	0.477e-03
	Ka.C.21	-0.0015	0.0019	0.431e-03
	Ka.C.22	-0.0008	0.0022	0.485e-03
	Ka.C.23	-0.0009	0.0028	0.688e-03
	Ka.C.24	-0.0007	0.0020	0.491e-03
	Ka.C.25	-0.0010	0.0028	0.697e-03
	Ka.C.26	-0.0008	0.0020	0.500e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K27	Ka.C.27	-0.0011	0.0039	0.952e-03
	Ka.C.28	-0.0009	0.0031	0.754e-03
	Ka.C.29	-0.0011	0.0039	0.961e-03
	Ka.C.30	-0.0009	0.0031	0.763e-03
	Ka.C.31	-0.0006	0.0038	0.943e-03
	Ka.C.32	-0.0004	0.0030	0.746e-03
	Ka.C.33	-0.0007	0.0036	0.868e-03
	Ka.C.34	-0.0005	0.0028	0.671e-03
K29	Ka.C.35	-0.0013	0.0047	1.150e-03
	Ka.C.(w1)	-0.0012	0.0012	0.828e-03
	Ka.C.1	-0.0012	0.0012	0.828e-03
	Ka.C.2	-0.0011	0.0013	0.912e-03
	Ka.C.3	-0.0008	0.0015	1.063e-03
	Ka.C.4	-0.0006	0.0016	1.190e-03
	Ka.C.5	-0.0005	0.0017	1.282e-03
	Ka.C.6	-0.0005	0.0018	1.324e-03
	Ka.C.7	-0.0005	0.0018	1.315e-03
	Ka.C.8	-0.0007	0.0017	1.236e-03
	Ka.C.9	-0.0010	0.0014	1.002e-03
	Ka.C.10	-0.0015	0.0011	0.744e-03
	Ka.C.11	-0.0020	0.0008	0.549e-03
	Ka.C.12	-0.0012	0.0012	0.828e-03
	Ka.C.13	-0.0012	0.0012	0.828e-03
	Ka.C.14	-0.0012	0.0012	0.828e-03
	Ka.C.15	-0.0017	0.0005	0.283e-03
	Ka.C.16	-0.0010	0.0005	0.335e-03
	Ka.C.17	-0.0018	0.0005	0.285e-03
	Ka.C.18	-0.0010	0.0005	0.337e-03
	Ka.C.19	-0.0021	0.0010	0.623e-03
	Ka.C.20	-0.0013	0.0010	0.673e-03
	Ka.C.21	-0.0021	0.0010	0.624e-03
	Ka.C.22	-0.0013	0.0010	0.675e-03
	Ka.C.23	-0.0013	0.0011	0.810e-03
	Ka.C.24	-0.0010	0.0008	0.576e-03
	Ka.C.25	-0.0014	0.0011	0.813e-03
	Ka.C.26	-0.0011	0.0008	0.579e-03
	Ka.C.27	-0.0017	0.0016	1.150e-03
	Ka.C.28	-0.0014	0.0013	0.914e-03
	Ka.C.29	-0.0017	0.0016	1.152e-03
	Ka.C.30	-0.0014	0.0013	0.916e-03
	Ka.C.31	-0.0011	0.0016	1.123e-03
	Ka.C.32	-0.0008	0.0012	0.888e-03
	Ka.C.33	-0.0012	0.0015	1.056e-03
	Ka.C.34	-0.0008	0.0011	0.822e-03
	Ka.C.35	-0.0020	0.0020	1.382e-03
K30	Ka.C.(w1)	-0.0008	0.0007	-0.387e-03
	Ka.C.1	-0.0008	0.0007	-0.387e-03
	Ka.C.2	-0.0008	0.0007	-0.309e-03
	Ka.C.3	-0.0007	0.0007	-0.170e-03
	Ka.C.4	-0.0007	0.0007	-0.056e-03
	Ka.C.5	-0.0007	0.0007	0.027e-03
	Ka.C.6	-0.0007	0.0007	0.045e-03
	Ka.C.7	-0.0007	0.0007	0.075e-03
	Ka.C.8	-0.0007	0.0007	-0.223e-03
	Ka.C.9	-0.0008	0.0007	0.423e-03
	Ka.C.10	-0.0008	0.0007	-1.217e-03
	Ka.C.11	-0.0009	0.0007	-0.602e-03
	Ka.C.12	-0.0008	0.0007	-0.387e-03
	Ka.C.13	-0.0008	0.0007	-0.387e-03
	Ka.C.14	-0.0008	0.0007	-0.387e-03
	Ka.C.15	-0.0006	0.0006	-0.818e-03
	Ka.C.16	-0.0004	0.0004	-0.456e-03
	Ka.C.17	-0.0006	0.0006	-0.823e-03
	Ka.C.18	-0.0004	0.0004	-0.461e-03
	Ka.C.19	-0.0008	0.0009	-0.947e-03
	Ka.C.20	-0.0006	0.0007	-0.586e-03
	Ka.C.21	-0.0008	0.0009	-0.953e-03
	Ka.C.22	-0.0006	0.0007	-0.592e-03
	Ka.C.23	-0.0008	0.0006	-0.396e-03
	Ka.C.24	-0.0006	0.0005	-0.297e-03
	Ka.C.25	-0.0009	0.0006	-0.400e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K30	Ka.C.26	-0.0007	0.0005	-0.302e-03
	Ka.C.27	-0.0010	0.0009	-0.524e-03
	Ka.C.28	-0.0008	0.0007	-0.428e-03
	Ka.C.29	-0.0011	0.0009	-0.528e-03
	Ka.C.30	-0.0009	0.0007	-0.432e-03
	Ka.C.31	-0.0009	0.0008	-0.274e-03
	Ka.C.32	-0.0007	0.0006	-0.177e-03
	Ka.C.33	-0.0008	0.0008	-0.329e-03
	Ka.C.34	-0.0006	0.0006	-0.231e-03
	Ka.C.35	-0.0013	0.0011	-0.642e-03
K31	Ka.C.(w1)	-0.0020	0.0022	-1.644e-03
	Ka.C.1	-0.0020	0.0022	-1.644e-03
	Ka.C.2	-0.0019	0.0021	-1.571e-03
	Ka.C.3	-0.0016	0.0019	-1.444e-03
	Ka.C.4	-0.0014	0.0018	-1.339e-03
	Ka.C.5	-0.0013	0.0017	-1.272e-03
	Ka.C.6	-0.0012	0.0017	-1.251e-03
	Ka.C.7	-0.0013	0.0017	-1.286e-03
	Ka.C.8	-0.0015	0.0018	-1.390e-03
	Ka.C.9	-0.0018	0.0021	-1.555e-03
	Ka.C.10	-0.0023	0.0024	-1.850e-03
	Ka.C.11	-0.0029	0.0029	-2.201e-03
	Ka.C.12	-0.0020	0.0022	-1.644e-03
	Ka.C.13	-0.0020	0.0022	-1.644e-03
	Ka.C.14	-0.0020	0.0022	-1.644e-03
	Ka.C.15	-0.0025	0.0025	-1.963e-03
	Ka.C.16	-0.0015	0.0017	-1.277e-03
	Ka.C.17	-0.0025	0.0026	-1.974e-03
	Ka.C.18	-0.0015	0.0017	-1.289e-03
	Ka.C.19	-0.0031	0.0034	-2.581e-03
	Ka.C.20	-0.0021	0.0025	-1.897e-03
	Ka.C.21	-0.0032	0.0034	-2.592e-03
	Ka.C.22	-0.0022	0.0025	-1.908e-03
	Ka.C.23	-0.0021	0.0021	-1.639e-03
	Ka.C.24	-0.0016	0.0015	-1.196e-03
	Ka.C.25	-0.0021	0.0021	-1.650e-03
	Ka.C.26	-0.0016	0.0016	-1.207e-03
	Ka.C.27	-0.0027	0.0030	-2.254e-03
	Ka.C.28	-0.0022	0.0024	-1.814e-03
	Ka.C.29	-0.0028	0.0030	-2.265e-03
	Ka.C.30	-0.0023	0.0024	-1.825e-03
	Ka.C.31	-0.0020	0.0023	-1.717e-03
	Ka.C.32	-0.0015	0.0017	-1.275e-03
	Ka.C.33	-0.0020	0.0023	-1.762e-03
	Ka.C.34	-0.0015	0.0017	-1.319e-03
	Ka.C.35	-0.0033	0.0036	-2.734e-03
K32	Ka.C.(w1)	-0.0002	0.0040	-1.928e-03
	Ka.C.1	-0.0002	0.0040	-1.928e-03
	Ka.C.2	-0.0002	0.0038	-1.855e-03
	Ka.C.3	-0.0002	0.0035	-1.726e-03
	Ka.C.4	-0.0002	0.0032	-1.620e-03
	Ka.C.5	-0.0002	0.0030	-1.552e-03
	Ka.C.6	-0.0002	0.0030	-1.527e-03
	Ka.C.7	-0.0002	0.0031	-1.576e-03
	Ka.C.8	-0.0002	0.0033	-1.620e-03
	Ka.C.9	-0.0002	0.0037	-2.011e-03
	Ka.C.10	-0.0002	0.0045	-1.392e-03
	Ka.C.11	-0.0003	0.0054	-3.327e-03
	Ka.C.12	-0.0002	0.0040	-1.928e-03
	Ka.C.13	-0.0002	0.0040	-1.928e-03
	Ka.C.14	-0.0002	0.0040	-1.928e-03
	Ka.C.15	-0.0001	0.0048	-2.204e-03
	Ka.C.16	-0.0001	0.0031	-1.426e-03
	Ka.C.17	-0.0002	0.0048	-2.221e-03
	Ka.C.18	-0.0001	0.0031	-1.444e-03
	Ka.C.19	-0.0002	0.0063	-2.931e-03
	Ka.C.20	-0.0001	0.0046	-2.157e-03
	Ka.C.21	-0.0002	0.0063	-2.948e-03
	Ka.C.22	-0.0001	0.0046	-2.175e-03
	Ka.C.23	-0.0003	0.0040	-1.934e-03
	Ka.C.24	-0.0002	0.0029	-1.405e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K32	Ka.C.25	-0.0003	0.0040	-1.951e-03
	Ka.C.26	-0.0002	0.0029	-1.422e-03
	Ka.C.27	-0.0003	0.0055	-2.657e-03
	Ka.C.28	-0.0002	0.0044	-2.132e-03
	Ka.C.29	-0.0003	0.0055	-2.674e-03
	Ka.C.30	-0.0003	0.0044	-2.149e-03
	Ka.C.31	-0.0003	0.0042	-2.046e-03
	Ka.C.32	-0.0002	0.0031	-1.517e-03
	Ka.C.33	-0.0002	0.0043	-2.081e-03
	Ka.C.34	-0.0002	0.0032	-1.551e-03
	Ka.C.35	-0.0004	0.0067	-3.227e-03
K33	Ka.C.(w1)	-0.0023	0.0059	-1.542e-03
	Ka.C.1	-0.0023	0.0059	-1.542e-03
	Ka.C.2	-0.0022	0.0057	-1.468e-03
	Ka.C.3	-0.0020	0.0052	-1.336e-03
	Ka.C.4	-0.0018	0.0048	-1.228e-03
	Ka.C.5	-0.0016	0.0045	-1.156e-03
	Ka.C.6	-0.0016	0.0044	-1.131e-03
	Ka.C.7	-0.0016	0.0046	-1.163e-03
	Ka.C.8	-0.0018	0.0049	-1.260e-03
	Ka.C.9	-0.0021	0.0056	-1.429e-03
	Ka.C.10	-0.0026	0.0066	-1.683e-03
	Ka.C.11	-0.0033	0.0080	-2.063e-03
	Ka.C.12	-0.0023	0.0059	-1.542e-03
	Ka.C.13	-0.0023	0.0059	-1.542e-03
	Ka.C.14	-0.0023	0.0059	-1.542e-03
	Ka.C.15	-0.0028	0.0071	-1.805e-03
	Ka.C.16	-0.0017	0.0045	-1.129e-03
	Ka.C.17	-0.0029	0.0071	-1.827e-03
	Ka.C.18	-0.0018	0.0046	-1.152e-03
	Ka.C.19	-0.0036	0.0093	-2.359e-03
	Ka.C.20	-0.0025	0.0068	-1.686e-03
	Ka.C.21	-0.0037	0.0093	-2.382e-03
	Ka.C.22	-0.0026	0.0068	-1.709e-03
	Ka.C.23	-0.0024	0.0059	-1.573e-03
	Ka.C.24	-0.0018	0.0043	-1.150e-03
	Ka.C.25	-0.0025	0.0060	-1.595e-03
	Ka.C.26	-0.0018	0.0044	-1.172e-03
	Ka.C.27	-0.0032	0.0081	-2.125e-03
	Ka.C.28	-0.0026	0.0065	-1.706e-03
	Ka.C.29	-0.0033	0.0082	-2.147e-03
	Ka.C.30	-0.0026	0.0066	-1.728e-03
	Ka.C.31	-0.0024	0.0062	-1.607e-03
	Ka.C.32	-0.0018	0.0046	-1.184e-03
	Ka.C.33	-0.0024	0.0063	-1.633e-03
	Ka.C.34	-0.0018	0.0047	-1.210e-03
	Ka.C.35	-0.0039	0.0099	-2.591e-03
K37	Ka.C.(w1)	-0.0023	0.0080	-1.670e-03
	Ka.C.1	-0.0023	0.0080	-1.670e-03
	Ka.C.2	-0.0022	0.0076	-1.596e-03
	Ka.C.3	-0.0020	0.0069	-1.465e-03
	Ka.C.4	-0.0018	0.0064	-1.357e-03
	Ka.C.5	-0.0016	0.0061	-1.287e-03
	Ka.C.6	-0.0016	0.0060	-1.263e-03
	Ka.C.7	-0.0016	0.0061	-1.296e-03
	Ka.C.8	-0.0018	0.0066	-1.394e-03
	Ka.C.9	-0.0021	0.0075	-1.566e-03
	Ka.C.10	-0.0026	0.0088	-1.808e-03
	Ka.C.11	-0.0033	0.0107	-2.190e-03
	Ka.C.12	-0.0023	0.0080	-1.670e-03
	Ka.C.13	-0.0023	0.0080	-1.670e-03
	Ka.C.14	-0.0023	0.0080	-1.670e-03
	Ka.C.15	-0.0028	0.0094	-1.905e-03
	Ka.C.16	-0.0017	0.0060	-1.201e-03
	Ka.C.17	-0.0029	0.0095	-1.930e-03
	Ka.C.18	-0.0018	0.0061	-1.227e-03
	Ka.C.19	-0.0036	0.0124	-2.493e-03
	Ka.C.20	-0.0025	0.0090	-1.792e-03
	Ka.C.21	-0.0037	0.0124	-2.519e-03
	Ka.C.22	-0.0026	0.0090	-1.818e-03
	Ka.C.23	-0.0024	0.0080	-1.708e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K37	Ka.C.24	-0.0018	0.0059	-1.255e-03
	Ka.C.25	-0.0025	0.0081	-1.733e-03
	Ka.C.26	-0.0018	0.0059	-1.280e-03
	Ka.C.27	-0.0032	0.0109	-2.294e-03
	Ka.C.28	-0.0026	0.0088	-1.844e-03
	Ka.C.29	-0.0033	0.0110	-2.319e-03
	Ka.C.30	-0.0026	0.0089	-1.870e-03
	Ka.C.31	-0.0024	0.0083	-1.751e-03
	Ka.C.32	-0.0018	0.0061	-1.299e-03
	Ka.C.33	-0.0024	0.0085	-1.773e-03
	Ka.C.34	-0.0018	0.0063	-1.320e-03
	Ka.C.35	-0.0039	0.0133	-2.792e-03
K38	Ka.C.(w1)	0.0000	0.0080	-0.673e-03
	Ka.C.1	0.0000	0.0080	-0.673e-03
	Ka.C.2	0.0000	0.0076	-0.598e-03
	Ka.C.3	0.0000	0.0069	-0.465e-03
	Ka.C.4	0.0000	0.0064	-0.357e-03
	Ka.C.5	0.0000	0.0061	-0.284e-03
	Ka.C.6	0.0000	0.0060	-0.261e-03
	Ka.C.7	0.0000	0.0061	-0.285e-03
	Ka.C.8	0.0000	0.0066	-0.410e-03
	Ka.C.9	0.0000	0.0075	-0.470e-03
	Ka.C.10	0.0000	0.0088	-1.148e-03
	Ka.C.11	0.0000	0.0107	0.172e-03
	Ka.C.12	0.0000	0.0080	-0.673e-03
	Ka.C.13	0.0000	0.0080	-0.673e-03
	Ka.C.14	0.0000	0.0080	-0.673e-03
	Ka.C.15	0.0000	0.0094	-0.956e-03
	Ka.C.16	0.0000	0.0060	-0.547e-03
	Ka.C.17	0.0000	0.0095	-0.979e-03
	Ka.C.18	0.0000	0.0061	-0.569e-03
	Ka.C.19	0.0000	0.0124	-1.118e-03
	Ka.C.20	0.0000	0.0090	-0.710e-03
	Ka.C.21	0.0000	0.0124	-1.142e-03
	Ka.C.22	0.0000	0.0090	-0.733e-03
	Ka.C.23	0.0000	0.0080	-0.728e-03
	Ka.C.24	0.0000	0.0059	-0.569e-03
	Ka.C.25	0.0000	0.0081	-0.750e-03
	Ka.C.26	0.0000	0.0059	-0.591e-03
	Ka.C.27	0.0000	0.0110	-0.891e-03
	Ka.C.28	0.0000	0.0088	-0.735e-03
	Ka.C.29	0.0000	0.0110	-0.914e-03
	Ka.C.30	0.0000	0.0089	-0.757e-03
	Ka.C.31	0.0000	0.0083	-0.605e-03
	Ka.C.32	0.0000	0.0061	-0.446e-03
	Ka.C.33	0.0000	0.0085	-0.630e-03
	Ka.C.34	0.0000	0.0063	-0.472e-03
	Ka.C.35	0.0000	0.0133	-1.087e-03
K39	Ka.C.(w1)	-0.0016	0.0000	-0.000e-03
	Ka.C.1	-0.0016	0.0000	-0.000e-03
	Ka.C.2	-0.0015	0.0000	-0.000e-03
	Ka.C.3	-0.0012	0.0000	-0.000e-03
	Ka.C.4	-0.0010	0.0000	-0.000e-03
	Ka.C.5	-0.0009	0.0000	-0.000e-03
	Ka.C.6	-0.0009	0.0000	-0.000e-03
	Ka.C.7	-0.0009	0.0000	-0.000e-03
	Ka.C.8	-0.0011	0.0000	-0.000e-03
	Ka.C.9	-0.0014	0.0000	-0.000e-03
	Ka.C.10	-0.0019	0.0000	-0.000e-03
	Ka.C.11	-0.0024	0.0000	-0.000e-03
	Ka.C.12	-0.0016	0.0000	-0.000e-03
	Ka.C.13	-0.0016	0.0000	-0.000e-03
	Ka.C.14	-0.0016	0.0000	-0.000e-03
	Ka.C.15	-0.0021	0.0000	-0.000e-03
	Ka.C.16	-0.0012	0.0000	-0.000e-03
	Ka.C.17	-0.0022	0.0000	-0.000e-03
	Ka.C.18	-0.0013	0.0000	-0.000e-03
	Ka.C.19	-0.0026	0.0000	-0.000e-03
	Ka.C.20	-0.0017	0.0000	-0.000e-03
	Ka.C.21	-0.0027	0.0000	-0.000e-03
	Ka.C.22	-0.0018	0.0000	-0.000e-03

Secundair vakwerk spant	Noveres Constructeurs			
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Knoop	B.C.	X	Z	Yr
K39	Ka.C.23	-0.0017	0.0000	-0.000e-03
	Ka.C.24	-0.0013	0.0000	-0.000e-03
	Ka.C.25	-0.0018	0.0000	-0.000e-03
	Ka.C.26	-0.0013	0.0000	-0.000e-03
	Ka.C.27	-0.0022	0.0000	-0.000e-03
	Ka.C.28	-0.0018	0.0000	-0.000e-03
	Ka.C.29	-0.0022	0.0000	-0.000e-03
	Ka.C.30	-0.0018	0.0000	-0.000e-03
	Ka.C.31	-0.0016	0.0000	-0.000e-03
	Ka.C.32	-0.0011	0.0000	-0.000e-03
	Ka.C.33	-0.0016	0.0000	-0.000e-03
	Ka.C.34	-0.0012	0.0000	-0.000e-03
	Ka.C.35	-0.0027	0.0000	-0.000e-03
K40	Ka.C.(w1)	-0.0013	0.0018	0.813e-03
	Ka.C.1	-0.0013	0.0018	0.813e-03
	Ka.C.2	-0.0012	0.0020	0.894e-03
	Ka.C.3	-0.0012	0.0024	1.036e-03
	Ka.C.4	-0.0012	0.0027	1.160e-03
	Ka.C.5	-0.0012	0.0029	1.230e-03
	Ka.C.6	-0.0012	0.0030	1.322e-03
	Ka.C.7	-0.0012	0.0030	1.091e-03
	Ka.C.8	-0.0012	0.0028	1.826e-03
	Ka.C.9	-0.0012	0.0022	0.261e-03
	Ka.C.10	-0.0013	0.0016	0.905e-03
	Ka.C.11	-0.0015	0.0011	0.514e-03
	Ka.C.12	-0.0013	0.0018	0.813e-03
	Ka.C.13	-0.0013	0.0018	0.813e-03
	Ka.C.14	-0.0013	0.0018	0.813e-03
	Ka.C.15	-0.0010	0.0004	0.269e-03
	Ka.C.16	-0.0006	0.0006	0.307e-03
	Ka.C.17	-0.0011	0.0004	0.274e-03
	Ka.C.18	-0.0007	0.0006	0.312e-03
	Ka.C.19	-0.0014	0.0012	0.593e-03
	Ka.C.20	-0.0010	0.0014	0.630e-03
	Ka.C.21	-0.0014	0.0012	0.598e-03
	Ka.C.22	-0.0010	0.0014	0.636e-03
	Ka.C.23	-0.0014	0.0018	0.807e-03
	Ka.C.24	-0.0010	0.0012	0.575e-03
	Ka.C.25	-0.0014	0.0018	0.814e-03
	Ka.C.26	-0.0011	0.0012	0.582e-03
	Ka.C.27	-0.0017	0.0025	1.131e-03
	Ka.C.28	-0.0014	0.0020	0.897e-03
	Ka.C.29	-0.0018	0.0025	1.137e-03
	Ka.C.30	-0.0014	0.0020	0.904e-03
	Ka.C.31	-0.0014	0.0025	1.101e-03
	Ka.C.32	-0.0011	0.0020	0.868e-03
	Ka.C.33	-0.0013	0.0023	1.028e-03
	Ka.C.34	-0.0010	0.0018	0.796e-03
	Ka.C.35	-0.0021	0.0030	1.363e-03
K41	Ka.C.(w1)	-0.1477	0.0000	-176.527e-03
	Ka.C.1	-0.1477	0.0000	-176.527e-03
	Ka.C.2	-0.1477	0.0000	-176.527e-03
	Ka.C.3	-0.1477	0.0000	-176.527e-03
	Ka.C.4	-0.1477	0.0000	-176.527e-03
	Ka.C.5	-0.1477	0.0000	-176.527e-03
	Ka.C.6	-0.1477	0.0000	-176.527e-03
	Ka.C.7	-0.1477	0.0000	-176.527e-03
	Ka.C.8	-0.1477	0.0000	-176.527e-03
	Ka.C.9	-0.1477	0.0000	-176.527e-03
	Ka.C.10	-0.1477	0.0000	-176.527e-03
	Ka.C.11	-0.1477	0.0000	-176.527e-03
	Ka.C.12	-0.1477	0.0000	-176.527e-03
	Ka.C.13	-0.1477	0.0000	-176.527e-03
	Ka.C.14	-0.1477	0.0000	-176.527e-03
	Ka.C.15	-0.1288	0.0000	-165.570e-03
	Ka.C.16	-0.0638	0.0000	-116.932e-03
	Ka.C.17	-0.1254	0.0000	-163.479e-03
	Ka.C.18	-0.0621	0.0000	-115.487e-03
	Ka.C.19	-0.2922	0.0000	-249.014e-03
	Ka.C.20	-0.1820	0.0000	-196.440e-03
	Ka.C.21	-0.2841	0.0000	-245.556e-03

Secundair vakwerk spant	Noveres Constructeurs		
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Knoop	B.C.	X	Z	Yr
K41	Ka.C.22	-0.1770	0.0000	-193.807e-03
	Ka.C.23	-0.1544	0.0000	-133.684e-03
	Ka.C.24	-0.0764	0.0000	-100.769e-03
	Ka.C.25	-0.1500	0.0000	-131.909e-03
	Ka.C.26	-0.0743	0.0000	-99.440e-03
	Ka.C.27	-0.3537	0.0000	-222.638e-03
	Ka.C.28	-0.2200	0.0000	-186.640e-03
	Ka.C.29	-0.3429	0.0000	-219.343e-03
	Ka.C.30	-0.2135	0.0000	-183.934e-03
	Ka.C.31	-0.1738	0.0000	-191.605e-03
	Ka.C.32	-0.0967	0.0000	-143.315e-03
	Ka.C.33	-0.1811	0.0000	-195.450e-03
	Ka.C.34	-0.1007	0.0000	-146.120e-03
	Ka.C.35	-0.4497	0.0000	-308.305e-03
K42	Ka.C.(w1)	-0.2954	0.0050	32.116e-03
	Ka.C.1	-0.2954	0.0050	32.116e-03
	Ka.C.2	-0.2954	0.0050	32.116e-03
	Ka.C.3	-0.2954	0.0050	32.116e-03
	Ka.C.4	-0.2954	0.0050	32.116e-03
	Ka.C.5	-0.2954	0.0050	32.116e-03
	Ka.C.6	-0.2954	0.0050	32.116e-03
	Ka.C.7	-0.2954	0.0050	32.116e-03
	Ka.C.8	-0.2954	0.0050	32.116e-03
	Ka.C.9	-0.2954	0.0050	32.116e-03
	Ka.C.10	-0.2954	0.0050	32.116e-03
	Ka.C.11	-0.2954	0.0050	32.117e-03
	Ka.C.12	-0.2954	0.0050	32.116e-03
	Ka.C.13	-0.2954	0.0050	32.116e-03
	Ka.C.14	-0.2954	0.0050	32.116e-03
	Ka.C.15	-0.2585	0.0042	38.313e-03
	Ka.C.16	-0.1279	0.0014	23.925e-03
	Ka.C.17	-0.2517	0.0042	41.268e-03
	Ka.C.18	-0.1246	0.0015	27.174e-03
	Ka.C.19	-0.5866	0.0190	62.832e-03
	Ka.C.20	-0.3652	0.0076	38.793e-03
	Ka.C.21	-0.5702	0.0180	64.849e-03
	Ka.C.22	-0.3553	0.0072	41.434e-03
	Ka.C.23	-0.2311	0.0033	14.811e-03
	Ka.C.24	-0.1209	0.0012	2.890e-03
	Ka.C.25	-0.2245	0.0030	17.660e-03
	Ka.C.26	-0.1175	0.0010	6.061e-03
	Ka.C.27	-0.5752	0.0191	40.842e-03
	Ka.C.28	-0.3790	0.0090	19.660e-03
	Ka.C.29	-0.5577	0.0177	42.615e-03
	Ka.C.30	-0.3678	0.0083	22.080e-03
	Ka.C.31	-0.3476	0.0074	53.087e-03
	Ka.C.32	-0.1934	0.0028	36.026e-03
	Ka.C.33	-0.3621	0.0076	48.933e-03
	Ka.C.34	-0.2015	0.0027	31.281e-03
	Ka.C.35	-0.8994	0.0441	97.766e-03
K43	Ka.C.(w1)	0.0000	0.0000	32.262e-03
	Ka.C.1	0.0000	0.0000	32.262e-03
	Ka.C.2	0.0000	0.0000	32.262e-03
	Ka.C.3	0.0000	0.0000	32.262e-03
	Ka.C.4	0.0000	0.0000	32.263e-03
	Ka.C.5	0.0000	0.0000	32.263e-03
	Ka.C.6	0.0000	0.0000	32.263e-03
	Ka.C.7	0.0000	0.0000	32.263e-03
	Ka.C.8	0.0000	0.0000	32.262e-03
	Ka.C.9	0.0000	0.0000	32.262e-03
	Ka.C.10	0.0000	0.0000	32.262e-03
	Ka.C.11	0.0000	0.0000	32.263e-03
	Ka.C.12	0.0000	0.0000	32.262e-03
	Ka.C.13	0.0000	0.0000	32.262e-03
	Ka.C.14	0.0000	0.0000	32.262e-03
	Ka.C.15	0.0000	0.0000	18.009e-03
	Ka.C.16	0.0000	0.0000	3.952e-03
	Ka.C.17	0.0000	0.0000	13.588e-03
	Ka.C.18	0.0000	0.0000	-0.031e-03
	Ka.C.19	0.0000	0.0000	65.001e-03
	Ka.C.20	0.0000	0.0000	40.807e-03

Secundair vakwerk spant	Noveres Constructeurs	
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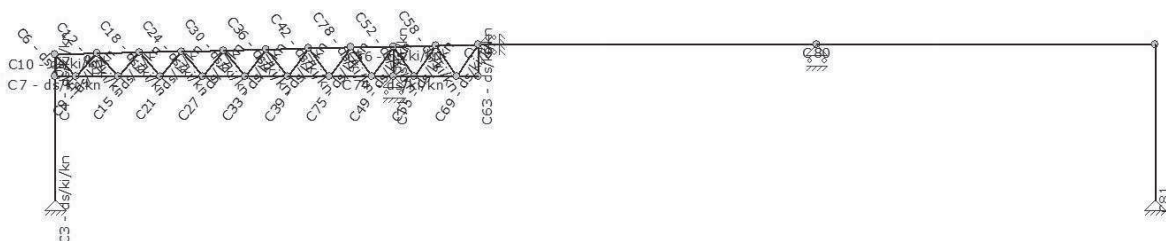
Knoop	B.C.	X	Z	Yr
K43	Ka.C.21	0.0000	0.0000	59.409e-03
	Ka.C.22	0.0000	0.0000	35.997e-03
	Ka.C.23	0.0000	0.0000	35.561e-03
	Ka.C.24	0.0000	0.0000	23.466e-03
	Ka.C.25	0.0000	0.0000	31.279e-03
	Ka.C.26	0.0000	0.0000	19.550e-03
	Ka.C.27	0.0000	0.0000	84.528e-03
	Ka.C.28	0.0000	0.0000	62.962e-03
	Ka.C.29	0.0000	0.0000	78.947e-03
	Ka.C.30	0.0000	0.0000	58.081e-03
	Ka.C.31	0.0000	0.0000	22.651e-03
	Ka.C.32	0.0000	0.0000	6.114e-03
	Ka.C.33	0.0000	0.0000	29.980e-03
	Ka.C.34	0.0000	0.0000	12.623e-03
	Ka.C.35	0.0000	0.0000	98.239e-03
-	-	m	m	rad

KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf	Z'afst	Z'	Knoop Eind	
		X	Z				X	Z
S3	Ka.C.20	0.000	0.000	3.285	0.0109		-0.001	0.000
S3	Ka.C.31	0.000	0.000	3.285	-0.0109		-0.002	0.001
S4	Ka.C.19	-0.001	0.000	0.520	-0.0004		-0.001	0.000
S4	Ka.C.32	-0.002	0.001	0.585	0.0002		0.000	0.001
S6	Ka.C.17	-0.001	0.000	0.992	0.0001		-0.001	0.001
S7	Ka.C.31	-0.002	0.001	0.813	0.0000		-0.002	0.003
S9	Ka.C.35	-0.003	0.004	0.924	0.0001		-0.001	0.007
S10	Ka.C.2	0.000	0.000	1.127	0.0017		0.000	0.005
S10	Ka.C.15	-0.001	0.000	1.252	-0.0001		-0.001	0.001
S12	Ka.C.17	-0.001	0.001	1.014	0.0001		-0.001	0.002
S13	Ka.C.35	-0.003	0.004	1.250	0.0003		-0.003	0.009
S15	Ka.C.35	-0.003	0.009	0.946	0.0001		-0.001	0.011
S16	Ka.C.2	0.000	0.005	0.501	-0.0001		-0.001	0.007
S16	Ka.C.3	0.000	0.005	1.252	0.0012		0.000	0.008
S18	Ka.C.3	0.000	0.008	1.036	0.0001		-0.001	0.009
S19	Ka.C.35	-0.003	0.009	1.250	0.0003		-0.002	0.012
S21	Ka.C.5	-0.001	0.010	0.968	0.0001		0.000	0.011
S22	Ka.C.4	0.000	0.009	1.249	0.0013		-0.001	0.011
S24	Ka.C.35	-0.002	0.013	0.964	0.0001		-0.002	0.013
S25	Ka.C.35	-0.002	0.012	1.250	0.0003		-0.002	0.013
S27	Ka.C.16	-0.001	0.003	0.989	0.0001		-0.001	0.003
S28	Ka.C.5	0.000	0.011	1.250	0.0012		-0.001	0.011
S30	Ka.C.35	-0.002	0.012	0.987	0.0001		-0.001	0.011
S31	Ka.C.35	-0.002	0.013	1.250	0.0003		-0.001	0.011
S33	Ka.C.16	0.000	0.002	1.011	0.0001		-0.001	0.002
S34	Ka.C.6	-0.001	0.011	1.249	0.0012		-0.001	0.009
S36	Ka.C.35	-0.002	0.010	1.010	0.0001		-0.001	0.008
S37	Ka.C.6	0.000	0.010	1.250	0.0002		0.000	0.008
S39	Ka.C.16	0.000	0.002	1.034	0.0001		-0.001	0.001
S40	Ka.C.7	-0.001	0.009	1.250	0.0011		-0.001	0.006
S40	Ka.C.8	-0.001	0.008	2.125	-0.0001		-0.001	0.005
S42	Ka.C.35	-0.002	0.006	1.033	0.0002		-0.001	0.005
S43	Ka.C.7	0.000	0.007	0.875	0.0000		0.000	0.005
S43	Ka.C.35	-0.001	0.008	1.750	-0.0001		-0.001	0.005
S47	Ka.C.8	0.000	0.004	1.500	0.0001		-0.001	0.002
S49	Ka.C.16	-0.001	0.001	1.080	0.0001		0.000	0.000
S52	Ka.C.16	0.000	0.000	1.188	0.0000		-0.001	0.002
S55	Ka.C.35	-0.003	0.004	1.213	0.0000		0.000	0.007
S56	Ka.C.10	-0.001	0.001	1.375	0.0005		0.000	0.004
S56	Ka.C.11	-0.001	0.001	1.375	-0.0006		0.000	0.005
S58	Ka.C.16	0.000	0.003	1.215	0.0000		-0.002	0.005
S59	Ka.C.19	-0.003	0.003	1.000	0.0001		-0.004	0.009
S65	Ka.C.11	0.000	0.005	1.377	0.0016		0.000	0.011
S67	Ka.C.35	-0.004	0.010	0.625	0.0000		-0.004	0.013
S69	Ka.C.35	-0.004	0.010	1.240	0.0001		0.000	0.013
S73	Ka.C.35	-0.002	0.002	0.625	0.0000		-0.003	0.000

Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S74	Ka.C.35	-0.003	0.000	0.750	0.0000	-0.003	0.004
S75	Ka.C.16	-0.001	0.001	1.059	0.0001	-0.001	0.001
S76	Ka.C.7	-0.001	0.006	0.500	-0.0001	-0.001	0.003
S76	Ka.C.8	-0.001	0.005	1.250	0.0010	-0.001	0.003
S77	Ka.C.9	-0.001	0.002	1.125	0.0006	-0.001	0.001
S77	Ka.C.10	-0.001	0.002	1.749	-0.0005	-0.001	0.001
S78	Ka.C.35	-0.002	0.003	1.059	0.0002	-0.002	0.002
S79	Ka.C.35	0.000	0.013	10.000	1.9142	-0.450	0.000
S80	Ka.C.35	-0.450	0.000	10.000	1.9142	-0.899	0.044
S81	Ka.C.27	0.000	0.000	4.588	-0.0627	-0.575	0.019
S81	Ka.C.31	0.000	0.000	4.588	0.0437	-0.348	0.007
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C3	S3
C4	S4
C6	S6
C7	S7; S13; S19; S25; S31; S37; S43; S47; S73
C9	S9
C10	S10; S16; S22; S28; S34; S40; S76; S77
C12	S12
C15	S15
C18	S18
C21	S21
C24	S24
C27	S27
C30	S30
C33	S33
C36	S36
C39	S39
C42	S42
C49	S49
C52	S52
C55	S55
C56	S56; S65
C58	S58
C63	S63
C69	S69
C71	S71
C74	S59; S67; S74
C75	S75
C78	S78
C79	S79
C80	S80
C81	S81

Secundair vakwerk spant	Noveres Constructeurs	
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KNIKLENGTEGEGEVENS

Staaft	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C3 - V1 (0.000-7.300)	P1	7.300	Cons. gesch.	7.300	1.00	Cons. gesch.	7.300	1.00
C4 - V1 (0.000-1.300)	P1	1.300	Cons. gesch.	1.300	1.00	Cons. gesch.	1.300	1.00
C6 - V1 (0.000-1.803)	P4	1.800	Cons. gesch.	1.803	1.00	Cons. gesch.	1.803	1.00
C7 - V1 (0.000-20.000)	P2	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	3.750	0.19
C9 - V1 (0.000-1.848)	P4	1.850	Cons. gesch.	1.848	1.00	Cons. gesch.	1.848	1.00
C10 - V1 (0.000-20.004)	P3	20.000	Handmatige Invoer	2.500	0.12	Handmatige Invoer	5.000	0.25
C15 - V1 (0.000-1.893)	P4	1.890	Cons. gesch.	1.893	1.00	Cons. gesch.	1.893	1.00
C18 - V1 (0.000-1.884)	P4	1.880	Cons. gesch.	1.884	1.00	Cons. gesch.	1.884	1.00
C21 - V1 (0.000-1.935)	P4	1.940	Cons. gesch.	1.935	1.00	Cons. gesch.	1.935	1.00
C24 - V1 (0.000-1.929)	P4	1.930	Cons. gesch.	1.929	1.00	Cons. gesch.	1.929	1.00
C27 - V1 (0.000-1.979)	P4	1.980	Cons. gesch.	1.979	1.00	Cons. gesch.	1.979	1.00
C30 - V1 (0.000-1.974)	P4	1.970	Cons. gesch.	1.974	1.00	Cons. gesch.	1.974	1.00
C36 - V1 (0.000-2.020)	P4	2.020	Cons. gesch.	2.020	1.00	Cons. gesch.	2.020	1.00
C42 - V1 (0.000-2.066)	P6	2.070	Cons. gesch.	2.066	1.00	Cons. gesch.	2.066	1.00
C55 - V1 (0.000-2.206)	P7	2.210	Cons. gesch.	2.206	1.00	Cons. gesch.	2.206	1.00
C56 - V1 (0.000-5.003)	P3	5.000	Handmatige Invoer	2.500	0.50	Cons. gesch.	5.003	1.00
C63 - V1 (0.000-1.877)	P1	1.880	Cons. gesch.	1.877	1.00	Cons. gesch.	1.877	1.00
C69 - V1 (0.000-2.255)	P7	2.260	Cons. gesch.	2.255	1.00	Cons. gesch.	2.255	1.00
C71 - V1 (0.000-1.762)	P7	1.760	Cons. gesch.	1.762	1.00	Cons. gesch.	1.762	1.00
C74 - V1 (0.000-5.000)	P2	5.000	Handmatige Invoer	2.500	0.50	Handmatige Invoer	3.750	0.75
C78 - V1 (0.000-2.118)	P6	2.120	Cons. gesch.	2.118	1.00	Cons. gesch.	2.118	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEDEEVENS

Staaft	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C3 - V1 (0.000-7.300)	P1	Gesteund	Gesteund			Centrum
C4 - V1 (0.000-1.300)	P1	Gesteund	Gesteund			Centrum
C6 - V1 (0.000-1.803)	P4	Gesteund	Gesteund			Centrum
C7 - V1 (0.000-20.000)	P2	Gesteund	Gesteund			Centrum
C9 - V1 (0.000-1.848)	P4	Gesteund	Gesteund			Centrum
C10 - V1 (0.000-20.004)	P3	Gesteund	Gesteund			Centrum
C12 - V1 (0.000-1.843)	P4	Gesteund	Gesteund			Centrum
C15 - V1 (0.000-1.893)	P4	Gesteund	Gesteund			Centrum
C18 - V1 (0.000-1.884)	P4	Gesteund	Gesteund			Centrum
C21 - V1 (0.000-1.935)	P4	Gesteund	Gesteund			Centrum
C24 - V1 (0.000-1.929)	P4	Gesteund	Gesteund			Centrum
C27 - V1 (0.000-1.979)	P4	Gesteund	Gesteund			Centrum
C30 - V1 (0.000-1.974)	P4	Gesteund	Gesteund			Centrum
C33 - V1 (0.000-2.022)	P4	Gesteund	Gesteund			Centrum
C36 - V1 (0.000-2.020)	P4	Gesteund	Gesteund			Centrum
C39 - V1 (0.000-2.068)	P4	Gesteund	Gesteund			Centrum
C42 - V1 (0.000-2.066)	P6	Gesteund	Gesteund			Centrum
C49 - V1 (0.000-2.159)	P4	Gesteund	Gesteund			Centrum
C52 - V1 (0.000-2.161)	P7	Gesteund	Gesteund			Centrum
C55 - V1 (0.000-2.206)	P7	Gesteund	Gesteund			Centrum
C56 - V1 (0.000-5.003)	P3	Gesteund	Gesteund			Centrum
C58 - V1 (0.000-2.209)	P7	Gesteund	Gesteund			Centrum
C63 - V1 (0.000-1.877)	P1	Gesteund	Gesteund			Centrum
C69 - V1 (0.000-2.255)	P7	Gesteund	Gesteund			Centrum
C71 - V1 (0.000-1.762)	P7	Gesteund	Gesteund			Centrum
C74 - V1 (0.000-5.000)	P2	Gesteund	Gesteund			Centrum
C75 - V1 (0.000-2.118)	P4	Gesteund	Gesteund			Centrum

Secundair vakwerk spant	Noveres Constructeurs	
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Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C78 - V1 (0.000-2.118)	P6	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

STAALTOETS RESULTATEN MET PROFIELGEGEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C3-V1 (0.000-7.300)

HE180A	Analyse	Staal S235	$f_{yd}(\text{toegepast}) = 235 \text{ N/mm}^2$
$h = 171.0 \text{ mm}$	$A = 4.53e-03 \text{ m}^2$	$W_{y;el} = 293.6e-06 \text{ m}^3$	$W_{y;pl} = 324.9e-06 \text{ m}^3$
$b = 180.0 \text{ mm}$	$I_y = 251.0e-07 \text{ m}^4$	$W_{z;el} = 102.7e-06 \text{ m}^3$	$W_{z;pl} = 156.5e-06 \text{ m}^3$
$t_f = 9.5 \text{ mm}$	$I_z = 924.6e-08 \text{ m}^4$	$A_{w;y;el} = 3.61e-03 \text{ m}^2$	$A_{w;y;pl} = 3.61e-03 \text{ m}^2$
$t_w = 6.0 \text{ mm}$	$\text{Massa/m} = 35.5 \text{ kg/m}$	$A_{w;z;el} = 1.45e-03 \text{ m}^2$	$A_{w;z;pl} = 1.45e-03 \text{ m}^2$
$r = 15.0 \text{ mm}$		$I_t = 148.0e-09 \text{ m}^4$	$I_{wa} = 602.1e-10 \text{ m}^6$

Doorsnedetoetsing C3-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.6 op 7.300 m		Profielklasse = 1
N;Ed = -24.2 kN	Vy;Ed = 0.0 kN	My;Ed = -30.3 kNm
	Vz;Ed = -22.5 kN	Mz;Ed = 0.0 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	MyRd = 76.3 kNm
	Vz;Rd = 196.3 kN	MzRd = 36.8 kNm

NEN-EN1993-1-1(6.12): UC = 0.40 < 1

Kipstoetsing C3-V1 (0.000-7.300)

Equi. profiel: HE180A		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.6			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	$b\text{-eff}(\text{Begin}) = 0.012$	$b\text{-eff}(\text{Eind}) = 0.019$
Tabel gebruikt Fig. NB.32	$M = -30.3 \text{ kN/m}$	$MBeta = 0.0$	$q = 5.1$
Onderflens maatgevend	$X_b;Ist = 0.000 \text{ m}$	$X_e;Ist = 7.300 \text{ m}$	$Ist = 7.300 \text{ m}$
$L_{sys} = 7.300 \text{ m}$	$L_g = 7.300 \text{ m}$	$S = 1.029 \text{ m}$	$I_{wa} = 6.0211e-08 \text{ m}^6$
$C1 = 1.85$	$C2 = 0.83 \text{ (tabel)}$	$C2(\text{toegepast}) = 0.00$	$C = 6.35$
$M_{cr} = 132.6 \text{ kNm}$	$k_{red} = 1.0$	$Lam\text{-rel} = 0.76$	Profielklasse 1
$\chi_{i;LT}(Fu.C.6) = 0.82$	$M;Ed = 30.3 \text{ kNm}$		UC(y) = 0.48
$\chi_{i;LT,Z} = 1.00$	$I_{kip} = 7.300 \text{ m}$		UC(z) = 0.00
$M_y;begin = 0.0 \text{ kNm}$	$M_y;eind = -30.3 \text{ kNm}$		
NEN-EN1993-1-1(6.54): UC = 0.48 < 1			

Stabiliteitstoetsing C3-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.18			
$N;Ed = -134.2 \text{ kN}$	$N_b;Rd;y = 605.7 \text{ kN}$	$N_b;Rd;z = 269.0 \text{ kN}$	
Methode Y = Cons. gesch.	$Ca(y) = 0.000$	$Cb(y) = 0.000$	Lknik Y = 7.300 m
Methode Z = Cons. gesch.	$Ca(z) = N/B$	$Cb(z) = N/B$	Lknik Z = 7.300 m
$X_y = 0.57$		Knikcurve: B	
$X_z = 0.25$		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.50 < 1			

Buiging & Druk C3-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.18	Kipgevoelig Ja	Profielklasse = 1	
$N;Ed = -134.2 \text{ kN}$	$M_y;Ed = 30.3 \text{ kNm}$	$M_z;Ed = 0.0 \text{ kNm}$	
	$\Delta;M_y;Ed = 0.0 \text{ kNm}$	$\Delta;M_z;Ed = 0.0 \text{ kNm}$	
$M_y = 16.6 \text{ kNm}$	$M_y;\Psi = 0.0 \text{ kNm}$	$M_y;s = -17.0 \text{ kNm}$	
$M_z = 0.0 \text{ kNm}$	$M_z;\Psi = 0.0 \text{ kNm}$	$M_z;s = 0.0 \text{ kNm}$	
$C_{my} = 0.90$	$C_{mz} = 1.00$	$C_{mLT} = 0.90$	
$K_{yy} = 1.061$	$K_{yz} = 1.019$	$K_{zy} = 0.923$	$K_{zz} = 1.699$
$K_{si;y} = 0.57$	$K_{si;z} = 0.25$	$K_{si;LT} = 0.71$	
NEN-EN1993-1-1(6.61&6.62): UC = 0.79 < 1			

Profielgegevens staaf C4-V1 (0.000-1.300)

HE180A	Analyse	Staal S235	$f_{yd}(\text{toegepast}) = 235 \text{ N/mm}^2$
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Secundair vakwerk spant	Noveres Constructeurs	
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h = 171.0 mm	A = 4.53e-03 m ²	Wy;el = 293.6e-06 m ³	Wy;pl = 324.9e-06 m ³
b = 180.0 mm	Iy = 251.0e-07 m ⁴	Wz;el = 102.7e-06 m ³	Wz;pl = 156.5e-06 m ³
tf = 9.5 mm	Iz = 924.6e-08 m ⁴	Aw;y;el = 3.61e-03 m ²	Aw;y;pl = 3.61e-03 m ²
tw = 6.0 mm	Massa/m = 35.5 kg/m	Aw;z;el = 1.45e-03 m ²	Aw;z;pl = 1.45e-03 m ²
r = 15.0 mm		It = 148.0e-09 m ⁴	Iwa = 602.1e-10 m ⁶

Doorsnedetoetsing C4-V1 (0.000-1.300)

Maatgevende combinatie: Fu.C.6 op 0.000 m

N;Ed = -24.2 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 26.5 kN	My;Ed = -30.3 kNm
N;Rd = 1,063.4 kN	Vy;Rd = 490.2 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 196.3 kN	MyRd = 76.3 kNm
		MzRd = 36.8 kNm

NEN-EN1993-1-1(6.12): UC = 0.40 < 1

Kiptoetsing C4-V1 (0.000-1.300)

Equi. profiel: HE180A

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.002

Tabel gebruikt Fig. NB.32

M = -3.1kN/m

MBeta = 0.0

q = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.300 m

lst = 1.300 m

Lsys = 1.300 m

Lg = 1.300 m

S = 1.029 m

Iwa = 6.0211e-08 m⁶

C1 = 1.80

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 15.16

Mcr = 1,776.5 kNm

kred = 1.0

Lam-rel = 0.21

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 1.300 m

UC(z) = 0.00

My;begin = -3.1 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip NVT, i.v.m. geen buiging

Stabiliteitstoetsing C4-V1 (0.000-1.300)

Maatgevende combinatie: Fu.C.6

N;Ed = -24.2 kN

Nb;Rd;y = 1,063.4 kN

Nb;Rd;z = 1,005.9 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.300 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.300 m

Xy = 1.00

Knikcurve: B

Xz = 0.95

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Buiging & Druk C4-V1 (0.000-1.300)

Maatgevende combinatie: Fu.C.6

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -24.2 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = -30.3 kNm

My;Psi = 0.0 kNm

My;s = -14.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.57

Cmz = 1.00

CmLT = 0.57

Kyy = 0.572

Kyz = 0.600

Kzy = 0.906

Kzz = 1.000

Ksi;y = 1.00

Ksi;z = 0.95

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.38 < 1

Profielgegevens staaf C6-V1 (0.000-1.803)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

h = 60.0 mm

A = 0.85e-03 m²

Wy;el = 145.2e-07 m³

Wy;pl = 176.4e-07 m³

b = 60.0 mm

Iy = 435.5e-09 m⁴

Wz;el = 145.2e-07 m³

Wz;pl = 176.4e-07 m³

tf = 4.0 mm

Iz = 435.5e-09 m⁴

Aw;y;el = 4.27e-04 m²

Aw;y;pl = 4.27e-04 m²

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m²

Aw;z;pl = 4.27e-04 m²

r = 4.0 mm

It = 702.5e-09 m⁴

Iwa = 341.4e-12 m⁶

Doorsnedetoetsing C6-V1 (0.000-1.803)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

Secundair vakwerk spant	Noveres Constructeurs	
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N;Ed = 108.5 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.54 < 1

Kiptoetsing C6-V1 (0.000-1.803)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.0kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.803 m

lst = 1.803 m

Lsys = 1.803 m

Lg = 1.803 m

S = 0.036 m

Iwa = 3.4144e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 1.803 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C6-V1 (0.000-1.803)

Maatgevende combinatie: Fu.C.4

N;Ed = -3.8 kN

Nb;Rd;y = 126.6 kN

Nb;Rd;z = 126.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.803 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.803 m

Xy = 0.63

Knikcurve: C

Xz = 0.63

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.03 < 1

Buiging & Druk C6-V1 (0.000-1.803)

Maatgevende combinatie: Fu.C.4

Profielklasse = 1

N;Ed = -3.8 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 0.968

Kyz = 0.612

Kzy = 0.581

Kzz = 1.019

Ksi;y = 0.63

Ksi;z = 0.63

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.03 < 1

Profielgegevens staaf C7-V1 (0.000-20.000)

KK120/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 2.24e-03 m2

Wy;el = 809.1e-07 m3

Wy;pl = 954.5e-07 m3

b = 120.0 mm

Iy = 485.5e-08 m4

Wz;el = 809.1e-07 m3

Wz;pl = 954.5e-07 m3

tf = 5.0 mm

Iz = 485.5e-08 m4

Aw;y;el = 1.12e-03 m2

Aw;y;pl = 1.12e-03 m2

tw = 5.0 mm

Massa/m = 17.5 kg/m

Aw;z;el = 1.12e-03 m2

Aw;z;pl = 1.12e-03 m2

r = 5.0 mm

It = 760.4e-08 m4

Iwa = 160.5e-10 m6

Doorsnedetoetsing C7-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.26 op 18.750 m

Profielklasse = 1

N;Ed = -322.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.5 kNm

Vz;Ed = -0.2 kN

Mz;Ed = 0.0 kNm

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

MyRd = 22.4 kNm

Vz;Rd = 151.7 kN

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.61 < 1

Kiptoetsing C7-V1 (0.000-20.000)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.3

F = 0.0kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 20.000 m

lst = 20.000 m

Lsys = 20.000 m

Lg = 20.000 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.35

C2 = 0.55 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.3 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 20.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C7-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.26

N;Ed = -322.1 kN

Nb;Rd;y = 421.5 kN

Nb;Rd;z = 329.2 kN

Methode Y = Handmatige Invoer

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.500 m

Methode Z = Handmatige Invoer

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 3.750 m

Xy = 0.80

Knikcurve: C

Xz = 0.63

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.98 < 1

Buiging & Druk C7-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.26

N;Ed = -322.1 kN

My;Ed = 0.3 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.5 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.219

Kyz = 0.986

Kzy = 0.732

Kzz = 1.643

Ksi;y = 0.80

Ksi;z = 0.63

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 1.00 < 1

Profielgegevens staaf C9-V1 (0.000-1.848)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 0.85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60.0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4.0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4.0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C9-V1 (0.000-1.848)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = -106.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

MyRd = 4.1 kNm

Vz;Rd = 58.0 kN

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.53 < 1

Kiptoetsing C9-V1 (0.000-1.848)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.848 m

lst = 1.848 m

Secundair vakwerk spant	Noveres Constructeurs	
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Lsys = 1.848 m	Lg = 1.848 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 1.848 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C9-V1 (0.000-1.848)

Maatgevende combinatie: Fu.C.1

N;Ed = -106.0 kN	Nb;Rd;y = 124.0 kN	Nb;Rd;z = 124.0 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.848 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.848 m
Xy = 0.62		Knikcurve: C	
Xz = 0.62		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.85 < 1			

Buiging & Druk C9-V1 (0.000-1.848)

Maatgevende combinatie: Fu.C.1

N;Ed = -106.0 kN	My;Ed = 0.0 kNm	Delta;My;Ed = 0.0 kNm	Profielklasse = 1
			Mz;Ed = 0.0 kNm
			Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.496	Kyz = 0.945	Kzy = 0.897	Kzz = 1.574
Ksi;y = 0.62	Ksi;z = 0.62	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.87 < 1			

Profielgegevens staaf C10-V1 (0.000-20.004)

KK140/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 140.0 mm	A = 2.64e-03 m2	Wy;el = 112.9e-06 m3	Wy;pl = 132.3e-06 m3
b = 140.0 mm	Iy = 790.6e-08 m4	Wz;el = 112.9e-06 m3	Wz;pl = 132.3e-06 m3
tf = 5.0 mm	Iz = 790.6e-08 m4	Aw;y;el = 1.32e-03 m2	Aw;y;pl = 1.32e-03 m2
tw = 5.0 mm	Massa/m = 20.7 kg/m	Aw;z;el = 1.32e-03 m2	Aw;z;pl = 1.32e-03 m2
r = 5.0 mm		It = 123.0e-07 m4	Iwa = 360.2e-10 m6

Doorsnedetoetsing C10-V1 (0.000-20.004)

Maatgevende combinatie: Fu.C.26 op 19.754 m

N;Ed = 249.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -10.7 kN	My;Ed = -5.6 kNm
N;Rd = 619.4 kN	Vy;Rd = 178.8 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 178.8 kN	MyRd = 31.1 kNm
		MzRd = 31.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.40 < 1

Kiptoetsing C10-V1 (0.000-20.004)

Equi. profiel: KK140/5

Maatgevende combinatie: Fu.C.41

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.004	b-eff(Eind) = 0.006
Tabel gebruikt Fig. NB.32	M = -4.5kN/m	MBeta = 0.0	q = 0.0
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 20.004 m	lst = 20.004 m
Lsys = 20.004 m	Lg = 20.004 m	S = 0.087 m	Iwa = 3.6020e-08 m6
C1 = 2.15	C2 = 0.10 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 2.5 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 20.004 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = -4.5 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C10-V1 (0.000-20.004)

Maatgevende combinatie: Fu.C.1

N;Ed = -242.3 kN	Nb;Rd;y = 526.9 kN	Nb;Rd;z = 344.5 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.500 m
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.85		Knikkcurve: C	
Xz = 0.56		Knikkcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.70 < 1			

Buiging & Druk C10-V1 (0.000-20.004)

Maatgevende combinatie: Fu.C.1

N;Ed = -242.3 kN	My;Ed = 2.5 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = -9.2 kNm	My;Psi = 0.0 kNm	My;s = -4.9 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.63	Cmz = 1.00	CmLT = 0.63	
Kyy = 0.712	Kyz = 0.926	Kzy = 0.427	Kzz = 1.543
Ksi;y = 0.85	Ksi;z = 0.56	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.83 < 1			

Profielgegevens staaf C12-V1 (0.000-1.843)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C12-V1 (0.000-1.843)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 60.8 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.0 kNm
		Mz;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.30 < 1

Kipstoetsing C12-V1 (0.000-1.843)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.843 m	lst = 1.843 m
Lsys = 1.843 m	Lg = 1.843 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.843 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C15-V1 (0.000-1.893)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C15-V1 (0.000-1.893)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -59.5 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.1 kN

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

Vz;Rd = 58.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 4.1 kNm

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.30 < 1

Kiptoetsing C15-V1 (0.000-1.893)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.893 m

lst = 1.893 m

Lsys = 1.893 m

Lg = 1.893 m

S = 0.036 m

Iwa = 3.4144e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 1.893 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C15-V1 (0.000-1.893)

Maatgevende combinatie: Fu.C.1

N;Ed = -59.5 kN

Nb;Rd;y = 121.4 kN

Nb;Rd;z = 121.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.893 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.893 m

Xy = 0.60

Knikcurve: C

Xz = 0.60

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.49 < 1

Buiging & Druk C15-V1 (0.000-1.893)

Maatgevende combinatie: Fu.C.1

N;Ed = -59.5 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.273

Kyz = 0.804

Kzy = 0.764

Kzz = 1.340

Ksi;y = 0.60

Ksi;z = 0.60

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.50 < 1

Profielgegevens staaf C18-V1 (0.000-1.884)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 0.85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60.0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4.0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4.0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C18-V1 (0.000-1.884)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = 22.8 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

MyRd = 4.1 kNm

Vz;Rd = 58.0 kN

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.11 < 1

Kiptoetsing C18-V1 (0.000-1.884)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.884 m

lst = 1.884 m

Lsys = 1.884 m

Lg = 1.884 m

S = 0.036 m

Iwa = 3.4144e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 1.884 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C18-V1 (0.000-1.884)

Maatgevende combinatie: Fu.C.30

N;Ed = -3.7 kN

Nb;Rd;y = 121.9 kN

Nb;Rd;z = 121.9 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.884 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.884 m

Xy = 0.61

Knikcurve: C

Xz = 0.61

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.03 < 1

Buiging & Druk C18-V1 (0.000-1.884)

Maatgevende combinatie: Fu.C.30

N;Ed = -3.7 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 0.970

Kyz = 0.613

Kzy = 0.582

Kzz = 1.021

Ksi;y = 0.61

Ksi;z = 0.61

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.04 < 1

Profielgegevens staaf C21-V1 (0.000-1.935)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 0.85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60.0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4.0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4.0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C21-V1 (0.000-1.935)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = -22.3 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

MyRd = 4.1 kNm

Vz;Rd = 58.0 kN

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.11 < 1

Kiptoetsing C21-V1 (0.000-1.935)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Secundair vakwerk spant	Noveres Constructeurs	
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Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.935 m	lst = 1.935 m
Lsys = 1.935 m	Lg = 1.935 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.935 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C21-V1 (0.000-1.935)

Maatgevende combinatie: Fu.C.1

N;Ed = -22.3 kN	Nb;Rd;y = 118.9 kN	Nb;Rd;z = 118.9 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.935 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.935 m
Xy = 0.59		Knikcurve: C	
Xz = 0.59		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.19 < 1			

Buiging & Druk C21-V1 (0.000-1.935)

Maatgevende combinatie: Fu.C.1

N;Ed = -22.3 kN	My;Ed = 0.0 kNm	Delta;My;Ed = 0.0 kNm	Profielklasse = 1
		Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.077	Kyz = 0.680	Kzy = 0.646	Kzz = 1.134
Ksi;y = 0.59	Ksi;z = 0.59	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.19 < 1			

Profielgegevens staaf C24-V1 (0.000-1.929)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C24-V1 (0.000-1.929)

Maatgevende combinatie: Fu.C.26 op 1.929 m

N;Ed = -25.8 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = -0.1 kN	My;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 58.0 kN	MyRd = 4.1 kNm
		MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.13 < 1

Kiptoetsing C24-V1 (0.000-1.929)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.929 m	lst = 1.929 m
Lsys = 1.929 m	Lg = 1.929 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.929 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

Secundair vakwerk spant	Noveres Constructeurs	
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NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C24-V1 (0.000-1.929)

Maatgevende combinatie: Fu.C.26

N;Ed = -25.8 kN	Nb;Rd;y = 119.3 kN	Nb;Rd;z = 119.3 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.929 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.929 m
Xy = 0.59		Knikcurve: C	
Xz = 0.59		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0.22 < 1

Buiging & Druk C24-V1 (0.000-1.929)

Maatgevende combinatie: Fu.C.26

N;Ed = -25.8 kN	My;Ed = 0.0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.096	Kyz = 0.692	Kzy = 0.657	Kzz = 1.153
Ksi;y = 0.59	Ksi;z = 0.59	Ksi;LT = 1.00	

NEN-EN1993-1-1(6.61&6.62): UC = 0.22 < 1

Profielgegevens staaf C27-V1 (0.000-1.979)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C27-V1 (0.000-1.979)

Maatgevende combinatie: Fu.C.26 op 1.979 m

N;Ed = 26.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 58.0 kN	MyRd = 4.1 kNm
		MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.13 < 1

Kipstoetsing C27-V1 (0.000-1.979)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.0kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.979 m	lst = 1.979 m
Lsys = 1.979 m	Lg = 1.979 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.979 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C27-V1 (0.000-1.979)

Maatgevende combinatie: Fu.C.3

N;Ed = -2.9 kN	Nb;Rd;y = 116.4 kN	Nb;Rd;z = 116.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.979 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.979 m
Xy = 0.58		Knikcurve: C	

Xz = 0.58
NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Knikcurve: C

Buiging & Druk C27-V1 (0.000-1.979)

Maatgevende combinatie: Fu.C.3

N;Ed = -2.9 kN

My;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

Kyy = 0.967

Kyz = 0.611

Ksi;y = 0.58

Ksi;z = 0.58

NEN-EN1993-1-1(6.61&6.62): UC = 0.03 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.0 kNm

Mz;s = 0.0 kNm

CmLT = 0.95

Kzy = 0.580

Ksi;LT = 1.00

Kzz = 1.018

Profielgegevens staaf C30-V1 (0.000-1.974)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 0.85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60.0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4.0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4.0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C30-V1 (0.000-1.974)

Maatgevende combinatie: Fu.C.26 op 1.974 m

N;Ed = -53.3 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

MyRd = 4.1 kNm

Vz;Rd = 58.0 kN

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.27 < 1

Kipstoetsing C30-V1 (0.000-1.974)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.974 m

Ist = 1.974 m

Lsys = 1.974 m

Lg = 1.974 m

S = 0.036 m

Iwa = 3.4144e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 1.974 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C30-V1 (0.000-1.974)

Maatgevende combinatie: Fu.C.26

N;Ed = -53.3 kN

Nb;Rd;y = 116.7 kN

Nb;Rd;z = 116.7 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.974 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.974 m

Xy = 0.58

Knikcurve: C

Xz = 0.58

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.46 < 1

Buiging & Druk C30-V1 (0.000-1.974)

Maatgevende combinatie: Fu.C.26

N;Ed = -53.3 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Secundair vakwerk spant	Noveres Constructeurs	
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Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.267	Kyz = 0.800	Kzy = 0.760	Kzz = 1.334
Ksi;y = 0.58	Ksi;z = 0.58	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.47 < 1			

Profielgegevens staaf C33-V1 (0.000-2.022)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C33-V1 (0.000-2.022)

Maatgevende combinatie: Fu.C.26 op 2.022 m		Profielklasse = 1
N;Ed = 53.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.27 < 1

Kiptoetsing C33-V1 (0.000-2.022)

Equi. profiel: KK60/4		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.41			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.0kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.022 m	lst = 2.022 m
Lsys = 2.022 m	Lg = 2.022 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.022 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C36-V1 (0.000-2.020)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C36-V1 (0.000-2.020)

Maatgevende combinatie: Fu.C.1 op 2.020 m		Profielklasse = 1
N;Ed = -79.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.39 < 1

Kiptoetsing C36-V1 (0.000-2.020)

Equi. profiel: KK60/4		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.41			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			

Secundair vakwerk spant	Noveres Constructeurs	
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Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.020 m	lst = 2.020 m
Lsys = 2.020 m	Lg = 2.020 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.020 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C36-V1 (0.000-2.020)

Maatgevende combinatie: Fu.C.1			
N;Ed = -79.1 kN	Nb;Rd;y = 114.0 kN	Nb;Rd;z = 114.0 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.020 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.020 m
Xy = 0.57		Knikcurve: C	
Xz = 0.57		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.69 < 1			

Buiging & Druk C36-V1 (0.000-2.020)

Maatgevende combinatie: Fu.C.1			
N;Ed = -79.1 kN	My;Ed = 0.0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.447	Kyz = 0.914	Kzy = 0.868	Kzz = 1.523
Ksi;y = 0.57	Ksi;z = 0.57	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.71 < 1			

Profielgegevens staaf C39-V1 (0.000-2.068)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C39-V1 (0.000-2.068)

Maatgevende combinatie: Fu.C.1 op 2.068 m			
N;Ed = 78.8 kN	Vy;Ed = 0.0 kN	Profielklasse = 1	
	Vz;Ed = 0.0 kN	My;Ed = 0.0 kNm	
		Mz;Ed = 0.0 kNm	
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm	
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm	

NEN-EN1993-1-1(6.5): UC = 0.39 < 1

Kiptoetsing C39-V1 (0.000-2.068)

Equi. profiel: KK60/4		
Maatgevende combinatie: Fu.C.41	Instab. curve Kip:d	

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.0kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.068 m	lst = 2.068 m
Lsys = 2.068 m	Lg = 2.068 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.068 m		UC(z) = 0.00

My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C42-V1 (0.000-2.066)

KK60/6	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 1.17e-03 m2	Wy;el = 177.6e-07 m3	Wy;pl = 227.3e-07 m3
b = 60.0 mm	Iy = 532.8e-09 m4	Wz;el = 177.6e-07 m3	Wz;pl = 227.3e-07 m3
tf = 6.0 mm	Iz = 532.8e-09 m4	Aw;y;el = 5.86e-04 m2	Aw;y;pl = 5.86e-04 m2
tw = 6.0 mm	Massa/m = 9.2 kg/m	Aw;z;el = 5.86e-04 m2	Aw;z;pl = 5.86e-04 m2
r = 6.0 mm		It = 944.8e-09 m4	Iwa = 388.4e-12 m6

Doorsnedetoetsing C42-V1 (0.000-2.066)

Maatgevende combinatie: Fu.C.1 op 2.066 m	Profielklasse = 1
N;Ed = -109.7 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 275.5 kN	MyRd = 5.3 kNm
	MzRd = 5.3 kNm

NEN-EN1993-1-1(6.9): UC = 0.40 < 1

Kiptoetsing C42-V1 (0.000-2.066)

Equi. profiel: KK60/6			
Maatgevende combinatie: Fu.C.41		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1 kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.066 m	Ist = 2.066 m
Lsys = 2.066 m	Lg = 2.066 m	S = 0.033 m	Iwa = 3.8838e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.066 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C42-V1 (0.000-2.066)

Maatgevende combinatie: Fu.C.1			
N;Ed = -109.7 kN	Nb;Rd;y = 143.7 kN	Nb;Rd;z = 143.7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.066 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.066 m
Xy = 0.52		Knikcurve: C	
Xz = 0.52		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.76 < 1			

Buiging & Druk C42-V1 (0.000-2.066)

Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -109.7 kN	My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.530	Kyz = 0.967	Kzy = 0.918	Kzz = 1.611
Ksi;y = 0.52	Ksi;z = 0.52	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.78 < 1			

Profielgegevens staaf C49-V1 (0.000-2.159)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60.0 mm	A = 0.85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60.0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4.0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm	Massa/m = 6.7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4.0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C49-V1 (0.000-2.159)

Maatgevende combinatie: Fu.C.1 op 1.943 m

N;Ed = 135.6 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 200.9 kN	Vy;Rd = 58.0 kN	MyRd = 4.1 kNm
	Vz;Rd = 58.0 kN	MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.68 < 1

Kiptoetsing C49-V1 (0.000-2.159)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.0kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.159 m	Ist = 2.159 m
Lsys = 2.159 m	Lg = 2.159 m	S = 0.036 m	Iwa = 3.4144e-10 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.159 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C52-V1 (0.000-2.161)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C52-V1 (0.000-2.161)

Maatgevende combinatie: Fu.C.26 op 0.000 m

N;Ed = 160.8 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN	MyRd = 12.5 kNm
	Vz;Rd = 101.4 kN	MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): UC = 0.46 < 1

Kiptoetsing C52-V1 (0.000-2.161)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.161 m	Ist = 2.161 m
Lsys = 2.161 m	Lg = 2.161 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.161 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C55-V1 (0.000-2.206)

Secundair vakwerk spant	Noveres Constructeurs	
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KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C55-V1 (0.000-2.206)

Maatgevende combinatie: Fu.C.26 op 0.000 m		Profielklasse = 1
N;Ed = -158.5 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN	MyRd = 12.5 kNm
	Vz;Rd = 101.4 kN	MzRd = 12.5 kNm
NEN-EN1993-1-1(6.9): UC = 0.45 < 1		

Kiptoetsing C55-V1 (0.000-2.206)

Equi. profiel: KK100/4			
Maatgevende combinatie: Fu.C.41		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.206 m	lst = 2.206 m
Lsys = 2.206 m	Lg = 2.206 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.206 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C55-V1 (0.000-2.206)

Maatgevende combinatie: Fu.C.26			
N;Ed = -158.5 kN	Nb;Rd;y = 275.1 kN	Nb;Rd;z = 275.1 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.206 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.206 m
Xy = 0.78		Knikcurve: C	
Xz = 0.78		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.58 < 1			

Buiging & Druk C55-V1 (0.000-2.206)

Maatgevende combinatie: Fu.C.26		Profielklasse = 1	
N;Ed = -158.5 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.171	Kyz = 0.739	Kzy = 0.702	Kzz = 1.232
Ksi;y = 0.78	Ksi;z = 0.78	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.58 < 1			

Profielgegevens staaf C56-V1 (0.000-5.003)

KK140/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 140.0 mm	A = 2.64e-03 m2	Wy;el = 112.9e-06 m3	Wy;pl = 132.3e-06 m3
b = 140.0 mm	Iy = 790.6e-08 m4	Wz;el = 112.9e-06 m3	Wz;pl = 132.3e-06 m3
tf = 5.0 mm	Iz = 790.6e-08 m4	Aw;y;el = 1.32e-03 m2	Aw;y;pl = 1.32e-03 m2
tr = 5.0 mm	Massa/m = 20.7 kg/m	Aw;z;el = 1.32e-03 m2	Aw;z;pl = 1.32e-03 m2
r = 5.0 mm		It = 123.0e-07 m4	Iwa = 360.2e-10 m6

Doorsnedetoetsing C56-V1 (0.000-5.003)

Secundair vakwerk spant	Noveres Constructeurs	
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Maatgevende combinatie: Fu.C.26 op 2.250 m

N;Ed = 228.7 kN

Vy;Ed = 0.0 kN

Vz;Ed = -7.7 kN

N;Rd = 619.4 kN

Vy;Rd = 178.8 kN

Vz;Rd = 178.8 kN

Profielklasse = 1

My;Ed = -3.1 kNm

Mz;Ed = 0.0 kNm

MyRd = 31.1 kNm

MzRd = 31.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.37 < 1

Kiptoetsing C56-V1 (0.000-5.003)

Equi. profiel: KK140/5

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.006

b-eff(Eind) = 0.004

Tabel gebruikt Fig. NB.32

M = -4.5kN/m

MBeta = 0.0

q = 0.2

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.003 m

lst = 5.003 m

Lsys = 5.003 m

Lg = 5.003 m

S = 0.087 m

lwa = 3.6020e-08 m6

C1 = 2.28

C2 = 0.13 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 2.3 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 5.003 m

UC(z) = 0.00

My;begin = -4.5 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C56-V1 (0.000-5.003)

Maatgevende combinatie: Fu.C.7

N;Ed = -6.7 kN

Nb;Rd;y = 526.9 kN

Nb;Rd;z = 344.3 kN

Methode Y = Handmatige Invoer

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.500 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.003 m

Xy = 0.85

Knikcurve: C

Xz = 0.56

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Buiging & Druk C56-V1 (0.000-5.003)

Maatgevende combinatie: Fu.C.7

N;Ed = -6.7 kN

My;Ed = 2.3 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = -4.9 kNm

My;Psi = 0.0 kNm

My;s = -3.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.71

Cmz = 1.00

CmLT = 0.71

Kyy = 0.714

Kyz = 0.609

Kzy = 0.428

Kzz = 1.015

Ksi;y = 0.85

Ksi;z = 0.56

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.13 < 1

Profielgegevens staaf C58-V1 (0.000-2.209)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

lwa = 521.5e-11 m6

Doorsnedetoetsing C58-V1 (0.000-2.209)

Maatgevende combinatie: Fu.C.26 op 0.000 m

Profielklasse = 1

N;Ed = 125.9 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): UC = 0.36 < 1

Kiptoetsing C58-V1 (0.000-2.209)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.209 m

lst = 2.209 m

Lsys = 2.209 m

Lg = 2.209 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.209 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C63-V1 (0.000-1.877)

HE180A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 171.0 mm

A = 4.53e-03 m2

Wy;el = 293.6e-06 m3

Wy;pl = 324.9e-06 m3

b = 180.0 mm

Iy = 251.0e-07 m4

Wz;el = 102.7e-06 m3

Wz;pl = 156.5e-06 m3

tf = 9.5 mm

Iz = 924.6e-08 m4

Aw;y;el = 3.61e-03 m2

Aw;y;pl = 3.61e-03 m2

tw = 6.0 mm

Massa/m = 35.5 kg/m

Aw;z;el = 1.45e-03 m2

Aw;z;pl = 1.45e-03 m2

r = 15.0 mm

It = 148.0e-09 m4

Iwa = 602.1e-10 m6

Doorsnedetoetsing C63-V1 (0.000-1.877)

Maatgevende combinatie: Fu.C.27 op 1.877 m

Profielklasse = 1

N;Ed = 0.8 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 1,063.4 kN

Vy;Rd = 490.2 kN

MyRd = 76.3 kNm

Vz;Rd = 196.3 kN

MzRd = 36.8 kNm

NEN-EN1993-1-1(6.5): UC = 0.00 < 1

Kiptoetsing C63-V1 (0.000-1.877)

Equi. profiel: HE180A

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.0kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.877 m

lst = 1.877 m

Lsys = 1.877 m

Lg = 1.877 m

S = 1.029 m

Iwa = 6.0211e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 7.07

Mcr = 573.7 kNm

kred = 1.0

Lam-rel = 0.36

Profielklasse 1

Chi;LT(Fu.C.41) = 0.96

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 1.877 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm Lambda;LT <= 0.4

Stabiliteitstoetsing C63-V1 (0.000-1.877)

Maatgevende combinatie: Fu.C.26

N;Ed = -0.3 kN

Nb;Rd;y = 1,037.5 kN

Nb;Rd;z = 930.3 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.877 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.877 m

Xy = 0.98

Knikcurve: B

Xz = 0.87

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C63-V1 (0.000-1.877)

Maatgevende combinatie: Fu.C.26

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -0.3 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Secundair vakwerk spant	Noveres Constructeurs	
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	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 0.950	Kyz = 0.600	Kzy = 1.000	Kzz = 1.000
Ksi;y = 0.98	Ksi;z = 0.87	Ksi;LT = 0.96	
NEN-EN1993-1-1(6.61&6.62): UC = 0.00 < 1			

Profielgegevens staaf C69-V1 (0.000-2.255)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C69-V1 (0.000-2.255)

Maatgevende combinatie: Fu.C.26 op 0.000 m		Profielklasse = 1
N;Ed = -122.8 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN	MyRd = 12.5 kNm
	Vz;Rd = 101.4 kN	MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.35 < 1

Kiptoetsing C69-V1 (0.000-2.255)

Equi. profiel: KK100/4			
Maatgevende combinatie: Fu.C.41		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.255 m	lst = 2.255 m
Lsys = 2.255 m	Lg = 2.255 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.41) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.255 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C69-V1 (0.000-2.255)

Maatgevende combinatie: Fu.C.26			
N;Ed = -122.8 kN	Nb;Rd;y = 272.3 kN	Nb;Rd;z = 272.3 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.255 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.255 m
Xy = 0.78		Knikcurve: C	
Xz = 0.78		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.45 < 1			

Buiging & Druk C69-V1 (0.000-2.255)

Maatgevende combinatie: Fu.C.26		Profielklasse = 1	
N;Ed = -122.8 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.129	Kyz = 0.713	Kzy = 0.677	Kzz = 1.188
Ksi;y = 0.78	Ksi;z = 0.78	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.46 < 1			

Profielgegevens staaf C71-V1 (0.000-1.762)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C71-V1 (0.000-1.762)

Maatgevende combinatie: Fu.C.26 op 0.000 m	Profielklasse = 1
N;Ed = -259.7 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MyRd = 12.5 kNm
	MzRd = 12.5 kNm
NEN-EN1993-1-1(6.9): UC = 0.74 < 1	

Kiptoetsing C71-V1 (0.000-1.762)

Equi. profiel: KK100/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.41	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	b-eff(Begin) = 0.000
Tabel gebruikt NB 6.1	MBeta = 0.0
Bovenflens maatgevend	Xe;lst = 1.762 m
Lsys = 1.762 m	S = 0.062 m
C1 = 1.75	C2(toegepast) = 0.00
Mcr = 0.0 kNm	Lam-rel = 0.00
Chi;LT(Fu.C.41) = 1.00	
Chi;LT,Z = 1.00	
My;begin = 0.0 kNm	
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip NVT, i.v.m. geen buiging	

Stabiliteitstoetsing C71-V1 (0.000-1.762)

Maatgevende combinatie: Fu.C.26	
N;Ed = -259.7 kN	Nb;Rd;y = 299.6 kN
Methode Y = Cons. gesch.	Ca(y) = 0.000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0.85	Knikcurve: C
Xz = 0.85	Knikcurve: C
NEN-EN1993-1-1(6.46): UC = 0.87 < 1	

Buiging & Druk C71-V1 (0.000-1.762)

Maatgevende combinatie: Fu.C.26	Profielklasse = 1
N;Ed = -259.7 kN	Mz;Ed = 0.0 kNm
	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;s = 0.0 kNm
Mz = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	CmLT = 0.95
Kyy = 1.182	Kzy = 0.709
Ksi;y = 0.85	Ksi;z = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.87 < 1	Kzz = 1.244

Profielgegevens staaf C74-V1 (0.000-5.000)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C74-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.26 op 0.000 m

N;Ed = -322.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

Vz;Rd = 151.7 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 22.4 kNm

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.61 < 1

Kiptoetsing C74-V1 (0.000-5.000)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.3

F = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.35

C2 = 0.55 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.2 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C74-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.26

N;Ed = -322.0 kN

Nb;Rd;y = 421.5 kN

Nb;Rd;z = 329.2 kN

Methode Y = Handmatige Invoer

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.500 m

Methode Z = Handmatige Invoer

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 3.750 m

Xy = 0.80

Knikcurve: C

Xz = 0.63

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.98 < 1

Buiging & Druk C74-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.26

N;Ed = -322.0 kN

My;Ed = 0.2 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.219

Kyz = 0.986

Kzy = 0.732

Kzz = 1.643

Ksi;y = 0.80

Ksi;z = 0.63

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.99 < 1

Profielgegevens staaf C75-V1 (0.000-2.118)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 0.85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60.0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4.0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4.0 mm

Massa/m = 6.7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4.0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C75-V1 (0.000-2.118)

Maatgevende combinatie: Fu.C.1 op 1.906 m

N;Ed = 110.0 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 200.9 kN

Vy;Rd = 58.0 kN

MyRd = 4.1 kNm

Vz;Rd = 58.0 kN

MzRd = 4.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.55 < 1

Kiptoetsing C75-V1 (0.000-2.118)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.0kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.118 m

lst = 2.118 m

Lsys = 2.118 m

Lg = 2.118 m

S = 0.036 m

lwa = 3.4144e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.118 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C78-V1 (0.000-2.118)

KK60/6

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60.0 mm

A = 1.17e-03 m2

Wy;el = 177.6e-07 m3

Wy;pl = 227.3e-07 m3

b = 60.0 mm

Iy = 532.8e-09 m4

Wz;el = 177.6e-07 m3

Wz;pl = 227.3e-07 m3

tf = 6.0 mm

Iz = 532.8e-09 m4

Aw;y;el = 5.86e-04 m2

Aw;y;pl = 5.86e-04 m2

tw = 6.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.86e-04 m2

Aw;z;pl = 5.86e-04 m2

r = 6.0 mm

It = 944.8e-09 m4

lwa = 388.4e-12 m6

Doorsnedetoetsing C78-V1 (0.000-2.118)

Maatgevende combinatie: Fu.C.1 op 1.906 m

Profielklasse = 1

N;Ed = -137.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 275.5 kN

Vy;Rd = 79.5 kN

MyRd = 5.3 kNm

Vz;Rd = 79.5 kN

MzRd = 5.3 kNm

NEN-EN1993-1-1(6.9): UC = 0.50 < 1

Kiptoetsing C78-V1 (0.000-2.118)

Equi. profiel: KK60/6

Maatgevende combinatie: Fu.C.41

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.118 m

lst = 2.118 m

Lsys = 2.118 m

Lg = 2.118 m

S = 0.033 m

lwa = 3.8838e-10 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.41) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.118 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C78-V1 (0.000-2.118)

Maatgevende combinatie: Fu.C.1

N;Ed = -137.1 kN

Nb;Rd;y = 139.7 kN

Nb;Rd;z = 139.7 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.118 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.118 m

Xy = 0.51

Knikcurve: C

Xz = 0.51

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.98 < 1

Buiging & Druk C78-V1 (0.000-2.118)

Maatgevende combinatie: Fu.C.1

N;Ed = -137.1 kN

My = 0.0 kNm

Mz = 0.0 kNm

Cmy = 0.95

Kyy = 1.696

Ksi;y = 0.51

NEN-EN1993-1-1(6.61&6.62): UC = 1.01 > 1

My;Ed = 0.1 kNm

Delta;My;Ed = 0.0 kNm

My;Psi = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmz = 1.00

Kyz = 1.071

Ksi;z = 0.51

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.1 kNm

Mz;s = 0.0 kNm

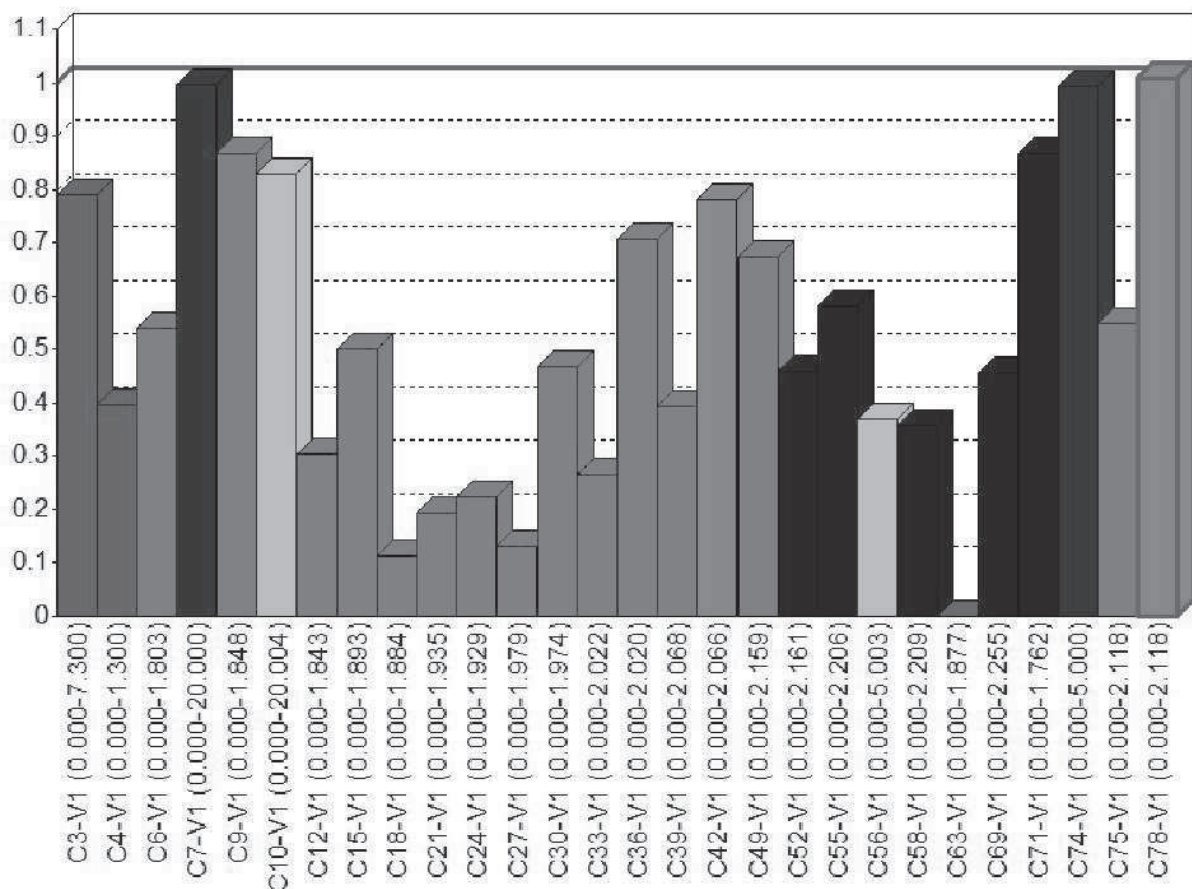
CmLT = 0.95

Kzy = 1.018

Ksi;LT = 1.00

Kzz = 1.785

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C3-V1 (0.000-7.300)	Doorsnede	Fu.C.6	NEN-EN1993-1-1(6.12)	0.40
C3-V1 (0.000-7.300)	Stabiliteit	Fu.C.18	NEN-EN1993-1-1(6.46)	0.22
C3-V1 (0.000-7.300)	Stabiliteit	Fu.C.18	NEN-EN1993-1-1(6.46)	0.50
C3-V1 (0.000-7.300)	Stabiliteit	Fu.C.18	NEN-EN1993-1-1(6.61&6.62)	0.79
C3-V1 (0.000-7.300)	Kiptoetsing	Fu.C.6	NEN-EN1993-1-1(6.54)	0.48
C4-V1 (0.000-1.300)	Doorsnede	Fu.C.6	NEN-EN1993-1-1(6.12)	0.40
C4-V1 (0.000-1.300)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.46)	0.02
C4-V1 (0.000-1.300)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.46)	0.02
C4-V1 (0.000-1.300)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.61&6.62)	0.38
C4-V1 (0.000-1.300)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C6-V1 (0.000-1.803)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.54
C6-V1 (0.000-1.803)	Stabiliteit	Fu.C.4	NEN-EN1993-1-1(6.46)	0.03

Secundair vakwerk spant	Noveres Constructeurs		
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Veld	Toetsing	Combinatie	Artikel	UC max
C6-V1 (0.000-1.803)	Stabiliteit	Fu.C.4	NEN-EN1993-1-1(6.46)	0.03
C6-V1 (0.000-1.803)	Stabiliteit	Fu.C.4	NEN-EN1993-1-1(6.61&6.62)	0.03
C6-V1 (0.000-1.803)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C7-V1 (0.000-20.000)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.61
C7-V1 (0.000-20.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.76
C7-V1 (0.000-20.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.98
C7-V1 (0.000-20.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	1.00
C7-V1 (0.000-20.000)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C9-V1 (0.000-1.848)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.53
C9-V1 (0.000-1.848)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.85
C9-V1 (0.000-1.848)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.85
C9-V1 (0.000-1.848)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.87
C9-V1 (0.000-1.848)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C10-V1 (0.000-20.004)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.40
C10-V1 (0.000-20.004)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.46
C10-V1 (0.000-20.004)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.70
C10-V1 (0.000-20.004)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.83
C10-V1 (0.000-20.004)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C12-V1 (0.000-1.843)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.30
C12-V1 (0.000-1.843)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C15-V1 (0.000-1.893)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.30
C15-V1 (0.000-1.893)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.49
C15-V1 (0.000-1.893)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.49
C15-V1 (0.000-1.893)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.50
C15-V1 (0.000-1.893)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C18-V1 (0.000-1.884)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.11
C18-V1 (0.000-1.884)	Stabiliteit	Fu.C.30	NEN-EN1993-1-1(6.46)	0.03
C18-V1 (0.000-1.884)	Stabiliteit	Fu.C.30	NEN-EN1993-1-1(6.46)	0.03
C18-V1 (0.000-1.884)	Stabiliteit	Fu.C.30	NEN-EN1993-1-1(6.61&6.62)	0.04
C18-V1 (0.000-1.884)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C21-V1 (0.000-1.935)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.11
C21-V1 (0.000-1.935)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C21-V1 (0.000-1.935)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C21-V1 (0.000-1.935)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.19
C21-V1 (0.000-1.935)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C24-V1 (0.000-1.929)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.13
C24-V1 (0.000-1.929)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.22
C24-V1 (0.000-1.929)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.22
C24-V1 (0.000-1.929)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.22
C24-V1 (0.000-1.929)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C27-V1 (0.000-1.979)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.13
C27-V1 (0.000-1.979)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.02
C27-V1 (0.000-1.979)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.02
C27-V1 (0.000-1.979)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.03
C27-V1 (0.000-1.979)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C30-V1 (0.000-1.974)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.27
C30-V1 (0.000-1.974)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.46
C30-V1 (0.000-1.974)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.46
C30-V1 (0.000-1.974)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.47
C30-V1 (0.000-1.974)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C33-V1 (0.000-2.022)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.27
C33-V1 (0.000-2.022)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C36-V1 (0.000-2.020)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.39
C36-V1 (0.000-2.020)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.69
C36-V1 (0.000-2.020)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.69
C36-V1 (0.000-2.020)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.71
C36-V1 (0.000-2.020)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00

Secundair vakwerk spant	Noveres Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C39-V1 (0.000-2.068)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.39
C39-V1 (0.000-2.068)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C42-V1 (0.000-2.066)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.40
C42-V1 (0.000-2.066)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.76
C42-V1 (0.000-2.066)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.76
C42-V1 (0.000-2.066)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.78
C42-V1 (0.000-2.066)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C49-V1 (0.000-2.159)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.68
C49-V1 (0.000-2.159)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C52-V1 (0.000-2.161)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.46
C52-V1 (0.000-2.161)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C55-V1 (0.000-2.206)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.45
C55-V1 (0.000-2.206)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.58
C55-V1 (0.000-2.206)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.58
C55-V1 (0.000-2.206)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.58
C55-V1 (0.000-2.206)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C56-V1 (0.000-5.003)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.37
C56-V1 (0.000-5.003)	Stabiliteit	Fu.C.7	NEN-EN1993-1-1(6.46)	0.01
C56-V1 (0.000-5.003)	Stabiliteit	Fu.C.7	NEN-EN1993-1-1(6.46)	0.02
C56-V1 (0.000-5.003)	Stabiliteit	Fu.C.7	NEN-EN1993-1-1(6.61&6.62)	0.13
C56-V1 (0.000-5.003)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C58-V1 (0.000-2.209)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.5)	0.36
C58-V1 (0.000-2.209)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C63-V1 (0.000-1.877)	Doorsnede	Fu.C.27	NEN-EN1993-1-1(6.5)	0.00
C63-V1 (0.000-1.877)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.00
C63-V1 (0.000-1.877)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.00
C63-V1 (0.000-1.877)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.00
C63-V1 (0.000-1.877)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C69-V1 (0.000-2.255)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.35
C69-V1 (0.000-2.255)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.45
C69-V1 (0.000-2.255)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.45
C69-V1 (0.000-2.255)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.46
C69-V1 (0.000-2.255)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C71-V1 (0.000-1.762)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.74
C71-V1 (0.000-1.762)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.87
C71-V1 (0.000-1.762)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.87
C71-V1 (0.000-1.762)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.87
C71-V1 (0.000-1.762)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C74-V1 (0.000-5.000)	Doorsnede	Fu.C.26	NEN-EN1993-1-1(6.9)	0.61
C74-V1 (0.000-5.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.76
C74-V1 (0.000-5.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.46)	0.98
C74-V1 (0.000-5.000)	Stabiliteit	Fu.C.26	NEN-EN1993-1-1(6.61&6.62)	0.99
C74-V1 (0.000-5.000)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C75-V1 (0.000-2.118)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.55
C75-V1 (0.000-2.118)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00
C78-V1 (0.000-2.118)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.50
C78-V1 (0.000-2.118)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.98
C78-V1 (0.000-2.118)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.98
C78-V1 (0.000-2.118)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	1.01
C78-V1 (0.000-2.118)	Kiptoetsing	Fu.C.41	NEN-EN1993-1-1(6.54)	0.00

GEWICHT STAALCONSTRUCTIE

Staal	Profiel	Lsys	Massa
C3-V1 (0.000-7.300)	HE180A	7.300	259.313
C4-V1 (0.000-1.300)	HE180A	1.300	46.179
C63-V1 (0.000-1.877)	HE180A	1.877	66.673
C81-V1 (0.000-9.177)	HE180A	9.177	325.986

Secundair vakwerk spant	Noveres Constructeurs		
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Subtotaal:	HE180A	19.654	698.151
C79-V1 (0.000-20.000)	HE200A	20.000	845.150
C80-V1 (0.000-20.000)	HE200A	20.000	845.150
Subtotaal:	HE200A	40.000	1,690.301
C52-V1 (0.000-2.161)	KK100/4	2.161	25.355
C55-V1 (0.000-2.206)	KK100/4	2.206	25.882
C58-V1 (0.000-2.209)	KK100/4	2.209	25.918
C69-V1 (0.000-2.255)	KK100/4	2.255	26.461
C71-V1 (0.000-1.762)	KK100/4	1.762	20.670
Subtotaal:	KK100/4	10.592	124.286
C74-V1 (0.000-5.000)	KK120/5	5.000	87.748
C7-V1 (0.000-20.000)	KK120/5	20.000	350.992
Subtotaal:	KK120/5	25.000	438.740
C10-V1 (0.000-20.004)	KK140/5	20.004	413.873
C56-V1 (0.000-5.003)	KK140/5	5.003	103.505
Subtotaal:	KK140/5	25.007	517.378
C12-V1 (0.000-1.843)	KK60/4	1.843	12.367
C15-V1 (0.000-1.893)	KK60/4	1.893	12.701
C18-V1 (0.000-1.884)	KK60/4	1.884	12.643
C21-V1 (0.000-1.935)	KK60/4	1.935	12.985
C24-V1 (0.000-1.929)	KK60/4	1.929	12.943
C27-V1 (0.000-1.979)	KK60/4	1.979	13.278
C30-V1 (0.000-1.974)	KK60/4	1.974	13.245
C33-V1 (0.000-2.022)	KK60/4	2.022	13.570
C36-V1 (0.000-2.020)	KK60/4	2.020	13.557
C39-V1 (0.000-2.068)	KK60/4	2.068	13.875
C49-V1 (0.000-2.159)	KK60/4	2.159	14.488
C6-V1 (0.000-1.803)	KK60/4	1.803	12.102
C75-V1 (0.000-2.118)	KK60/4	2.118	14.213
C9-V1 (0.000-1.848)	KK60/4	1.848	12.401
Subtotaal:	KK60/4	27.476	184.368
C42-V1 (0.000-2.066)	KK60/6	2.066	19.016
C78-V1 (0.000-2.118)	KK60/6	2.118	19.494
Subtotaal:	KK60/6	4.184	38.510
Totaal:		151.913	3,691.735
		m	kg

MA.C. OPLEGREACTIES 1ST ITER

B.C.	Oplegging	Knoop	X	Z	My
Ma.C.1 (1e)	O1	K1	0.36	-31.59	0.00
	O2	K38	-0.36	0.00	0.00
	O3	K39	0.00	-117.19	0.00
	O4	K43	0.00	-43.96	0.00
	O5	K41	0.00	-81.45	0.00
	Som Reacties		0.00	-274.19	
Ma.C.2 (1e)	Som Lasten		0.00	274.19	
	O1	K1	0.36	-31.59	0.00
	O2	K38	-0.36	0.00	0.00
	O3	K39	0.00	-117.19	0.00
	O4	K43	0.00	-43.96	0.00
	O5	K41	0.00	-81.45	0.00
Ma.C.3 (1e)	Som Reacties		0.00	-274.19	
	Som Lasten		0.00	274.19	
	O1	K1	-4.93	20.12	0.00
	O2	K38	-31.14	0.00	0.00
	O3	K39	0.00	10.01	0.00
	O4	K43	-7.18	1.02	0.00
Ma.C.4 (1e)	O5	K41	0.00	2.04	0.00
	Som Reacties		-43.25	33.19	
	Som Lasten		43.25	-33.19	
	O1	K1	-4.95	19.89	0.00
	O2	K38	-31.55	0.00	0.00
	O3	K39	0.00	40.15	0.00

Secundair vakwerk spant	Noveres Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Ma.C.4 (1e)	O4	K43	-7.18	12.59	0.00
	O5	K41	0.00	25.21	0.00
	Som Reacties		-43.67	97.84	
Ma.C.5 (1e)	Som Lasten		43.67	-97.84	
	O1	K1	-3.29	20.55	0.00
	O2	K38	-30.52	0.00	0.00
	O3	K39	0.00	9.58	0.00
	O4	K43	-9.77	1.02	0.00
	O5	K41	0.00	2.04	0.00
Ma.C.6 (1e)	Som Reacties		-43.58	33.19	
	Som Lasten		43.58	-33.19	
	O1	K1	-3.31	20.32	0.00
	O2	K38	-30.92	0.00	0.00
	O3	K39	0.00	39.72	0.00
	O4	K43	-9.77	12.59	0.00
Ma.C.7 (1e)	O5	K41	0.00	25.21	0.00
	Som Reacties		-44.00	97.84	
	Som Lasten		44.00	-97.84	
	O1	K1	-9.74	7.06	0.00
	O2	K38	-32.19	0.00	0.00
	O3	K39	0.00	-36.55	0.00
Ma.C.8 (1e)	O4	K43	0.64	-16.00	0.00
	O5	K41	0.00	-32.02	0.00
	Som Reacties		-41.29	-77.51	
	Som Lasten		41.29	77.51	
	O1	K1	-9.75	6.83	0.00
	O2	K38	-32.60	0.00	0.00
Ma.C.9 (1e)	O3	K39	0.00	-6.41	0.00
	O4	K43	0.64	-4.43	0.00
	O5	K41	0.00	-8.86	0.00
	Som Reacties		-41.71	-12.86	
	Som Lasten		41.71	12.86	
	O1	K1	-8.10	7.49	0.00
Ma.C.10 (1e)	O2	K38	-31.56	0.00	0.00
	O3	K39	0.00	-36.98	0.00
	O4	K43	-1.95	-16.00	0.00
	O5	K41	0.00	-32.02	0.00
	Som Reacties		-41.61	-77.51	
	Som Lasten		41.61	77.51	
Ma.C.11 (1e)	O1	K1	-8.11	7.26	0.00
	O2	K38	-31.97	0.00	0.00
	O3	K39	0.00	-6.84	0.00
	O4	K43	-1.95	-4.43	0.00
	O5	K41	0.00	-8.86	0.00
	Som Reacties		-42.04	-12.86	
Ma.C.12 (1e)	Som Lasten		42.04	12.86	
	O1	K1	4.54	1.92	0.00
	O2	K38	18.57	0.00	0.00
	O3	K39	0.00	1.68	0.00
	O4	K43	7.50	21.96	0.00
	O5	K41	0.00	7.67	0.00
Ma.C.13 (1e)	Som Reacties		30.61	33.23	
	Som Lasten		-30.61	-33.23	
	O1	K1	4.44	9.92	0.00
	O2	K38	18.01	0.00	0.00
	O3	K39	0.00	34.22	0.00
	O4	K43	7.50	25.35	0.00
Ma.C.13 (1e)	O5	K41	0.00	28.39	0.00
	Som Reacties		29.94	97.88	
Ma.C.13 (1e)	Som Lasten		-29.94	-97.88	
	O1	K1	6.18	2.35	0.00
Ma.C.13 (1e)	O2	K38	19.20	0.00	0.00

Secundair vakwerk spant	Noveres Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Ma.C.13 (1e)	O3	K39	0.00	1.25	0.00
	O4	K43	4.91	21.96	0.00
	O5	K41	0.00	7.67	0.00
	Som Reacties		30.29	33.23	
	Som Lasten		-30.29	-33.23	
Ma.C.14 (1e)	O1	K1	6.08	10.35	0.00
	O2	K38	18.63	0.00	0.00
	O3	K39	0.00	33.79	0.00
	O4	K43	4.91	25.35	0.00
	O5	K41	0.00	28.39	0.00
	Som Reacties		29.62	97.88	
	Som Lasten		-29.62	-97.88	
Ma.C.15 (1e)	O1	K1	-0.27	-11.14	0.00
	O2	K38	17.53	0.00	0.00
	O3	K39	0.00	-44.88	0.00
	O4	K43	15.32	4.94	0.00
	O5	K41	0.00	-26.39	0.00
	Som Reacties		32.58	-77.47	
	Som Lasten		-32.58	77.47	
Ma.C.16 (1e)	O1	K1	-0.37	-3.14	0.00
	O2	K38	16.96	0.00	0.00
	O3	K39	0.00	-12.34	0.00
	O4	K43	15.32	8.33	0.00
	O5	K41	0.00	-5.67	0.00
	Som Reacties		31.91	-12.82	
	Som Lasten		-31.91	12.82	
Ma.C.17 (1e)	O1	K1	1.38	-10.71	0.00
	O2	K38	18.15	0.00	0.00
	O3	K39	0.00	-45.31	0.00
	O4	K43	12.73	4.94	0.00
	O5	K41	0.00	-26.39	0.00
	Som Reacties		32.25	-77.47	
	Som Lasten		-32.25	77.47	
Ma.C.18 (1e)	O1	K1	1.28	-2.71	0.00
	O2	K38	17.58	0.00	0.00
	O3	K39	0.00	-12.77	0.00
	O4	K43	12.73	8.33	0.00
	O5	K41	0.00	-5.67	0.00
	Som Reacties		31.58	-12.82	
	Som Lasten		-31.58	12.82	
Ma.C.19 (1e)	O1	K1	6.80	-64.28	0.00
	O2	K38	-9.12	0.00	0.00
	O3	K39	0.00	-17.69	0.00
	O4	K43	-10.63	-5.79	0.00
	O5	K41	0.00	-11.58	0.00
	Som Reacties		-12.95	-99.34	
	Som Lasten		12.95	99.34	
Ma.C.20 (1e)	O1	K1	6.70	-56.29	0.00
	O2	K38	-9.69	0.00	0.00
	O3	K39	0.00	14.86	0.00
	O4	K43	-10.63	5.79	0.00
	O5	K41	0.00	11.58	0.00
	Som Reacties		-13.62	-24.06	
	Som Lasten		13.62	24.06	
Ma.C.21 (1e)	O1	K1	4.29	58.45	0.00
	O2	K38	-10.10	0.00	0.00
	O3	K39	0.00	-17.02	0.00
	O4	K43	-6.64	-5.79	0.00
	O5	K41	0.00	-11.58	0.00
	Som Reacties		-12.45	24.06	
	Som Lasten		12.45	-24.06	
Ma.C.22 (1e)	O1	K1	4.19	66.44	0.00

Secundair vakwerk spant			Noveres Constructeurs		
B.C.	Oplegging	Knoop	X	Z	My
Ma.C.22 (1e)	O2	K38	-10.67	0.00	0.00
	O3	K39	0.00	15.53	0.00
	O4	K43	-6.64	5.79	0.00
	O5	K41	0.00	11.58	0.00
	Som Reacties		-13.12	99.34	
Ma.C.23 (1e)	Som Lasten		13.12	-99.34	
	O1	K1	0.24	-19.36	0.00
	O2	K38	-0.24	0.00	0.00
	O3	K39	0.00	-78.66	0.00
	O4	K43	0.00	-27.98	0.00
	O5	K41	0.00	-56.00	0.00
	Som Reacties		0.00	-182.00	
	Som Lasten		0.00	182.00	
-	-	-	kN	kN	kNm

SV1 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding
Kolom	HE180A (b = 180, h = 171, Ft = 9.5, Wt = 6.0)
Materiaal	S235
Raamwerk	Statisch bepaald
Horizontale stijfheid	Geschoord raamwerk
Milieu	Niet corrosief
Laskwaliteit	S235

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	192	190	10.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	100 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand		
Randafstand boutrij 1	49	49 Steek boutrijen 1 - 2		
	mm	mm		
		Afstand	Totale afstand	
		mm	mm	

FUNDERING

Hoogte	400.00 mm	voegdikte	30.00 mm
d1	252.00 mm	b1	250.00 mm
d2	650.00 mm	b2	650.00 mm
d	1400.00 mm	b	1400.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K1	N;3;Ed	94.54 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.12 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		92.86 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K1	N;3;Ed	-1.84 kN	M;3;Ed	0.00 kNm	V;3;Ed	7.08 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Secundair vakwerk spant	Noveres Constructeurs	
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BELASTINGEN

Fu.C.3; Knoop K1	N;3;Ed	-1.50 kN	M;3;Ed	0.00 kNm	V;3;Ed	7.10 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K1	N;3;Ed	-2.49 kN	M;3;Ed	0.00 kNm	V;3;Ed	4.62 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.5; Knoop K1	N;3;Ed	-2.14 kN	M;3;Ed	0.00 kNm	V;3;Ed	4.64 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.6; Knoop K1	N;3;Ed	27.33 kN	M;3;Ed	0.00 kNm	V;3;Ed	14.13 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.7; Knoop K1	N;3;Ed	27.65 kN	M;3;Ed	0.00 kNm	V;3;Ed	14.15 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.48 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.8; Knoop K1	N;3;Ed	26.68 kN	M;3;Ed	0.00 kNm	V;3;Ed	11.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.29 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.9; Knoop K1	N;3;Ed	27.00 kN	M;3;Ed	0.00 kNm	V;3;Ed	11.70 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.35 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.10; Knoop K1	N;3;Ed	25.57 kN	M;3;Ed	0.00 kNm	V;3;Ed	7.09 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Secundair vakwerk spant	Noveres Constructeurs		
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Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.07 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.11; Knoop K1	N;3;Ed	13.55 kN	M;3;Ed	0.00 kNm	V;3;Ed	6.96 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		76.66 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.12; Knoop K1	N;3;Ed	24.93 kN	M;3;Ed	0.00 kNm	V;3;Ed	9.54 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		78.94 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.13; Knoop K1	N;3;Ed	12.90 kN	M;3;Ed	0.00 kNm	V;3;Ed	9.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		76.53 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.14; Knoop K1	N;3;Ed	54.79 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.01 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		84.91 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.15; Knoop K1	N;3;Ed	42.72 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.14 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.50 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.16; Knoop K1	N;3;Ed	54.14 kN	M;3;Ed	0.00 kNm	V;3;Ed	2.44 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		84.78 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.17; Knoop K1	N;3;Ed	42.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	2.31 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Secundair vakwerk spant	Noveres Constructeurs	
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Fu.C.18; Knoop K1 N;3;Ed 134.29 kN M;3;Ed 0.00 kNm V;3;Ed 10.35 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		100.81 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.19; Knoop K1 N;3;Ed 124.78 kN M;3;Ed 0.00 kNm V;3;Ed 10.28 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		98.91 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.20; Knoop K1 N;3;Ed 122.27 kN M;3;Ed 0.00 kNm V;3;Ed 10.25 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		98.41 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.21; Knoop K1 N;3;Ed 112.76 kN M;3;Ed 0.00 kNm V;3;Ed 10.18 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		96.51 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.22; Knoop K1 N;3;Ed -49.66 kN M;3;Ed 0.00 kNm V;3;Ed 6.93 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.23; Knoop K1 N;3;Ed -59.18 kN M;3;Ed 0.00 kNm V;3;Ed 6.83 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.24; Knoop K1 N;3;Ed -61.69 kN M;3;Ed 0.00 kNm V;3;Ed 6.78 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.25; Knoop K1 N;3;Ed -71.21 kN M;3;Ed 0.00 kNm V;3;Ed 6.68 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		73.95 kN

Secundair vakwerk spant	Noveres Constructeurs	
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Trekcapaciteit min(F;t;Rd, B;p;Rd) 45.22 kN

BELASTINGEN

Fu.C.26; Knoop K1 N;3;Ed 66.95 kN M;3;Ed 0.00 kNm V;3;Ed 0.73 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		87.34 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.27; Knoop K1 N;3;Ed 42.64 kN M;3;Ed 0.00 kNm V;3;Ed 0.46 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.48 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.28; Knoop K1 N;3;Ed 28.43 kN M;3;Ed 0.00 kNm V;3;Ed 0.31 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		79.64 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.29; Knoop K1 N;3;Ed 52.03 kN M;3;Ed 0.00 kNm V;3;Ed 0.45 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		84.36 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.30; Knoop K1 N;3;Ed 50.19 kN M;3;Ed 0.00 kNm V;3;Ed 0.53 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		83.99 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.31; Knoop K1 N;3;Ed 48.33 kN M;3;Ed 0.00 kNm V;3;Ed 0.56 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		83.62 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.32; Knoop K1 N;3;Ed 46.46 kN M;3;Ed 0.00 kNm V;3;Ed 0.57 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		83.25 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.33; Knoop K1 N;3;Ed 44.58 kN M;3;Ed 0.00 kNm V;3;Ed 0.55 kN

Secundair vakwerk spant	Noveres Constructeurs	
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.87 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.34; Knoop K1	N;3;Ed	42.69 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.52 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.49 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.35; Knoop K1	N;3;Ed	40.80 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.48 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		82.11 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.36; Knoop K1	N;3;Ed	38.90 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		81.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.37; Knoop K1	N;3;Ed	37.00 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.39 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		81.35 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.38; Knoop K1	N;3;Ed	35.11 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.36 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		80.97 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.39; Knoop K1	N;3;Ed	37.95 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		81.54 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.40; Knoop K1	N;3;Ed	37.95 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		81.54 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Secundair vakwerk spant	Noveres Constructeurs	
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BELASTINGEN

Fu.C.41; Knoop K1	N;3;Ed	37.95 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.41 kN
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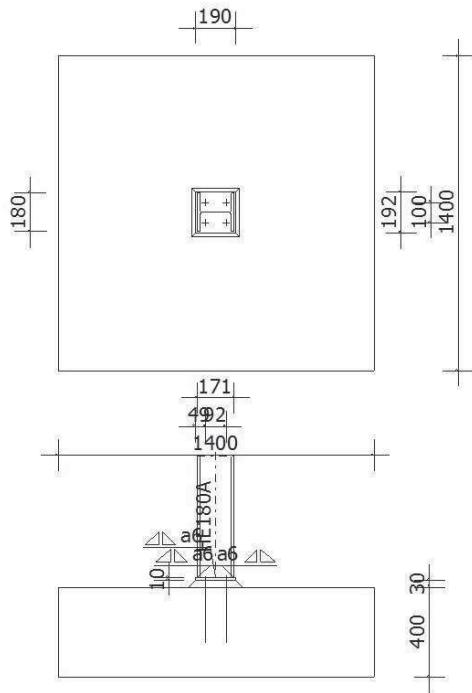
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 10 mm	104.53 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		81.54 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K1	Ok
Fu.C.2; Knoop K1	Ok
Fu.C.3; Knoop K1	Ok
Fu.C.4; Knoop K1	Ok
Fu.C.5; Knoop K1	Ok
Fu.C.6; Knoop K1	Ok
Fu.C.7; Knoop K1	Ok
Fu.C.8; Knoop K1	Ok
Fu.C.9; Knoop K1	Ok
Fu.C.10; Knoop K1	Ok
Fu.C.11; Knoop K1	Ok
Fu.C.12; Knoop K1	Ok
Fu.C.13; Knoop K1	Ok
Fu.C.14; Knoop K1	Ok
Fu.C.15; Knoop K1	Ok
Fu.C.16; Knoop K1	Ok
Fu.C.17; Knoop K1	Ok
Fu.C.18; Knoop K1	Ok
Fu.C.19; Knoop K1	Ok
Fu.C.20; Knoop K1	Ok
Fu.C.21; Knoop K1	Ok
Fu.C.22; Knoop K1	Ok
Fu.C.23; Knoop K1	Ok
Fu.C.24; Knoop K1	Ok
Fu.C.25; Knoop K1	Ok
Fu.C.26; Knoop K1	Ok
Fu.C.27; Knoop K1	Ok
Fu.C.28; Knoop K1	Ok
Fu.C.29; Knoop K1	Ok
Fu.C.30; Knoop K1	Ok
Fu.C.31; Knoop K1	Ok
Fu.C.32; Knoop K1	Ok
Fu.C.33; Knoop K1	Ok
Fu.C.34; Knoop K1	Ok
Fu.C.35; Knoop K1	Ok
Fu.C.36; Knoop K1	Ok
Fu.C.37; Knoop K1	Ok
Fu.C.38; Knoop K1	Ok
Fu.C.39; Knoop K1	Ok
Fu.C.40; Knoop K1	Ok
Fu.C.41; Knoop K1	Ok

SV1 TEKENING



Verbindingsgegevens

Kolom: HE180A

Kopplaat: 190x192x10 mm

Bouten: M16, Kwaliteit 4.6, Afstand 100

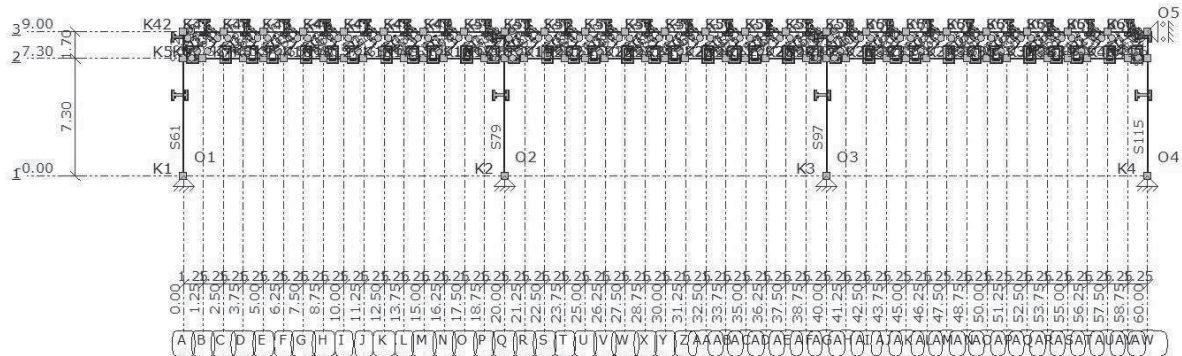
Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 49

Steek: 92

Moederspant as ZZ		Novares Constructeurs	
Bijlage G			
Projectnaam		Projectnummer	
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\ms-1.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S1	K5	NV-	NVM	K6	P2	0.000	-7.300	1.250	-7.300	1.250
S2	K6	NVM	NVM	K7	P2	1.250	-7.300	3.750	-7.300	2.500
S3	K7	NVM	NVM	K8	P2	3.750	-7.300	5.000	-7.300	1.250
S4	K8	NVM	NVM	K9	P2	5.000	-7.300	6.250	-7.300	1.250
S5	K9	NVM	NVM	K10	P2	6.250	-7.300	8.750	-7.300	2.500
S6	K10	NVM	NVM	K11	P2	8.750	-7.300	10.000	-7.300	1.250
S7	K11	NVM	NVM	K12	P2	10.000	-7.300	11.250	-7.300	1.250
S8	K12	NVM	NVM	K13	P2	11.250	-7.300	13.750	-7.300	2.500
S9	K13	NVM	NVM	K14	P2	13.750	-7.300	15.000	-7.300	1.250
S10	K14	NVM	NVM	K15	P2	15.000	-7.300	16.250	-7.300	1.250
S11	K15	NVM	NVM	K16	P2	16.250	-7.300	18.750	-7.300	2.500
S12	K16	NVM	NV-	K17	P2	18.750	-7.300	20.000	-7.300	1.250
S13	K17	NV-	NVM	K18	P2	20.000	-7.300	21.250	-7.300	1.250
S14	K18	NVM	NVM	K19	P2	21.250	-7.300	23.750	-7.300	2.500
S15	K19	NVM	NVM	K20	P2	23.750	-7.300	25.000	-7.300	1.250
S16	K20	NVM	NVM	K21	P2	25.000	-7.300	26.250	-7.300	1.250
S17	K21	NVM	NVM	K22	P2	26.250	-7.300	28.750	-7.300	2.500
S18	K22	NVM	NVM	K23	P2	28.750	-7.300	30.000	-7.300	1.250
S19	K23	NVM	NVM	K24	P2	30.000	-7.300	31.250	-7.300	1.250
S20	K24	NVM	NVM	K25	P2	31.250	-7.300	33.750	-7.300	2.500
S21	K25	NVM	NVM	K26	P2	33.750	-7.300	35.000	-7.300	1.250
S22	K26	NVM	NVM	K27	P2	35.000	-7.300	36.250	-7.300	1.250
S23	K27	NVM	NVM	K28	P2	36.250	-7.300	38.750	-7.300	2.500
S24	K28	NVM	NV-	K29	P2	38.750	-7.300	40.000	-7.300	1.250
S25	K29	NV-	NVM	K30	P2	40.000	-7.300	41.250	-7.300	1.250
S26	K30	NVM	NVM	K31	P2	41.250	-7.300	43.750	-7.300	2.500
S27	K31	NVM	NVM	K32	P2	43.750	-7.300	45.000	-7.300	1.250
S28	K32	NVM	NVM	K33	P2	45.000	-7.300	46.250	-7.300	1.250
S29	K33	NVM	NVM	K34	P2	46.250	-7.300	48.750	-7.300	2.500
S30	K34	NVM	NVM	K35	P2	48.750	-7.300	50.000	-7.300	1.250
S31	K35	NVM	NVM	K36	P2	50.000	-7.300	51.250	-7.300	1.250
S32	K36	NVM	NVM	K37	P2	51.250	-7.300	53.750	-7.300	2.500
S33	K37	NVM	NVM	K38	P2	53.750	-7.300	55.000	-7.300	1.250
S34	K38	NVM	NVM	K39	P2	55.000	-7.300	56.250	-7.300	1.250
S35	K39	NVM	NVM	K40	P2	56.250	-7.300	58.750	-7.300	2.500
S36	K40	NVM	NV-	K41	P2	58.750	-7.300	60.000	-7.300	1.250
S37	K42	NV-	NVM	K43	P1	0.000	-9.000	2.500	-9.000	2.500
S38	K43	NVM	NVM	K44	P1	2.500	-9.000	5.000	-9.000	2.500
S39	K44	NVM	NVM	K45	P1	5.000	-9.000	7.500	-9.000	2.500
S40	K45	NVM	NVM	K46	P1	7.500	-9.000	10.000	-9.000	2.500
S41	K46	NVM	NVM	K47	P1	10.000	-9.000	12.500	-9.000	2.500
S42	K47	NVM	NVM	K48	P1	12.500	-9.000	15.000	-9.000	2.500
S43	K48	NVM	NVM	K49	P1	15.000	-9.000	17.500	-9.000	2.500
S44	K49	NVM	NV-	K50	P1	17.500	-9.000	20.000	-9.000	2.500
S45	K50	NV-	NVM	K51	P1	20.000	-9.000	22.500	-9.000	2.500
S46	K51	NVM	NVM	K52	P1	22.500	-9.000	25.000	-9.000	2.500

Moederspant as ZZ	Novares Constructeurs									
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Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S47	K52	NVM	NVM	K53	P1	25.000	-9.000	27.500	-9.000	2.500
S48	K53	NVM	NVM	K54	P1	27.500	-9.000	30.000	-9.000	2.500
S49	K54	NVM	NVM	K55	P1	30.000	-9.000	32.500	-9.000	2.500
S50	K55	NVM	NVM	K56	P1	32.500	-9.000	35.000	-9.000	2.500
S51	K56	NVM	NVM	K57	P1	35.000	-9.000	37.500	-9.000	2.500
S52	K57	NVM	NV-	K58	P1	37.500	-9.000	40.000	-9.000	2.500
S53	K58	NV-	NVM	K59	P1	40.000	-9.000	42.500	-9.000	2.500
S54	K59	NVM	NVM	K60	P1	42.500	-9.000	45.000	-9.000	2.500
S55	K60	NVM	NVM	K61	P1	45.000	-9.000	47.500	-9.000	2.500
S56	K61	NVM	NVM	K62	P1	47.500	-9.000	50.000	-9.000	2.500
S57	K62	NVM	NVM	K63	P1	50.000	-9.000	52.500	-9.000	2.500
S58	K63	NVM	NVM	K64	P1	52.500	-9.000	55.000	-9.000	2.500
S59	K64	NVM	NVM	K65	P1	55.000	-9.000	57.500	-9.000	2.500
S60	K65	NVM	NV-	K66	P1	57.500	-9.000	60.000	-9.000	2.500
S61	K1	NVM	NVM	K5	P6	0.000	0.000	0.000	-7.300	7.300
S62	K5	NVM	NVM	K42	P6	0.000	-7.300	0.000	-9.000	1.700
S63	K42	NV-	NV-	K6	P7	0.000	-9.000	1.250	-7.300	2.110
S64	K6	NV-	NV-	K43	P7	1.250	-7.300	2.500	-9.000	2.110
S65	K43	NV-	NV-	K7	P7	2.500	-9.000	3.750	-7.300	2.110
S66	K7	NV-	NV-	K44	P7	3.750	-7.300	5.000	-9.000	2.110
S67	K44	NV-	NV-	K9	P8	5.000	-9.000	6.250	-7.300	2.110
S68	K9	NV-	NV-	K45	P8	6.250	-7.300	7.500	-9.000	2.110
S69	K45	NV-	NV-	K10	P8	7.500	-9.000	8.750	-7.300	2.110
S70	K10	NV-	NV-	K46	P8	8.750	-7.300	10.000	-9.000	2.110
S71	K46	NV-	NV-	K12	P7	10.000	-9.000	11.250	-7.300	2.110
S72	K12	NV-	NV-	K47	P7	11.250	-7.300	12.500	-9.000	2.110
S73	K47	NV-	NV-	K13	P7	12.500	-9.000	13.750	-7.300	2.110
S74	K13	NV-	NV-	K48	P7	13.750	-7.300	15.000	-9.000	2.110
S75	K48	NV-	NV-	K15	P3	15.000	-9.000	16.250	-7.300	2.110
S76	K15	NV-	NV-	K49	P3	16.250	-7.300	17.500	-9.000	2.110
S77	K49	NV-	NV-	K16	P3	17.500	-9.000	18.750	-7.300	2.110
S78	K16	NV-	NV-	K50	P3	18.750	-7.300	20.000	-9.000	2.110
S79	K2	NVM	NVM	K17	P5	20.000	0.000	20.000	-7.300	7.300
S80	K17	NVM	NVM	K50	P5	20.000	-7.300	20.000	-9.000	1.700
S81	K50	NV-	NV-	K18	P3	20.000	-9.000	21.250	-7.300	2.110
S82	K18	NV-	NV-	K51	P3	21.250	-7.300	22.500	-9.000	2.110
S83	K51	NV-	NV-	K19	P3	22.500	-9.000	23.750	-7.300	2.110
S84	K19	NV-	NV-	K52	P3	23.750	-7.300	25.000	-9.000	2.110
S85	K52	NV-	NV-	K21	P8	25.000	-9.000	26.250	-7.300	2.110
S86	K21	NV-	NV-	K53	P8	26.250	-7.300	27.500	-9.000	2.110
S87	K53	NV-	NV-	K22	P8	27.500	-9.000	28.750	-7.300	2.110
S88	K22	NV-	NV-	K54	P8	28.750	-7.300	30.000	-9.000	2.110
S89	K54	NV-	NV-	K24	P8	30.000	-9.000	31.250	-7.300	2.110
S90	K24	NV-	NV-	K55	P8	31.250	-7.300	32.500	-9.000	2.110
S91	K55	NV-	NV-	K25	P8	32.500	-9.000	33.750	-7.300	2.110
S92	K25	NV-	NV-	K56	P8	33.750	-7.300	35.000	-9.000	2.110
S93	K56	NV-	NV-	K27	P3	35.000	-9.000	36.250	-7.300	2.110
S94	K27	NV-	NV-	K57	P3	36.250	-7.300	37.500	-9.000	2.110
S95	K57	NV-	NV-	K28	P3	37.500	-9.000	38.750	-7.300	2.110
S96	K28	NV-	NV-	K58	P3	38.750	-7.300	40.000	-9.000	2.110
S97	K3	NVM	NVM	K29	P5	40.000	0.000	40.000	-7.300	7.300
S98	K29	NVM	NVM	K58	P5	40.000	-7.300	40.000	-9.000	1.700
S99	K58	NV-	NV-	K30	P3	40.000	-9.000	41.250	-7.300	2.110
S100	K30	NV-	NV-	K59	P3	41.250	-7.300	42.500	-9.000	2.110
S101	K59	NV-	NV-	K31	P3	42.500	-9.000	43.750	-7.300	2.110
S102	K31	NV-	NV-	K60	P3	43.750	-7.300	45.000	-9.000	2.110
S103	K60	NV-	NV-	K33	P7	45.000	-9.000	46.250	-7.300	2.110
S104	K33	NV-	NV-	K61	P7	46.250	-7.300	47.500	-9.000	2.110
S105	K61	NV-	NV-	K34	P7	47.500	-9.000	48.750	-7.300	2.110
S106	K34	NV-	NV-	K62	P7	48.750	-7.300	50.000	-9.000	2.110
S107	K62	NV-	NV-	K36	P8	50.000	-9.000	51.250	-7.300	2.110
S108	K36	NV-	NV-	K63	P8	51.250	-7.300	52.500	-9.000	2.110
S109	K63	NV-	NV-	K37	P8	52.500	-9.000	53.750	-7.300	2.110
S110	K37	NV-	NV-	K64	P8	53.750	-7.300	55.000	-9.000	2.110
S111	K64	NV-	NV-	K39	P7	55.000	-9.000	56.250	-7.300	2.110
S112	K39	NV-	NV-	K65	P7	56.250	-7.300	57.500	-9.000	2.110
S113	K65	NV-	NV-	K40	P7	57.500	-9.000	58.750	-7.300	2.110
S114	K40	NV-	NV-	K66	P7	58.750	-7.300	60.000	-9.000	2.110
S115	K4	NVM	NVM	K41	P6	60.000	0.000	60.000	-7.300	7.300
S116	K41	NVM	NVM	K66	P6	60.000	-7.300	60.000	-9.000	1.700
-	-	-	-	-	-	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly Materiaal	Hoek
P1	HE220B	9.1041e-03	8.0910e-05 S235	0
P2	KK200/10	7.1708e-03	4.1621e-05 S235H(EN10219-1)	0

Moederspant as ZZ	Novares Constructeurs	
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Profiel	Profielnaam	Oppervlakte	ly Materiaal	Hoek
P3	KK120/8	3.3093e-03	6.5623e-06 S235H(EN10219-1)	0
P5	HE260B	1.1844e-02	1.4919e-04 S235	0
P6	HE220A	6.4341e-03	5.4097e-05 S235	0
P7	KK120/5	2.2356e-03	4.8547e-06 S235H(EN10219-1)	0
P8	KK90/5	1.6356e-03	1.9293e-06 S235H(EN10219-1)	0
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoëff
S235	78.50	2.1000e+08	12.0000e-06
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	C/m

OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vast	vast	vrij	0
O2	K2	vast	vast	vrij	0
O3	K3	vast	vast	vrij	0
O4	K4	vast	vast	vrij	0
O5	K66	vast	vrij	vrij	0
-	-	kN/m	kN/m	kNmrad	°

GEWICHTSBEREKENING

Index	Staven	Berekening	Waarde Eenheden
	Belastingen en vervormingen	NEN-EN1991	
Lsys1	Systeemmaat	5.00	5.00 [m]
Height1	Totale hoogte van constructie	9.00	9.00 [m]
Width1	Totale breedte van constructie	60.00	60.00 [m]
LR1	Opgelegde belastingen	NEN-EN1991-1-1:2011/NB:2011	
	S293-S316		
qk1	Opgelegde belastingen (qk)	NEN-EN1991-1-1#6.3(Cat=H)	1.00 [kN/m²]
q1	Opgelegde belastingen (q) (Lsys=5.00)	qk1 * Min(5.0, Lsys1)	5.00 [kN/m]
LR2	Windbelasting van Links + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height2	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width2	Gemiddelde breedte (b)	25.00	25.00 [m]
Width3	Constructie diepte (d)	60.00	60.00 [m]
A1	Belast oppervlak (A)	225.00	225.00 [m²]
Co1	Orthografie factor (C0)	1.00	1.00
CsCd1	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width2,h=Height2,Terrein=Onbebouwd,Regio=3,C0=Co1)	0.85
Cfr1	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe1	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.15)	0.80
Cpi1	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=0.00,Over=True)	0.20
Z1	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp1	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebo uwd,Regio=3,C0=Co1)	0.68 [kN/m²]
q2	Wrijving; Verdeelde element belasting (q)	(Cfr1*Qp1) * Lsys1	0.03 [kN/m]
q3	Interne druk; Verdeelde element belasting (q)	(Cpi1*Qp1) * Lsys1	0.68 [kN/m]
Cpe2	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.15)	0.80
q4	Vertikale wand S4; Verdeelde element belasting (q)	(Qp1*Cpe2*CsCd1) * Lsys1	2.30 [kN/m]
Cpe3	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.15)	-0.50
C1	Vertikale wand S4; Druk coëfficiënt (Cpe) incl. correlatiefactor	(Cpe2-Cpe3) * 0.85	1.11
q5	Vertikale wand S4; Verdeelde element belasting (q)	(Qp1*(Cpe3+C1)*CsCd1) * Lsys1	1.74 [kN/m]
q6	Vertikale wand S47; Verdeelde element belasting (q)	(Qp1*Cpe3*CsCd1) * Lsys1	-1.44 [kN/m]
q7	Vertikale wand S47; Verdeelde element belasting (q)	(Qp1*(Cpe2-C1)*CsCd1) * Lsys1	-0.88 [kN/m]
Cpe4	Plat dak S293; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q8	Plat dak S293; Verdeelde element belasting (q)	(Qp1*Cpe4*CsCd1) * Lsys1	-3.45 [kN/m]
Cpe5	Plat dak S293; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q9	Plat dak S293; Verdeelde element belasting (q)	(Qp1*Cpe5*CsCd1) * Lsys1	-2.01 [kN/m]

Moederspant as ZZ	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR2			
Cpe6	Plat dak S296; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q10	Plat dak S296; Verdeelde element belasting (q)	(Qp1*Cpe6*CsCd1) * Lsys1	0.57 [kN/m]
LR3			
	Windbelasting van Links + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height3	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width4	Gemiddelde breedte (b)	25.00	25.00 [m]
Width5	Constructie diepte (d)	60.00	60.00 [m]
A2	Belast oppervlak (A)	225.00	225.00 [m²]
Co2	Orthografie factor (C0)	1.00	1.00
CsCd2	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width4,h=Height3,Terrein=Onbebouwd,Regio=3,C0=Co2)	0.85
Cfr2	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe7	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.15)	0.80
Cpi2	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe7,Openingen=0.00,Over=True)	0.20
Z2	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp2	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebo uwd,Regio=3,C0=Co2)	0.68 [kN/m²]
q11	Wrijving; Verdeelde element belasting (q)	(Cfr2*Qp2) * Lsys1	0.03 [kN/m]
q12	Interne druk; Verdeelde element belasting (q)	(Cpi2*Qp2) * Lsys1	0.68 [kN/m]
Cpe8	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15,Eerst=False)	0.80
q13	Vertikale wand S4; Verdeelde element belasting (q)	(Qp2*Cpe8*CsCd2) * Lsys1	2.30 [kN/m]
Cpe9	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15,Eerst=False)	-0.50
C2	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe8-Cpe9) * 0.85	1.11
q14	Vertikale wand S4; Verdeelde element belasting (q)	(Qp2*(Cpe9+C2)*CsCd2) * Lsys1	1.74 [kN/m]
q15	Vertikale wand S47; Verdeelde element belasting (q)	(Qp2*Cpe9*CsCd2) * Lsys1	-1.44 [kN/m]
q16	Vertikale wand S47; Verdeelde element belasting (q)	(Qp2*(Cpe8-C2)*CsCd2) * Lsys1	-0.88 [kN/m]
Cpe10	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1.20
q17	Plat dak S293; Verdeelde element belasting (q)	(Qp2*Cpe10*CsCd2) * Lsys1	-3.45 [kN/m]
Cpe11	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0.70
q18	Plat dak S293; Verdeelde element belasting (q)	(Qp2*Cpe11*CsCd2) * Lsys1	-2.01 [kN/m]
Cpe12	Plat dak S296; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q19	Plat dak S296; Verdeelde element belasting (q)	(Qp2*Cpe12*CsCd2) * Lsys1	-0.57 [kN/m]
LR4			
	Windbelasting van Links + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height4	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width6	Gemiddelde breedte (b)	25.00	25.00 [m]
Width7	Constructie diepte (d)	60.00	60.00 [m]
A3	Belast oppervlak (A)	225.00	225.00 [m²]
Co3	Orthografie factor (C0)	1.00	1.00
CsCd3	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width6,h=Height4,T errein=Onbebouwd,Regio=3,C0=Co3)	0.85
Cfr3	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe13	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15)	-0.50
Cpi3	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe13,Openingen =0.00,Over=False)	-0.30
Z3	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp3	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebo uwd,Regio=3,C0=Co3)	0.68 [kN/m²]
q20	Wrijving; Verdeelde element belasting (q)	(Cfr3*Qp3) * Lsys1	0.03 [kN/m]
q21	Interne druk; Verdeelde element belasting (q)	(Cpi3*Qp3) * Lsys1	-1.01 [kN/m]
Cpe14	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15)	0.80
q22	Vertikale wand S4; Verdeelde element belasting (q)	(Qp3*Cpe14*CsCd3) * Lsys1	2.30 [kN/m]
Cpe15	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15)	-0.50
C3	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe14-Cpe15) * 0.85	1.11
q23	Vertikale wand S4; Verdeelde element belasting (q)	(Qp3*(Cpe15+C3)*CsCd3) * Lsys1	1.74 [kN/m]
q24	Vertikale wand S47; Verdeelde element belasting (q)	(Qp3*Cpe15*CsCd3) * Lsys1	-1.44 [kN/m]
q25	Vertikale wand S47; Verdeelde element belasting (q)	(Qp3*(Cpe14-C3)*CsCd3) * Lsys1	-0.88 [kN/m]

Moederspant as ZZ	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR4			
Cpe16	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q26	Plat dak S293; Verdeelde element belasting (q)	(Qp3*Cpe16*CsCd3) * Lsys1	-3.45 [kN/m]
Cpe17	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q27	Plat dak S293; Verdeelde element belasting (q)	(Qp3*Cpe17*CsCd3) * Lsys1	-2.01 [kN/m]
Cpe18	Plat dak S296; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q28	Plat dak S296; Verdeelde element belasting (q)	(Qp3*Cpe18*CsCd3) * Lsys1	0.57 [kN/m]
LR5			
	Windbelasting van Links + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height5	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width8	Gemiddelde breedte (b)	25.00	25.00 [m]
Width9	Constructie diepte (d)	60.00	60.00 [m]
A4	Belast oppervlak (A)	225.00	225.00 [m²]
Co4	Orthografie factor (C0)	1.00	1.00
CsCd4	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width8,h=Height5, Terrein=Onbebouwd, Regio=3, C0=Co4)	0.85
Cfr4	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe19	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15)	-0.50
Cpi4	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe19,Openingen=0.00,Over=False)	-0.30
Z4	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp4	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebouwd, Regio=3, C0=Co4)	0.68 [kN/m²]
q29	Wrijving; Verdeelde element belasting (q)	(Cfr4*Qp4) * Lsys1	0.03 [kN/m]
q30	Interne druk; Verdeelde element belasting (q)	(Cpi4*Qp4) * Lsys1	-1.01 [kN/m]
Cpe20	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15,Eerst=False)	0.80
q31	Vertikale wand S4; Verdeelde element belasting (q)	(Qp4*Cpe20*CsCd4) * Lsys1	2.30 [kN/m]
Cpe21	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15,Eerst=False)	-0.50
C4	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe20-Cpe21) * 0.85	1.11
q32	Vertikale wand S4; Verdeelde element belasting (q)	(Qp4*(Cpe21+C4)*CsCd4) * Lsys1	1.74 [kN/m]
q33	Vertikale wand S47; Verdeelde element belasting (q)	(Qp4*Cpe21*CsCd4) * Lsys1	-1.44 [kN/m]
q34	Vertikale wand S47; Verdeelde element belasting (q)	(Qp4*(Cpe20-C4)*CsCd4) * Lsys1	-0.88 [kN/m]
Cpe22	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,Eerst=False)	-1.20
q35	Plat dak S293; Verdeelde element belasting (q)	(Qp4*Cpe22*CsCd4) * Lsys1	-3.45 [kN/m]
Cpe23	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,Eerst=False)	-0.70
q36	Plat dak S293; Verdeelde element belasting (q)	(Qp4*Cpe23*CsCd4) * Lsys1	-2.01 [kN/m]
Cpe24	Plat dak S296; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0.20
q37	Plat dak S296; Verdeelde element belasting (q)	(Qp4*Cpe24*CsCd4) * Lsys1	-0.57 [kN/m]
LR6			
	Windbelasting van Rechts + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height6	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width10	Gemiddelde breedte (b)	25.00	25.00 [m]
Width11	Constructie diepte (d)	60.00	60.00 [m]
A5	Belast oppervlak (A)	225.00	225.00 [m²]
Co5	Orthografie factor (C0)	1.00	1.00
CsCd5	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width10,h=Height6, Terrein=Onbebouwd, Regio=3, C0=Co5)	0.85
Cfr5	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe25	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15)	0.80
Cpi5	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe25,Openingen=0.00,Over=True)	0.20
Z5	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp5	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z5,Terrein=Onbebouwd, Regio=3, C0=Co5)	0.68 [kN/m²]
q38	Wrijving; Verdeelde element belasting (q)	(Cfr5*Qp5) * Lsys1	0.03 [kN/m]
q39	Interne druk; Verdeelde element belasting (q)	(Cpi5*Qp5) * Lsys1	0.68 [kN/m]
Cpe26	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15)	-0.50
q40	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*Cpe26*CsCd5) * Lsys1	-1.44 [kN/m]
Cpe27	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15)	0.80

Moederspant as ZZ	Novares Constructeurs
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Index	Staven	Berekening	Waarde Eenheden
LR6			
C5	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe27-Cpe26) * 0.85	1.11
q41	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*(Cpe27-C5)*CsCd5) * Lsys1	-0.88 [kN/m]
q42	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*(Cpe26+C5)*CsCd5) * Lsys1	1.74 [kN/m]
q43	Vertikale wand S47; Verdeelde element belasting (q)	(Qp5*Cpe27*CsCd5) * Lsys1	2.30 [kN/m]
Cpe28	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q44	Plat dak S293; Verdeelde element belasting (q)	(Qp5*Cpe28*CsCd5) * Lsys1	0.57 [kN/m]
Cpe29	Plat dak S313; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q45	Plat dak S313; Verdeelde element belasting (q)	(Qp5*Cpe29*CsCd5) * Lsys1	-2.01 [kN/m]
Cpe30	Plat dak S316; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q46	Plat dak S316; Verdeelde element belasting (q)	(Qp5*Cpe30*CsCd5) * Lsys1	-3.45 [kN/m]
LR7			
	Windbelasting van Rechts + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height7	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width12	Gemiddelde breedte (b)	25.00	25.00 [m]
Width13	Constructie diepte (d)	60.00	60.00 [m]
A6	Belast oppervlak (A)	225.00	225.00 [m²]
Co6	Orthografie factor (C0)	1.00	1.00
CsCd6	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width12,h=Height7, Terrein=Onbebouwd,Regio=3,C0=Co6)	0.85
Cfr6	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe31	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15)	0.80
Cpi6	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe31,Openingen =0.00,Over=True)	0.20
Z6	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp6	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z6,Terrein=Onbebo uwd,Regio=3,C0=Co6)	0.68 [kN/m²]
q47	Wrijving; Verdeelde element belasting (q)	(Cfr6*Qp6) * Lsys1	0.03 [kN/m]
q48	Interne druk; Verdeelde element belasting (q)	(Cpi6*Qp6) * Lsys1	0.68 [kN/m]
Cpe32	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15,Eerst=False)	-0.50
q49	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*Cpe32*CsCd6) * Lsys1	-1.44 [kN/m]
Cpe33	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.15,Eerst=False)	0.80
C6	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe33-Cpe32) * 0.85	1.11
q50	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*(Cpe33-C6)*CsCd6) * Lsys1	-0.88 [kN/m]
q51	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*(Cpe32+C6)*CsCd6) * Lsys1	1.74 [kN/m]
q52	Vertikale wand S47; Verdeelde element belasting (q)	(Qp6*Cpe33*CsCd6) * Lsys1	2.30 [kN/m]
Cpe34	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q53	Plat dak S293; Verdeelde element belasting (q)	(Qp6*Cpe34*CsCd6) * Lsys1	-0.57 [kN/m]
Cpe35	Plat dak S313; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0.70
q54	Plat dak S313; Verdeelde element belasting (q)	(Qp6*Cpe35*CsCd6) * Lsys1	-2.01 [kN/m]
Cpe36	Plat dak S316; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1.20
q55	Plat dak S316; Verdeelde element belasting (q)	(Qp6*Cpe36*CsCd6) * Lsys1	-3.45 [kN/m]
LR8			
	Windbelasting van Rechts + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height8	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width14	Gemiddelde breedte (b)	25.00	25.00 [m]
Width15	Constructie diepte (d)	60.00	60.00 [m]
A7	Belast oppervlak (A)	225.00	225.00 [m²]
Co7	Orthografie factor (C0)	1.00	1.00
CsCd7	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width14,h=Height8, Terrein=Onbebouwd,Regio=3,C0=Co7)	0.85
Cfr7	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe37	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.15)	-0.50
Cpi7	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe37,Openingen =0.00,Over=False)	-0.30
Z7	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp7	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebo uwd,Regio=3,C0=Co7)	0.68 [kN/m²]
q56	Wrijving; Verdeelde element belasting (q)	(Cfr7*Qp7) * Lsys1	0.03 [kN/m]
q57	Interne druk; Verdeelde element belasting (q)	(Cpi7*Qp7) * Lsys1	-1.01 [kN/m]

Moederspant as ZZ	Novares Constructeurs
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Index	Staven	Berekening	Waarde Eenheden
LR8			
Cpe38	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.15)	-0.50
q58	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*Cpe38*CsCd7) * Lsys1	-1.44 [kN/m]
Cpe39	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.15)	0.80
C7	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe39-Cpe38) * 0.85	1.11
q59	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*(Cpe39-C7)*CsCd7) * Lsys1	-0.88 [kN/m]
q60	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*(Cpe38+C7)*CsCd7) * Lsys1	1.74 [kN/m]
q61	Vertikale wand S47; Verdeelde element belasting (q)	(Qp7*Cpe39*CsCd7) * Lsys1	2.30 [kN/m]
Cpe40	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q62	Plat dak S293; Verdeelde element belasting (q)	(Qp7*Cpe40*CsCd7) * Lsys1	0.57 [kN/m]
Cpe41	Plat dak S313; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q63	Plat dak S313; Verdeelde element belasting (q)	(Qp7*Cpe41*CsCd7) * Lsys1	-2.01 [kN/m]
Cpe42	Plat dak S316; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1.20
q64	Plat dak S316; Verdeelde element belasting (q)	(Qp7*Cpe42*CsCd7) * Lsys1	-3.45 [kN/m]
LR9			
	Windbelasting van Rechts + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height9	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width16	Gemiddelde breedte (b)	25.00	25.00 [m]
Width17	Constructie diepte (d)	60.00	60.00 [m]
A8	Belast oppervlak (A)	225.00	225.00 [m²]
Co8	Orthografie factor (C0)	1.00	1.00
CsCd8	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width16,h=Height9,Terrein=Onbebouwd,Regio=3,C0=Co8)	0.85
Cfr8	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe43	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.15)	-0.50
Cpi8	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen=0.00,Over=False)	-0.30
Z8	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp8	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebouwd,Regio=3,C0=Co8)	0.68 [kN/m²]
q65	Wrijving; Verdeelde element belasting (q)	(Cfr8*Qp8) * Lsys1	0.03 [kN/m]
q66	Interne druk; Verdeelde element belasting (q)	(Cpi8*Qp8) * Lsys1	-1.01 [kN/m]
Cpe44	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E,hd=0.15,Eerst=False)	-0.50
q67	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*Cpe44*CsCd8) * Lsys1	-1.44 [kN/m]
Cpe45	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.15,Eerst=False)	0.80
C8	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe45-Cpe44) * 0.85	1.11
q68	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*(Cpe45-C8)*CsCd8) * Lsys1	-0.88 [kN/m]
q69	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*(Cpe44+C8)*CsCd8) * Lsys1	1.74 [kN/m]
q70	Vertikale wand S47; Verdeelde element belasting (q)	(Qp8*Cpe45*CsCd8) * Lsys1	2.30 [kN/m]
Cpe46	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0.20
q71	Plat dak S293; Verdeelde element belasting (q)	(Qp8*Cpe46*CsCd8) * Lsys1	-0.57 [kN/m]
Cpe47	Plat dak S313; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,Eerst=False)	-0.70
q72	Plat dak S313; Verdeelde element belasting (q)	(Qp8*Cpe47*CsCd8) * Lsys1	-2.01 [kN/m]
Cpe48	Plat dak S316; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,Eerst=False)	-1.20
q73	Plat dak S316; Verdeelde element belasting (q)	(Qp8*Cpe48*CsCd8) * Lsys1	-3.45 [kN/m]
LR10			
	Windbelasting van Voren + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height10	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width18	Gemiddelde breedte (b)	60.00	60.00 [m]
Width19	Constructie diepte (d)	60.00	60.00 [m]
A9	Belast oppervlak (A)	540.00	540.00 [m²]
Co9	Orthografie factor (C0)	1.00	1.00
CsCd9	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width18,h=Height10,Terrein=Onbebouwd,Regio=3,C0=Co9)	0.85
Cfr9	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe49	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.15)	-0.80
Cpi9	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe49,Openingen=0.00,Over=True)	0.20
Z9	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]

Moederspant as ZZ	Novares Constructeurs
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Index	Staven	Berekening	Waarde Eenheden
LR10			
Qp9	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z9,Terrein=Onbebo uwd,Regio=3,C0=Co9)	0.68 [kN/m²]
q74	Wrijving; Verdeelde element belasting (q)	(Cfr9*Qp9) * Lsys1	0.03 [kN/m]
q75	Interne druk; Verdeelde element belasting (q)	(Cpi9*Qp9) * Lsys1	0.68 [kN/m]
Cpe50	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B, hd=0.15)	-0.80
q76	Vertikale wand S4; Verdeelde element belasting (q)	(Qp9*Cpe50*CsCd9) * Lsys1	-2.30 [kN/m]
Cpe51	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q77	Plat dak S293; Verdeelde element belasting (q)	(Qp9*Cpe51*CsCd9) * Lsys1	-2.01 [kN/m]
LR11			
	Windbelasting van Voren + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height11	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width20	Gemiddelde breedte (b)	60.00	60.00 [m]
Width21	Constructie diepte (d)	60.00	60.00 [m]
A10	Belast oppervlak (A)	540.00	540.00 [m²]
Co10	Orthografie factor (C0)	1.00	1.00
CsCd10	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width20,h=Height1 1,Terrein=Onbebouwd,Regio=3,C0=Co10)	0.85
Cfr10	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe52	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B, hd=0.15)	-0.80
Cpi10	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe52,Openingen =0.00,Over=False)	-0.30
Z10	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp10	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z10,Terrein=Onbeb ouwd,Regio=3,C0=Co10)	0.68 [kN/m²]
q78	Wrijving; Verdeelde element belasting (q)	(Cfr10*Qp10) * Lsys1	0.03 [kN/m]
q79	Interne druk; Verdeelde element belasting (q)	(Cpi10*Qp10) * Lsys1	-1.01 [kN/m]
Cpe53	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B, hd=0.15)	-0.80
q80	Vertikale wand S4; Verdeelde element belasting (q)	(Qp10*Cpe53*CsCd10) * Lsys1	-2.30 [kN/m]
Cpe54	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0.70
q81	Plat dak S293; Verdeelde element belasting (q)	(Qp10*Cpe54*CsCd10) * Lsys1	-2.01 [kN/m]
LR12			
	Windbelasting van Achteren + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height12	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width22	Gemiddelde breedte (b)	60.00	60.00 [m]
Width23	Constructie diepte (d)	60.00	60.00 [m]
A11	Belast oppervlak (A)	540.00	540.00 [m²]
Co11	Orthografie factor (C0)	1.00	1.00
CsCd11	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width22,h=Height1 2,Terrein=Onbebouwd,Regio=3,C0=Co11)	0.85
Cfr11	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe55	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C, hd=0.15)	-0.50
Cpi11	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe55,Openingen =0.00,Over=True)	0.20
Z11	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K 37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67 ,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp11	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z11,Terrein=Onbeb ouwd,Regio=3,C0=Co11)	0.68 [kN/m²]
q82	Wrijving; Verdeelde element belasting (q)	(Cfr11*Qp11) * Lsys1	0.03 [kN/m]
q83	Interne druk; Verdeelde element belasting (q)	(Cpi11*Qp11) * Lsys1	0.68 [kN/m]
Cpe56	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C, hd=0.15)	-0.50
q84	Vertikale wand S4; Verdeelde element belasting (q)	(Qp11*Cpe56*CsCd11) * Lsys1	-1.44 [kN/m]
Cpe57	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q85	Plat dak S293; Verdeelde element belasting (q)	(Qp11*Cpe57*CsCd11) * Lsys1	0.57 [kN/m]
LR13			
	Windbelasting van Achteren + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height13	Totale hoogte (incl. gedeelte boven de grond) (h)	9.00	9.00 [m]
Width24	Gemiddelde breedte (b)	60.00	60.00 [m]
Width25	Constructie diepte (d)	60.00	60.00 [m]
A12	Belast oppervlak (A)	540.00	540.00 [m²]
Co12	Orthografie factor (C0)	1.00	1.00
CsCd12	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width24,h=Height1 3,Terrein=Onbebouwd,Regio=3,C0=Co12)	0.85

Moederspant as ZZ	Novares Constructeurs	
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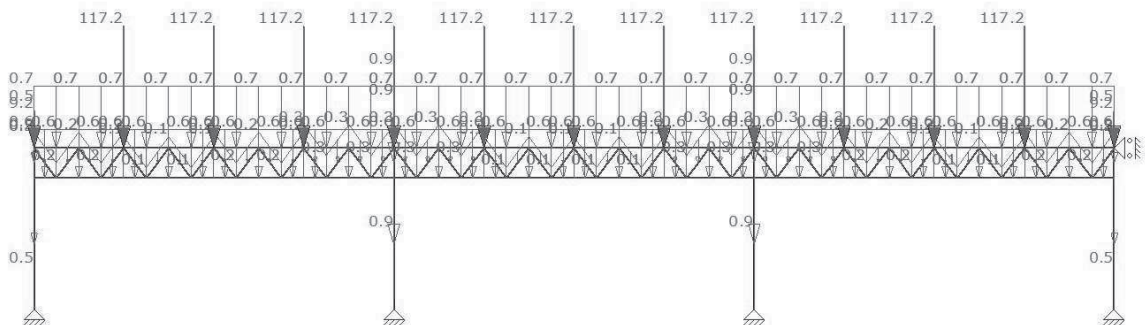
Index	Staven	Berekening	Waarde Eenheden
LR13			
Cfr12	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe58	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15)	-0.50
Cpi12	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe58,Openingen=0.00,Over=True)	0.20
Z12	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp12	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z12,Terrein=Onbebouwd,Regio=3,C0=Co12)	0.68 [kN/m²]
q86	Wrijving; Verdeelde element belasting (q)	(Cfr12*Qp12) * Lsys1	0.03 [kN/m]
q87	Interne druk; Verdeelde element belasting (q)	(Cpi12*Qp12) * Lsys1	0.68 [kN/m]
Cpe59	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15,Eerst=False)	-0.50
q88	Vertikale wand S4; Verdeelde element belasting (q)	(Qp12*Cpe59*CsCd12) * Lsys1	-1.44 [kN/m]
Cpe60	Plat dak S293; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0.20
q89	Plat dak S293; Verdeelde element belasting (q)	(Qp12*Cpe60*CsCd12) * Lsys1	-0.57 [kN/m]
LR14			
Height14	Windbelasting van Achteren + Onderdruk Totale hoogte (incl. gedeelte boven de grond) (h)	NEN-EN1991-1-4:2011/NB:2011 9.00	9.00 [m]
Width26	Gemiddelde breedte (b)	60.00	60.00 [m]
Width27	Constructie diepte (d)	60.00	60.00 [m]
A13	Belast oppervlak (A)	540.00	540.00 [m²]
Co13	Orthografie factor (C0)	1.00	1.00
CsCd13	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width26,h=Height14,Terrein=Onbebouwd,Regio=3,C0=Co13)	0.85
Cfr13	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe61	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15)	-0.50
Cpi13	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe61,Openingen=0.00,Over=False)	-0.30
Z13	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp13	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z13,Terrein=Onbebouwd,Regio=3,C0=Co13)	0.68 [kN/m²]
q90	Wrijving; Verdeelde element belasting (q)	(Cfr13*Qp13) * Lsys1	0.03 [kN/m]
q91	Interne druk; Verdeelde element belasting (q)	(Cpi13*Qp13) * Lsys1	-1.01 [kN/m]
Cpe62	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15)	-0.50
q92	Vertikale wand S4; Verdeelde element belasting (q)	(Qp13*Cpe62*CsCd13) * Lsys1	-1.44 [kN/m]
Cpe63	Plat dak S293; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0.20
q93	Plat dak S293; Verdeelde element belasting (q)	(Qp13*Cpe63*CsCd13) * Lsys1	0.57 [kN/m]
LR15			
Height15	Windbelasting van Achteren + Onderdruk (2e Cpe) Totale hoogte (incl. gedeelte boven de grond) (h)	NEN-EN1991-1-4:2011/NB:2011 9.00	9.00 [m]
Width28	Gemiddelde breedte (b)	60.00	60.00 [m]
Width29	Constructie diepte (d)	60.00	60.00 [m]
A14	Belast oppervlak (A)	540.00	540.00 [m²]
Co14	Orthografie factor (C0)	1.00	1.00
CsCd14	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width28,h=Height15,Terrein=Onbebouwd,Regio=3,C0=Co14)	0.85
Cfr14	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0.01
Cpe64	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15)	-0.50
Cpi14	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe64,Openingen=0.00,Over=False)	-0.30
Z14	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23,K24,K25,K26,K27,K28,K29,K30,K31,K34,K35,K37,K40,K41,K43,K46,K47,K49,K52,K53,K55,K58,K59,K61,K64,K65,K67,K70,K71,K73,K76,K77,K79,K82,K83,K85,K	9.00	9.00 [m]
Qp14	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z14,Terrein=Onbebouwd,Regio=3,C0=Co14)	0.68 [kN/m²]
q94	Wrijving; Verdeelde element belasting (q)	(Cfr14*Qp14) * Lsys1	0.03 [kN/m]
q95	Interne druk; Verdeelde element belasting (q)	(Cpi14*Qp14) * Lsys1	-1.01 [kN/m]
Cpe65	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=C,hd=0.15,Eerst=False)	-0.50

Index	Staven	Berekening	Waarde Eenheden
LR15			
q96	Vertikale wand S4; Verdeelde element belasting (q)	$(Qp14 * Cpe65 * CsCd14) * Lsys1$	-1.44 [kN/m]
Cpe66	Plat dak S293; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0.20
q97	Plat dak S293; Verdeelde element belasting (q)	$(Qp14 * Cpe66 * CsCd14) * Lsys1$	-0.57 [kN/m]
LR16			
	Sneeuwbelasting	NEN-EN1991-1-3:2011/NB:2011	
Sk1	Karakteristiek waarde van de sneeuwlast op de grond (Sk)	NEN-EN1991-1-3#4.1(Zone=1)	0.70 [kN/m²]
Ce1	De milieucoefficient (Ce)	NEN-EN1991-1-3#5.2.7()	1.00
Ct1	De thermische coefficient (Ct)	NEN-EN1991-1-3#5.2.8()	1.00
	Plat dak, Mu1 Hoek: 0.00; S305		
Mu1	Mu1; Sneeuwbelasting coefficient (Mu)	EN1991-1-3#5.3(Dak=Plat,Mu=Mu1,Sk=Sk 1)	0.80
q98	Verdeelde element belasting (q)	$(Sk1 * Ce1 * Ct1 * Mu1) * Lsys1$	2.80 [kN/m]

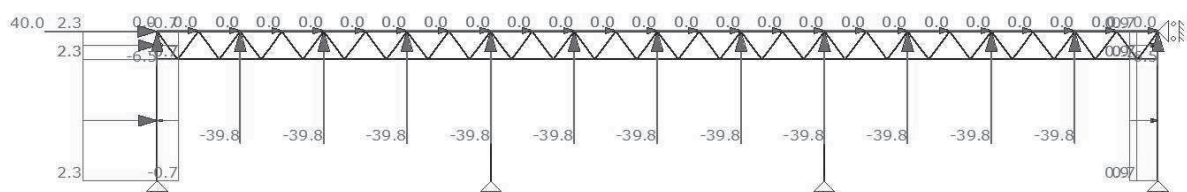
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanente Belasting	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting van Links + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Windbelasting van Links + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.4	Windbelasting van Voren + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1.00
B.G.5	Windbelasting van Voren + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.6	Sneeuwbelasting 1	Sneeuwbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.7	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				
B.G.8	Kniklengte (Symmetrisch)	Kniklengte			N.v.t.	N.v.t.				

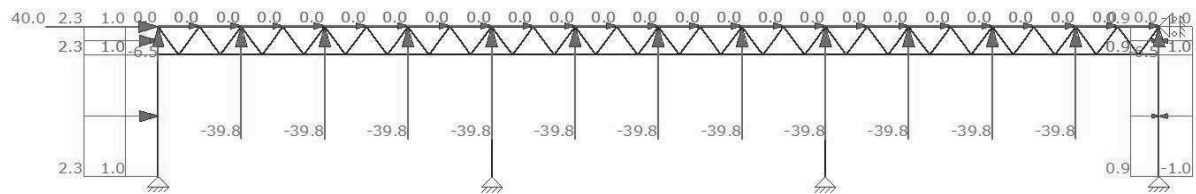
AFB. LASTEN B.G.1 PERMANENTE BELASTING



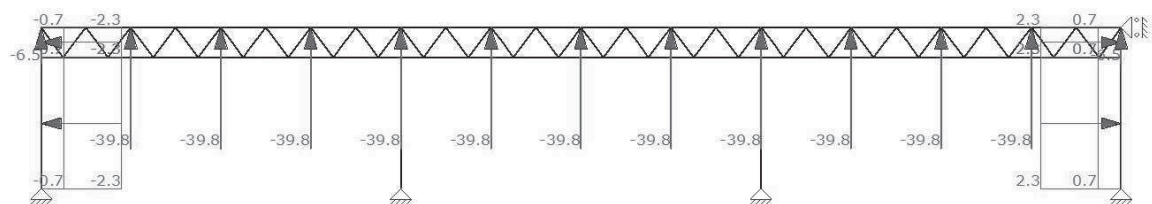
AFB. LASTEN B.G.2 WINDBELASTING VAN LINKS + OVERDRUK



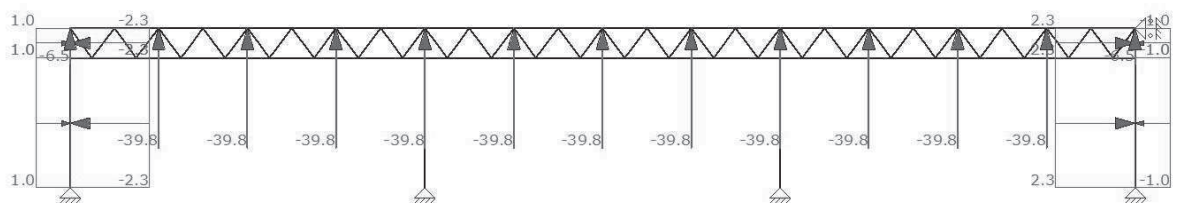
AFB. LASTEN B.G.3 WINDBELASTING VAN LINKS + ONDERDRUK



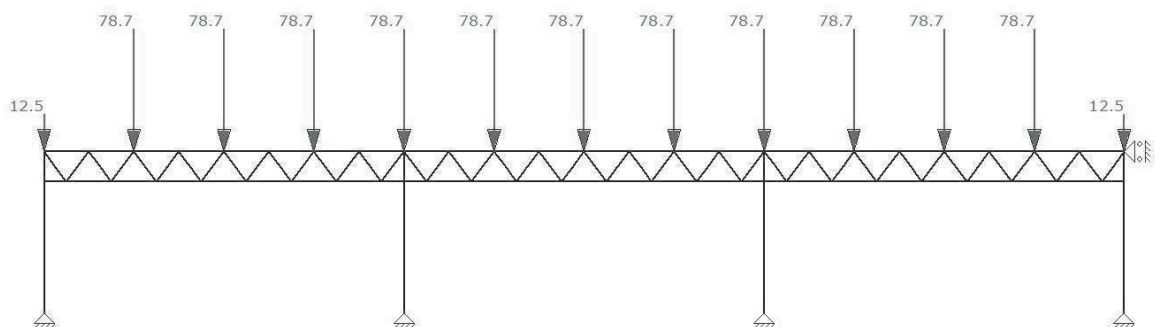
AFB. LASTEN B.G.4 WINDBELASTING VAN VOREN + OVERDRUK



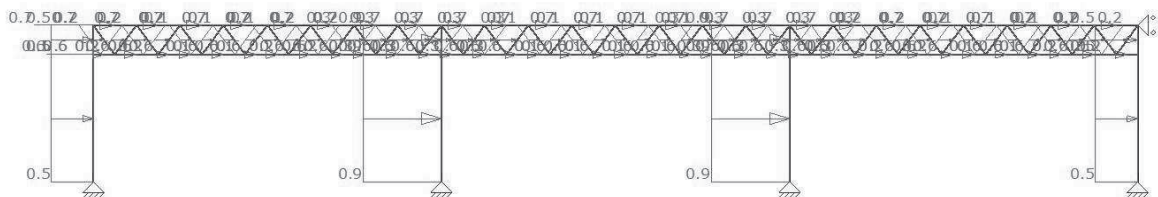
AFB. LASTEN B.G.5 WINDBELASTING VAN VOREN + ONDERDRUK



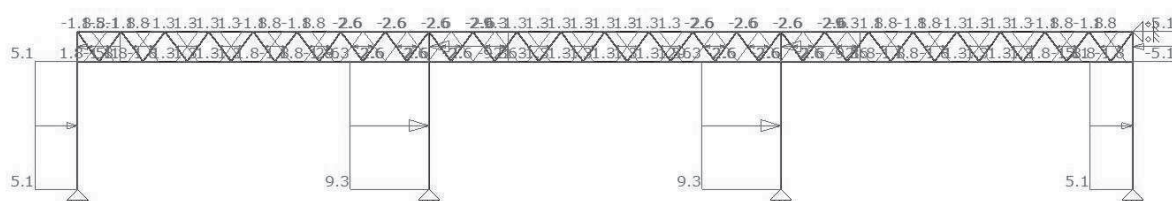
AFB. LASTEN B.G.6 SNEEUWBELASTING 1



AFB. LASTEN B.G.7 KNIKLENGTE (ASSYMETRISCH)



AFB. LASTEN B.G.8 KNIKLENGTE (SYMMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5	Fu.C.6	Fu.C.7	Fu.C.8
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Windbelasting van Links + Overdruk	-	1.50	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	1.50	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.9	Fu.C.10	Fu.C.11	Fu.C.12	Fu.C.13	Fu.C.14	Fu.C.15	Fu.C.16
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.17	Fu.C.18	Fu.C.19	Fu.C.20	Fu.C.21	Fu.C.22	Fu.C.23	Fu.C.24
B.G.1	Permanente Belasting	1.20	0.90	1.20	0.90	0.90	1.20	1.20	1.20
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	1.50	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	1.50	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	1.50
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.25	Fu.C.26	Fu.C.27	Fu.C.28				
B.G.1	Permanente Belasting	1.35	0.90	1.20	1.20				
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-				
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-				
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-				
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-				
B.G.6	Sneeuwbelasting 1	-	-	-	-				

Moederspant as ZZ	Novares Constructeurs	
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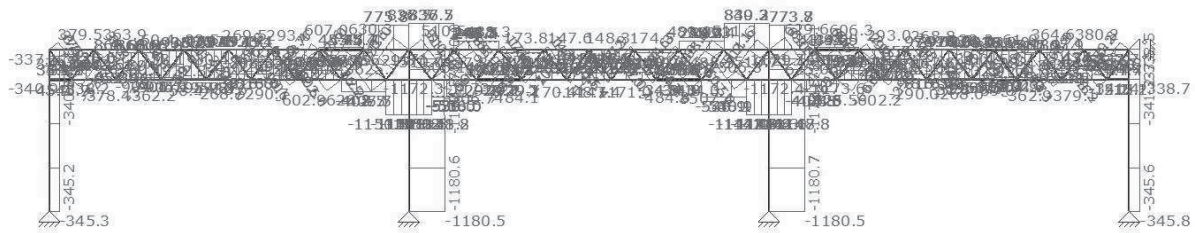
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3	Ka.C.4	Ka.C.5	Ka.C.6	Ka.C.7
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	1.00	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.8	Ka.C.9	Ka.C.10	Ka.C.11	Ka.C.12	Ka.C.13	Ka.C.14	Ka.C.15
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	1.00	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.16	Ka.C.17	Ka.C.18	Ka.C.19	Ka.C.20	Ka.C.21	Ka.C.22	Ka.C.23
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	1.00	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	1.00	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.24	Ka.C.25	Ka.C.26	Ka.C.27				
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00				
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-				
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-				
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-				
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-				
B.G.6	Sneeuwbelasting 1	-	-	-	1.00				
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-				
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-				

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1) (Overslaan)	Fr.C.1 (Overslaan)	Fr.C.2 (Overslaan)	Fr.C.3 (Overslaan)	Fr.C.4 (Overslaan)	Fr.C.5 (Overslaan)	Fr.C.6 (Overslaan)	Fr.C.7 (Overslaan)
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	0.20	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	0.20	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.8 (Overslaan)	Fr.C.9 (Overslaan)	Fr.C.10 (Overslaan)	Fr.C.11 (Overslaan)	Fr.C.12 (Overslaan)	Fr.C.13 (Overslaan)	Fr.C.14 (Overslaan)	Fr.C.15 (Overslaan)
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.4	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.5	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.6	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.7	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.8	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.16 (Overslaan)	Fr.C.17 (Overslaan)	Fr.C.18 (Overslaan)	Fr.C.19 (Overslaan)	Fr.C.20 (Overslaan)	Fr.C.21 (Overslaan)	Fr.C.22 (Overslaan)	Fr.C.23 (Overslaan)
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.3	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-



FU.C. STAAFKRACHTEN ANALYSE

Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S1	Fu.C.1	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.2	0.00			0.63	0.000	0.000 D	-22.81	0.82	0.82	0.19
	Fu.C.3	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.4	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.5	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.6	0.00			0.95	0.000	0.000 D	-45.94	1.19	1.19	0.34
	Fu.C.7	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.8	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.9	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.10	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.11	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.12	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.13	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.14	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.15	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.16	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.17	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.18	0.00			0.54	0.000	0.000 T	35.09	0.74	0.74	0.11
	Fu.C.19	0.00			0.86	0.000	0.000 T	12.26	1.11	1.11	0.27
	Fu.C.20	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.21	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.22	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.23	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.24	0.00			2.84	0.000	0.000 D	-10.02	2.70	2.70	1.85
	Fu.C.25	0.00			1.68	0.000	0.000 D	-6.97	1.82	1.82	0.87
	Fu.C.26	0.00			1.12	0.000	0.000 D	-4.88	1.21	1.21	0.58
	Fu.C.27	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
	Fu.C.28	0.00			1.50	0.000	0.000 D	-6.31	1.62	1.62	0.78
S2	Fu.C.1	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.2	0.63	1.27	1.625	1.07	0.000	0.000 T	65.39	0.80	0.80	-0.45
	Fu.C.3	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.4	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.5	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.6	0.95	2.01	1.750	1.84	0.000	0.000 T	108.00	1.17	1.17	-0.47
	Fu.C.7	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.8	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.9	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.10	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.11	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.12	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.13	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.14	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.15	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.16	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.17	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.18	0.54	1.31	1.750	1.18	0.000	0.000 T	121.14	0.86	0.86	-0.36
	Fu.C.19	0.86	2.06	1.875	1.96	0.000	0.000 T	163.93	1.23	1.23	-0.38

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S2	Fu.C.20	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.21	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.22	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.23	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.24	2.84			6.54	0.000	0.000 T	438.59	1.94	1.94	0.83
	Fu.C.25	1.68			3.86	0.000	0.000 T	276.86	1.67	1.67	0.00
	Fu.C.26	1.12			2.55	0.000	0.000 T	184.35	1.14	1.14	-0.02
	Fu.C.27	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
S3	Fu.C.28	1.50			3.43	0.000	0.000 T	246.30	1.49	1.49	-0.01
	Fu.C.1	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.2	1.07			1.63	0.000	0.000 T	146.54	0.74	0.74	0.14
	Fu.C.3	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.4	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.5	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.6	1.84			2.63	0.000	0.000 T	251.40	0.99	0.99	0.23
	Fu.C.7	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.8	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.9	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.10	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.11	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.12	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.13	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.14	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.15	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.16	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.17	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.18	1.18			1.70	0.000	0.000 T	200.26	0.71	0.71	0.11
	Fu.C.19	1.96			2.70	0.000	0.000 T	305.20	0.94	0.94	0.20
	Fu.C.20	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.21	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.22	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.23	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.24	6.54			7.38	0.000	0.000 T	868.85	0.49	0.49	0.47
	Fu.C.25	3.86			4.77	0.000	0.000 T	545.86	0.96	0.96	0.34
	Fu.C.26	2.55			3.20	0.000	0.000 T	363.66	0.73	0.73	0.24
	Fu.C.27	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
	Fu.C.28	3.43			4.25	0.000	0.000 T	485.71	0.90	0.90	0.31
S4	Fu.C.1	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.2	1.63	1.65	0.313	1.44	0.000	0.000 T	146.54	0.14	-0.46	-0.46
	Fu.C.3	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.4	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.5	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.6	2.63	2.68	0.438	2.47	0.000	0.000 T	251.40	0.23	-0.52	-0.52
	Fu.C.7	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.8	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.9	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.10	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.11	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.12	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.13	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.14	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.15	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.16	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.17	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.18	1.70	1.72	0.250	1.49	0.000	0.000 T	200.26	0.12	-0.47	-0.47
	Fu.C.19	2.70	2.74	0.375	2.52	0.000	0.000 T	305.20	0.21	-0.53	-0.53
	Fu.C.20	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.21	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.22	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.23	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.24	7.38			8.25	0.000	0.000 T	868.85	0.51	0.61	0.59
	Fu.C.25	4.77	4.96	0.875	4.93	0.000	0.000 T	545.86	0.36	0.36	-0.23
	Fu.C.26	3.20	3.30	0.750	3.25	0.000	0.000 T	363.66	0.25	0.25	-0.22
	Fu.C.27	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
	Fu.C.28	4.25	4.41	0.813	4.37	0.000	0.000 T	485.71	0.32	0.32	-0.23
S5	Fu.C.1	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S5	Fu.C.2	1.44	1.85	1.375	1.52	0.000	0.000 T	160.00	0.63	0.63	-0.56
	Fu.C.3	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.4	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.5	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.6	2.47	3.03	1.375	2.67	0.000	0.000 T	277.08	0.81	0.81	-0.66
	Fu.C.7	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.8	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.9	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.10	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.11	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.12	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.13	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.14	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.15	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.16	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.17	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.18	1.49	1.89	1.375	1.56	0.000	0.000 T	211.82	0.61	0.61	-0.56
	Fu.C.19	2.52	3.06	1.375	2.71	0.000	0.000 T	328.91	0.78	0.78	-0.65
	Fu.C.20	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.21	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.22	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.23	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.24	8.25			8.91	0.000	0.000 T	938.60	-0.04	0.46	0.43
	Fu.C.25	4.93	5.48	1.625	5.33	0.000	0.000 T	591.10	0.65	0.65	-0.39
	Fu.C.26	3.25	3.67	1.500	3.51	0.000	0.000 T	393.86	0.54	0.54	-0.35
	Fu.C.27	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
	Fu.C.28	4.37	4.88	1.625	4.72	0.000	0.000 T	525.98	0.63	0.63	-0.38
S6	Fu.C.1	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.2	1.52	1.83	1.125	1.82	0.000	0.000 T	164.03	0.54	0.54	-0.06
	Fu.C.3	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.4	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.5	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.6	2.67	3.02	1.125	3.01	0.000	0.000 T	288.10	0.64	0.64	-0.09
	Fu.C.7	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.8	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.9	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.10	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.11	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.12	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.13	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.14	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.15	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.16	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.17	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.18	1.56	1.85	1.125	1.84	0.000	0.000 T	214.00	0.52	0.52	-0.06
	Fu.C.19	2.71	3.04	1.063	3.03	0.000	0.000 T	338.07	0.62	0.62	-0.09
	Fu.C.20	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.21	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.22	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.23	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.24	8.91			8.40	0.000	0.000 T	976.12	-0.55	-0.57	-0.26
	Fu.C.25	5.33	5.47	0.813	5.43	0.000	0.000 T	613.24	0.33	0.33	-0.16
	Fu.C.26	3.51	3.66	0.938	3.64	0.000	0.000 T	408.59	0.32	0.32	-0.11
	Fu.C.27	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
	Fu.C.28	4.72	4.87	0.875	4.84	0.000	0.000 T	545.68	0.34	0.34	-0.14
S7	Fu.C.1	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.2	1.82			1.38	0.000	0.000 T	164.03	-0.06	-0.65	-0.65
	Fu.C.3	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.4	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.5	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.6	3.01			2.44	0.000	0.000 T	288.10	-0.08	-0.82	-0.82
	Fu.C.7	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.8	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.9	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.10	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.11	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S7	Fu.C.12	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.13	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.14	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.15	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.16	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.17	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.18	1.84			1.40	0.000	0.000 T	214.00	-0.06	-0.64	-0.64
	Fu.C.19	3.03			2.47	0.000	0.000 T	338.07	-0.09	-0.80	-0.80
	Fu.C.20	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.21	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.22	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.23	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.24	8.40			8.23	0.000	0.000 T	976.12	-0.20	-0.21	0.06
	Fu.C.25	5.43			4.91	0.000	0.000 T	613.24	-0.14	-0.65	-0.65
	Fu.C.26	3.64			3.23	0.000	0.000 T	408.59	-0.10	-0.54	-0.54
	Fu.C.27	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
S8	Fu.C.28	4.84			4.35	0.000	0.000 T	545.68	-0.13	-0.63	-0.63
	Fu.C.1	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.2	1.38	1.46	0.625	0.56	0.000	0.000 T	101.05	0.29	-0.94	-0.94
	Fu.C.3	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.4	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.5	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.6	2.44	2.48	0.375	1.02	0.000	0.000 T	182.67	0.23	-1.36	-1.36
	Fu.C.7	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.8	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.9	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.10	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.11	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.12	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.13	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.14	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.15	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.16	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.17	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.18	1.40	1.48	0.500	0.56	0.000	0.000 T	149.21	0.27	-0.94	-0.94
	Fu.C.19	2.47	2.50	0.375	1.03	0.000	0.000 T	230.86	0.21	-1.35	-1.35
	Fu.C.20	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.21	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.22	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.23	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.24	8.23			3.70	0.000	0.000 T	656.90	-1.48	-2.08	-2.08
	Fu.C.25	4.91			2.15	0.000	0.000 T	413.96	-0.35	-1.82	-1.82
	Fu.C.26	3.23			1.42	0.000	0.000 T	275.80	-0.18	-1.26	-1.26
	Fu.C.27	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
	Fu.C.28	4.35			1.91	0.000	0.000 T	368.35	-0.29	-1.64	-1.64
S9	Fu.C.1	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.2	0.56	0.65	0.625	0.55	0.000	0.000 T	29.49	0.31	-0.32	-0.32
	Fu.C.3	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.4	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.5	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.6	1.02	1.09	0.438	0.88	0.000	0.000 T	64.12	0.31	-0.53	-0.53
	Fu.C.7	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.8	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.9	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.10	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.11	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.12	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.13	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.14	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.15	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.16	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.17	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.18	0.56	0.66	0.625	0.57	0.000	0.000 T	75.91	0.32	0.32	-0.31
	Fu.C.19	1.03	1.10	0.500	0.90	0.000	0.000 T	110.64	0.32	-0.51	-0.51
	Fu.C.20	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.21	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S9	Fu.C.22	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.23	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.24	3.70			2.31	0.000	0.000 T	310.82	-0.70	-1.41	-1.41
	Fu.C.25	2.15			1.54	0.000	0.000 T	194.77	-0.02	-0.92	-0.92
	Fu.C.26	1.42			1.03	0.000	0.000 T	129.68	0.00	-0.61	-0.61
	Fu.C.27	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
	Fu.C.28	1.91			1.37	0.000	0.000 T	173.27	-0.01	-0.82	-0.82
S10	Fu.C.1	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.2	0.55			-0.25	0.000	0.000 T	29.49	-0.32	-0.96	-0.96
	Fu.C.3	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.4	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.5	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.6	0.88			-0.31	0.000	0.000 T	64.12	-0.53	-1.37	-1.37
	Fu.C.7	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.8	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.9	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.10	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.11	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.12	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.13	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.14	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.15	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.16	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.17	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.18	0.57			-0.22	0.000	0.000 T	75.91	-0.31	-0.94	-0.94
	Fu.C.19	0.90			-0.27	0.000	0.000 T	110.64	-0.51	-1.35	-1.35
	Fu.C.20	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.21	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.22	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.23	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.24	2.31			-0.02	0.000	0.000 T	310.82	-1.41	-2.20	-2.20
	Fu.C.25	1.54			-0.21	0.000	0.000 T	194.77	-0.91	-1.84	-1.84
	Fu.C.26	1.03			-0.14	0.000	0.000 T	129.68	-0.61	-1.24	-1.24
	Fu.C.27	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
	Fu.C.28	1.37			-0.19	0.000	0.000 T	173.27	-0.81	-1.64	-1.64
S11	Fu.C.1	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.2	-0.25	0.17	1.250	-0.20	0.000	0.000 D	-111.99	0.65	0.65	-0.62
	Fu.C.3	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.4	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.5	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.6	-0.31	0.20	1.250	-0.36	0.000	0.000 D	-175.76	0.81	-0.88	-0.88
	Fu.C.7	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.8	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.9	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.10	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.11	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.12	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.13	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.14	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.15	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.16	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.17	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.18	-0.22	0.11	1.125	-0.36	0.000	0.000 D	-67.27	0.57	-0.69	-0.69
	Fu.C.19	-0.27	0.14	1.125	-0.52	0.000	0.000 D	-130.87	0.74	-0.95	-0.95
	Fu.C.20	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.21	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.22	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.23	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.24	-0.02	0.10	0.625	-1.12	0.000	0.000 D	-405.73	0.32	-1.35	-1.35
	Fu.C.25	-0.21	0.12	1.000	-0.80	0.000	0.000 D	-254.76	0.68	-1.21	-1.21
	Fu.C.26	-0.14	0.08	0.875	-0.54	0.000	0.000 D	-169.99	0.46	-0.80	-0.80
	Fu.C.27	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
	Fu.C.28	-0.19	0.11	1.000	-0.71	0.000	0.000 D	-226.81	0.61	-1.08	-1.08
S12	Fu.C.1	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.2	-0.20	0.02	0.938	0.00	0.000	0.000 D	-262.86	0.46	0.46	-0.17
	Fu.C.3	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S12	Fu.C.4	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.5	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.6	-0.36	0.01	1.063	0.00	0.000	0.000 D	-429.78	0.67	0.67	-0.17
	Fu.C.7	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.8	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.9	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.10	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.11	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.12	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.13	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.14	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.15	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.16	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.17	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.18	-0.36	0.00	1.188	0.00	0.000	0.000 D	-219.94	0.59	0.59	-0.04
	Fu.C.19	-0.52			0.00	0.000	0.000 D	-386.61	0.80	0.80	-0.03
	Fu.C.20	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.21	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.22	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.23	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.24	-1.12			0.00	0.000	0.000 D	-1150.78	1.02	1.02	0.25
	Fu.C.25	-0.80			0.00	0.000	0.000 D	-725.60	1.00	1.00	0.08
	Fu.C.26	-0.54			0.00	0.000	0.000 D	-483.80	0.69	0.69	0.07
	Fu.C.27	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
	Fu.C.28	-0.71			0.00	0.000	0.000 D	-645.81	0.90	0.90	0.08
S13	Fu.C.1	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.2	0.00	0.01	0.188	-0.26	0.000	0.000 D	-259.26	0.11	-0.52	-0.52
	Fu.C.3	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.4	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.5	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.6	0.00	0.00	0.063	-0.45	0.000	0.000 D	-424.64	0.07	-0.76	-0.76
	Fu.C.7	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.8	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.9	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.10	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.11	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.12	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.13	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.14	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.15	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.16	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.17	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.18	0.00			-0.43	0.000	0.000 D	-217.55	-0.03	-0.66	-0.66
	Fu.C.19	0.00			-0.62	0.000	0.000 D	-382.65	-0.07	-0.90	-0.90
	Fu.C.20	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.21	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.22	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.23	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.24	0.00			-1.40	0.000	0.000 D	-1141.19	-0.64	-1.39	-1.39
	Fu.C.25	0.00			-0.98	0.000	0.000 D	-718.80	-0.28	-1.19	-1.19
	Fu.C.26	0.00			-0.66	0.000	0.000 D	-478.99	-0.20	-0.82	-0.82
	Fu.C.27	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
	Fu.C.28	0.00			-0.87	0.000	0.000 D	-639.64	-0.26	-1.07	-1.07
S14	Fu.C.1	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.2	-0.26	0.00	1.000	-0.56	0.000	0.000 D	-139.65	0.52	-0.75	-0.75
	Fu.C.3	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.4	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.5	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.6	-0.45	-0.09	1.000	-0.80	0.000	0.000 D	-219.89	0.70	-0.97	-0.97
	Fu.C.7	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.8	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.9	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.10	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.11	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.12	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.13	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S14	Fu.C.14	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.15	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.16	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.17	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.18	-0.43	-0.09	1.125	-0.54	0.000	0.000 D	-96.71	0.59	-0.67	-0.67
	Fu.C.19	-0.62	-0.17	1.125	-0.78	0.000	0.000 D	-176.71	0.78	-0.90	-0.90
	Fu.C.20	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.21	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.22	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.23	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.24	-1.40	-0.96	1.250	-1.47	0.000	0.000 D	-537.96	0.79	0.79	-0.74
	Fu.C.25	-0.98	-0.48	1.125	-1.14	0.000	0.000 D	-337.50	0.88	-0.96	-0.96
	Fu.C.26	-0.66	-0.32	1.125	-0.76	0.000	0.000 D	-224.87	0.59	-0.65	-0.65
	Fu.C.27	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
S15	Fu.C.28	-0.87	-0.43	1.125	-1.01	0.000	0.000 D	-300.32	0.78	-0.86	-0.86
	Fu.C.1	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.2	-0.56			0.15	0.000	0.000 D	-29.25	0.88	0.88	0.25
	Fu.C.3	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.4	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.5	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.6	-0.80			0.23	0.000	0.000 D	-28.87	1.25	1.25	0.41
	Fu.C.7	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.8	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.9	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.10	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.11	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.12	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.13	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.14	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.15	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.16	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.17	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.18	-0.54			0.15	0.000	0.000 T	14.83	0.86	0.86	0.23
	Fu.C.19	-0.78			0.23	0.000	0.000 T	15.39	1.23	1.23	0.39
	Fu.C.20	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.21	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.22	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.23	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.24	-1.47			0.39	0.000	0.000 T	37.76	1.91	1.91	1.06
	Fu.C.25	-1.14			0.33	0.000	0.000 T	23.19	1.64	1.64	0.69
	Fu.C.26	-0.76			0.22	0.000	0.000 T	15.58	1.10	1.10	0.46
	Fu.C.27	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
	Fu.C.28	-1.01			0.29	0.000	0.000 T	20.69	1.46	1.46	0.62
S16	Fu.C.1	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.2	0.15	0.21	0.500	0.06	0.000	0.000 D	-29.25	0.25	-0.39	-0.39
	Fu.C.3	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.4	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.5	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.6	0.23	0.35	0.625	0.21	0.000	0.000 D	-28.87	0.41	-0.44	-0.44
	Fu.C.7	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.8	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.9	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.10	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.11	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.12	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.13	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.14	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.15	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.16	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.17	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.18	0.15	0.20	0.438	0.04	0.000	0.000 T	14.82	0.23	-0.40	-0.40
	Fu.C.19	0.23	0.34	0.563	0.19	0.000	0.000 T	15.39	0.39	-0.46	-0.46
	Fu.C.20	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.21	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.22	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.23	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S16	Fu.C.24	0.39			1.20	0.000	0.000 T	37.76	1.06	1.06	0.22
	Fu.C.25	0.33	0.64	0.938	0.60	0.000	0.000 T	23.18	0.69	0.69	-0.26
	Fu.C.26	0.22	0.43	0.938	0.40	0.000	0.000 T	15.58	0.46	0.46	-0.17
	Fu.C.27	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
	Fu.C.28	0.29	0.57	0.938	0.54	0.000	0.000 T	20.69	0.62	0.62	-0.23
S17	Fu.C.1	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.2	0.06	1.00	1.875	0.92	0.000	0.000 T	11.08	0.98	0.98	-0.29
	Fu.C.3	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.4	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.5	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.6	0.21	1.76	2.125	1.72	0.000	0.000 T	40.41	1.44	1.44	-0.23
	Fu.C.7	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.8	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.9	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.10	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.11	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.12	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.13	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.14	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.15	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.16	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.17	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.18	0.04	1.00	2.000	0.93	0.000	0.000 T	56.29	0.98	0.98	-0.27
	Fu.C.19	0.19	1.76	2.125	1.73	0.000	0.000 T	85.75	1.45	1.45	-0.21
	Fu.C.20	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.21	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.22	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.23	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.24	1.20			5.95	0.000	0.000 T	241.58	2.62	2.62	1.19
	Fu.C.25	0.60			3.53	0.000	0.000 T	152.63	2.07	2.07	0.28
	Fu.C.26	0.40			2.35	0.000	0.000 T	101.87	1.39	1.39	0.17
	Fu.C.27	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
	Fu.C.28	0.54			3.14	0.000	0.000 T	135.89	1.85	1.85	0.24
S18	Fu.C.1	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.2	0.92			1.31	0.000	0.000 T	42.70	0.62	0.62	0.00
	Fu.C.3	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.4	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.5	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.6	1.72			2.23	0.000	0.000 T	96.30	0.82	0.82	0.00
	Fu.C.7	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.8	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.9	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.10	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.11	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.12	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.13	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.14	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.15	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.16	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.17	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.18	0.93			1.31	0.000	0.000 T	89.09	0.62	0.62	0.00
	Fu.C.19	1.73			2.23	0.000	0.000 T	142.79	0.80	0.80	0.00
	Fu.C.20	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.21	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.22	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.23	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.24	5.95			6.25	0.000	0.000 T	416.50	0.49	0.49	-0.01
	Fu.C.25	3.53			4.04	0.000	0.000 T	261.19	0.81	0.81	0.00
	Fu.C.26	2.35			2.70	0.000	0.000 T	174.22	0.57	0.57	0.00
	Fu.C.27	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
	Fu.C.28	3.14			3.60	0.000	0.000 T	232.50	0.73	0.73	0.00
S19	Fu.C.1	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.2	1.31			0.91	0.000	0.000 T	42.70	0.00	-0.63	-0.63
	Fu.C.3	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.4	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.5	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S19	Fu.C.6	2.23			1.71	0.000	0.000 T	96.30	0.00	-0.82	-0.82
	Fu.C.7	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.8	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.9	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.10	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.11	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.12	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.13	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.14	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.15	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.16	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.17	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.18	1.31			0.93	0.000	0.000 T	89.09	0.00	-0.62	-0.62
	Fu.C.19	2.23			1.73	0.000	0.000 T	142.79	0.00	-0.80	-0.80
	Fu.C.20	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.21	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.22	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.23	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.24	6.25			5.94	0.000	0.000 T	416.50	0.01	-0.49	-0.49
	Fu.C.25	4.04			3.53	0.000	0.000 T	261.19	0.00	-0.81	-0.81
	Fu.C.26	2.70			2.34	0.000	0.000 T	174.22	0.00	-0.57	-0.57
	Fu.C.27	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
	Fu.C.28	3.60			3.14	0.000	0.000 T	232.50	0.00	-0.73	-0.73
S20	Fu.C.1	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.2	0.91	0.99	0.500	0.02	0.000	0.000 T	8.55	0.28	-0.99	-0.99
	Fu.C.3	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.4	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.5	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.6	1.71	1.75	0.375	0.17	0.000	0.000 T	37.77	0.22	-1.46	-1.46
	Fu.C.7	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.8	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.9	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.10	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.11	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.12	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.13	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.14	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.15	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.16	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.17	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.18	0.93	1.00	0.500	0.04	0.000	0.000 T	56.17	0.27	-0.98	-0.98
	Fu.C.19	1.73	1.76	0.375	0.18	0.000	0.000 T	85.50	0.21	-1.45	-1.45
	Fu.C.20	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.21	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.22	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.23	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.24	5.94			1.19	0.000	0.000 T	240.86	-1.19	-2.63	-2.63
	Fu.C.25	3.53			0.59	0.000	0.000 T	152.16	-0.28	-2.08	-2.08
	Fu.C.26	2.34			0.40	0.000	0.000 T	101.55	-0.17	-1.39	-1.39
	Fu.C.27	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
	Fu.C.28	3.14			0.53	0.000	0.000 T	135.47	-0.24	-1.85	-1.85
S21	Fu.C.1	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.2	0.02	0.17	0.750	0.10	0.000	0.000 D	-34.26	0.38	0.38	-0.26
	Fu.C.3	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.4	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.5	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.6	0.17	0.31	0.625	0.18	0.000	0.000 D	-34.09	0.43	0.43	-0.41
	Fu.C.7	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.8	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.9	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.10	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.11	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.12	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.13	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.14	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.15	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S21	Fu.C.16	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.17	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.18	0.04	0.20	0.813	0.15	0.000	0.000 T	14.58	0.40	0.40	-0.23
	Fu.C.19	0.18	0.34	0.688	0.23	0.000	0.000 T	14.89	0.46	0.46	-0.39
	Fu.C.20	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.21	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.22	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.23	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.24	1.19			0.38	0.000	0.000 T	36.35	-0.22	-1.07	-1.07
	Fu.C.25	0.59	0.64	0.313	0.32	0.000	0.000 T	22.25	0.25	-0.69	-0.69
	Fu.C.26	0.40	0.42	0.313	0.21	0.000	0.000 T	14.95	0.17	-0.46	-0.46
	Fu.C.27	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
S22	Fu.C.28	0.53	0.57	0.313	0.28	0.000	0.000 T	19.85	0.23	-0.62	-0.62
	Fu.C.1	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.2	0.10			-0.61	0.000	0.000 D	-34.26	-0.26	-0.89	-0.89
	Fu.C.3	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.4	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.5	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.6	0.18			-0.86	0.000	0.000 D	-34.09	-0.41	-1.26	-1.26
	Fu.C.7	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.8	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.9	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.10	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.11	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.12	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.13	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.14	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.15	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.16	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.17	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.18	0.15			-0.54	0.000	0.000 T	14.58	-0.23	-0.86	-0.86
	Fu.C.19	0.23			-0.79	0.000	0.000 T	14.89	-0.39	-1.23	-1.23
	Fu.C.20	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.21	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.22	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.23	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.24	0.38			-1.49	0.000	0.000 T	36.35	-1.07	-1.91	-1.91
	Fu.C.25	0.32			-1.15	0.000	0.000 T	22.25	-0.69	-1.64	-1.64
	Fu.C.26	0.21			-0.76	0.000	0.000 T	14.95	-0.46	-1.10	-1.10
	Fu.C.27	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
	Fu.C.28	0.28			-1.02	0.000	0.000 T	19.85	-0.62	-1.46	-1.46
S23	Fu.C.1	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.2	-0.61	-0.04	1.500	-0.29	0.000	0.000 D	-147.24	0.76	0.76	-0.50
	Fu.C.3	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.4	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.5	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.6	-0.86	-0.13	1.500	-0.48	0.000	0.000 D	-227.77	0.98	0.98	-0.69
	Fu.C.7	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.8	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.9	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.10	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.11	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.12	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.13	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.14	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.15	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.16	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.17	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.18	-0.54	-0.09	1.375	-0.44	0.000	0.000 D	-97.08	0.67	0.67	-0.59
	Fu.C.19	-0.79	-0.18	1.375	-0.63	0.000	0.000 D	-177.45	0.90	0.90	-0.78
	Fu.C.20	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.21	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.22	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.23	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.24	-1.49	-0.97	1.250	-1.42	0.000	0.000 D	-540.10	0.74	-0.79	-0.79
	Fu.C.25	-1.15	-0.49	1.375	-0.99	0.000	0.000 D	-338.90	0.96	0.96	-0.88

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S23	Fu.C.26	-0.76	-0.33	1.375	-0.67	0.000	0.000 D	-225.83	0.65	0.65	-0.59
	Fu.C.27	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
	Fu.C.28	-1.02	-0.43	1.375	-0.88	0.000	0.000 D	-301.58	0.86	0.86	-0.78
S24	Fu.C.1	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.2	-0.29	0.01	1.063	0.00	0.000	0.000 D	-269.48	0.54	0.54	-0.09
	Fu.C.3	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.4	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.5	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.6	-0.48	0.00	1.188	0.00	0.000	0.000 D	-435.27	0.79	0.79	-0.05
	Fu.C.7	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.8	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.9	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.10	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.11	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.12	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.13	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.14	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.15	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.16	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.17	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.18	-0.44			0.00	0.000	0.000 D	-218.05	0.66	0.66	0.03
	Fu.C.19	-0.63			0.00	0.000	0.000 D	-383.66	0.90	0.90	0.07
	Fu.C.20	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.21	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
S25	Fu.C.22	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.23	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.24	-1.42			0.00	0.000	0.000 D	-1144.07	1.40	1.40	0.65
	Fu.C.25	-0.99			0.00	0.000	0.000 D	-720.70	1.20	1.20	0.29
	Fu.C.26	-0.67			0.00	0.000	0.000 D	-480.29	0.82	0.82	0.20
	Fu.C.27	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.28	-0.88			0.00	0.000	0.000 D	-641.35	1.08	1.08	0.26
	Fu.C.1	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.2	0.00	0.02	0.313	-0.20	0.000	0.000 D	-270.31	0.17	-0.46	-0.46
	Fu.C.3	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.4	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.5	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.6	0.00	0.01	0.188	-0.35	0.000	0.000 D	-436.66	0.17	-0.67	-0.67
	Fu.C.7	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.8	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.9	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.10	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.11	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.12	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.13	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.14	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.15	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.16	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.17	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.18	0.00	0.00	0.063	-0.36	0.000	0.000 D	-219.40	0.04	-0.59	-0.59
	Fu.C.19	0.00	0.00	0.013	-0.51	0.000	0.000 D	-385.54	0.04	-0.80	-0.80
	Fu.C.20	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.21	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.22	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.23	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.24	0.00			-1.10	0.000	0.000 D	-1148.26	-0.24	-1.01	-1.01
	Fu.C.25	0.00			-0.79	0.000	0.000 D	-723.71	-0.07	-0.99	-0.99
	Fu.C.26	0.00			-0.53	0.000	0.000 D	-482.43	-0.07	-0.69	-0.69
	Fu.C.27	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
	Fu.C.28	0.00			-0.70	0.000	0.000 D	-644.08	-0.07	-0.89	-0.89
S26	Fu.C.1	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.2	-0.20	0.16	1.250	-0.26	0.000	0.000 D	-113.62	0.61	-0.65	-0.65
	Fu.C.3	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.4	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.5	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.6	-0.35	0.20	1.250	-0.31	0.000	0.000 D	-176.93	0.88	0.88	-0.82
	Fu.C.7	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S26	Fu.C.8	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.9	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.10	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.11	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.12	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.13	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.14	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.15	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.16	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.17	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.18	-0.36	0.11	1.375	-0.21	0.000	0.000 D	-66.85	0.69	0.69	-0.57
	Fu.C.19	-0.51	0.15	1.375	-0.26	0.000	0.000 D	-130.04	0.95	0.95	-0.74
	Fu.C.20	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.21	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.22	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.23	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.24	-1.10	0.11	1.875	-0.01	0.000	0.000 D	-403.82	1.35	1.35	-0.32
	Fu.C.25	-0.79	0.13	1.500	-0.20	0.000	0.000 D	-253.31	1.21	1.21	-0.68
	Fu.C.26	-0.53	0.09	1.625	-0.14	0.000	0.000 D	-168.94	0.80	0.80	-0.46
	Fu.C.27	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
	Fu.C.28	-0.70	0.12	1.500	-0.18	0.000	0.000 D	-225.47	1.08	1.08	-0.61
S27	Fu.C.23	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.24	-0.01			2.32	0.000	0.000 T	312.17	2.20	2.20	1.41
	Fu.C.25	-0.20			1.54	0.000	0.000 T	195.81	1.84	1.84	0.91
	Fu.C.26	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.27	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.28	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.1	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.2	-0.26			0.56	0.000	0.000 T	33.64	0.97	0.97	0.34
	Fu.C.3	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.4	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.5	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.6	-0.31			0.90	0.000	0.000 T	68.66	1.39	1.39	0.54
	Fu.C.7	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.8	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.9	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.10	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.11	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.12	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.13	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.14	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.15	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.16	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.17	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
	Fu.C.18	-0.21			0.57	0.000	0.000 T	76.22	0.94	0.94	0.31
	Fu.C.19	-0.26			0.90	0.000	0.000 T	111.24	1.35	1.35	0.51
	Fu.C.20	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.21	-0.14			1.03	0.000	0.000 T	130.45	1.23	1.23	0.61
	Fu.C.22	-0.18			1.37	0.000	0.000 T	174.23	1.64	1.64	0.81
S28	Fu.C.1	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.2	0.56	0.68	0.688	0.60	0.000	0.000 T	33.64	0.34	0.34	-0.29
	Fu.C.3	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.4	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.5	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.6	0.90	1.12	0.813	1.06	0.000	0.000 T	68.66	0.54	0.54	-0.29
	Fu.C.7	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.8	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.9	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.10	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.11	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.12	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.13	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.14	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.15	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.16	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.17	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S28	Fu.C.18	0.57	0.66	0.625	0.56	0.000	0.000 T	76.21	0.31	-0.32	-0.32
	Fu.C.19	0.90	1.10	0.750	1.03	0.000	0.000 T	111.24	0.51	0.51	-0.32
	Fu.C.20	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.21	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.22	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.23	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.24	2.32			3.71	0.000	0.000 T	312.16	1.41	1.41	0.70
	Fu.C.25	1.54			2.15	0.000	0.000 T	195.81	0.91	0.91	0.02
	Fu.C.26	1.03			1.43	0.000	0.000 T	130.45	0.61	0.61	0.00
	Fu.C.27	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
S29	Fu.C.28	1.37			1.91	0.000	0.000 T	174.23	0.81	0.81	0.01
	Fu.C.1	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.2	0.60	1.52	2.000	1.45	0.000	0.000 T	110.88	0.95	0.95	-0.27
	Fu.C.3	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.4	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.5	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.6	1.06	2.54	2.125	2.51	0.000	0.000 T	192.79	1.36	1.36	-0.21
	Fu.C.7	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.8	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.9	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.10	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.11	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.12	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.13	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.14	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.15	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.16	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.17	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.18	0.56	1.48	2.000	1.40	0.000	0.000 T	149.40	0.94	0.94	-0.27
	Fu.C.19	1.03	2.50	2.125	2.47	0.000	0.000 T	231.24	1.35	1.35	-0.21
	Fu.C.20	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.21	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.22	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.23	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.24	3.71			8.24	0.000	0.000 T	657.68	2.08	2.08	1.48
	Fu.C.25	2.15			4.91	0.000	0.000 T	414.60	1.82	1.82	0.35
	Fu.C.26	1.43			3.24	0.000	0.000 T	276.27	1.25	1.25	0.18
	Fu.C.27	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
	Fu.C.28	1.91			4.35	0.000	0.000 T	368.94	1.64	1.64	0.29
S30	Fu.C.1	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.2	1.45			1.90	0.000	0.000 T	179.67	0.66	0.66	0.07
	Fu.C.3	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.4	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.5	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.6	2.51			3.09	0.000	0.000 T	303.94	0.82	0.82	0.10
	Fu.C.7	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.8	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.9	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.10	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.11	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.12	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.13	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.14	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.15	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.16	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.17	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.18	1.40			1.84	0.000	0.000 T	214.08	0.64	0.64	0.06
	Fu.C.19	2.47			3.03	0.000	0.000 T	338.22	0.80	0.80	0.09
	Fu.C.20	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.21	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.22	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.23	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
	Fu.C.24	8.24			8.40	0.000	0.000 T	976.32	-0.06	0.21	0.20
	Fu.C.25	4.91			5.43	0.000	0.000 T	613.46	0.65	0.65	0.14
	Fu.C.26	3.24			3.64	0.000	0.000 T	408.77	0.54	0.54	0.10
	Fu.C.27	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S30	Fu.C.28	4.35			4.84	0.000	0.000 T	545.89	0.63	0.63	0.13
S31	Fu.C.1	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.2	1.90	1.91	0.125	1.62	0.000	0.000 T	179.67	0.07	-0.52	-0.52
	Fu.C.3	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.4	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.5	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.6	3.09	3.10	0.188	2.77	0.000	0.000 T	303.94	0.10	-0.62	-0.62
	Fu.C.7	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.8	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.9	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.10	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.11	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.12	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.13	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.14	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.15	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.16	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.17	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.18	1.84	1.85	0.125	1.56	0.000	0.000 T	214.08	0.06	-0.52	-0.52
	Fu.C.19	3.03	3.04	0.188	2.71	0.000	0.000 T	338.22	0.09	-0.62	-0.62
	Fu.C.20	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.21	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.22	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.23	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.24	8.40			8.91	0.000	0.000 T	976.32	0.26	0.57	0.55
	Fu.C.25	5.43	5.47	0.438	5.33	0.000	0.000 T	613.46	0.16	-0.33	-0.33
	Fu.C.26	3.64	3.66	0.313	3.51	0.000	0.000 T	408.77	0.11	-0.33	-0.33
	Fu.C.27	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
S32	Fu.C.28	4.84	4.87	0.375	4.72	0.000	0.000 T	545.89	0.14	-0.34	-0.34
	Fu.C.1	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.2	1.62	1.99	1.250	1.61	0.000	0.000 T	181.31	0.59	-0.59	-0.59
	Fu.C.3	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.4	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.5	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.6	2.77	3.16	1.125	2.65	0.000	0.000 T	298.50	0.68	-0.76	-0.76
	Fu.C.7	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.8	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.9	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.10	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.11	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.12	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.13	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.14	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.15	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.16	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.17	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.18	1.56	1.88	1.250	1.48	0.000	0.000 T	211.78	0.56	-0.61	-0.61
	Fu.C.19	2.71	3.06	1.125	2.52	0.000	0.000 T	328.83	0.65	-0.78	-0.78
	Fu.C.20	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.21	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.22	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.23	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.24	8.91			8.24	0.000	0.000 T	938.23	-0.44	-0.46	0.03
	Fu.C.25	5.33	5.48	0.875	4.92	0.000	0.000 T	590.91	0.38	-0.66	-0.66
	Fu.C.26	3.51	3.67	1.000	3.24	0.000	0.000 T	393.75	0.35	-0.54	-0.54
	Fu.C.27	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
	Fu.C.28	4.72	4.88	0.875	4.36	0.000	0.000 T	525.82	0.38	-0.63	-0.63
S33	Fu.C.1	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.2	1.61	1.83	0.938	1.82	0.000	0.000 T	173.53	0.46	0.46	-0.13
	Fu.C.3	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.4	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.5	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.6	2.65	2.86	0.875	2.81	0.000	0.000 T	278.42	0.52	0.52	-0.22
	Fu.C.7	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.8	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.9	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S33	Fu.C.10	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.11	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.12	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.13	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.14	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.15	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.16	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.17	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.18	1.48	1.71	1.000	1.70	0.000	0.000 T	200.11	0.47	0.47	-0.12
	Fu.C.19	2.52	2.74	0.875	2.69	0.000	0.000 T	304.89	0.53	0.53	-0.21
	Fu.C.20	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.21	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.22	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.23	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.24	8.24			7.37	0.000	0.000 T	867.92	-0.59	-0.60	-0.51
	Fu.C.25	4.92	4.95	0.375	4.77	0.000	0.000 T	545.26	0.23	-0.36	-0.36
	Fu.C.26	3.24	3.29	0.500	3.19	0.000	0.000 T	363.26	0.22	-0.25	-0.25
	Fu.C.27	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
	Fu.C.28	4.36	4.40	0.438	4.25	0.000	0.000 T	485.18	0.23	-0.32	-0.32
S34	Fu.C.1	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.2	1.82			1.28	0.000	0.000 T	173.53	-0.13	-0.72	-0.72
	Fu.C.3	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.4	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.5	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.6	2.81			2.05	0.000	0.000 T	278.42	-0.21	-0.96	-0.96
	Fu.C.7	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.8	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.9	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.10	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.11	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.12	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.13	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.14	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.15	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.16	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.17	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.18	1.70			1.17	0.000	0.000 T	200.11	-0.11	-0.71	-0.71
	Fu.C.19	2.69			1.95	0.000	0.000 T	304.89	-0.20	-0.95	-0.95
	Fu.C.20	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.21	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.22	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.23	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.24	7.37			6.53	0.000	0.000 T	867.92	-0.47	-0.49	-0.49
	Fu.C.25	4.77			3.86	0.000	0.000 T	545.27	-0.34	-0.97	-0.97
	Fu.C.26	3.19			2.55	0.000	0.000 T	363.26	-0.24	-0.73	-0.73
	Fu.C.27	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
	Fu.C.28	4.25			3.42	0.000	0.000 T	485.18	-0.31	-0.90	-0.90
S35	Fu.C.1	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.2	1.28	1.47	0.875	0.84	0.000	0.000 T	98.09	0.45	-0.79	-0.79
	Fu.C.3	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.4	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.5	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.6	2.05	2.21	0.750	1.16	0.000	0.000 T	140.64	0.46	-1.15	-1.15
	Fu.C.7	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.8	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.9	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.10	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.11	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.12	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.13	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.14	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.15	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.16	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.17	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.18	1.17	1.30	0.750	0.53	0.000	0.000 T	120.87	0.36	-0.87	-0.87
	Fu.C.19	1.95	2.05	0.625	0.86	0.000	0.000 T	163.40	0.38	-1.23	-1.23

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S35	Fu.C.20	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.21	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.22	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.23	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.24	6.53			2.83	0.000	0.000 T	437.08	-0.83	-1.94	-1.94
	Fu.C.25	3.86			1.68	0.000	0.000 T	275.85	0.00	-1.67	-1.67
	Fu.C.26	2.55			1.11	0.000	0.000 T	183.66	0.02	-1.14	-1.14
	Fu.C.27	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
S36	Fu.C.28	3.42			1.49	0.000	0.000 T	245.40	0.01	-1.49	-1.49
	Fu.C.1	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.2	0.84			0.00	0.000	0.000 T	16.08	-0.35	-0.98	-0.98
	Fu.C.3	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.4	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.5	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.6	1.16			0.00	0.000	0.000 D	-7.21	-0.51	-1.35	-1.35
	Fu.C.7	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.8	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.9	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.10	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.11	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.12	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.13	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.14	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.15	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.16	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.17	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.18	0.53			0.00	0.000	0.000 T	34.71	-0.11	-0.74	-0.74
	Fu.C.19	0.86			0.00	0.000	0.000 T	11.49	-0.26	-1.11	-1.11
	Fu.C.20	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.21	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.22	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.23	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.24	2.83			0.00	0.000	0.000 D	-12.12	-1.85	-2.69	-2.69
	Fu.C.25	1.68			0.00	0.000	0.000 D	-8.41	-0.87	-1.82	-1.82
	Fu.C.26	1.11			0.00	0.000	0.000 D	-5.87	-0.57	-1.21	-1.21
	Fu.C.27	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
	Fu.C.28	1.49			0.00	0.000	0.000 D	-7.60	-0.77	-1.62	-1.62
S37	Fu.C.1	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.2	0.00	0.69	1.500	0.34	0.000	0.000 D	-97.00	0.95	0.95	-0.66
	Fu.C.3	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.4	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.5	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.6	0.00	0.86	1.375	0.34	0.000	0.000 D	-122.59	1.23	1.23	-0.93
	Fu.C.7	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.8	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.9	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.10	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.11	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.12	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.13	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.14	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.15	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.16	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.17	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.18	0.00	0.79	1.625	0.50	0.000	0.000 D	-51.75	1.01	1.01	-0.60
	Fu.C.19	0.00	0.95	1.500	0.50	0.000	0.000 D	-77.51	1.29	1.29	-0.87
	Fu.C.20	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.21	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.22	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.23	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.24	0.00	1.51	1.875	1.32	0.000	0.000 D	-215.42	1.68	1.68	-0.50
	Fu.C.25	0.00	1.20	1.625	0.78	0.000	0.000 D	-136.35	1.55	1.55	-0.88
	Fu.C.26	0.00	0.80	1.625	0.53	0.000	0.000 D	-90.81	1.03	1.03	-0.58
	Fu.C.27	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
	Fu.C.28	0.00	1.07	1.625	0.70	0.000	0.000 D	-121.31	1.38	1.38	-0.78
S38	Fu.C.1	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S38	Fu.C.2	0.34			4.63	0.000	0.000 D	-182.02	2.56	2.56	0.87
	Fu.C.3	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.4	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.5	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.6	0.34			7.94	0.000	0.000 D	-271.64	4.21	4.21	1.88
	Fu.C.7	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.8	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.9	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.10	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.11	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.12	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.13	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.14	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.15	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.16	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.17	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.18	0.50			4.75	0.000	0.000 D	-134.46	2.53	2.53	0.87
	Fu.C.19	0.50			8.07	0.000	0.000 D	-224.13	4.18	4.18	1.88
	Fu.C.20	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.21	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.22	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.23	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.24	1.32			25.18	0.000	0.000 D	-654.82	11.27	11.27	7.84
	Fu.C.25	0.78			15.47	0.000	0.000 D	-412.88	7.34	7.34	4.42
	Fu.C.26	0.53			10.34	0.000	0.000 D	-275.18	4.84	4.84	3.01
	Fu.C.27	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
	Fu.C.28	0.70			13.78	0.000	0.000 D	-367.43	6.51	6.51	3.96
S39	Fu.C.1	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.2	4.63			0.95	0.000	0.000 D	-229.42	-0.60	-2.31	-2.31
	Fu.C.3	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.4	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.5	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.6	7.94			1.41	0.000	0.000 D	-356.32	-1.37	-3.78	-3.78
	Fu.C.7	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.8	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.9	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.10	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.11	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.12	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.13	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.14	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.15	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.16	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.17	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.18	4.75			1.03	0.000	0.000 D	-179.81	-0.63	-2.32	-2.32
	Fu.C.19	8.07			1.49	0.000	0.000 D	-306.68	-1.41	-3.78	-3.78
	Fu.C.20	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.21	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.22	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.23	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.24	25.18			3.69	0.000	0.000 D	-905.67	-6.23	-10.32	-10.32
	Fu.C.25	15.47			2.48	0.000	0.000 D	-570.31	-3.48	-6.66	-6.66
	Fu.C.26	10.34			1.70	0.000	0.000 D	-380.07	-2.43	-4.38	-4.38
	Fu.C.27	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
	Fu.C.28	13.78			2.23	0.000	0.000 D	-507.52	-3.14	-5.90	-5.90
S40	Fu.C.1	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.2	0.95			5.13	0.000	0.000 D	-238.30	2.53	2.53	0.80
	Fu.C.3	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.4	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.5	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.6	1.41			8.97	0.000	0.000 D	-374.79	4.22	4.22	1.78
	Fu.C.7	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.8	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.9	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.10	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.11	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S40	Fu.C.12	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.13	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.14	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.15	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.16	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.17	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.18	1.03			5.16	0.000	0.000 D	-186.68	2.49	2.49	0.80
	Fu.C.19	1.49			9.01	0.000	0.000 D	-323.10	4.19	4.19	1.78
	Fu.C.20	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.21	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.22	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.23	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.24	3.69			28.22	0.000	0.000 D	-959.21	11.81	11.81	7.39
	Fu.C.25	2.48			17.38	0.000	0.000 D	-603.96	7.53	7.53	4.22
	Fu.C.26	1.70			11.62	0.000	0.000 D	-402.52	4.94	4.94	2.93
	Fu.C.27	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
	Fu.C.28	2.23			15.48	0.000	0.000 D	-537.47	6.67	6.67	3.81
S41	Fu.C.1	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.2	5.13			0.45	0.000	0.000 D	-208.92	-1.02	-2.72	-2.72
	Fu.C.3	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.4	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.5	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.6	8.97			0.65	0.000	0.000 D	-327.64	-2.12	-4.51	-4.51
	Fu.C.7	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.8	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.9	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.10	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.11	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.12	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.13	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.14	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.15	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.16	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.17	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.18	5.16			0.50	0.000	0.000 D	-155.34	-1.02	-2.70	-2.70
	Fu.C.19	9.01			0.70	0.000	0.000 D	-274.00	-2.13	-4.48	-4.48
	Fu.C.20	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.21	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.22	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.23	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.24	28.22			1.75	0.000	0.000 D	-817.98	-8.47	-12.43	-12.43
	Fu.C.25	17.38			1.17	0.000	0.000 D	-515.20	-4.87	-8.00	-8.00
	Fu.C.26	11.62			0.80	0.000	0.000 D	-343.36	-3.34	-5.27	-5.27
	Fu.C.27	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
	Fu.C.28	15.48			1.05	0.000	0.000 D	-458.48	-4.38	-7.09	-7.09
S42	Fu.C.1	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.2	0.45	1.88	2.125	1.82	0.000	0.000 D	-141.88	1.36	1.36	-0.28
	Fu.C.3	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.4	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.5	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.6	0.65			3.35	0.000	0.000 D	-215.98	2.17	2.17	-0.05
	Fu.C.7	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.8	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.9	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.10	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.11	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.12	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.13	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.14	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.15	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.16	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.17	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.18	0.50	1.87	2.000	1.81	0.000	0.000 D	-86.41	1.33	1.33	-0.29
	Fu.C.19	0.70			3.34	0.000	0.000 D	-160.51	2.14	2.14	-0.06
	Fu.C.20	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.21	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S42	Fu.C.22	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.23	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.24	1.75			11.47	0.000	0.000 D	-486.23	5.07	5.07	2.44
	Fu.C.25	1.17			6.82	0.000	0.000 D	-306.45	3.52	3.52	0.91
	Fu.C.26	0.80			4.55	0.000	0.000 D	-204.21	2.32	2.32	0.63
	Fu.C.27	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
	Fu.C.28	1.05			6.07	0.000	0.000 D	-272.70	3.12	3.12	0.82
S43	Fu.C.1	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.2	1.82			-2.13	0.000	0.000 D	-35.64	-0.77	-2.38	-2.38
	Fu.C.3	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.4	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.5	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.6	3.35			-3.58	0.000	0.000 D	-37.07	-1.70	-3.84	-3.84
	Fu.C.7	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.8	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.9	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.10	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.11	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.12	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.13	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.14	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.15	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.16	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.17	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.18	1.81			-2.13	0.000	0.000 T	21.71	-0.77	-2.38	-2.38
	Fu.C.19	3.34			-3.58	0.000	0.000 T	20.22	-1.70	-3.84	-3.84
	Fu.C.20	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.21	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.22	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.23	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.24	11.47			-10.14	0.000	0.000 T	45.40	-7.58	-9.71	-9.71
	Fu.C.25	6.82			-6.50	0.000	0.000 T	27.88	-4.12	-6.53	-6.53
	Fu.C.26	4.55			-4.33	0.000	0.000 T	18.61	-2.75	-4.35	-4.35
	Fu.C.27	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
	Fu.C.28	6.07			-5.78	0.000	0.000 T	24.82	-3.67	-5.81	-5.81
S44	Fu.C.1	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.2	-2.13			0.00	0.000	0.000 T	110.70	1.67	1.67	0.05
	Fu.C.3	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.4	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.5	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.6	-3.58			0.00	0.000	0.000 T	210.05	2.54	2.54	0.36
	Fu.C.7	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.8	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.9	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.10	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.11	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.12	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.13	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.14	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.15	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.16	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.17	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.18	-2.13			0.00	0.000	0.000 T	169.70	1.68	1.68	0.05
	Fu.C.19	-3.58			0.00	0.000	0.000 T	268.91	2.56	2.56	0.36
	Fu.C.20	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.21	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.22	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.23	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.24	-10.14			0.00	0.000	0.000 T	775.75	5.60	5.60	2.97
	Fu.C.25	-6.50			0.00	0.000	0.000 T	487.98	3.99	3.99	1.39
	Fu.C.26	-4.33			0.00	0.000	0.000 T	325.33	2.62	2.62	0.93
	Fu.C.27	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
	Fu.C.28	-5.78			0.00	0.000	0.000 T	434.31	3.53	3.53	1.24
S45	Fu.C.1	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.2	0.00			-2.41	0.000	0.000 T	123.22	-0.16	-1.78	-1.78
	Fu.C.3	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S45	Fu.C.4	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.5	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.6	0.00			-4.01	0.000	0.000 T	230.22	-0.52	-2.72	-2.72
	Fu.C.7	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.8	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.9	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.10	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.11	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.12	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.13	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.14	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.15	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.16	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.17	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.18	0.00			-2.44	0.000	0.000 T	183.64	-0.17	-1.80	-1.80
	Fu.C.19	0.00			-4.04	0.000	0.000 T	290.48	-0.53	-2.74	-2.74
	Fu.C.20	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.21	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.22	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.23	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.24	0.00			-11.49	0.000	0.000 T	837.67	-3.38	-6.13	-6.13
	Fu.C.25	0.00			-7.32	0.000	0.000 T	526.78	-1.67	-4.31	-4.31
	Fu.C.26	0.00			-4.87	0.000	0.000 T	351.09	-1.12	-2.83	-2.83
	Fu.C.27	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
	Fu.C.28	0.00			-6.51	0.000	0.000 T	468.79	-1.49	-3.82	-3.82
S46	Fu.C.1	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.2	-2.41			0.95	0.000	0.000 T	7.90	2.15	2.15	0.54
	Fu.C.3	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.4	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.5	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.6	-4.01			1.88	0.000	0.000 T	31.99	3.43	3.43	1.28
	Fu.C.7	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.8	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.9	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.10	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.11	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.12	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.13	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.14	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.15	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.16	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.17	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.18	-2.44			0.90	0.000	0.000 T	67.37	2.14	2.14	0.53
	Fu.C.19	-4.04			1.84	0.000	0.000 T	91.35	3.43	3.43	1.28
	Fu.C.20	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.21	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.22	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.23	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.24	-11.49			7.20	0.000	0.000 T	248.51	8.60	8.60	6.39
	Fu.C.25	-7.32			4.10	0.000	0.000 T	155.78	5.80	5.80	3.36
	Fu.C.26	-4.87			2.73	0.000	0.000 T	103.76	3.86	3.86	2.24
	Fu.C.27	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
	Fu.C.28	-6.51			3.65	0.000	0.000 T	138.60	5.15	5.15	2.99
S47	Fu.C.1	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.2	0.95	0.97	0.250	-0.63	0.000	0.000 D	-67.55	0.18	-1.43	-1.43
	Fu.C.3	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.4	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.5	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.6	1.88			-1.05	0.000	0.000 D	-98.19	-0.09	-2.25	-2.25
	Fu.C.7	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.8	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.9	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.10	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.11	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.12	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.13	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S47	Fu.C.14	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.15	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.16	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.17	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.18	0.90	0.93	0.250	-0.62	0.000	0.000 D	-9.00	0.20	-1.41	-1.41
	Fu.C.19	1.84			-1.04	0.000	0.000 D	-39.70	-0.07	-2.23	-2.23
	Fu.C.20	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.21	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.22	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.23	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.24	7.20			-3.27	0.000	0.000 D	-141.28	-3.06	-5.26	-5.26
	Fu.C.25	4.10			-1.99	0.000	0.000 D	-89.13	-1.21	-3.64	-3.64
	Fu.C.26	2.73			-1.32	0.000	0.000 D	-59.49	-0.81	-2.42	-2.42
	Fu.C.27	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
	Fu.C.28	3.65			-1.77	0.000	0.000 D	-79.36	-1.08	-3.24	-3.24
S48	Fu.C.1	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.2	-0.63			4.49	0.000	0.000 D	-103.48	2.86	2.86	1.22
	Fu.C.3	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.4	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.5	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.6	-1.05			8.05	0.000	0.000 D	-160.59	4.74	4.74	2.51
	Fu.C.7	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.8	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.9	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.10	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.11	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.12	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.13	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.14	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.15	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.16	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.17	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.18	-0.62			4.50	0.000	0.000 D	-45.95	2.86	2.86	1.24
	Fu.C.19	-1.04			8.06	0.000	0.000 D	-103.08	4.74	4.74	2.53
	Fu.C.20	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.21	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.22	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.23	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.24	-3.27			25.92	0.000	0.000 D	-329.52	12.94	12.94	10.25
	Fu.C.25	-1.99			15.82	0.000	0.000 D	-207.48	8.41	8.41	5.78
	Fu.C.26	-1.32			10.56	0.000	0.000 D	-138.39	5.59	5.59	3.89
	Fu.C.27	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
	Fu.C.28	-1.77			14.09	0.000	0.000 D	-184.69	7.48	7.48	5.16
S49	Fu.C.1	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.2	4.49			-0.65	0.000	0.000 D	-102.34	-1.23	-2.87	-2.87
	Fu.C.3	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.4	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.5	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.6	8.05			-1.07	0.000	0.000 D	-159.39	-2.52	-4.75	-4.75
	Fu.C.7	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.8	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.9	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.10	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.11	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.12	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.13	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.14	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.15	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.16	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.17	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.18	4.50			-0.62	0.000	0.000 D	-45.89	-1.24	-2.86	-2.86
	Fu.C.19	8.06			-1.04	0.000	0.000 D	-102.95	-2.53	-4.74	-4.74
	Fu.C.20	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.21	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.22	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.23	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S49	Fu.C.24	25.92			-3.27	0.000	0.000 D	-329.16	-10.25	-12.94	-12.94
	Fu.C.25	15.82			-1.99	0.000	0.000 D	-207.24	-5.78	-8.41	-8.41
	Fu.C.26	10.56			-1.32	0.000	0.000 D	-138.23	-3.89	-5.59	-5.59
	Fu.C.27	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
	Fu.C.28	14.09			-1.77	0.000	0.000 D	-184.48	-5.16	-7.48	-7.48
S50	Fu.C.1	-1.77	0.86	2.125	3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.2	-0.65			0.83	0.000	0.000 D	-64.15	1.39	1.39	-0.22
	Fu.C.3	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.4	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.5	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.6	-1.07	0.92	2.250	1.76	0.000	0.000 D	-94.64	2.20	2.20	0.04
	Fu.C.7	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.8	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.9	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.10	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.11	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.12	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.13	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.14	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.15	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.16	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.17	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.18	-0.62			0.89	0.000	0.000 D	-8.81	1.41	1.41	-0.20
	Fu.C.19	-1.04			1.83	0.000	0.000 D	-39.33	2.22	2.22	0.07
	Fu.C.20	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.21	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.22	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.23	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.24	-3.27			7.16	0.000	0.000 D	-140.22	5.24	5.24	3.05
	Fu.C.25	-1.99			4.08	0.000	0.000 D	-88.43	3.63	3.63	1.20
	Fu.C.26	-1.32			2.72	0.000	0.000 D	-59.01	2.42	2.42	0.80
	Fu.C.27	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
	Fu.C.28	-1.77			3.63	0.000	0.000 D	-78.73	3.23	3.23	1.07
S51	Fu.C.1	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.2	0.83			-2.50	0.000	0.000 T	13.55	-0.53	-2.14	-2.14
	Fu.C.3	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.4	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.5	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.6	1.76			-4.11	0.000	0.000 T	37.90	-1.27	-3.42	-3.42
	Fu.C.7	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.8	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.9	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.10	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.11	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.12	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.13	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.14	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.15	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.16	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.17	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.18	0.89			-2.44	0.000	0.000 T	67.67	-0.53	-2.14	-2.14
	Fu.C.19	1.83			-4.05	0.000	0.000 T	91.97	-1.28	-3.43	-3.43
	Fu.C.20	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.21	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.22	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.23	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.24	7.16			-11.52	0.000	0.000 T	250.28	-6.39	-8.60	-8.60
	Fu.C.25	4.08			-7.34	0.000	0.000 T	156.95	-3.36	-5.79	-5.79
	Fu.C.26	2.72			-4.89	0.000	0.000 T	104.56	-2.24	-3.85	-3.85
	Fu.C.27	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
	Fu.C.28	3.63			-6.53	0.000	0.000 T	139.65	-2.99	-5.15	-5.15
S52	Fu.C.1	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.2	-2.50			0.00	0.000	0.000 T	131.23	1.82	1.82	0.19
	Fu.C.3	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.4	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.5	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S52	Fu.C.6	-4.11			0.00	0.000	0.000 T	238.59	2.76	2.76	0.56
	Fu.C.7	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.8	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.9	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.10	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.11	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.12	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.13	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.14	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.15	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.16	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.17	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.18	-2.44			0.00	0.000	0.000 T	184.07	1.80	1.80	0.17
	Fu.C.19	-4.05			0.00	0.000	0.000 T	291.35	2.74	2.74	0.53
	Fu.C.20	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.21	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.22	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.23	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.24	-11.52			0.00	0.000	0.000 T	840.17	6.14	6.14	3.39
	Fu.C.25	-7.34			0.00	0.000	0.000 T	528.43	4.32	4.32	1.68
	Fu.C.26	-4.89			0.00	0.000	0.000 T	352.21	2.84	2.84	1.13
	Fu.C.27	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
	Fu.C.28	-6.53			0.00	0.000	0.000 T	470.27	3.83	3.83	1.50
S53	Fu.C.1	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.2	0.00			-2.14	0.000	0.000 T	114.55	-0.05	-1.67	-1.67
	Fu.C.3	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.4	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.5	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.6	0.00			-3.59	0.000	0.000 T	213.47	-0.36	-2.55	-2.55
	Fu.C.7	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.8	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.9	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.10	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.11	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.12	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.13	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.14	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.15	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.16	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.17	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.18	0.00			-2.13	0.000	0.000 T	169.39	-0.05	-1.67	-1.67
	Fu.C.19	0.00			-3.57	0.000	0.000 T	268.26	-0.36	-2.55	-2.55
	Fu.C.20	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.21	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.22	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.23	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.24	0.00			-10.11	0.000	0.000 T	773.67	-2.96	-5.59	-5.59
	Fu.C.25	0.00			-6.48	0.000	0.000 T	486.68	-1.39	-3.98	-3.98
	Fu.C.26	0.00			-4.31	0.000	0.000 T	324.47	-0.92	-2.61	-2.61
	Fu.C.27	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
	Fu.C.28	0.00			-5.76	0.000	0.000 T	433.16	-1.23	-3.52	-3.52
S54	Fu.C.1	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.2	-2.14			1.80	0.000	0.000 D	-37.86	2.38	2.38	0.77
	Fu.C.3	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.4	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.5	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.6	-3.59			3.33	0.000	0.000 D	-39.63	3.84	3.84	1.69
	Fu.C.7	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.8	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.9	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.10	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.11	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.12	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.13	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.14	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.15	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S54	Fu.C.16	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.17	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.18	-2.13			1.82	0.000	0.000 T	21.52	2.38	2.38	0.77
	Fu.C.19	-3.57			3.35	0.000	0.000 T	19.80	3.84	3.84	1.69
	Fu.C.20	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.21	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.22	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.23	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.24	-10.11			11.50	0.000	0.000 T	43.91	9.71	9.71	7.57
	Fu.C.25	-6.48			6.84	0.000	0.000 T	27.00	6.53	6.53	4.12
	Fu.C.26	-4.31			4.56	0.000	0.000 T	18.05	4.35	4.35	2.75
	Fu.C.27	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
S55	Fu.C.28	-5.76			6.09	0.000	0.000 T	24.05	5.81	5.81	3.67
	Fu.C.1	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.2	1.80	1.89	0.500	0.61	0.000	0.000 D	-150.07	0.35	-1.29	-1.29
	Fu.C.3	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.4	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.5	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.6	3.33	3.34	0.125	0.81	0.000	0.000 D	-224.43	0.13	-2.10	-2.10
	Fu.C.7	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.8	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.9	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.10	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.11	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.12	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.13	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.14	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.15	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.16	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.17	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.18	1.82	1.88	0.500	0.50	0.000	0.000 D	-86.49	0.29	-1.33	-1.33
	Fu.C.19	3.35			0.71	0.000	0.000 D	-160.70	0.06	-2.14	-2.14
	Fu.C.20	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.21	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.22	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.23	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.24	11.50			1.75	0.000	0.000 D	-487.16	-2.44	-5.08	-5.08
	Fu.C.25	6.84			1.17	0.000	0.000 D	-306.92	-0.91	-3.52	-3.52
	Fu.C.26	4.56			0.80	0.000	0.000 D	-204.48	-0.63	-2.33	-2.33
	Fu.C.27	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
	Fu.C.28	6.09			1.05	0.000	0.000 D	-273.10	-0.82	-3.12	-3.12
S56	Fu.C.1	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.2	0.61			5.24	0.000	0.000 D	-223.10	2.70	2.70	0.99
	Fu.C.3	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.4	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.5	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.6	0.81			9.08	0.000	0.000 D	-341.99	4.50	4.50	2.09
	Fu.C.7	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.8	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.9	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.10	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.11	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.12	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.13	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.14	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.15	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.16	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.17	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.18	0.50			5.16	0.000	0.000 D	-155.30	2.70	2.70	1.02
	Fu.C.19	0.71			9.01	0.000	0.000 D	-273.97	4.48	4.48	2.13
	Fu.C.20	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.21	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.22	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.23	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.24	1.75			28.23	0.000	0.000 D	-818.34	12.43	12.43	8.47
	Fu.C.25	1.17			17.38	0.000	0.000 D	-515.26	8.00	8.00	4.87

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S56	Fu.C.26	0.80			11.63	0.000	0.000 D	-343.34	5.27	5.27	3.34
	Fu.C.27	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
	Fu.C.28	1.05			15.49	0.000	0.000 D	-458.51	7.09	7.09	4.38
S57	Fu.C.1	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.2	5.24			1.21	0.000	0.000 D	-258.48	-0.73	-2.47	-2.47
	Fu.C.3	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.4	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.5	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.6	9.08			1.67	0.000	0.000 D	-395.05	-1.70	-4.17	-4.17
	Fu.C.7	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.8	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.9	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.10	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.11	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.12	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.13	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.14	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.15	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.16	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.17	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.18	5.16			1.03	0.000	0.000 D	-186.53	-0.80	-2.50	-2.50
	Fu.C.19	9.01			1.49	0.000	0.000 D	-322.84	-1.78	-4.19	-4.19
	Fu.C.20	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.21	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.22	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.23	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.24	28.23			3.69	0.000	0.000 D	-959.00	-7.40	-11.81	-11.81
	Fu.C.25	17.38			2.48	0.000	0.000 D	-603.61	-4.23	-7.54	-7.54
	Fu.C.26	11.63			1.69	0.000	0.000 D	-402.20	-2.94	-4.94	-4.94
	Fu.C.27	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
	Fu.C.28	15.49			2.22	0.000	0.000 D	-537.12	-3.81	-6.67	-6.67
S58	Fu.C.1	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.2	1.21			5.01	0.000	0.000 D	-255.52	2.37	2.37	0.64
	Fu.C.3	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.4	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.5	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.6	1.67			8.32	0.000	0.000 D	-382.41	3.84	3.84	1.39
	Fu.C.7	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.8	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.9	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.10	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.11	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.12	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.13	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.14	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.15	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.16	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.17	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.18	1.03			4.74	0.000	0.000 D	-179.54	2.32	2.32	0.63
	Fu.C.19	1.49			8.06	0.000	0.000 D	-306.19	3.78	3.78	1.41
	Fu.C.20	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.21	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.22	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.23	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.24	3.69			25.17	0.000	0.000 D	-904.88	10.31	10.31	6.23
	Fu.C.25	2.48			15.45	0.000	0.000 D	-569.55	6.66	6.66	3.48
	Fu.C.26	1.69			10.33	0.000	0.000 D	-379.47	4.37	4.37	2.43
	Fu.C.27	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
	Fu.C.28	2.22			13.77	0.000	0.000 D	-506.80	5.90	5.90	3.14
S59	Fu.C.1	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.2	5.01			0.83	0.000	0.000 D	-214.07	-0.82	-2.53	-2.53
	Fu.C.3	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.4	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.5	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.6	8.32			0.82	0.000	0.000 D	-303.58	-1.82	-4.19	-4.19
	Fu.C.7	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S59	Fu.C.8	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.9	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.10	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.11	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.12	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.13	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.14	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.15	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.16	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.17	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.18	4.74			0.50	0.000	0.000 D	-134.08	-0.87	-2.53	-2.53
	Fu.C.19	8.06			0.49	0.000	0.000 D	-223.41	-1.88	-4.18	-4.18
	Fu.C.20	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.21	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.22	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.23	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.24	25.17			1.30	0.000	0.000 D	-653.46	-7.84	-11.27	-11.27
	Fu.C.25	15.45			0.76	0.000	0.000 D	-411.72	-4.42	-7.34	-7.34
	Fu.C.26	10.33			0.52	0.000	0.000 D	-274.29	-3.01	-4.84	-4.84
	Fu.C.27	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
	Fu.C.28	13.77			0.68	0.000	0.000 D	-366.34	-3.96	-6.51	-6.51
S60	Fu.C.1	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.2	0.83	1.00	0.750	0.00	0.000	0.000 D	-135.19	0.47	-1.15	-1.15
	Fu.C.3	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.4	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.5	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.6	0.82	1.15	0.875	0.00	0.000	0.000 D	-160.58	0.74	-1.43	-1.43
	Fu.C.7	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.8	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.9	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.10	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.11	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.12	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.13	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.14	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.15	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.16	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.17	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.18	0.50	0.78	1.000	0.00	0.000	0.000 D	-51.26	0.60	-1.01	-1.01
	Fu.C.19	0.49	0.94	1.000	0.00	0.000	0.000 D	-76.56	0.87	-1.28	-1.28
	Fu.C.20	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.21	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.22	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.23	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.24	1.30	1.49	0.625	0.00	0.000	0.000 D	-213.49	0.51	-1.67	-1.67
	Fu.C.25	0.76	1.19	0.875	0.00	0.000	0.000 D	-134.77	0.88	-1.55	-1.55
	Fu.C.26	0.52	0.80	0.875	0.00	0.000	0.000 D	-89.62	0.59	-1.03	-1.03
	Fu.C.27	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
	Fu.C.28	0.68	1.06	0.875	0.00	0.000	0.000 D	-119.85	0.79	-1.37	-1.37
S61	Fu.C.1	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.2	0.00	9.22	2.555	-16.40	0.000	0.000 D	-64.85	6.76	-11.15	-11.15
	Fu.C.3	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.4	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.5	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.6	0.00	19.49	2.920	-32.67	0.000	0.000 D	-114.43	14.10	-22.70	-22.70
	Fu.C.7	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.8	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.9	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.10	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.11	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.12	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.13	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.14	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.15	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.16	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.17	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S61	Fu.C.18	0.00	-20.82	2.920	20.59	0.000	0.000 D	-63.53	-13.74	19.26	19.26
	Fu.C.19	0.00	-11.14	3.285	4.71	0.000	0.000 D	-113.18	-6.66	7.89	7.89
	Fu.C.20	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.21	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.22	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.23	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.24	0.00			-15.87	0.000	0.000 D	-345.21	-2.88	-2.88	-0.96
	Fu.C.25	0.00			-10.42	0.000	0.000 D	-215.79	-1.70	-1.70	-0.96
	Fu.C.26	0.00			-7.09	0.000	0.000 D	-143.87	-1.09	-1.09	-0.76
	Fu.C.27	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
S62	Fu.C.28	0.00			-9.33	0.000	0.000 D	-192.06	-1.49	-1.49	-0.91
	Fu.C.1	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.2	-16.40			0.00	0.000	0.000 D	-60.76	11.68	11.68	7.60
	Fu.C.3	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.4	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.5	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.6	-32.67			0.00	0.000	0.000 D	-108.96	23.30	23.30	15.08
	Fu.C.7	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.8	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.9	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.10	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.11	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.12	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.13	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.14	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.15	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.16	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.17	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.18	20.59			0.00	0.000	0.000 D	-59.51	-15.85	-15.85	-8.34
	Fu.C.19	4.71			0.00	0.000	0.000 D	-107.64	-4.38	-4.38	-1.13
	Fu.C.20	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.21	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.22	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.23	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.24	-15.87			0.00	0.000	0.000 D	-338.12	9.16	9.54	9.54
	Fu.C.25	-10.42			0.00	0.000	0.000 D	-209.01	6.06	6.21	6.21
	Fu.C.26	-7.09			0.00	0.000	0.000 D	-139.35	4.14	4.21	4.21
	Fu.C.27	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
	Fu.C.28	-9.33			0.00	0.000	0.000 D	-186.02	5.44	5.56	5.56
S63	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	75.18	0.09	-0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	130.96	0.11	-0.14	-0.14
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	73.45	0.09	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	129.13	0.11	-0.14	-0.14
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	379.64	0.02	-0.21	-0.21
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	240.76	0.10	-0.17	-0.17
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	160.49	0.08	-0.11	-0.11
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S63	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	214.27	0.09	-0.15	-0.15
S64	Fu.C.1	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-73.97	0.11	0.11	-0.10
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-129.28	0.15	0.15	-0.13
	Fu.C.7	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.8	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.9	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.14	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.15	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.16	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.17	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-72.07	0.11	0.11	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-127.28	0.15	0.15	-0.13
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.22	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.23	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-378.09	0.25	0.25	-0.06
	Fu.C.25	0.00	0.09	1.055	0.00	0.000	0.000 D	-238.80	0.20	0.20	-0.13
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.23	0.12	0.12	-0.09
	Fu.C.27	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
	Fu.C.28	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.54	0.17	0.17	-0.11
S65	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	69.59	0.09	-0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	122.44	0.12	-0.14	-0.14
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	67.80	0.09	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	120.55	0.12	-0.14	-0.14
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	363.77	0.03	-0.20	-0.20
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	228.31	0.10	-0.17	-0.17
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	152.22	0.08	-0.11	-0.11
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	203.20	0.10	-0.15	-0.15
S66	Fu.C.1	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-67.68	0.10	0.10	-0.10
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-120.02	0.15	0.15	-0.13
	Fu.C.7	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.8	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.9	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S66	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.14	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.15	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.16	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.17	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-66.04	0.10	0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-118.30	0.15	0.15	-0.13
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.22	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.23	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-363.17	0.23	0.23	-0.08
	Fu.C.25	0.00	0.09	1.055	0.00	0.000	0.000 D	-226.31	0.19	0.19	-0.13
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-150.79	0.12	0.12	-0.09
	Fu.C.27	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
	Fu.C.28	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.38	0.17	0.17	-0.12
S67	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	12.29	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	22.84	0.09	-0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	10.68	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	21.17	0.09	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 T	58.83	0.08	-0.10	-0.10
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	39.11	0.10	-0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	26.21	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	34.87	0.09	-0.10	-0.10
S68	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-10.64	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-20.78	0.10	0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-9.04	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-19.14	0.10	0.10	-0.10

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S68	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 D	-59.24	0.11	0.11	-0.10
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-37.58	0.11	0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-24.97	0.08	0.08	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
S69	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.41	0.10	0.10	-0.10
	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	4.33	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	10.44	0.10	-0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	2.76	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	8.84	0.10	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 T	31.35	0.09	-0.10	-0.10
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 T	19.49	0.11	-0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	13.10	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	17.39	0.09	-0.10	-0.10
S70	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-2.67	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-8.43	0.10	0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-1.12	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-6.88	0.10	0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 D	-32.29	0.10	0.10	-0.10
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-18.19	0.11	0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-11.98	0.07	0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.12	0.10	0.10	-0.10
S71	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S71	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-52.50	0.10	-0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-88.24	0.13	-0.14	-0.14
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-54.05	0.10	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-89.77	0.13	-0.14	-0.14
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-270.34	0.13	-0.16	-0.16
	Fu.C.25	0.00	0.08	1.055	0.00	0.000	0.000 D	-167.92	0.15	-0.16	-0.16
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.80	0.10	-0.11	-0.11
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.38	0.13	-0.14	-0.14
S72	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	54.09	0.10	0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	90.12	0.13	0.13	-0.12
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	55.60	0.10	0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	91.59	0.13	0.13	-0.12
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	269.13	0.14	0.14	-0.10
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	168.97	0.15	0.15	-0.13
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	112.68	0.10	0.10	-0.09
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 T	150.40	0.13	0.13	-0.12
S73	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-59.55	0.10	-0.10	-0.10
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-98.91	0.13	-0.14	-0.14
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S73	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-61.01	0.10	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-100.32	0.13	-0.14	-0.14
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-290.99	0.11	-0.18	-0.18
	Fu.C.25	0.00	0.08	1.055	0.00	0.000	0.000 D	-183.71	0.14	-0.17	-0.17
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.45	0.10	-0.11	-0.11
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.49	0.13	-0.15	-0.15
S74	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	61.53	0.10	0.10	-0.09
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	101.59	0.13	0.13	-0.12
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	63.01	0.10	0.10	-0.09
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	103.00	0.13	0.13	-0.12
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	293.73	0.16	0.16	-0.08
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	186.77	0.16	0.16	-0.12
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	124.50	0.10	0.10	-0.09
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	166.22	0.14	0.14	-0.11
S75	Fu.C.1	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-118.29	0.15	-0.15	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-200.92	0.20	-0.22	-0.22
	Fu.C.7	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.8	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.9	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.14	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.15	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.16	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.17	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-119.78	0.15	-0.16	-0.16
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-202.34	0.20	-0.22	-0.22
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S75	Fu.C.22	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.23	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.24	0.00	0.13	1.055	0.00	0.000	0.000 D	-602.56	0.14	-0.33	-0.33
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-377.49	0.21	-0.28	-0.28
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.68	0.14	-0.17	-0.17
	Fu.C.27	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
	Fu.C.28	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.97	0.18	-0.25	-0.25
S76	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	120.93	0.15	0.15	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	204.56	0.20	0.20	-0.17
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	122.31	0.15	0.15	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	205.87	0.20	0.20	-0.17
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	607.55	0.27	0.27	-0.07
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	381.95	0.24	0.24	-0.16
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	254.58	0.15	0.15	-0.12
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	339.91	0.21	0.21	-0.15
S77	Fu.C.1	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-126.53	0.15	-0.16	-0.16
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-213.17	0.20	-0.22	-0.22
	Fu.C.7	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.8	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.9	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.14	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.15	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.16	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.17	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-127.91	0.15	-0.16	-0.16
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-214.49	0.20	-0.22	-0.22
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.22	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.23	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.24	0.00	0.13	1.055	0.00	0.000	0.000 D	-626.18	0.15	-0.33	-0.33
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-395.45	0.21	-0.28	-0.28
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.64	0.14	-0.17	-0.17
	Fu.C.27	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
	Fu.C.28	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.95	0.19	-0.24	-0.24
S78	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	128.55	0.14	0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S78	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	216.11	0.19	0.19	-0.18
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	130.19	0.14	0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	217.68	0.19	0.19	-0.18
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	631.57	0.24	0.24	-0.09
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	399.76	0.23	0.23	-0.17
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	266.40	0.15	0.15	-0.12
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	355.74	0.20	0.20	-0.15
S79	Fu.C.1	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.2	0.00			5.13	0.000	0.000 D	-239.22	0.76	0.76	0.62
	Fu.C.3	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.4	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.5	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.6	0.00			7.47	0.000	0.000 D	-405.00	1.16	1.16	0.80
	Fu.C.7	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.8	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.9	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.10	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.11	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.12	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.13	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.14	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.15	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.16	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.17	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.18	0.00			3.40	0.000	0.000 D	-241.32	0.50	0.50	0.41
	Fu.C.19	0.00			5.75	0.000	0.000 D	-407.09	0.89	0.89	0.62
	Fu.C.20	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.21	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.22	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.23	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.24	0.00			15.86	0.000	0.000 D	-1180.62	3.14	3.14	0.65
	Fu.C.25	0.00			10.41	0.000	0.000 D	-748.62	1.79	1.79	0.83
	Fu.C.26	0.00			7.08	0.000	0.000 D	-499.07	1.13	1.13	0.71
	Fu.C.27	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
	Fu.C.28	0.00			9.33	0.000	0.000 D	-666.27	1.56	1.56	0.81
S80	Fu.C.1	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.2	5.13			0.00	0.000	0.000 D	-233.15	-3.00	-3.03	-3.03
	Fu.C.3	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.4	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.5	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.6	7.47			0.00	0.000	0.000 D	-397.47	-4.35	-4.43	-4.43
	Fu.C.7	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.8	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.9	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.10	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.11	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.12	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.13	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S80	Fu.C.14	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.15	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.16	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.17	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.18	3.40			0.00	0.000	0.000 D	-235.46	-1.99	-2.01	-2.01
	Fu.C.19	5.75			0.00	0.000	0.000 D	-399.73	-3.35	-3.41	-3.41
	Fu.C.20	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.21	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.22	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.23	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.24	15.86			0.00	0.000	0.000 D	-1180.02	-9.08	-9.56	-9.56
	Fu.C.25	10.41			0.00	0.000	0.000 D	-742.47	-6.02	-6.22	-6.22
	Fu.C.26	7.08			0.00	0.000	0.000 D	-494.42	-4.12	-4.21	-4.21
	Fu.C.27	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
	Fu.C.28	9.33			0.00	0.000	0.000 D	-660.55	-5.40	-5.56	-5.56
S81	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	102.11	0.14	-0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	174.45	0.19	-0.19	-0.19
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	103.28	0.14	0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	175.58	0.19	-0.19	-0.19
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	511.48	0.17	-0.17	-0.17
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	324.01	0.20	-0.20	-0.20
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	215.92	0.14	-0.14	-0.14
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	288.33	0.18	-0.18	-0.18
S82	Fu.C.1	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-100.17	0.15	0.15	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-171.68	0.21	0.21	-0.20
	Fu.C.7	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.8	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.9	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.14	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.15	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.16	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.17	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-101.08	0.15	0.15	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-172.56	0.21	0.21	-0.20
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.22	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.23	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S82	Fu.C.24	0.00	0.12	1.055	0.00	0.000	0.000 D	-506.92	0.24	0.24	-0.21
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-320.10	0.25	0.25	-0.23
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.38	0.16	0.16	-0.15
	Fu.C.27	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
	Fu.C.28	0.00	0.11	1.055	0.00	0.000	0.000 D	-284.88	0.22	0.22	-0.21
S83	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	94.71	0.14	-0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	163.31	0.18	-0.19	-0.19
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	95.61	0.14	-0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	164.16	0.18	-0.19	-0.19
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	488.50	0.14	-0.20	-0.20
	Fu.C.25	0.00	0.11	1.055	0.00	0.000	0.000 T	306.90	0.19	-0.21	-0.21
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	204.58	0.13	-0.14	-0.14
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	273.13	0.17	-0.19	-0.19
S84	Fu.C.1	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-92.06	0.15	0.15	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-159.67	0.21	0.21	-0.20
	Fu.C.7	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.8	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.9	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.14	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.15	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.16	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.17	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-93.07	0.15	0.15	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-160.63	0.21	0.21	-0.20
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.22	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.23	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.24	0.00	0.12	1.055	0.00	0.000	0.000 D	-483.78	0.26	0.26	-0.19
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-302.51	0.25	0.25	-0.23
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.70	0.16	0.16	-0.15
	Fu.C.27	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
	Fu.C.28	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.24	0.22	0.22	-0.20
S85	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	35.14	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S85	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	59.99	0.09	-0.09	-0.09
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	36.12	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	60.92	0.09	-0.09	-0.09
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.24	0.00	0.04	1.055	0.00	0.000	0.000 T	173.98	0.07	-0.09	-0.09
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	111.12	0.09	-0.10	-0.10
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	74.07	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	98.90	0.09	-0.09	-0.09
S86	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-33.14	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-57.22	0.10	0.10	-0.10
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-34.08	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-58.13	0.10	0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 D	-170.37	0.12	0.12	-0.11
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-107.69	0.12	0.12	-0.12
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-71.79	0.08	0.08	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 D	-95.84	0.11	0.11	-0.10
S87	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	27.51	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	48.16	0.09	-0.09	-0.09
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S87	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	28.49	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	49.11	0.09	-0.09	-0.09
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.24	0.00	0.04	1.055	0.00	0.000	0.000 T	147.58	0.08	-0.09	-0.09
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	92.36	0.10	-0.10	-0.10
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	61.58	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
S88	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	82.20	0.09	-0.09	-0.09
	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-26.07	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-46.45	0.10	0.10	-0.10
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-27.08	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-47.44	0.10	0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 D	-148.01	0.12	0.12	-0.11
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-91.23	0.12	0.12	-0.12
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-60.77	0.08	0.08	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.17	0.11	0.11	-0.10
S89	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-28.22	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-48.68	0.10	-0.10	-0.10
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-27.18	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-47.65	0.10	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 D	-148.62	0.11	-0.12	-0.12
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-91.63	0.12	-0.12	-0.12

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S89	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-61.04	0.08	-0.08	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 D	-81.53	0.10	-0.11	-0.11
S90	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	29.64	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	50.38	0.09	0.09	-0.09
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	28.59	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	49.32	0.09	0.09	-0.09
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
S91	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.24	0.00	0.04	1.055	0.00	0.000	0.000 T	148.19	0.09	0.09	-0.08
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	92.76	0.10	0.10	-0.10
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	61.85	0.07	0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	82.56	0.09	0.09	-0.09
	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-35.23	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-59.39	0.10	-0.10	-0.10
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-34.19	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-58.33	0.10	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 D	-170.95	0.11	-0.12	-0.12
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-108.08	0.12	-0.12	-0.12
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-72.06	0.08	-0.08	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 D	-96.19	0.10	-0.11	-0.11
S92	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	37.24	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	62.17	0.09	0.09	-0.09
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S92	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	36.22	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	61.13	0.09	0.09	-0.09
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.24	0.00	0.04	1.055	0.00	0.000	0.000 T	174.57	0.09	0.09	-0.07
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	111.52	0.10	0.10	-0.09
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	74.34	0.07	0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	99.25	0.09	0.09	-0.09
S93	Fu.C.1	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-94.22	0.15	-0.15	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-161.91	0.20	-0.21	-0.21
	Fu.C.7	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.8	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.9	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.14	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.15	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.16	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.17	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-93.17	0.15	-0.15	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-160.84	0.20	-0.21	-0.21
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.22	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.23	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.24	0.00	0.12	1.055	0.00	0.000	0.000 D	-484.39	0.19	-0.26	-0.26
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-302.91	0.23	-0.25	-0.25
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.97	0.15	-0.16	-0.16
	Fu.C.27	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
	Fu.C.28	0.00	0.11	1.055	0.00	0.000	0.000 D	-269.60	0.20	-0.22	-0.22
S94	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	96.89	0.14	0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	165.57	0.19	0.19	-0.18
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17

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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S94	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	95.71	0.14	0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	164.37	0.19	0.19	-0.18
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	489.11	0.20	0.20	-0.14
	Fu.C.25	0.00	0.11	1.055	0.00	0.000	0.000 T	307.30	0.21	0.21	-0.19
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	204.86	0.14	0.14	-0.13
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
S95	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	273.49	0.19	0.19	-0.17
	Fu.C.1	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-102.39	0.15	-0.15	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-173.99	0.20	-0.21	-0.21
	Fu.C.7	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.8	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.9	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.14	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.15	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.16	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.17	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-101.19	0.15	-0.15	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-172.77	0.20	-0.21	-0.21
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.22	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.23	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.24	0.00	0.12	1.055	0.00	0.000	0.000 D	-507.55	0.21	-0.24	-0.24
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-320.51	0.23	-0.25	-0.25
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-213.66	0.15	-0.16	-0.16
	Fu.C.27	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
	Fu.C.28	0.00	0.11	1.055	0.00	0.000	0.000 D	-285.25	0.21	-0.22	-0.22
S96	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	104.34	0.14	-0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	176.77	0.19	-0.19	-0.19
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	103.39	0.14	-0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	175.80	0.19	-0.19	-0.19
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	512.11	0.17	0.17	-0.17
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	324.43	0.20	0.20	-0.20
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	216.21	0.14	0.14	-0.14
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S96	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	288.71	0.18	0.18	-0.18
S97	Fu.C.1	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.2	0.00			-1.19	0.000	0.000 D	-244.90	-0.17	-0.17	-0.14
	Fu.C.3	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.4	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.5	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.6	0.00			-2.02	0.000	0.000 D	-410.68	-0.31	-0.31	-0.21
	Fu.C.7	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.8	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.9	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.10	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.11	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.12	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.13	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.14	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.15	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.16	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.17	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.18	0.00			-1.92	0.000	0.000 D	-241.33	-0.28	-0.28	-0.23
	Fu.C.19	0.00			-2.73	0.000	0.000 D	-407.11	-0.42	-0.42	-0.29
	Fu.C.20	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.21	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.22	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.23	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.24	0.00			-6.92	0.000	0.000 D	-1180.72	-1.33	-1.33	-0.25
	Fu.C.25	0.00			-4.60	0.000	0.000 D	-748.67	-0.77	-0.77	-0.35
	Fu.C.26	0.00			-3.15	0.000	0.000 D	-499.09	-0.50	-0.50	-0.31
	Fu.C.27	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
	Fu.C.28	0.00			-4.13	0.000	0.000 D	-666.31	-0.68	-0.68	-0.35
S98	Fu.C.1	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.2	-1.19			0.00	0.000	0.000 D	-238.87	0.70	0.70	0.70
	Fu.C.3	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.4	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.5	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.6	-2.02			0.00	0.000	0.000 D	-403.21	1.18	1.20	1.20
	Fu.C.7	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.8	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.9	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.10	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.11	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.12	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.13	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.14	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.15	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.16	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.17	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.18	-1.92			0.00	0.000	0.000 D	-235.46	1.12	1.13	1.13
	Fu.C.19	-2.73			0.00	0.000	0.000 D	-399.74	1.60	1.62	1.62
	Fu.C.20	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.21	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.22	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.23	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.24	-6.92			0.00	0.000	0.000 D	-1180.12	4.00	4.21	4.21
	Fu.C.25	-4.60			0.00	0.000	0.000 D	-742.51	2.67	2.76	2.76
	Fu.C.26	-3.15			0.00	0.000	0.000 D	-494.44	1.84	1.88	1.88
	Fu.C.27	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
	Fu.C.28	-4.13			0.00	0.000	0.000 D	-660.58	2.40	2.47	2.47
S99	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	133.46	0.14	-0.14	-0.14
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	220.94	0.17	-0.19	-0.19
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S99	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	130.09	0.14	-0.14	-0.14
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	217.48	0.18	-0.19	-0.19
	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	631.06	0.09	-0.24	-0.24
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	399.39	0.17	-0.23	-0.23
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	266.14	0.12	-0.15	-0.15
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	355.40	0.15	-0.20	-0.20
S100	Fu.C.1	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-131.43	0.16	0.16	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-218.00	0.22	0.22	-0.20
	Fu.C.7	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.8	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.9	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.14	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.15	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.16	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.17	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-127.81	0.16	0.16	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-214.29	0.22	0.22	-0.20
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.22	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.23	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.24	0.00	0.13	1.055	0.00	0.000	0.000 D	-625.68	0.33	0.33	-0.15
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-395.09	0.28	0.28	-0.21
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-263.38	0.17	0.17	-0.14
	Fu.C.27	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
	Fu.C.28	0.00	0.12	1.055	0.00	0.000	0.000 D	-351.63	0.24	0.24	-0.19
S101	Fu.C.1	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.2	0.00	0.07	1.055	0.00	0.000	0.000 T	125.84	0.14	-0.15	-0.15
	Fu.C.3	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.4	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.5	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.6	0.00	0.10	1.055	0.00	0.000	0.000 T	209.39	0.17	-0.20	-0.20
	Fu.C.7	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.8	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.9	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.10	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.11	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.12	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.13	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.14	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.15	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.16	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.17	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.18	0.00	0.07	1.055	0.00	0.000	0.000 T	122.21	0.14	-0.15	-0.15
	Fu.C.19	0.00	0.10	1.055	0.00	0.000	0.000 T	205.68	0.17	-0.20	-0.20

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S101	Fu.C.20	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.21	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.22	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.23	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.24	0.00	0.09	1.055	0.00	0.000	0.000 T	607.07	0.07	-0.27	-0.27
	Fu.C.25	0.00	0.10	1.055	0.00	0.000	0.000 T	381.60	0.16	-0.24	-0.24
	Fu.C.26	0.00	0.07	1.055	0.00	0.000	0.000 T	254.34	0.12	-0.15	-0.15
	Fu.C.27	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
S102	Fu.C.28	0.00	0.09	1.055	0.00	0.000	0.000 T	339.60	0.15	-0.21	-0.21
	Fu.C.1	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.2	0.00	0.08	1.055	0.00	0.000	0.000 D	-123.16	0.16	0.16	-0.15
	Fu.C.3	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.4	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.5	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.6	0.00	0.11	1.055	0.00	0.000	0.000 D	-205.72	0.22	0.22	-0.20
	Fu.C.7	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.8	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.9	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.10	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.11	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.12	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.13	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.14	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.15	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.16	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.17	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.18	0.00	0.08	1.055	0.00	0.000	0.000 D	-119.68	0.16	0.16	-0.15
	Fu.C.19	0.00	0.11	1.055	0.00	0.000	0.000 D	-202.15	0.22	0.22	-0.20
	Fu.C.20	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.21	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.22	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.23	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.24	0.00	0.13	1.055	0.00	0.000	0.000 D	-602.08	0.33	0.33	-0.14
	Fu.C.25	0.00	0.13	1.055	0.00	0.000	0.000 D	-377.14	0.28	0.28	-0.21
	Fu.C.26	0.00	0.08	1.055	0.00	0.000	0.000 D	-251.44	0.17	0.17	-0.14
	Fu.C.27	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
	Fu.C.28	0.00	0.12	1.055	0.00	0.000	0.000 D	-335.66	0.25	0.25	-0.18
S103	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	66.32	0.09	-0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	106.30	0.12	-0.13	-0.13
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	62.91	0.09	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	102.81	0.12	-0.13	-0.13
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	293.25	0.08	-0.16	-0.16
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	186.42	0.12	-0.16	-0.16
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	124.26	0.09	-0.10	-0.10
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	165.90	0.11	-0.14	-0.14
S104	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S104	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-64.34	0.10	0.10	-0.10
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-103.63	0.14	0.14	-0.13
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-60.91	0.10	0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-100.13	0.14	0.14	-0.13
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-290.51	0.18	0.18	-0.11
	Fu.C.25	0.00	0.08	1.055	0.00	0.000	0.000 D	-183.37	0.17	0.17	-0.14
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-122.20	0.11	0.11	-0.10
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 D	-163.18	0.15	0.15	-0.13
S105	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	58.99	0.10	-0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	94.94	0.12	-0.13	-0.13
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	55.51	0.10	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	91.40	0.12	-0.13	-0.13
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	268.64	0.10	-0.14	-0.14
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	168.62	0.13	-0.15	-0.15
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	112.43	0.09	-0.10	-0.10
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 T	150.08	0.12	-0.13	-0.13
S106	Fu.C.1	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-57.41	0.10	0.10	-0.10
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-93.08	0.14	0.14	-0.13
	Fu.C.7	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.8	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.9	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S106	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.14	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.15	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.16	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.17	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-53.95	0.10	0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-89.57	0.14	0.14	-0.13
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.22	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.23	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-269.85	0.16	0.16	-0.13
	Fu.C.25	0.00	0.08	1.055	0.00	0.000	0.000 D	-167.57	0.16	0.16	-0.15
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 D	-111.55	0.11	0.11	-0.10
	Fu.C.27	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
	Fu.C.28	0.00	0.07	1.055	0.00	0.000	0.000 D	-149.07	0.14	0.14	-0.13
S107	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	2.32	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-3.72	0.10	-0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-1.22	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-7.07	0.10	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 D	-32.77	0.10	-0.10	-0.10
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-18.53	0.11	-0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-12.22	0.07	-0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.44	0.10	-0.10	-0.10
S108	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-0.65	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	5.73	0.10	0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	2.85	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	9.03	0.10	0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07

Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S108	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 T	31.82	0.10	0.10	-0.09
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 T	19.83	0.11	0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	13.34	0.07	0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	17.71	0.10	0.10	-0.09
S109	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 D	-5.86	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 D	-16.08	0.10	-0.10	-0.10
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 D	-9.13	0.07	-0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 D	-19.33	0.10	-0.10	-0.10
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
S110	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 D	-59.72	0.10	-0.11	-0.11
	Fu.C.25	0.00	0.06	1.055	0.00	0.000	0.000 D	-37.92	0.11	-0.11	-0.11
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 D	-25.21	0.07	-0.08	-0.08
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 D	-33.72	0.10	-0.10	-0.10
	Fu.C.1	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.2	0.00	0.04	1.055	0.00	0.000	0.000 T	7.47	0.07	0.07	-0.07
	Fu.C.3	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.4	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.5	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.6	0.00	0.05	1.055	0.00	0.000	0.000 T	18.08	0.10	0.10	-0.09
	Fu.C.7	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.8	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.9	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.10	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.11	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.12	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.13	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.14	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.15	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.16	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.17	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.18	0.00	0.04	1.055	0.00	0.000	0.000 T	10.77	0.07	0.07	-0.07
	Fu.C.19	0.00	0.05	1.055	0.00	0.000	0.000 T	21.36	0.10	0.10	-0.09
	Fu.C.20	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.21	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.22	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.23	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.24	0.00	0.05	1.055	0.00	0.000	0.000 T	59.31	0.10	0.10	-0.08
	Fu.C.25	0.00	0.05	1.055	0.00	0.000	0.000 T	39.45	0.11	0.11	-0.10
	Fu.C.26	0.00	0.04	1.055	0.00	0.000	0.000 T	26.45	0.07	0.07	-0.07
	Fu.C.27	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
	Fu.C.28	0.00	0.05	1.055	0.00	0.000	0.000 T	35.18	0.10	0.10	-0.09
S111	Fu.C.1	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-62.88	0.10	-0.10	-0.10
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12

Moederspant as ZZ				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S111	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-115.31	0.13	-0.15	-0.15
	Fu.C.7	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.8	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.9	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.14	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.15	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.16	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.17	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-66.14	0.10	-0.10	-0.10
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-118.49	0.13	-0.15	-0.15
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.22	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.23	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-363.65	0.08	-0.23	-0.23
	Fu.C.25	0.00	0.09	1.055	0.00	0.000	0.000 D	-226.65	0.13	-0.19	-0.19
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-151.03	0.09	-0.12	-0.12
	Fu.C.27	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
	Fu.C.28	0.00	0.08	1.055	0.00	0.000	0.000 D	-201.69	0.12	-0.17	-0.17
S112	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	64.76	0.10	0.10	-0.09
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	117.68	0.14	0.14	-0.12
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	67.90	0.10	0.10	-0.09
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	120.75	0.14	0.14	-0.12
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	364.25	0.20	0.20	-0.03
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	228.66	0.17	0.17	-0.10
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	152.47	0.11	0.11	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	203.52	0.15	0.15	-0.10
S113	Fu.C.1	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 D	-68.87	0.10	-0.11	-0.11
	Fu.C.3	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.4	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.5	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 D	-124.26	0.13	-0.15	-0.15
	Fu.C.7	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.8	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.9	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.10	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.11	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.12	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.13	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12

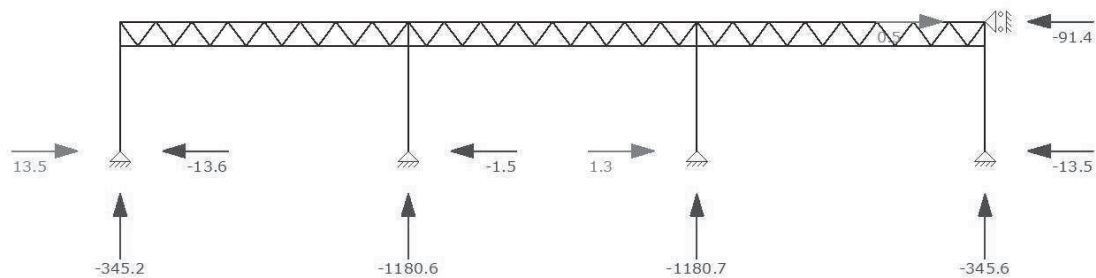
Moederspant as ZZ				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S113	Fu.C.14	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.15	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.16	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.17	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 D	-72.17	0.10	-0.11	-0.11
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 D	-127.47	0.13	-0.15	-0.15
	Fu.C.20	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.21	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.22	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.23	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.24	0.00	0.08	1.055	0.00	0.000	0.000 D	-378.58	0.06	-0.25	-0.25
	Fu.C.25	0.00	0.09	1.055	0.00	0.000	0.000 D	-239.16	0.13	-0.20	-0.20
	Fu.C.26	0.00	0.06	1.055	0.00	0.000	0.000 D	-159.48	0.09	-0.12	-0.12
	Fu.C.27	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
	Fu.C.28	0.00	0.08	1.055	0.00	0.000	0.000 D	-212.87	0.11	-0.17	-0.17
S114	Fu.C.1	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.2	0.00	0.05	1.055	0.00	0.000	0.000 T	69.85	0.10	0.10	-0.09
	Fu.C.3	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.4	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.5	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.6	0.00	0.07	1.055	0.00	0.000	0.000 T	125.71	0.14	0.14	-0.11
	Fu.C.7	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.8	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.9	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.10	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.11	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.12	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.13	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.14	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.15	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.16	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.17	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.18	0.00	0.05	1.055	0.00	0.000	0.000 T	73.56	0.10	0.10	-0.09
	Fu.C.19	0.00	0.07	1.055	0.00	0.000	0.000 T	129.33	0.14	0.14	-0.11
	Fu.C.20	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.21	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.22	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.23	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.24	0.00	0.06	1.055	0.00	0.000	0.000 T	380.15	0.21	0.21	-0.02
	Fu.C.25	0.00	0.07	1.055	0.00	0.000	0.000 T	241.13	0.17	0.17	-0.10
	Fu.C.26	0.00	0.05	1.055	0.00	0.000	0.000 T	160.75	0.11	0.11	-0.08
	Fu.C.27	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
	Fu.C.28	0.00	0.06	1.055	0.00	0.000	0.000 T	214.60	0.15	0.15	-0.09
S115	Fu.C.1	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.2	0.00	12.26	3.285	-7.60	0.000	0.000 D	-60.90	7.62	-9.65	-9.65
	Fu.C.3	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.4	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.5	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.6	0.00			8.96	0.000	0.000 D	-110.60	0.55	1.82	1.82
	Fu.C.7	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.8	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.9	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.10	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.11	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.12	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.13	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.14	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.15	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.16	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.17	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.18	0.00	21.05	2.920	-20.05	0.000	0.000 D	-63.61	13.82	-19.19	-19.19
	Fu.C.19	0.00	11.67	3.285	-3.60	0.000	0.000 D	-113.34	6.82	-7.76	-7.76
	Fu.C.20	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.21	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.22	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.23	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10

Moederspant as ZZ	Novares Constructeurs	
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S115	Fu.C.24	0.00			19.20	0.000	0.000 D	-345.60	3.51	3.51	1.18
	Fu.C.25	0.00			12.56	0.000	0.000 D	-216.07	2.05	2.05	1.16
	Fu.C.26	0.00			8.53	0.000	0.000 D	-144.07	1.31	1.31	0.92
	Fu.C.27	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
	Fu.C.28	0.00			11.25	0.000	0.000 D	-192.32	1.80	1.80	1.10
S116	Fu.C.1	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.2	-7.60			0.00	0.000	0.000 D	-56.60	6.43	6.43	2.49
	Fu.C.3	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.4	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.5	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.6	8.96			0.00	0.000	0.000 D	-104.83	-5.41	-5.41	-5.13
	Fu.C.7	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.8	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.9	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.10	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.11	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.12	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.13	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.14	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.15	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.16	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.17	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.18	-20.05			0.00	0.000	0.000 D	-59.59	15.54	15.54	8.02
	Fu.C.19	-3.60			0.00	0.000	0.000 D	-107.80	3.73	3.73	0.48
	Fu.C.20	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.21	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.22	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.23	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.24	19.20			0.00	0.000	0.000 D	-338.53	-11.07	-11.53	-11.53
	Fu.C.25	12.56			0.00	0.000	0.000 D	-209.30	-7.30	-7.48	-7.48
	Fu.C.26	8.53			0.00	0.000	0.000 D	-139.56	-4.98	-5.06	-5.06
	Fu.C.27	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
	Fu.C.28	11.25			0.00	0.000	0.000 D	-186.29	-6.54	-6.69	-6.69
-	-	kNm	kNm	m	kNm	m	m -	kN	kN	kN	kN

AFB. FU.C. OPLEGREACTIES OMHULLENDE

Fundamenteel Belastingscombinaties



FU.C. OPLEGREACTIES ANALYSE

B.C.	Oplegging	Knoop	X	Z	My
Fu.C.1	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.2	O1	K1	-6.63	-64.87	0.00
	O2	K2	-0.64	-239.22	0.00
	O3	K3	0.20	-244.90	0.00
	O4	K4	-7.45	-60.93	0.00

Moederspant as ZZ	Novares Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.2	O5	K66	-91.41	0.00	0.00
	Som Reacties		-105.93	-609.92	
	Som Lasten		105.93	609.92	
Fu.C.3	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
Fu.C.4	Som Lasten		0.00	1286.11	
	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
Fu.C.5	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
Fu.C.6	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
	O1	K1	-13.65	-114.49	0.00
	O2	K2	-0.88	-405.00	0.00
	O3	K3	0.35	-410.68	0.00
Fu.C.7	O4	K4	-0.43	-110.60	0.00
	O5	K66	-91.33	0.00	0.00
	Som Reacties		-105.93	-1,040.77	
	Som Lasten		105.93	1040.77	
	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
Fu.C.8	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
	O1	K1	1.27	-192.06	0.00
Fu.C.9	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.10	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
Fu.C.11	Som Lasten		0.00	1716.96	
	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
Fu.C.12	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00

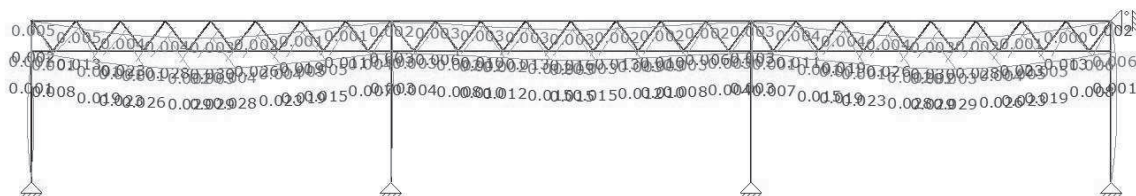
Moederspant as ZZ	Novares Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.12	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
Fu.C.13	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
Fu.C.14	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.15	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.16	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.17	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.18	O1	K1	13.47	-63.59	0.00
	O2	K2	-0.44	-241.32	0.00
	O3	K3	0.27	-241.33	0.00
	O4	K4	-13.53	-63.67	0.00
	O5	K66	0.24	0.00	0.00
	Som Reacties		0.00	-609.91	
	Som Lasten		0.00	609.91	
Fu.C.19	O1	K1	6.38	-113.20	0.00
	O2	K2	-0.71	-407.09	0.00
	O3	K3	0.41	-407.11	0.00
	O4	K4	-6.50	-113.36	0.00
	O5	K66	0.42	0.00	0.00
	Som Reacties		0.00	-1,040.76	
	Som Lasten		0.00	1040.76	
Fu.C.20	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
Fu.C.21	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
Fu.C.22	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00

Moederspant as ZZ			Novares Constructeurs		
B.C.	Oplegging	Knoop	X	Z	My
Fu.C.22	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.23	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.24	O1	K1	2.15	-345.22	0.00
	O2	K2	-1.47	-1180.63	0.00
	O3	K3	1.33	-1180.72	0.00
	O4	K4	-2.28	-345.61	0.00
	O5	K66	0.27	0.00	0.00
	Som Reacties		0.00	-3,052.17	
	Som Lasten		0.00	3052.17	
Fu.C.25	O1	K1	1.41	-215.80	0.00
	O2	K2	-1.15	-748.63	0.00
	O3	K3	0.78	-748.67	0.00
	O4	K4	-1.58	-216.08	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,929.17	
	Som Lasten		0.00	1929.17	
Fu.C.26	O1	K1	0.96	-143.87	0.00
	O2	K2	-0.85	-499.07	0.00
	O3	K3	0.50	-499.09	0.00
	O4	K4	-1.11	-144.07	0.00
	O5	K66	0.49	0.00	0.00
	Som Reacties		0.00	-1,286.11	
	Som Lasten		0.00	1286.11	
Fu.C.27	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
Fu.C.28	O1	K1	1.27	-192.06	0.00
	O2	K2	-1.06	-666.27	0.00
	O3	K3	0.68	-666.31	0.00
	O4	K4	-1.43	-192.32	0.00
	O5	K66	0.54	0.00	0.00
	Som Reacties		0.00	-1,716.96	
	Som Lasten		0.00	1716.96	
-	-	-	kN	kN	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Z	Yr
K1	Ka.C.(w1)	0.0000	0.0000	0.961e-03
	Ka.C.1	0.0000	0.0000	0.961e-03
	Ka.C.2	0.0000	0.0000	0.961e-03
	Ka.C.3	0.0000	0.0000	0.961e-03
	Ka.C.4	0.0000	0.0000	0.961e-03
	Ka.C.5	0.0000	0.0000	-0.927e-03
	Ka.C.6	0.0000	0.0000	0.961e-03
	Ka.C.7	0.0000	0.0000	0.961e-03
	Ka.C.8	0.0000	0.0000	0.961e-03
	Ka.C.9	0.0000	0.0000	-2.447e-03
	Ka.C.10	0.0000	0.0000	0.961e-03
	Ka.C.11	0.0000	0.0000	0.961e-03
	Ka.C.12	0.0000	0.0000	0.961e-03
	Ka.C.13	0.0000	0.0000	0.961e-03
	Ka.C.14	0.0000	0.0000	0.961e-03
	Ka.C.15	0.0000	0.0000	0.961e-03
	Ka.C.16	0.0000	0.0000	0.961e-03
	Ka.C.17	0.0000	0.0000	0.961e-03
	Ka.C.18	0.0000	0.0000	0.961e-03
	Ka.C.19	0.0000	0.0000	0.961e-03
	Ka.C.20	0.0000	0.0000	0.961e-03
	Ka.C.21	0.0000	0.0000	3.320e-03
	Ka.C.22	0.0000	0.0000	1.803e-03
	Ka.C.23	0.0000	0.0000	0.961e-03
	Ka.C.24	0.0000	0.0000	0.961e-03
	Ka.C.25	0.0000	0.0000	0.961e-03
	Ka.C.26	0.0000	0.0000	0.961e-03
	Ka.C.27	0.0000	0.0000	1.595e-03
K2	Ka.C.(w1)	0.0000	0.0000	-0.628e-03
	Ka.C.1	0.0000	0.0000	-0.628e-03
	Ka.C.2	0.0000	0.0000	-0.628e-03
	Ka.C.3	0.0000	0.0000	-0.628e-03
	Ka.C.4	0.0000	0.0000	-0.628e-03
	Ka.C.5	0.0000	0.0000	-0.572e-03
	Ka.C.6	0.0000	0.0000	-0.628e-03
	Ka.C.7	0.0000	0.0000	-0.628e-03
	Ka.C.8	0.0000	0.0000	-0.628e-03
	Ka.C.9	0.0000	0.0000	-0.582e-03
	Ka.C.10	0.0000	0.0000	-0.628e-03
	Ka.C.11	0.0000	0.0000	-0.628e-03
	Ka.C.12	0.0000	0.0000	-0.628e-03
	Ka.C.13	0.0000	0.0000	-0.628e-03
	Ka.C.14	0.0000	0.0000	-0.628e-03
	Ka.C.15	0.0000	0.0000	-0.628e-03
	Ka.C.16	0.0000	0.0000	-0.628e-03
	Ka.C.17	0.0000	0.0000	-0.628e-03
	Ka.C.18	0.0000	0.0000	-0.628e-03
	Ka.C.19	0.0000	0.0000	-0.628e-03
	Ka.C.20	0.0000	0.0000	-0.628e-03
	Ka.C.21	0.0000	0.0000	-0.404e-03
	Ka.C.22	0.0000	0.0000	-0.415e-03
	Ka.C.23	0.0000	0.0000	-0.628e-03
	Ka.C.24	0.0000	0.0000	-0.628e-03
	Ka.C.25	0.0000	0.0000	-0.628e-03
	Ka.C.26	0.0000	0.0000	-0.628e-03
	Ka.C.27	0.0000	0.0000	-1.050e-03
K3	Ka.C.(w1)	0.0000	0.0000	-0.005e-03
	Ka.C.1	0.0000	0.0000	-0.005e-03
	Ka.C.2	0.0000	0.0000	-0.005e-03
	Ka.C.3	0.0000	0.0000	-0.005e-03
	Ka.C.4	0.0000	0.0000	-0.005e-03
	Ka.C.5	0.0000	0.0000	-0.068e-03
	Ka.C.6	0.0000	0.0000	-0.005e-03
	Ka.C.7	0.0000	0.0000	-0.005e-03
	Ka.C.8	0.0000	0.0000	-0.005e-03
	Ka.C.9	0.0000	0.0000	-0.079e-03
	Ka.C.10	0.0000	0.0000	-0.005e-03
	Ka.C.11	0.0000	0.0000	-0.005e-03
	Ka.C.12	0.0000	0.0000	-0.005e-03
	Ka.C.13	0.0000	0.0000	-0.005e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K3	Ka.C.14	0.0000	0.0000	-0.005e-03
	Ka.C.15	0.0000	0.0000	-0.005e-03
	Ka.C.16	0.0000	0.0000	-0.005e-03
	Ka.C.17	0.0000	0.0000	-0.005e-03
	Ka.C.18	0.0000	0.0000	-0.005e-03
	Ka.C.19	0.0000	0.0000	-0.005e-03
	Ka.C.20	0.0000	0.0000	-0.005e-03
	Ka.C.21	0.0000	0.0000	0.015e-03
	Ka.C.22	0.0000	0.0000	0.004e-03
	Ka.C.23	0.0000	0.0000	-0.005e-03
	Ka.C.24	0.0000	0.0000	-0.005e-03
	Ka.C.25	0.0000	0.0000	-0.005e-03
	Ka.C.26	0.0000	0.0000	-0.005e-03
	Ka.C.27	0.0000	0.0000	-0.004e-03
K4	Ka.C.(w1)	0.0000	0.0000	-1.591e-03
	Ka.C.1	0.0000	0.0000	-1.591e-03
	Ka.C.2	0.0000	0.0000	-1.591e-03
	Ka.C.3	0.0000	0.0000	-1.591e-03
	Ka.C.4	0.0000	0.0000	-1.591e-03
	Ka.C.5	0.0000	0.0000	-2.546e-03
	Ka.C.6	0.0000	0.0000	-1.591e-03
	Ka.C.7	0.0000	0.0000	-1.591e-03
	Ka.C.8	0.0000	0.0000	-1.591e-03
	Ka.C.9	0.0000	0.0000	-1.050e-03
	Ka.C.10	0.0000	0.0000	-1.591e-03
	Ka.C.11	0.0000	0.0000	-1.591e-03
	Ka.C.12	0.0000	0.0000	-1.591e-03
	Ka.C.13	0.0000	0.0000	-1.591e-03
	Ka.C.14	0.0000	0.0000	-1.591e-03
	Ka.C.15	0.0000	0.0000	-1.591e-03
	Ka.C.16	0.0000	0.0000	-1.591e-03
	Ka.C.17	0.0000	0.0000	-1.591e-03
	Ka.C.18	0.0000	0.0000	-1.591e-03
	Ka.C.19	0.0000	0.0000	-1.591e-03
	Ka.C.20	0.0000	0.0000	-1.591e-03
	Ka.C.21	0.0000	0.0000	-3.709e-03
	Ka.C.22	0.0000	0.0000	-2.213e-03
	Ka.C.23	0.0000	0.0000	-1.591e-03
	Ka.C.24	0.0000	0.0000	-1.591e-03
	Ka.C.25	0.0000	0.0000	-1.591e-03
	Ka.C.26	0.0000	0.0000	-1.591e-03
	Ka.C.27	0.0000	0.0000	-2.645e-03
K5	Ka.C.(w1)	-0.0003	0.0009	-1.718e-03
	Ka.C.1	-0.0003	0.0009	-1.718e-03
	Ka.C.2	-0.0003	0.0009	-1.718e-03
	Ka.C.3	-0.0003	0.0009	-1.718e-03
	Ka.C.4	-0.0003	0.0009	-1.718e-03
	Ka.C.5	0.0007	0.0006	-0.805e-03
	Ka.C.6	-0.0003	0.0009	-1.718e-03
	Ka.C.7	-0.0003	0.0009	-1.718e-03
	Ka.C.8	-0.0003	0.0009	-1.718e-03
	Ka.C.9	0.0009	0.0006	-0.329e-03
	Ka.C.10	-0.0003	0.0009	-1.718e-03
	Ka.C.11	-0.0003	0.0009	-1.718e-03
	Ka.C.12	-0.0003	0.0009	-1.718e-03
	Ka.C.13	-0.0003	0.0009	-1.718e-03
	Ka.C.14	-0.0003	0.0009	-1.718e-03
	Ka.C.15	-0.0003	0.0009	-1.718e-03
	Ka.C.16	-0.0003	0.0009	-1.718e-03
	Ka.C.17	-0.0003	0.0009	-1.718e-03
	Ka.C.18	-0.0003	0.0009	-1.718e-03
	Ka.C.19	-0.0003	0.0009	-1.718e-03
	Ka.C.20	-0.0003	0.0009	-1.718e-03
	Ka.C.21	-0.0006	0.0006	-2.005e-03
	Ka.C.22	-0.0004	0.0006	-1.530e-03
	Ka.C.23	-0.0003	0.0009	-1.718e-03
	Ka.C.24	-0.0003	0.0009	-1.718e-03
	Ka.C.25	-0.0003	0.0009	-1.718e-03
	Ka.C.26	-0.0003	0.0009	-1.718e-03
	Ka.C.27	-0.0005	0.0014	-2.813e-03
K6	Ka.C.(w1)	-0.0003	0.0047	-2.999e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K6	Ka.C.1	-0.0003	0.0047	-2.999e-03
	Ka.C.2	-0.0003	0.0047	-2.999e-03
	Ka.C.3	-0.0003	0.0047	-2.999e-03
	Ka.C.4	-0.0003	0.0047	-2.999e-03
	Ka.C.5	0.0007	0.0032	-2.088e-03
	Ka.C.6	-0.0003	0.0047	-2.999e-03
	Ka.C.7	-0.0003	0.0047	-2.999e-03
	Ka.C.8	-0.0003	0.0047	-2.999e-03
	Ka.C.9	0.0009	0.0032	-2.056e-03
	Ka.C.10	-0.0003	0.0047	-2.999e-03
	Ka.C.11	-0.0003	0.0047	-2.999e-03
	Ka.C.12	-0.0003	0.0047	-2.999e-03
	Ka.C.13	-0.0003	0.0047	-2.999e-03
	Ka.C.14	-0.0003	0.0047	-2.999e-03
	Ka.C.15	-0.0003	0.0047	-2.999e-03
	Ka.C.16	-0.0003	0.0047	-2.999e-03
	Ka.C.17	-0.0003	0.0047	-2.999e-03
	Ka.C.18	-0.0003	0.0047	-2.999e-03
	Ka.C.19	-0.0003	0.0047	-2.999e-03
	Ka.C.20	-0.0003	0.0047	-2.999e-03
	Ka.C.21	-0.0006	0.0033	-2.105e-03
	Ka.C.22	-0.0004	0.0032	-2.074e-03
	Ka.C.23	-0.0003	0.0047	-2.999e-03
	Ka.C.24	-0.0003	0.0047	-2.999e-03
	Ka.C.25	-0.0003	0.0047	-2.999e-03
	Ka.C.26	-0.0003	0.0047	-2.999e-03
	Ka.C.27	-0.0005	0.0076	-4.876e-03
K7	Ka.C.(w1)	0.0000	0.0115	-2.339e-03
	Ka.C.1	0.0000	0.0115	-2.339e-03
	Ka.C.2	0.0000	0.0115	-2.339e-03
	Ka.C.3	0.0000	0.0115	-2.339e-03
	Ka.C.4	0.0000	0.0115	-2.339e-03
	Ka.C.5	0.0009	0.0079	-1.613e-03
	Ka.C.6	0.0000	0.0115	-2.339e-03
	Ka.C.7	0.0000	0.0115	-2.339e-03
	Ka.C.8	0.0000	0.0115	-2.339e-03
	Ka.C.9	0.0011	0.0078	-1.593e-03
	Ka.C.10	0.0000	0.0115	-2.339e-03
	Ka.C.11	0.0000	0.0115	-2.339e-03
	Ka.C.12	0.0000	0.0115	-2.339e-03
	Ka.C.13	0.0000	0.0115	-2.339e-03
	Ka.C.14	0.0000	0.0115	-2.339e-03
	Ka.C.15	0.0000	0.0115	-2.339e-03
	Ka.C.16	0.0000	0.0115	-2.339e-03
	Ka.C.17	0.0000	0.0115	-2.339e-03
	Ka.C.18	0.0000	0.0115	-2.339e-03
	Ka.C.19	0.0000	0.0115	-2.339e-03
	Ka.C.20	0.0000	0.0115	-2.339e-03
	Ka.C.21	-0.0003	0.0080	-1.629e-03
	Ka.C.22	-0.0001	0.0079	-1.610e-03
	Ka.C.23	0.0000	0.0115	-2.339e-03
	Ka.C.24	0.0000	0.0115	-2.339e-03
	Ka.C.25	0.0000	0.0115	-2.339e-03
	Ka.C.26	0.0000	0.0115	-2.339e-03
	Ka.C.27	0.0000	0.0187	-3.807e-03
K8	Ka.C.(w1)	0.0003	0.0141	-1.874e-03
	Ka.C.1	0.0003	0.0141	-1.874e-03
	Ka.C.2	0.0003	0.0141	-1.874e-03
	Ka.C.3	0.0003	0.0141	-1.874e-03
	Ka.C.4	0.0003	0.0141	-1.874e-03
	Ka.C.5	0.0011	0.0097	-1.292e-03
	Ka.C.6	0.0003	0.0141	-1.874e-03
	Ka.C.7	0.0003	0.0141	-1.874e-03
	Ka.C.8	0.0003	0.0141	-1.874e-03
	Ka.C.9	0.0013	0.0096	-1.279e-03
	Ka.C.10	0.0003	0.0141	-1.874e-03
	Ka.C.11	0.0003	0.0141	-1.874e-03
	Ka.C.12	0.0003	0.0141	-1.874e-03
	Ka.C.13	0.0003	0.0141	-1.874e-03
	Ka.C.14	0.0003	0.0141	-1.874e-03
	Ka.C.15	0.0003	0.0141	-1.874e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K8	Ka.C.16	0.0003	0.0141	-1.874e-03
	Ka.C.17	0.0003	0.0141	-1.874e-03
	Ka.C.18	0.0003	0.0141	-1.874e-03
	Ka.C.19	0.0003	0.0141	-1.874e-03
	Ka.C.20	0.0003	0.0141	-1.874e-03
	Ka.C.21	-0.0001	0.0098	-1.300e-03
	Ka.C.22	0.0001	0.0097	-1.288e-03
	Ka.C.23	0.0003	0.0141	-1.874e-03
	Ka.C.24	0.0003	0.0141	-1.874e-03
	Ka.C.25	0.0003	0.0141	-1.874e-03
K9	Ka.C.26	0.0003	0.0141	-1.874e-03
	Ka.C.27	0.0006	0.0230	-3.050e-03
	Ka.C.(w1)	0.0007	0.0161	-1.354e-03
	Ka.C.1	0.0007	0.0161	-1.354e-03
	Ka.C.2	0.0007	0.0161	-1.354e-03
	Ka.C.3	0.0007	0.0161	-1.354e-03
	Ka.C.4	0.0007	0.0161	-1.354e-03
	Ka.C.5	0.0014	0.0111	-0.932e-03
	Ka.C.6	0.0007	0.0161	-1.354e-03
	Ka.C.7	0.0007	0.0161	-1.354e-03
	Ka.C.8	0.0007	0.0161	-1.354e-03
	Ka.C.9	0.0015	0.0110	-0.926e-03
	Ka.C.10	0.0007	0.0161	-1.354e-03
	Ka.C.11	0.0007	0.0161	-1.354e-03
	Ka.C.12	0.0007	0.0161	-1.354e-03
	Ka.C.13	0.0007	0.0161	-1.354e-03
	Ka.C.14	0.0007	0.0161	-1.354e-03
	Ka.C.15	0.0007	0.0161	-1.354e-03
	Ka.C.16	0.0007	0.0161	-1.354e-03
	Ka.C.17	0.0007	0.0161	-1.354e-03
K10	Ka.C.18	0.0007	0.0161	-1.354e-03
	Ka.C.19	0.0007	0.0161	-1.354e-03
	Ka.C.20	0.0007	0.0161	-1.354e-03
	Ka.C.21	0.0002	0.0112	-0.934e-03
	Ka.C.22	0.0003	0.0111	-0.929e-03
	Ka.C.23	0.0007	0.0161	-1.354e-03
	Ka.C.24	0.0007	0.0161	-1.354e-03
	Ka.C.25	0.0007	0.0161	-1.354e-03
	Ka.C.26	0.0007	0.0161	-1.354e-03
	Ka.C.27	0.0011	0.0262	-2.203e-03
	Ka.C.(w1)	0.0014	0.0181	-0.222e-03
	Ka.C.1	0.0014	0.0181	-0.222e-03
	Ka.C.2	0.0014	0.0181	-0.222e-03
	Ka.C.3	0.0014	0.0181	-0.222e-03
	Ka.C.4	0.0014	0.0181	-0.222e-03
	Ka.C.5	0.0018	0.0125	-0.149e-03
	Ka.C.6	0.0014	0.0181	-0.222e-03
	Ka.C.7	0.0014	0.0181	-0.222e-03
	Ka.C.8	0.0014	0.0181	-0.222e-03
	Ka.C.9	0.0019	0.0124	-0.152e-03
K11	Ka.C.10	0.0014	0.0181	-0.222e-03
	Ka.C.11	0.0014	0.0181	-0.222e-03
	Ka.C.12	0.0014	0.0181	-0.222e-03
	Ka.C.13	0.0014	0.0181	-0.222e-03
	Ka.C.14	0.0014	0.0181	-0.222e-03
	Ka.C.15	0.0014	0.0181	-0.222e-03
	Ka.C.16	0.0014	0.0181	-0.222e-03
	Ka.C.17	0.0014	0.0181	-0.222e-03
	Ka.C.18	0.0014	0.0181	-0.222e-03
	Ka.C.19	0.0014	0.0181	-0.222e-03
	Ka.C.20	0.0014	0.0181	-0.222e-03
	Ka.C.21	0.0007	0.0126	-0.145e-03
	Ka.C.22	0.0008	0.0125	-0.149e-03
	Ka.C.23	0.0014	0.0181	-0.222e-03
	Ka.C.24	0.0014	0.0181	-0.222e-03
	Ka.C.25	0.0014	0.0181	-0.222e-03
	Ka.C.26	0.0014	0.0181	-0.222e-03
	Ka.C.27	0.0023	0.0295	-0.361e-03
	Ka.C.(w1)	0.0018	0.0180	0.353e-03
	Ka.C.1	0.0018	0.0180	0.353e-03
	Ka.C.2	0.0018	0.0180	0.353e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K11	Ka.C.3	0.0018	0.0180	0.353e-03
	Ka.C.4	0.0018	0.0180	0.353e-03
	Ka.C.5	0.0021	0.0124	0.246e-03
	Ka.C.6	0.0018	0.0180	0.353e-03
	Ka.C.7	0.0018	0.0180	0.353e-03
	Ka.C.8	0.0018	0.0180	0.353e-03
	Ka.C.9	0.0022	0.0123	0.240e-03
	Ka.C.10	0.0018	0.0180	0.353e-03
	Ka.C.11	0.0018	0.0180	0.353e-03
	Ka.C.12	0.0018	0.0180	0.353e-03
	Ka.C.13	0.0018	0.0180	0.353e-03
	Ka.C.14	0.0018	0.0180	0.353e-03
	Ka.C.15	0.0018	0.0180	0.353e-03
	Ka.C.16	0.0018	0.0180	0.353e-03
	Ka.C.17	0.0018	0.0180	0.353e-03
	Ka.C.18	0.0018	0.0180	0.353e-03
	Ka.C.19	0.0018	0.0180	0.353e-03
	Ka.C.20	0.0018	0.0180	0.353e-03
	Ka.C.21	0.0010	0.0125	0.253e-03
	Ka.C.22	0.0011	0.0124	0.246e-03
	Ka.C.23	0.0018	0.0180	0.353e-03
	Ka.C.24	0.0018	0.0180	0.353e-03
	Ka.C.25	0.0018	0.0180	0.353e-03
	Ka.C.26	0.0018	0.0180	0.353e-03
	Ka.C.27	0.0029	0.0293	0.576e-03
K12	Ka.C.(w1)	0.0021	0.0172	0.907e-03
	Ka.C.1	0.0021	0.0172	0.907e-03
	Ka.C.2	0.0021	0.0172	0.907e-03
	Ka.C.3	0.0021	0.0172	0.907e-03
	Ka.C.4	0.0021	0.0172	0.907e-03
	Ka.C.5	0.0023	0.0119	0.626e-03
	Ka.C.6	0.0021	0.0172	0.907e-03
	Ka.C.7	0.0021	0.0172	0.907e-03
	Ka.C.8	0.0021	0.0172	0.907e-03
	Ka.C.9	0.0024	0.0118	0.617e-03
	Ka.C.10	0.0021	0.0172	0.907e-03
	Ka.C.11	0.0021	0.0172	0.907e-03
	Ka.C.12	0.0021	0.0172	0.907e-03
	Ka.C.13	0.0021	0.0172	0.907e-03
	Ka.C.14	0.0021	0.0172	0.907e-03
	Ka.C.15	0.0021	0.0172	0.907e-03
	Ka.C.16	0.0021	0.0172	0.907e-03
	Ka.C.17	0.0021	0.0172	0.907e-03
	Ka.C.18	0.0021	0.0172	0.907e-03
	Ka.C.19	0.0021	0.0172	0.907e-03
	Ka.C.20	0.0021	0.0172	0.907e-03
	Ka.C.21	0.0013	0.0120	0.635e-03
	Ka.C.22	0.0014	0.0118	0.625e-03
	Ka.C.23	0.0021	0.0172	0.907e-03
	Ka.C.24	0.0021	0.0172	0.907e-03
	Ka.C.25	0.0021	0.0172	0.907e-03
	Ka.C.26	0.0021	0.0172	0.907e-03
	Ka.C.27	0.0035	0.0281	1.478e-03
K13	Ka.C.(w1)	0.0026	0.0138	1.718e-03
	Ka.C.1	0.0026	0.0138	1.718e-03
	Ka.C.2	0.0026	0.0138	1.718e-03
	Ka.C.3	0.0026	0.0138	1.718e-03
	Ka.C.4	0.0026	0.0138	1.718e-03
	Ka.C.5	0.0026	0.0095	1.185e-03
	Ka.C.6	0.0026	0.0138	1.718e-03
	Ka.C.7	0.0026	0.0138	1.718e-03
	Ka.C.8	0.0026	0.0138	1.718e-03
	Ka.C.9	0.0027	0.0095	1.172e-03
	Ka.C.10	0.0026	0.0138	1.718e-03
	Ka.C.11	0.0026	0.0138	1.718e-03
	Ka.C.12	0.0026	0.0138	1.718e-03
	Ka.C.13	0.0026	0.0138	1.718e-03
	Ka.C.14	0.0026	0.0138	1.718e-03
	Ka.C.15	0.0026	0.0138	1.718e-03
	Ka.C.16	0.0026	0.0138	1.718e-03
	Ka.C.17	0.0026	0.0138	1.718e-03

Moederspant as ZZ	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K13	Ka.C.18	0.0026	0.0138	1.718e-03
	Ka.C.19	0.0026	0.0138	1.718e-03
	Ka.C.20	0.0026	0.0138	1.718e-03
	Ka.C.21	0.0016	0.0096	1.195e-03
	Ka.C.22	0.0017	0.0095	1.181e-03
	Ka.C.23	0.0026	0.0138	1.718e-03
	Ka.C.24	0.0026	0.0138	1.718e-03
	Ka.C.25	0.0026	0.0138	1.718e-03
	Ka.C.26	0.0026	0.0138	1.718e-03
K14	Ka.C.27	0.0043	0.0225	2.799e-03
	Ka.C.(w1)	0.0028	0.0115	1.923e-03
	Ka.C.1	0.0028	0.0115	1.923e-03
	Ka.C.2	0.0028	0.0115	1.923e-03
	Ka.C.3	0.0028	0.0115	1.923e-03
	Ka.C.4	0.0028	0.0115	1.923e-03
	Ka.C.5	0.0027	0.0080	1.326e-03
	Ka.C.6	0.0028	0.0115	1.923e-03
	Ka.C.7	0.0028	0.0115	1.923e-03
	Ka.C.8	0.0028	0.0115	1.923e-03
	Ka.C.9	0.0028	0.0079	1.312e-03
	Ka.C.10	0.0028	0.0115	1.923e-03
	Ka.C.11	0.0028	0.0115	1.923e-03
	Ka.C.12	0.0028	0.0115	1.923e-03
	Ka.C.13	0.0028	0.0115	1.923e-03
	Ka.C.14	0.0028	0.0115	1.923e-03
	Ka.C.15	0.0028	0.0115	1.923e-03
	Ka.C.16	0.0028	0.0115	1.923e-03
	Ka.C.17	0.0028	0.0115	1.923e-03
	Ka.C.18	0.0028	0.0115	1.923e-03
	Ka.C.19	0.0028	0.0115	1.923e-03
	Ka.C.20	0.0028	0.0115	1.923e-03
	Ka.C.21	0.0017	0.0080	1.337e-03
	Ka.C.22	0.0018	0.0079	1.322e-03
	Ka.C.23	0.0028	0.0115	1.923e-03
	Ka.C.24	0.0028	0.0115	1.923e-03
	Ka.C.25	0.0028	0.0115	1.923e-03
	Ka.C.26	0.0028	0.0115	1.923e-03
	Ka.C.27	0.0045	0.0188	3.133e-03
K15	Ka.C.(w1)	0.0029	0.0091	2.004e-03
	Ka.C.1	0.0029	0.0091	2.004e-03
	Ka.C.2	0.0029	0.0091	2.004e-03
	Ka.C.3	0.0029	0.0091	2.004e-03
	Ka.C.4	0.0029	0.0091	2.004e-03
	Ka.C.5	0.0027	0.0063	1.378e-03
	Ka.C.6	0.0029	0.0091	2.004e-03
	Ka.C.7	0.0029	0.0091	2.004e-03
	Ka.C.8	0.0029	0.0091	2.004e-03
	Ka.C.9	0.0028	0.0062	1.364e-03
	Ka.C.10	0.0029	0.0091	2.004e-03
	Ka.C.11	0.0029	0.0091	2.004e-03
	Ka.C.12	0.0029	0.0091	2.004e-03
	Ka.C.13	0.0029	0.0091	2.004e-03
	Ka.C.14	0.0029	0.0091	2.004e-03
	Ka.C.15	0.0029	0.0091	2.004e-03
	Ka.C.16	0.0029	0.0091	2.004e-03
	Ka.C.17	0.0029	0.0091	2.004e-03
	Ka.C.18	0.0029	0.0091	2.004e-03
	Ka.C.19	0.0029	0.0091	2.004e-03
	Ka.C.20	0.0029	0.0091	2.004e-03
	Ka.C.21	0.0018	0.0063	1.392e-03
	Ka.C.22	0.0019	0.0062	1.377e-03
	Ka.C.23	0.0029	0.0091	2.004e-03
	Ka.C.24	0.0029	0.0091	2.004e-03
	Ka.C.25	0.0029	0.0091	2.004e-03
	Ka.C.26	0.0029	0.0091	2.004e-03
	Ka.C.27	0.0047	0.0148	3.266e-03
K16	Ka.C.(w1)	0.0026	0.0041	1.980e-03
	Ka.C.1	0.0026	0.0041	1.980e-03
	Ka.C.2	0.0026	0.0041	1.980e-03
	Ka.C.3	0.0026	0.0041	1.980e-03
	Ka.C.4	0.0026	0.0041	1.980e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K16	Ka.C.5	0.0025	0.0028	1.376e-03
	Ka.C.6	0.0026	0.0041	1.980e-03
	Ka.C.7	0.0026	0.0041	1.980e-03
	Ka.C.8	0.0026	0.0041	1.980e-03
	Ka.C.9	0.0026	0.0028	1.363e-03
	Ka.C.10	0.0026	0.0041	1.980e-03
	Ka.C.11	0.0026	0.0041	1.980e-03
	Ka.C.12	0.0026	0.0041	1.980e-03
	Ka.C.13	0.0026	0.0041	1.980e-03
	Ka.C.14	0.0026	0.0041	1.980e-03
	Ka.C.15	0.0026	0.0041	1.980e-03
	Ka.C.16	0.0026	0.0041	1.980e-03
	Ka.C.17	0.0026	0.0041	1.980e-03
	Ka.C.18	0.0026	0.0041	1.980e-03
	Ka.C.19	0.0026	0.0041	1.980e-03
	Ka.C.20	0.0026	0.0041	1.980e-03
	Ka.C.21	0.0016	0.0028	1.378e-03
	Ka.C.22	0.0017	0.0028	1.364e-03
	Ka.C.23	0.0026	0.0041	1.980e-03
	Ka.C.24	0.0026	0.0041	1.980e-03
	Ka.C.25	0.0026	0.0041	1.980e-03
	Ka.C.26	0.0026	0.0041	1.980e-03
	Ka.C.27	0.0042	0.0066	3.218e-03
K17	Ka.C.(w1)	0.0021	0.0016	0.360e-03
	Ka.C.1	0.0021	0.0016	0.360e-03
	Ka.C.2	0.0021	0.0016	0.360e-03
	Ka.C.3	0.0021	0.0016	0.360e-03
	Ka.C.4	0.0021	0.0016	0.360e-03
	Ka.C.5	0.0022	0.0011	0.234e-03
	Ka.C.6	0.0021	0.0016	0.360e-03
	Ka.C.7	0.0021	0.0016	0.360e-03
	Ka.C.8	0.0021	0.0016	0.360e-03
	Ka.C.9	0.0022	0.0011	0.225e-03
	Ka.C.10	0.0021	0.0016	0.360e-03
	Ka.C.11	0.0021	0.0016	0.360e-03
	Ka.C.12	0.0021	0.0016	0.360e-03
	Ka.C.13	0.0021	0.0016	0.360e-03
	Ka.C.14	0.0021	0.0016	0.360e-03
	Ka.C.15	0.0021	0.0016	0.360e-03
	Ka.C.16	0.0021	0.0016	0.360e-03
	Ka.C.17	0.0021	0.0016	0.360e-03
	Ka.C.18	0.0021	0.0016	0.360e-03
	Ka.C.19	0.0021	0.0016	0.360e-03
	Ka.C.20	0.0021	0.0016	0.360e-03
	Ka.C.21	0.0013	0.0011	0.261e-03
	Ka.C.22	0.0014	0.0011	0.251e-03
	Ka.C.23	0.0021	0.0016	0.360e-03
	Ka.C.24	0.0021	0.0016	0.360e-03
	Ka.C.25	0.0021	0.0016	0.360e-03
	Ka.C.26	0.0021	0.0016	0.360e-03
	Ka.C.27	0.0035	0.0026	0.594e-03
K18	Ka.C.(w1)	0.0017	0.0026	-0.811e-03
	Ka.C.1	0.0017	0.0026	-0.811e-03
	Ka.C.2	0.0017	0.0026	-0.811e-03
	Ka.C.3	0.0017	0.0026	-0.811e-03
	Ka.C.4	0.0017	0.0026	-0.811e-03
	Ka.C.5	0.0018	0.0018	-0.551e-03
	Ka.C.6	0.0017	0.0026	-0.811e-03
	Ka.C.7	0.0017	0.0026	-0.811e-03
	Ka.C.8	0.0017	0.0026	-0.811e-03
	Ka.C.9	0.0019	0.0018	-0.561e-03
	Ka.C.10	0.0017	0.0026	-0.811e-03
	Ka.C.11	0.0017	0.0026	-0.811e-03
	Ka.C.12	0.0017	0.0026	-0.811e-03
	Ka.C.13	0.0017	0.0026	-0.811e-03
	Ka.C.14	0.0017	0.0026	-0.811e-03
	Ka.C.15	0.0017	0.0026	-0.811e-03
	Ka.C.16	0.0017	0.0026	-0.811e-03
	Ka.C.17	0.0017	0.0026	-0.811e-03
	Ka.C.18	0.0017	0.0026	-0.811e-03
	Ka.C.19	0.0017	0.0026	-0.811e-03

Moederspant as ZZ	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K18	Ka.C.20	0.0017	0.0026	-0.811e-03
	Ka.C.21	0.0010	0.0018	-0.540e-03
	Ka.C.22	0.0011	0.0018	-0.550e-03
	Ka.C.23	0.0017	0.0026	-0.811e-03
	Ka.C.24	0.0017	0.0026	-0.811e-03
	Ka.C.25	0.0017	0.0026	-0.811e-03
	Ka.C.26	0.0017	0.0026	-0.811e-03
	Ka.C.27	0.0027	0.0042	-1.312e-03
K19	Ka.C.(w1)	0.0012	0.0048	-0.954e-03
	Ka.C.1	0.0012	0.0048	-0.954e-03
	Ka.C.2	0.0012	0.0048	-0.954e-03
	Ka.C.3	0.0012	0.0048	-0.954e-03
	Ka.C.4	0.0012	0.0048	-0.954e-03
	Ka.C.5	0.0015	0.0032	-0.636e-03
	Ka.C.6	0.0012	0.0048	-0.954e-03
	Ka.C.7	0.0012	0.0048	-0.954e-03
	Ka.C.8	0.0012	0.0048	-0.954e-03
	Ka.C.9	0.0016	0.0033	-0.642e-03
	Ka.C.10	0.0012	0.0048	-0.954e-03
	Ka.C.11	0.0012	0.0048	-0.954e-03
	Ka.C.12	0.0012	0.0048	-0.954e-03
	Ka.C.13	0.0012	0.0048	-0.954e-03
	Ka.C.14	0.0012	0.0048	-0.954e-03
	Ka.C.15	0.0012	0.0048	-0.954e-03
	Ka.C.16	0.0012	0.0048	-0.954e-03
	Ka.C.17	0.0012	0.0048	-0.954e-03
	Ka.C.18	0.0012	0.0048	-0.954e-03
	Ka.C.19	0.0012	0.0048	-0.954e-03
	Ka.C.20	0.0012	0.0048	-0.954e-03
	Ka.C.21	0.0007	0.0032	-0.639e-03
	Ka.C.22	0.0008	0.0033	-0.645e-03
	Ka.C.23	0.0012	0.0048	-0.954e-03
	Ka.C.24	0.0012	0.0048	-0.954e-03
	Ka.C.25	0.0012	0.0048	-0.954e-03
	Ka.C.26	0.0012	0.0048	-0.954e-03
	Ka.C.27	0.0021	0.0078	-1.554e-03
K20	Ka.C.(w1)	0.0013	0.0060	-0.986e-03
	Ka.C.1	0.0013	0.0060	-0.986e-03
	Ka.C.2	0.0013	0.0060	-0.986e-03
	Ka.C.3	0.0013	0.0060	-0.986e-03
	Ka.C.4	0.0013	0.0060	-0.986e-03
	Ka.C.5	0.0015	0.0041	-0.662e-03
	Ka.C.6	0.0013	0.0060	-0.986e-03
	Ka.C.7	0.0013	0.0060	-0.986e-03
	Ka.C.8	0.0013	0.0060	-0.986e-03
	Ka.C.9	0.0016	0.0041	-0.667e-03
	Ka.C.10	0.0013	0.0060	-0.986e-03
	Ka.C.11	0.0013	0.0060	-0.986e-03
	Ka.C.12	0.0013	0.0060	-0.986e-03
	Ka.C.13	0.0013	0.0060	-0.986e-03
	Ka.C.14	0.0013	0.0060	-0.986e-03
	Ka.C.15	0.0013	0.0060	-0.986e-03
	Ka.C.16	0.0013	0.0060	-0.986e-03
	Ka.C.17	0.0013	0.0060	-0.986e-03
	Ka.C.18	0.0013	0.0060	-0.986e-03
	Ka.C.19	0.0013	0.0060	-0.986e-03
	Ka.C.20	0.0013	0.0060	-0.986e-03
	Ka.C.21	0.0007	0.0041	-0.664e-03
	Ka.C.22	0.0008	0.0041	-0.669e-03
	Ka.C.23	0.0013	0.0060	-0.986e-03
	Ka.C.24	0.0013	0.0060	-0.986e-03
	Ka.C.25	0.0013	0.0060	-0.986e-03
	Ka.C.26	0.0013	0.0060	-0.986e-03
	Ka.C.27	0.0021	0.0098	-1.604e-03
K21	Ka.C.(w1)	0.0013	0.0072	-0.926e-03
	Ka.C.1	0.0013	0.0072	-0.926e-03
	Ka.C.2	0.0013	0.0072	-0.926e-03
	Ka.C.3	0.0013	0.0072	-0.926e-03
	Ka.C.4	0.0013	0.0072	-0.926e-03
	Ka.C.5	0.0015	0.0049	-0.623e-03
	Ka.C.6	0.0013	0.0072	-0.926e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K21	Ka.C.7	0.0013	0.0072	-0.926e-03
	Ka.C.8	0.0013	0.0072	-0.926e-03
	Ka.C.9	0.0016	0.0049	-0.626e-03
	Ka.C.10	0.0013	0.0072	-0.926e-03
	Ka.C.11	0.0013	0.0072	-0.926e-03
	Ka.C.12	0.0013	0.0072	-0.926e-03
	Ka.C.13	0.0013	0.0072	-0.926e-03
	Ka.C.14	0.0013	0.0072	-0.926e-03
	Ka.C.15	0.0013	0.0072	-0.926e-03
	Ka.C.16	0.0013	0.0072	-0.926e-03
	Ka.C.17	0.0013	0.0072	-0.926e-03
	Ka.C.18	0.0013	0.0072	-0.926e-03
	Ka.C.19	0.0013	0.0072	-0.926e-03
	Ka.C.20	0.0013	0.0072	-0.926e-03
	Ka.C.21	0.0008	0.0049	-0.625e-03
	Ka.C.22	0.0008	0.0049	-0.629e-03
	Ka.C.23	0.0013	0.0072	-0.926e-03
	Ka.C.24	0.0013	0.0072	-0.926e-03
	Ka.C.25	0.0013	0.0072	-0.926e-03
	Ka.C.26	0.0013	0.0072	-0.926e-03
	Ka.C.27	0.0021	0.0117	-1.508e-03
K22	Ka.C.(w1)	0.0015	0.0090	-0.409e-03
	Ka.C.1	0.0015	0.0090	-0.409e-03
	Ka.C.2	0.0015	0.0090	-0.409e-03
	Ka.C.3	0.0015	0.0090	-0.409e-03
	Ka.C.4	0.0015	0.0090	-0.409e-03
	Ka.C.5	0.0016	0.0061	-0.272e-03
	Ka.C.6	0.0015	0.0090	-0.409e-03
	Ka.C.7	0.0015	0.0090	-0.409e-03
	Ka.C.8	0.0015	0.0090	-0.409e-03
	Ka.C.9	0.0017	0.0061	-0.273e-03
	Ka.C.10	0.0015	0.0090	-0.409e-03
	Ka.C.11	0.0015	0.0090	-0.409e-03
	Ka.C.12	0.0015	0.0090	-0.409e-03
	Ka.C.13	0.0015	0.0090	-0.409e-03
	Ka.C.14	0.0015	0.0090	-0.409e-03
	Ka.C.15	0.0015	0.0090	-0.409e-03
	Ka.C.16	0.0015	0.0090	-0.409e-03
	Ka.C.17	0.0015	0.0090	-0.409e-03
	Ka.C.18	0.0015	0.0090	-0.409e-03
	Ka.C.19	0.0015	0.0090	-0.409e-03
	Ka.C.20	0.0015	0.0090	-0.409e-03
	Ka.C.21	0.0009	0.0061	-0.276e-03
	Ka.C.22	0.0009	0.0061	-0.278e-03
	Ka.C.23	0.0015	0.0090	-0.409e-03
	Ka.C.24	0.0015	0.0090	-0.409e-03
	Ka.C.25	0.0015	0.0090	-0.409e-03
	Ka.C.26	0.0015	0.0090	-0.409e-03
	Ka.C.27	0.0024	0.0147	-0.667e-03
K23	Ka.C.(w1)	0.0016	0.0093	0.001e-03
	Ka.C.1	0.0016	0.0093	0.001e-03
	Ka.C.2	0.0016	0.0093	0.001e-03
	Ka.C.3	0.0016	0.0093	0.001e-03
	Ka.C.4	0.0016	0.0093	0.001e-03
	Ka.C.5	0.0017	0.0063	0.005e-03
	Ka.C.6	0.0016	0.0093	0.001e-03
	Ka.C.7	0.0016	0.0093	0.001e-03
	Ka.C.8	0.0016	0.0093	0.001e-03
	Ka.C.9	0.0017	0.0063	0.005e-03
	Ka.C.10	0.0016	0.0093	0.001e-03
	Ka.C.11	0.0016	0.0093	0.001e-03
	Ka.C.12	0.0016	0.0093	0.001e-03
	Ka.C.13	0.0016	0.0093	0.001e-03
	Ka.C.14	0.0016	0.0093	0.001e-03
	Ka.C.15	0.0016	0.0093	0.001e-03
	Ka.C.16	0.0016	0.0093	0.001e-03
	Ka.C.17	0.0016	0.0093	0.001e-03
	Ka.C.18	0.0016	0.0093	0.001e-03
	Ka.C.19	0.0016	0.0093	0.001e-03
	Ka.C.20	0.0016	0.0093	0.001e-03
	Ka.C.21	0.0010	0.0063	0.001e-03

Moederspant as ZZ	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K23	Ka.C.22	0.0011	0.0063	0.001e-03
	Ka.C.23	0.0016	0.0093	0.001e-03
	Ka.C.24	0.0016	0.0093	0.001e-03
	Ka.C.25	0.0016	0.0093	0.001e-03
	Ka.C.26	0.0016	0.0093	0.001e-03
	Ka.C.27	0.0027	0.0151	0.002e-03
K24	Ka.C.(w1)	0.0018	0.0090	0.411e-03
	Ka.C.1	0.0018	0.0090	0.411e-03
	Ka.C.2	0.0018	0.0090	0.411e-03
	Ka.C.3	0.0018	0.0090	0.411e-03
	Ka.C.4	0.0018	0.0090	0.411e-03
	Ka.C.5	0.0018	0.0061	0.281e-03
	Ka.C.6	0.0018	0.0090	0.411e-03
	Ka.C.7	0.0018	0.0090	0.411e-03
	Ka.C.8	0.0018	0.0090	0.411e-03
	Ka.C.9	0.0018	0.0061	0.282e-03
	Ka.C.10	0.0018	0.0090	0.411e-03
	Ka.C.11	0.0018	0.0090	0.411e-03
	Ka.C.12	0.0018	0.0090	0.411e-03
	Ka.C.13	0.0018	0.0090	0.411e-03
	Ka.C.14	0.0018	0.0090	0.411e-03
	Ka.C.15	0.0018	0.0090	0.411e-03
	Ka.C.16	0.0018	0.0090	0.411e-03
	Ka.C.17	0.0018	0.0090	0.411e-03
	Ka.C.18	0.0018	0.0090	0.411e-03
	Ka.C.19	0.0018	0.0090	0.411e-03
	Ka.C.20	0.0018	0.0090	0.411e-03
	Ka.C.21	0.0011	0.0061	0.278e-03
	Ka.C.22	0.0012	0.0061	0.279e-03
	Ka.C.23	0.0018	0.0090	0.411e-03
	Ka.C.24	0.0018	0.0090	0.411e-03
	Ka.C.25	0.0018	0.0090	0.411e-03
	Ka.C.26	0.0018	0.0090	0.411e-03
	Ka.C.27	0.0029	0.0147	0.670e-03
K25	Ka.C.(w1)	0.0020	0.0072	0.928e-03
	Ka.C.1	0.0020	0.0072	0.928e-03
	Ka.C.2	0.0020	0.0072	0.928e-03
	Ka.C.3	0.0020	0.0072	0.928e-03
	Ka.C.4	0.0020	0.0072	0.928e-03
	Ka.C.5	0.0019	0.0048	0.627e-03
	Ka.C.6	0.0020	0.0072	0.928e-03
	Ka.C.7	0.0020	0.0072	0.928e-03
	Ka.C.8	0.0020	0.0072	0.928e-03
	Ka.C.9	0.0019	0.0049	0.631e-03
	Ka.C.10	0.0020	0.0072	0.928e-03
	Ka.C.11	0.0020	0.0072	0.928e-03
	Ka.C.12	0.0020	0.0072	0.928e-03
	Ka.C.13	0.0020	0.0072	0.928e-03
	Ka.C.14	0.0020	0.0072	0.928e-03
	Ka.C.15	0.0020	0.0072	0.928e-03
	Ka.C.16	0.0020	0.0072	0.928e-03
	Ka.C.17	0.0020	0.0072	0.928e-03
	Ka.C.18	0.0020	0.0072	0.928e-03
	Ka.C.19	0.0020	0.0072	0.928e-03
	Ka.C.20	0.0020	0.0072	0.928e-03
	Ka.C.21	0.0013	0.0049	0.626e-03
	Ka.C.22	0.0013	0.0049	0.630e-03
	Ka.C.23	0.0020	0.0072	0.928e-03
	Ka.C.24	0.0020	0.0072	0.928e-03
	Ka.C.25	0.0020	0.0072	0.928e-03
	Ka.C.26	0.0020	0.0072	0.928e-03
	Ka.C.27	0.0032	0.0117	1.510e-03
K26	Ka.C.(w1)	0.0020	0.0060	0.986e-03
	Ka.C.1	0.0020	0.0060	0.986e-03
	Ka.C.2	0.0020	0.0060	0.986e-03
	Ka.C.3	0.0020	0.0060	0.986e-03
	Ka.C.4	0.0020	0.0060	0.986e-03
	Ka.C.5	0.0018	0.0040	0.663e-03
	Ka.C.6	0.0020	0.0060	0.986e-03
	Ka.C.7	0.0020	0.0060	0.986e-03
	Ka.C.8	0.0020	0.0060	0.986e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K26	Ka.C.9	0.0019	0.0041	0.668e-03
	Ka.C.10	0.0020	0.0060	0.986e-03
	Ka.C.11	0.0020	0.0060	0.986e-03
	Ka.C.12	0.0020	0.0060	0.986e-03
	Ka.C.13	0.0020	0.0060	0.986e-03
	Ka.C.14	0.0020	0.0060	0.986e-03
	Ka.C.15	0.0020	0.0060	0.986e-03
	Ka.C.16	0.0020	0.0060	0.986e-03
	Ka.C.17	0.0020	0.0060	0.986e-03
	Ka.C.18	0.0020	0.0060	0.986e-03
	Ka.C.19	0.0020	0.0060	0.986e-03
	Ka.C.20	0.0020	0.0060	0.986e-03
	Ka.C.21	0.0013	0.0040	0.664e-03
	Ka.C.22	0.0013	0.0041	0.670e-03
	Ka.C.23	0.0020	0.0060	0.986e-03
	Ka.C.24	0.0020	0.0060	0.986e-03
	Ka.C.25	0.0020	0.0060	0.986e-03
	Ka.C.26	0.0020	0.0060	0.986e-03
	Ka.C.27	0.0033	0.0098	1.605e-03
K27	Ka.C.(w1)	0.0020	0.0048	0.953e-03
	Ka.C.1	0.0020	0.0048	0.953e-03
	Ka.C.2	0.0020	0.0048	0.953e-03
	Ka.C.3	0.0020	0.0048	0.953e-03
	Ka.C.4	0.0020	0.0048	0.953e-03
	Ka.C.5	0.0018	0.0032	0.632e-03
	Ka.C.6	0.0020	0.0048	0.953e-03
	Ka.C.7	0.0020	0.0048	0.953e-03
	Ka.C.8	0.0020	0.0048	0.953e-03
	Ka.C.9	0.0019	0.0032	0.637e-03
	Ka.C.10	0.0020	0.0048	0.953e-03
	Ka.C.11	0.0020	0.0048	0.953e-03
	Ka.C.12	0.0020	0.0048	0.953e-03
	Ka.C.13	0.0020	0.0048	0.953e-03
	Ka.C.14	0.0020	0.0048	0.953e-03
	Ka.C.15	0.0020	0.0048	0.953e-03
	Ka.C.16	0.0020	0.0048	0.953e-03
	Ka.C.17	0.0020	0.0048	0.953e-03
	Ka.C.18	0.0020	0.0048	0.953e-03
	Ka.C.19	0.0020	0.0048	0.953e-03
	Ka.C.20	0.0020	0.0048	0.953e-03
	Ka.C.21	0.0013	0.0032	0.639e-03
	Ka.C.22	0.0013	0.0033	0.645e-03
	Ka.C.23	0.0020	0.0048	0.953e-03
	Ka.C.24	0.0020	0.0048	0.953e-03
	Ka.C.25	0.0020	0.0048	0.953e-03
	Ka.C.26	0.0020	0.0048	0.953e-03
	Ka.C.27	0.0033	0.0078	1.554e-03
K28	Ka.C.(w1)	0.0016	0.0026	0.808e-03
	Ka.C.1	0.0016	0.0026	0.808e-03
	Ka.C.2	0.0016	0.0026	0.808e-03
	Ka.C.3	0.0016	0.0026	0.808e-03
	Ka.C.4	0.0016	0.0026	0.808e-03
	Ka.C.5	0.0015	0.0018	0.538e-03
	Ka.C.6	0.0016	0.0026	0.808e-03
	Ka.C.7	0.0016	0.0026	0.808e-03
	Ka.C.8	0.0016	0.0026	0.808e-03
	Ka.C.9	0.0015	0.0018	0.547e-03
	Ka.C.10	0.0016	0.0026	0.808e-03
	Ka.C.11	0.0016	0.0026	0.808e-03
	Ka.C.12	0.0016	0.0026	0.808e-03
	Ka.C.13	0.0016	0.0026	0.808e-03
	Ka.C.14	0.0016	0.0026	0.808e-03
	Ka.C.15	0.0016	0.0026	0.808e-03
	Ka.C.16	0.0016	0.0026	0.808e-03
	Ka.C.17	0.0016	0.0026	0.808e-03
	Ka.C.18	0.0016	0.0026	0.808e-03
	Ka.C.19	0.0016	0.0026	0.808e-03
	Ka.C.20	0.0016	0.0026	0.808e-03
	Ka.C.21	0.0010	0.0018	0.538e-03
	Ka.C.22	0.0010	0.0018	0.548e-03
	Ka.C.23	0.0016	0.0026	0.808e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K28	Ka.C.24	0.0016	0.0026	0.808e-03
	Ka.C.25	0.0016	0.0026	0.808e-03
	Ka.C.26	0.0016	0.0026	0.808e-03
	Ka.C.27	0.0026	0.0042	1.308e-03
K29	Ka.C.(w1)	0.0011	0.0016	-0.443e-03
	Ka.C.1	0.0011	0.0016	-0.443e-03
	Ka.C.2	0.0011	0.0016	-0.443e-03
	Ka.C.3	0.0011	0.0016	-0.443e-03
	Ka.C.4	0.0011	0.0016	-0.443e-03
	Ka.C.5	0.0012	0.0011	-0.338e-03
	Ka.C.6	0.0011	0.0016	-0.443e-03
	Ka.C.7	0.0011	0.0016	-0.443e-03
	Ka.C.8	0.0011	0.0016	-0.443e-03
	Ka.C.9	0.0012	0.0011	-0.331e-03
	Ka.C.10	0.0011	0.0016	-0.443e-03
	Ka.C.11	0.0011	0.0016	-0.443e-03
	Ka.C.12	0.0011	0.0016	-0.443e-03
	Ka.C.13	0.0011	0.0016	-0.443e-03
	Ka.C.14	0.0011	0.0016	-0.443e-03
	Ka.C.15	0.0011	0.0016	-0.443e-03
	Ka.C.16	0.0011	0.0016	-0.443e-03
	Ka.C.17	0.0011	0.0016	-0.443e-03
	Ka.C.18	0.0011	0.0016	-0.443e-03
	Ka.C.19	0.0011	0.0016	-0.443e-03
	Ka.C.20	0.0011	0.0016	-0.443e-03
	Ka.C.21	0.0007	0.0011	-0.314e-03
	Ka.C.22	0.0007	0.0011	-0.307e-03
	Ka.C.23	0.0011	0.0016	-0.443e-03
	Ka.C.24	0.0011	0.0016	-0.443e-03
	Ka.C.25	0.0011	0.0016	-0.443e-03
	Ka.C.26	0.0011	0.0016	-0.443e-03
	Ka.C.27	0.0019	0.0026	-0.727e-03
K30	Ka.C.(w1)	0.0007	0.0041	-1.983e-03
	Ka.C.1	0.0007	0.0041	-1.983e-03
	Ka.C.2	0.0007	0.0041	-1.983e-03
	Ka.C.3	0.0007	0.0041	-1.983e-03
	Ka.C.4	0.0007	0.0041	-1.983e-03
	Ka.C.5	0.0008	0.0029	-1.415e-03
	Ka.C.6	0.0007	0.0041	-1.983e-03
	Ka.C.7	0.0007	0.0041	-1.983e-03
	Ka.C.8	0.0007	0.0041	-1.983e-03
	Ka.C.9	0.0009	0.0029	-1.402e-03
	Ka.C.10	0.0007	0.0041	-1.983e-03
	Ka.C.11	0.0007	0.0041	-1.983e-03
	Ka.C.12	0.0007	0.0041	-1.983e-03
	Ka.C.13	0.0007	0.0041	-1.983e-03
	Ka.C.14	0.0007	0.0041	-1.983e-03
	Ka.C.15	0.0007	0.0041	-1.983e-03
	Ka.C.16	0.0007	0.0041	-1.983e-03
	Ka.C.17	0.0007	0.0041	-1.983e-03
	Ka.C.18	0.0007	0.0041	-1.983e-03
	Ka.C.19	0.0007	0.0041	-1.983e-03
	Ka.C.20	0.0007	0.0041	-1.983e-03
	Ka.C.21	0.0004	0.0028	-1.379e-03
	Ka.C.22	0.0004	0.0028	-1.366e-03
	Ka.C.23	0.0007	0.0041	-1.983e-03
	Ka.C.24	0.0007	0.0041	-1.983e-03
	Ka.C.25	0.0007	0.0041	-1.983e-03
	Ka.C.26	0.0007	0.0041	-1.983e-03
	Ka.C.27	0.0011	0.0066	-3.223e-03
K31	Ka.C.(w1)	0.0004	0.0091	-2.005e-03
	Ka.C.1	0.0004	0.0091	-2.005e-03
	Ka.C.2	0.0004	0.0091	-2.005e-03
	Ka.C.3	0.0004	0.0091	-2.005e-03
	Ka.C.4	0.0004	0.0091	-2.005e-03
	Ka.C.5	0.0006	0.0064	-1.418e-03
	Ka.C.6	0.0004	0.0091	-2.005e-03
	Ka.C.7	0.0004	0.0091	-2.005e-03
	Ka.C.8	0.0004	0.0091	-2.005e-03
	Ka.C.9	0.0006	0.0064	-1.402e-03
	Ka.C.10	0.0004	0.0091	-2.005e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K31	Ka.C.11	0.0004	0.0091	-2.005e-03
	Ka.C.12	0.0004	0.0091	-2.005e-03
	Ka.C.13	0.0004	0.0091	-2.005e-03
	Ka.C.14	0.0004	0.0091	-2.005e-03
	Ka.C.15	0.0004	0.0091	-2.005e-03
	Ka.C.16	0.0004	0.0091	-2.005e-03
	Ka.C.17	0.0004	0.0091	-2.005e-03
	Ka.C.18	0.0004	0.0091	-2.005e-03
	Ka.C.19	0.0004	0.0091	-2.005e-03
	Ka.C.20	0.0004	0.0091	-2.005e-03
	Ka.C.21	0.0002	0.0063	-1.393e-03
	Ka.C.22	0.0002	0.0062	-1.377e-03
	Ka.C.23	0.0004	0.0091	-2.005e-03
	Ka.C.24	0.0004	0.0091	-2.005e-03
	Ka.C.25	0.0004	0.0091	-2.005e-03
	Ka.C.26	0.0004	0.0091	-2.005e-03
	Ka.C.27	0.0006	0.0148	-3.268e-03
K32	Ka.C.(w1)	0.0005	0.0116	-1.923e-03
	Ka.C.1	0.0005	0.0116	-1.923e-03
	Ka.C.2	0.0005	0.0116	-1.923e-03
	Ka.C.3	0.0005	0.0116	-1.923e-03
	Ka.C.4	0.0005	0.0116	-1.923e-03
	Ka.C.5	0.0007	0.0082	-1.364e-03
	Ka.C.6	0.0005	0.0116	-1.923e-03
	Ka.C.7	0.0005	0.0116	-1.923e-03
	Ka.C.8	0.0005	0.0116	-1.923e-03
	Ka.C.9	0.0007	0.0081	-1.350e-03
	Ka.C.10	0.0005	0.0116	-1.923e-03
	Ka.C.11	0.0005	0.0116	-1.923e-03
	Ka.C.12	0.0005	0.0116	-1.923e-03
	Ka.C.13	0.0005	0.0116	-1.923e-03
	Ka.C.14	0.0005	0.0116	-1.923e-03
	Ka.C.15	0.0005	0.0116	-1.923e-03
	Ka.C.16	0.0005	0.0116	-1.923e-03
	Ka.C.17	0.0005	0.0116	-1.923e-03
	Ka.C.18	0.0005	0.0116	-1.923e-03
	Ka.C.19	0.0005	0.0116	-1.923e-03
	Ka.C.20	0.0005	0.0116	-1.923e-03
	Ka.C.21	0.0003	0.0080	-1.337e-03
	Ka.C.22	0.0003	0.0079	-1.322e-03
	Ka.C.23	0.0005	0.0116	-1.923e-03
	Ka.C.24	0.0005	0.0116	-1.923e-03
	Ka.C.25	0.0005	0.0116	-1.923e-03
	Ka.C.26	0.0005	0.0116	-1.923e-03
	Ka.C.27	0.0008	0.0188	-3.134e-03
K33	Ka.C.(w1)	0.0006	0.0138	-1.718e-03
	Ka.C.1	0.0006	0.0138	-1.718e-03
	Ka.C.2	0.0006	0.0138	-1.718e-03
	Ka.C.3	0.0006	0.0138	-1.718e-03
	Ka.C.4	0.0006	0.0138	-1.718e-03
	Ka.C.5	0.0007	0.0098	-1.221e-03
	Ka.C.6	0.0006	0.0138	-1.718e-03
	Ka.C.7	0.0006	0.0138	-1.718e-03
	Ka.C.8	0.0006	0.0138	-1.718e-03
	Ka.C.9	0.0007	0.0097	-1.207e-03
	Ka.C.10	0.0006	0.0138	-1.718e-03
	Ka.C.11	0.0006	0.0138	-1.718e-03
	Ka.C.12	0.0006	0.0138	-1.718e-03
	Ka.C.13	0.0006	0.0138	-1.718e-03
	Ka.C.14	0.0006	0.0138	-1.718e-03
	Ka.C.15	0.0006	0.0138	-1.718e-03
	Ka.C.16	0.0006	0.0138	-1.718e-03
	Ka.C.17	0.0006	0.0138	-1.718e-03
	Ka.C.18	0.0006	0.0138	-1.718e-03
	Ka.C.19	0.0006	0.0138	-1.718e-03
	Ka.C.20	0.0006	0.0138	-1.718e-03
	Ka.C.21	0.0004	0.0096	-1.195e-03
	Ka.C.22	0.0004	0.0095	-1.181e-03
	Ka.C.23	0.0006	0.0138	-1.718e-03
	Ka.C.24	0.0006	0.0138	-1.718e-03
	Ka.C.25	0.0006	0.0138	-1.718e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K33	Ka.C.26	0.0006	0.0138	-1.718e-03
	Ka.C.27	0.0010	0.0225	-2.799e-03
K34	Ka.C.(w1)	0.0011	0.0172	-0.906e-03
	Ka.C.1	0.0011	0.0172	-0.906e-03
	Ka.C.2	0.0011	0.0172	-0.906e-03
	Ka.C.3	0.0011	0.0172	-0.906e-03
	Ka.C.4	0.0011	0.0172	-0.906e-03
	Ka.C.5	0.0010	0.0122	-0.652e-03
	Ka.C.6	0.0011	0.0172	-0.906e-03
	Ka.C.7	0.0011	0.0172	-0.906e-03
	Ka.C.8	0.0011	0.0172	-0.906e-03
	Ka.C.9	0.0010	0.0121	-0.643e-03
	Ka.C.10	0.0011	0.0172	-0.906e-03
	Ka.C.11	0.0011	0.0172	-0.906e-03
	Ka.C.12	0.0011	0.0172	-0.906e-03
	Ka.C.13	0.0011	0.0172	-0.906e-03
	Ka.C.14	0.0011	0.0172	-0.906e-03
	Ka.C.15	0.0011	0.0172	-0.906e-03
	Ka.C.16	0.0011	0.0172	-0.906e-03
	Ka.C.17	0.0011	0.0172	-0.906e-03
	Ka.C.18	0.0011	0.0172	-0.906e-03
	Ka.C.19	0.0011	0.0172	-0.906e-03
	Ka.C.20	0.0011	0.0172	-0.906e-03
	Ka.C.21	0.0008	0.0120	-0.634e-03
	Ka.C.22	0.0008	0.0118	-0.624e-03
	Ka.C.23	0.0011	0.0172	-0.906e-03
	Ka.C.24	0.0011	0.0172	-0.906e-03
	Ka.C.25	0.0011	0.0172	-0.906e-03
	Ka.C.26	0.0011	0.0172	-0.906e-03
	Ka.C.27	0.0018	0.0281	-1.476e-03
K35	Ka.C.(w1)	0.0015	0.0180	-0.352e-03
	Ka.C.1	0.0015	0.0180	-0.352e-03
	Ka.C.2	0.0015	0.0180	-0.352e-03
	Ka.C.3	0.0015	0.0180	-0.352e-03
	Ka.C.4	0.0015	0.0180	-0.352e-03
	Ka.C.5	0.0013	0.0128	-0.265e-03
	Ka.C.6	0.0015	0.0180	-0.352e-03
	Ka.C.7	0.0015	0.0180	-0.352e-03
	Ka.C.8	0.0015	0.0180	-0.352e-03
	Ka.C.9	0.0013	0.0127	-0.258e-03
	Ka.C.10	0.0015	0.0180	-0.352e-03
	Ka.C.11	0.0015	0.0180	-0.352e-03
	Ka.C.12	0.0015	0.0180	-0.352e-03
	Ka.C.13	0.0015	0.0180	-0.352e-03
	Ka.C.14	0.0015	0.0180	-0.352e-03
	Ka.C.15	0.0015	0.0180	-0.352e-03
	Ka.C.16	0.0015	0.0180	-0.352e-03
	Ka.C.17	0.0015	0.0180	-0.352e-03
	Ka.C.18	0.0015	0.0180	-0.352e-03
	Ka.C.19	0.0015	0.0180	-0.352e-03
	Ka.C.20	0.0015	0.0180	-0.352e-03
	Ka.C.21	0.0010	0.0125	-0.252e-03
	Ka.C.22	0.0010	0.0124	-0.245e-03
	Ka.C.23	0.0015	0.0180	-0.352e-03
	Ka.C.24	0.0015	0.0180	-0.352e-03
	Ka.C.25	0.0015	0.0180	-0.352e-03
	Ka.C.26	0.0015	0.0180	-0.352e-03
	Ka.C.27	0.0024	0.0293	-0.574e-03
K36	Ka.C.(w1)	0.0019	0.0181	0.224e-03
	Ka.C.1	0.0019	0.0181	0.224e-03
	Ka.C.2	0.0019	0.0181	0.224e-03
	Ka.C.3	0.0019	0.0181	0.224e-03
	Ka.C.4	0.0019	0.0181	0.224e-03
	Ka.C.5	0.0015	0.0129	0.139e-03
	Ka.C.6	0.0019	0.0181	0.224e-03
	Ka.C.7	0.0019	0.0181	0.224e-03
	Ka.C.8	0.0019	0.0181	0.224e-03
	Ka.C.9	0.0015	0.0127	0.143e-03
	Ka.C.10	0.0019	0.0181	0.224e-03
	Ka.C.11	0.0019	0.0181	0.224e-03
	Ka.C.12	0.0019	0.0181	0.224e-03

Moederspant as ZZ	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K36	Ka.C.13	0.0019	0.0181	0.224e-03
	Ka.C.14	0.0019	0.0181	0.224e-03
	Ka.C.15	0.0019	0.0181	0.224e-03
	Ka.C.16	0.0019	0.0181	0.224e-03
	Ka.C.17	0.0019	0.0181	0.224e-03
	Ka.C.18	0.0019	0.0181	0.224e-03
	Ka.C.19	0.0019	0.0181	0.224e-03
	Ka.C.20	0.0019	0.0181	0.224e-03
	Ka.C.21	0.0013	0.0126	0.146e-03
	Ka.C.22	0.0013	0.0125	0.150e-03
	Ka.C.23	0.0019	0.0181	0.224e-03
	Ka.C.24	0.0019	0.0181	0.224e-03
	Ka.C.25	0.0019	0.0181	0.224e-03
	Ka.C.26	0.0019	0.0181	0.224e-03
	Ka.C.27	0.0031	0.0295	0.363e-03
K37	Ka.C.(w1)	0.0026	0.0161	1.355e-03
	Ka.C.1	0.0026	0.0161	1.355e-03
	Ka.C.2	0.0026	0.0161	1.355e-03
	Ka.C.3	0.0026	0.0161	1.355e-03
	Ka.C.4	0.0026	0.0161	1.355e-03
	Ka.C.5	0.0020	0.0115	0.947e-03
	Ka.C.6	0.0026	0.0161	1.355e-03
	Ka.C.7	0.0026	0.0161	1.355e-03
	Ka.C.8	0.0026	0.0161	1.355e-03
	Ka.C.9	0.0020	0.0114	0.942e-03
	Ka.C.10	0.0026	0.0161	1.355e-03
	Ka.C.11	0.0026	0.0161	1.355e-03
	Ka.C.12	0.0026	0.0161	1.355e-03
	Ka.C.13	0.0026	0.0161	1.355e-03
	Ka.C.14	0.0026	0.0161	1.355e-03
	Ka.C.15	0.0026	0.0161	1.355e-03
	Ka.C.16	0.0026	0.0161	1.355e-03
	Ka.C.17	0.0026	0.0161	1.355e-03
	Ka.C.18	0.0026	0.0161	1.355e-03
	Ka.C.19	0.0026	0.0161	1.355e-03
	Ka.C.20	0.0026	0.0161	1.355e-03
	Ka.C.21	0.0018	0.0112	0.935e-03
	Ka.C.22	0.0018	0.0111	0.930e-03
	Ka.C.23	0.0026	0.0161	1.355e-03
	Ka.C.24	0.0026	0.0161	1.355e-03
	Ka.C.25	0.0026	0.0161	1.355e-03
	Ka.C.26	0.0026	0.0161	1.355e-03
	Ka.C.27	0.0042	0.0262	2.204e-03
K38	Ka.C.(w1)	0.0029	0.0141	1.874e-03
	Ka.C.1	0.0029	0.0141	1.874e-03
	Ka.C.2	0.0029	0.0141	1.874e-03
	Ka.C.3	0.0029	0.0141	1.874e-03
	Ka.C.4	0.0029	0.0141	1.874e-03
	Ka.C.5	0.0023	0.0101	1.325e-03
	Ka.C.6	0.0029	0.0141	1.874e-03
	Ka.C.7	0.0029	0.0141	1.874e-03
	Ka.C.8	0.0029	0.0141	1.874e-03
	Ka.C.9	0.0022	0.0100	1.313e-03
	Ka.C.10	0.0029	0.0141	1.874e-03
	Ka.C.11	0.0029	0.0141	1.874e-03
	Ka.C.12	0.0029	0.0141	1.874e-03
	Ka.C.13	0.0029	0.0141	1.874e-03
	Ka.C.14	0.0029	0.0141	1.874e-03
	Ka.C.15	0.0029	0.0141	1.874e-03
	Ka.C.16	0.0029	0.0141	1.874e-03
	Ka.C.17	0.0029	0.0141	1.874e-03
	Ka.C.18	0.0029	0.0141	1.874e-03
	Ka.C.19	0.0029	0.0141	1.874e-03
	Ka.C.20	0.0029	0.0141	1.874e-03
	Ka.C.21	0.0021	0.0098	1.300e-03
	Ka.C.22	0.0020	0.0097	1.289e-03
	Ka.C.23	0.0029	0.0141	1.874e-03
	Ka.C.24	0.0029	0.0141	1.874e-03
	Ka.C.25	0.0029	0.0141	1.874e-03
	Ka.C.26	0.0029	0.0141	1.874e-03
	Ka.C.27	0.0048	0.0230	3.051e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K39	Ka.C.(w1)	0.0033	0.0114	2.338e-03
	Ka.C.1	0.0033	0.0114	2.338e-03
	Ka.C.2	0.0033	0.0114	2.338e-03
	Ka.C.3	0.0033	0.0114	2.338e-03
	Ka.C.4	0.0033	0.0114	2.338e-03
	Ka.C.5	0.0025	0.0082	1.664e-03
	Ka.C.6	0.0033	0.0114	2.338e-03
	Ka.C.7	0.0033	0.0114	2.338e-03
	Ka.C.8	0.0033	0.0114	2.338e-03
	Ka.C.9	0.0024	0.0081	1.645e-03
	Ka.C.10	0.0033	0.0114	2.338e-03
	Ka.C.11	0.0033	0.0114	2.338e-03
	Ka.C.12	0.0033	0.0114	2.338e-03
	Ka.C.13	0.0033	0.0114	2.338e-03
	Ka.C.14	0.0033	0.0114	2.338e-03
	Ka.C.15	0.0033	0.0114	2.338e-03
	Ka.C.16	0.0033	0.0114	2.338e-03
	Ka.C.17	0.0033	0.0114	2.338e-03
	Ka.C.18	0.0033	0.0114	2.338e-03
	Ka.C.19	0.0033	0.0114	2.338e-03
	Ka.C.20	0.0033	0.0114	2.338e-03
	Ka.C.21	0.0023	0.0080	1.629e-03
	Ka.C.22	0.0023	0.0079	1.610e-03
	Ka.C.23	0.0033	0.0114	2.338e-03
	Ka.C.24	0.0033	0.0114	2.338e-03
	Ka.C.25	0.0033	0.0114	2.338e-03
	Ka.C.26	0.0033	0.0114	2.338e-03
	Ka.C.27	0.0053	0.0187	3.807e-03
K40	Ka.C.(w1)	0.0036	0.0047	2.997e-03
	Ka.C.1	0.0036	0.0047	2.997e-03
	Ka.C.2	0.0036	0.0047	2.997e-03
	Ka.C.3	0.0036	0.0047	2.997e-03
	Ka.C.4	0.0036	0.0047	2.997e-03
	Ka.C.5	0.0027	0.0034	2.178e-03
	Ka.C.6	0.0036	0.0047	2.997e-03
	Ka.C.7	0.0036	0.0047	2.997e-03
	Ka.C.8	0.0036	0.0047	2.997e-03
	Ka.C.9	0.0027	0.0033	2.146e-03
	Ka.C.10	0.0036	0.0047	2.997e-03
	Ka.C.11	0.0036	0.0047	2.997e-03
	Ka.C.12	0.0036	0.0047	2.997e-03
	Ka.C.13	0.0036	0.0047	2.997e-03
	Ka.C.14	0.0036	0.0047	2.997e-03
	Ka.C.15	0.0036	0.0047	2.997e-03
	Ka.C.16	0.0036	0.0047	2.997e-03
	Ka.C.17	0.0036	0.0047	2.997e-03
	Ka.C.18	0.0036	0.0047	2.997e-03
	Ka.C.19	0.0036	0.0047	2.997e-03
	Ka.C.20	0.0036	0.0047	2.997e-03
	Ka.C.21	0.0026	0.0033	2.104e-03
	Ka.C.22	0.0025	0.0032	2.073e-03
	Ka.C.23	0.0036	0.0047	2.997e-03
	Ka.C.24	0.0036	0.0047	2.997e-03
	Ka.C.25	0.0036	0.0047	2.997e-03
	Ka.C.26	0.0036	0.0047	2.997e-03
	Ka.C.27	0.0058	0.0076	4.873e-03
K41	Ka.C.(w1)	0.0036	0.0009	1.634e-03
	Ka.C.1	0.0036	0.0009	1.634e-03
	Ka.C.2	0.0036	0.0009	1.634e-03
	Ka.C.3	0.0036	0.0009	1.634e-03
	Ka.C.4	0.0036	0.0009	1.634e-03
	Ka.C.5	0.0027	0.0006	1.650e-03
	Ka.C.6	0.0036	0.0009	1.634e-03
	Ka.C.7	0.0036	0.0009	1.634e-03
	Ka.C.8	0.0036	0.0009	1.634e-03
	Ka.C.9	0.0027	0.0006	1.172e-03
	Ka.C.10	0.0036	0.0009	1.634e-03
	Ka.C.11	0.0036	0.0009	1.634e-03
	Ka.C.12	0.0036	0.0009	1.634e-03
	Ka.C.13	0.0036	0.0009	1.634e-03
	Ka.C.14	0.0036	0.0009	1.634e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K41	Ka.C.15	0.0036	0.0009	1.634e-03
	Ka.C.16	0.0036	0.0009	1.634e-03
	Ka.C.17	0.0036	0.0009	1.634e-03
	Ka.C.18	0.0036	0.0009	1.634e-03
	Ka.C.19	0.0036	0.0009	1.634e-03
	Ka.C.20	0.0036	0.0009	1.634e-03
	Ka.C.21	0.0026	0.0006	1.952e-03
	Ka.C.22	0.0025	0.0006	1.475e-03
	Ka.C.23	0.0036	0.0009	1.634e-03
	Ka.C.24	0.0036	0.0009	1.634e-03
	Ka.C.25	0.0036	0.0009	1.634e-03
K42	Ka.C.26	0.0036	0.0009	1.634e-03
	Ka.C.27	0.0058	0.0014	2.679e-03
	Ka.C.(w1)	0.0032	0.0011	-2.306e-03
	Ka.C.1	0.0032	0.0011	-2.306e-03
	Ka.C.2	0.0032	0.0011	-2.306e-03
	Ka.C.3	0.0032	0.0011	-2.306e-03
	Ka.C.4	0.0032	0.0011	-2.306e-03
	Ka.C.5	0.0033	0.0007	-1.809e-03
	Ka.C.6	0.0032	0.0011	-2.306e-03
	Ka.C.7	0.0032	0.0011	-2.306e-03
	Ka.C.8	0.0032	0.0011	-2.306e-03
	Ka.C.9	0.0034	0.0007	-1.960e-03
	Ka.C.10	0.0032	0.0011	-2.306e-03
	Ka.C.11	0.0032	0.0011	-2.306e-03
	Ka.C.12	0.0032	0.0011	-2.306e-03
	Ka.C.13	0.0032	0.0011	-2.306e-03
	Ka.C.14	0.0032	0.0011	-2.306e-03
	Ka.C.15	0.0032	0.0011	-2.306e-03
	Ka.C.16	0.0032	0.0011	-2.306e-03
	Ka.C.17	0.0032	0.0011	-2.306e-03
	Ka.C.18	0.0032	0.0011	-2.306e-03
	Ka.C.19	0.0032	0.0011	-2.306e-03
	Ka.C.20	0.0032	0.0011	-2.306e-03
	Ka.C.21	0.0020	0.0007	-1.309e-03
	Ka.C.22	0.0021	0.0007	-1.461e-03
	Ka.C.23	0.0032	0.0011	-2.306e-03
	Ka.C.24	0.0032	0.0011	-2.306e-03
	Ka.C.25	0.0032	0.0011	-2.306e-03
	Ka.C.26	0.0032	0.0011	-2.306e-03
	Ka.C.27	0.0054	0.0017	-3.744e-03
K43	Ka.C.(w1)	0.0031	0.0082	-2.810e-03
	Ka.C.1	0.0031	0.0082	-2.810e-03
	Ka.C.2	0.0031	0.0082	-2.810e-03
	Ka.C.3	0.0031	0.0082	-2.810e-03
	Ka.C.4	0.0031	0.0082	-2.810e-03
	Ka.C.5	0.0031	0.0057	-1.940e-03
	Ka.C.6	0.0031	0.0082	-2.810e-03
	Ka.C.7	0.0031	0.0082	-2.810e-03
	Ka.C.8	0.0031	0.0082	-2.810e-03
	Ka.C.9	0.0032	0.0056	-1.912e-03
	Ka.C.10	0.0031	0.0082	-2.810e-03
	Ka.C.11	0.0031	0.0082	-2.810e-03
	Ka.C.12	0.0031	0.0082	-2.810e-03
	Ka.C.13	0.0031	0.0082	-2.810e-03
	Ka.C.14	0.0031	0.0082	-2.810e-03
	Ka.C.15	0.0031	0.0082	-2.810e-03
	Ka.C.16	0.0031	0.0082	-2.810e-03
	Ka.C.17	0.0031	0.0082	-2.810e-03
	Ka.C.18	0.0031	0.0082	-2.810e-03
	Ka.C.19	0.0031	0.0082	-2.810e-03
	Ka.C.20	0.0031	0.0082	-2.810e-03
	Ka.C.21	0.0019	0.0058	-1.962e-03
	Ka.C.22	0.0020	0.0057	-1.935e-03
	Ka.C.23	0.0031	0.0082	-2.810e-03
	Ka.C.24	0.0031	0.0082	-2.810e-03
	Ka.C.25	0.0031	0.0082	-2.810e-03
	Ka.C.26	0.0031	0.0082	-2.810e-03
	Ka.C.27	0.0051	0.0134	-4.582e-03
K44	Ka.C.(w1)	0.0027	0.0144	-1.858e-03
	Ka.C.1	0.0027	0.0144	-1.858e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K44	Ka.C.2	0.0027	0.0144	-1.858e-03
	Ka.C.3	0.0027	0.0144	-1.858e-03
	Ka.C.4	0.0027	0.0144	-1.858e-03
	Ka.C.5	0.0028	0.0099	-1.281e-03
	Ka.C.6	0.0027	0.0144	-1.858e-03
	Ka.C.7	0.0027	0.0144	-1.858e-03
	Ka.C.8	0.0027	0.0144	-1.858e-03
	Ka.C.9	0.0029	0.0098	-1.269e-03
	Ka.C.10	0.0027	0.0144	-1.858e-03
	Ka.C.11	0.0027	0.0144	-1.858e-03
	Ka.C.12	0.0027	0.0144	-1.858e-03
	Ka.C.13	0.0027	0.0144	-1.858e-03
	Ka.C.14	0.0027	0.0144	-1.858e-03
	Ka.C.15	0.0027	0.0144	-1.858e-03
	Ka.C.16	0.0027	0.0144	-1.858e-03
	Ka.C.17	0.0027	0.0144	-1.858e-03
	Ka.C.18	0.0027	0.0144	-1.858e-03
	Ka.C.19	0.0027	0.0144	-1.858e-03
	Ka.C.20	0.0027	0.0144	-1.858e-03
	Ka.C.21	0.0016	0.0100	-1.289e-03
	Ka.C.22	0.0017	0.0099	-1.278e-03
	Ka.C.23	0.0027	0.0144	-1.858e-03
	Ka.C.24	0.0027	0.0144	-1.858e-03
	Ka.C.25	0.0027	0.0144	-1.858e-03
	Ka.C.26	0.0027	0.0144	-1.858e-03
	Ka.C.27	0.0044	0.0235	-3.023e-03
K45	Ka.C.(w1)	0.0021	0.0174	-0.808e-03
	Ka.C.1	0.0021	0.0174	-0.808e-03
	Ka.C.2	0.0021	0.0174	-0.808e-03
	Ka.C.3	0.0021	0.0174	-0.808e-03
	Ka.C.4	0.0021	0.0174	-0.808e-03
	Ka.C.5	0.0024	0.0120	-0.553e-03
	Ka.C.6	0.0021	0.0174	-0.808e-03
	Ka.C.7	0.0021	0.0174	-0.808e-03
	Ka.C.8	0.0021	0.0174	-0.808e-03
	Ka.C.9	0.0025	0.0119	-0.552e-03
	Ka.C.10	0.0021	0.0174	-0.808e-03
	Ka.C.11	0.0021	0.0174	-0.808e-03
	Ka.C.12	0.0021	0.0174	-0.808e-03
	Ka.C.13	0.0021	0.0174	-0.808e-03
	Ka.C.14	0.0021	0.0174	-0.808e-03
	Ka.C.15	0.0021	0.0174	-0.808e-03
	Ka.C.16	0.0021	0.0174	-0.808e-03
	Ka.C.17	0.0021	0.0174	-0.808e-03
	Ka.C.18	0.0021	0.0174	-0.808e-03
	Ka.C.19	0.0021	0.0174	-0.808e-03
	Ka.C.20	0.0021	0.0174	-0.808e-03
	Ka.C.21	0.0013	0.0121	-0.551e-03
	Ka.C.22	0.0014	0.0120	-0.552e-03
	Ka.C.23	0.0021	0.0174	-0.808e-03
	Ka.C.24	0.0021	0.0174	-0.808e-03
	Ka.C.25	0.0021	0.0174	-0.808e-03
	Ka.C.26	0.0021	0.0174	-0.808e-03
	Ka.C.27	0.0035	0.0284	-1.315e-03
K46	Ka.C.(w1)	0.0016	0.0183	0.349e-03
	Ka.C.1	0.0016	0.0183	0.349e-03
	Ka.C.2	0.0016	0.0183	0.349e-03
	Ka.C.3	0.0016	0.0183	0.349e-03
	Ka.C.4	0.0016	0.0183	0.349e-03
	Ka.C.5	0.0019	0.0126	0.243e-03
	Ka.C.6	0.0016	0.0183	0.349e-03
	Ka.C.7	0.0016	0.0183	0.349e-03
	Ka.C.8	0.0016	0.0183	0.349e-03
	Ka.C.9	0.0021	0.0125	0.237e-03
	Ka.C.10	0.0016	0.0183	0.349e-03
	Ka.C.11	0.0016	0.0183	0.349e-03
	Ka.C.12	0.0016	0.0183	0.349e-03
	Ka.C.13	0.0016	0.0183	0.349e-03
	Ka.C.14	0.0016	0.0183	0.349e-03
	Ka.C.15	0.0016	0.0183	0.349e-03
	Ka.C.16	0.0016	0.0183	0.349e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K46	Ka.C.17	0.0016	0.0183	0.349e-03
	Ka.C.18	0.0016	0.0183	0.349e-03
	Ka.C.19	0.0016	0.0183	0.349e-03
	Ka.C.20	0.0016	0.0183	0.349e-03
	Ka.C.21	0.0009	0.0127	0.250e-03
	Ka.C.22	0.0010	0.0126	0.243e-03
	Ka.C.23	0.0016	0.0183	0.349e-03
	Ka.C.24	0.0016	0.0183	0.349e-03
	Ka.C.25	0.0016	0.0183	0.349e-03
	Ka.C.26	0.0016	0.0183	0.349e-03
K47	Ka.C.27	0.0026	0.0299	0.570e-03
	Ka.C.(w1)	0.0011	0.0157	1.430e-03
	Ka.C.1	0.0011	0.0157	1.430e-03
	Ka.C.2	0.0011	0.0157	1.430e-03
	Ka.C.3	0.0011	0.0157	1.430e-03
	Ka.C.4	0.0011	0.0157	1.430e-03
	Ka.C.5	0.0016	0.0109	0.985e-03
	Ka.C.6	0.0011	0.0157	1.430e-03
	Ka.C.7	0.0011	0.0157	1.430e-03
	Ka.C.8	0.0011	0.0157	1.430e-03
	Ka.C.9	0.0017	0.0107	0.973e-03
	Ka.C.10	0.0011	0.0157	1.430e-03
	Ka.C.11	0.0011	0.0157	1.430e-03
	Ka.C.12	0.0011	0.0157	1.430e-03
	Ka.C.13	0.0011	0.0157	1.430e-03
	Ka.C.14	0.0011	0.0157	1.430e-03
	Ka.C.15	0.0011	0.0157	1.430e-03
	Ka.C.16	0.0011	0.0157	1.430e-03
	Ka.C.17	0.0011	0.0157	1.430e-03
	Ka.C.18	0.0011	0.0157	1.430e-03
	Ka.C.19	0.0011	0.0157	1.430e-03
	Ka.C.20	0.0011	0.0157	1.430e-03
	Ka.C.21	0.0005	0.0109	0.995e-03
	Ka.C.22	0.0006	0.0108	0.982e-03
	Ka.C.23	0.0011	0.0157	1.430e-03
	Ka.C.24	0.0011	0.0157	1.430e-03
	Ka.C.25	0.0011	0.0157	1.430e-03
	Ka.C.26	0.0011	0.0157	1.430e-03
	Ka.C.27	0.0018	0.0256	2.335e-03
K48	Ka.C.(w1)	0.0008	0.0117	1.925e-03
	Ka.C.1	0.0008	0.0117	1.925e-03
	Ka.C.2	0.0008	0.0117	1.925e-03
	Ka.C.3	0.0008	0.0117	1.925e-03
	Ka.C.4	0.0008	0.0117	1.925e-03
	Ka.C.5	0.0013	0.0080	1.328e-03
	Ka.C.6	0.0008	0.0117	1.925e-03
	Ka.C.7	0.0008	0.0117	1.925e-03
	Ka.C.8	0.0008	0.0117	1.925e-03
	Ka.C.9	0.0014	0.0080	1.313e-03
	Ka.C.10	0.0008	0.0117	1.925e-03
	Ka.C.11	0.0008	0.0117	1.925e-03
	Ka.C.12	0.0008	0.0117	1.925e-03
	Ka.C.13	0.0008	0.0117	1.925e-03
	Ka.C.14	0.0008	0.0117	1.925e-03
	Ka.C.15	0.0008	0.0117	1.925e-03
	Ka.C.16	0.0008	0.0117	1.925e-03
	Ka.C.17	0.0008	0.0117	1.925e-03
	Ka.C.18	0.0008	0.0117	1.925e-03
	Ka.C.19	0.0008	0.0117	1.925e-03
	Ka.C.20	0.0008	0.0117	1.925e-03
	Ka.C.21	0.0003	0.0081	1.339e-03
	Ka.C.22	0.0004	0.0080	1.324e-03
	Ka.C.23	0.0008	0.0117	1.925e-03
	Ka.C.24	0.0008	0.0117	1.925e-03
	Ka.C.25	0.0008	0.0117	1.925e-03
	Ka.C.26	0.0008	0.0117	1.925e-03
	Ka.C.27	0.0013	0.0190	3.136e-03
K49	Ka.C.(w1)	0.0008	0.0065	1.998e-03
	Ka.C.1	0.0008	0.0065	1.998e-03
	Ka.C.2	0.0008	0.0065	1.998e-03
	Ka.C.3	0.0008	0.0065	1.998e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K49	Ka.C.4	0.0008	0.0065	1.998e-03
	Ka.C.5	0.0013	0.0045	1.375e-03
	Ka.C.6	0.0008	0.0065	1.998e-03
	Ka.C.7	0.0008	0.0065	1.998e-03
	Ka.C.8	0.0008	0.0065	1.998e-03
	Ka.C.9	0.0014	0.0044	1.361e-03
	Ka.C.10	0.0008	0.0065	1.998e-03
	Ka.C.11	0.0008	0.0065	1.998e-03
	Ka.C.12	0.0008	0.0065	1.998e-03
	Ka.C.13	0.0008	0.0065	1.998e-03
	Ka.C.14	0.0008	0.0065	1.998e-03
	Ka.C.15	0.0008	0.0065	1.998e-03
	Ka.C.16	0.0008	0.0065	1.998e-03
	Ka.C.17	0.0008	0.0065	1.998e-03
	Ka.C.18	0.0008	0.0065	1.998e-03
	Ka.C.19	0.0008	0.0065	1.998e-03
	Ka.C.20	0.0008	0.0065	1.998e-03
	Ka.C.21	0.0004	0.0045	1.385e-03
	Ka.C.22	0.0005	0.0045	1.371e-03
	Ka.C.23	0.0008	0.0065	1.998e-03
	Ka.C.24	0.0008	0.0065	1.998e-03
	Ka.C.25	0.0008	0.0065	1.998e-03
	Ka.C.26	0.0008	0.0065	1.998e-03
	Ka.C.27	0.0013	0.0105	3.260e-03
K50	Ka.C.(w1)	0.0013	0.0020	0.573e-03
	Ka.C.1	0.0013	0.0020	0.573e-03
	Ka.C.2	0.0013	0.0020	0.573e-03
	Ka.C.3	0.0013	0.0020	0.573e-03
	Ka.C.4	0.0013	0.0020	0.573e-03
	Ka.C.5	0.0016	0.0014	0.413e-03
	Ka.C.6	0.0013	0.0020	0.573e-03
	Ka.C.7	0.0013	0.0020	0.573e-03
	Ka.C.8	0.0013	0.0020	0.573e-03
	Ka.C.9	0.0017	0.0014	0.403e-03
	Ka.C.10	0.0013	0.0020	0.573e-03
	Ka.C.11	0.0013	0.0020	0.573e-03
	Ka.C.12	0.0013	0.0020	0.573e-03
	Ka.C.13	0.0013	0.0020	0.573e-03
	Ka.C.14	0.0013	0.0020	0.573e-03
	Ka.C.15	0.0013	0.0020	0.573e-03
	Ka.C.16	0.0013	0.0020	0.573e-03
	Ka.C.17	0.0013	0.0020	0.573e-03
	Ka.C.18	0.0013	0.0020	0.573e-03
	Ka.C.19	0.0013	0.0020	0.573e-03
	Ka.C.20	0.0013	0.0020	0.573e-03
	Ka.C.21	0.0007	0.0014	0.409e-03
	Ka.C.22	0.0008	0.0014	0.399e-03
	Ka.C.23	0.0013	0.0020	0.573e-03
	Ka.C.24	0.0013	0.0020	0.573e-03
	Ka.C.25	0.0013	0.0020	0.573e-03
	Ka.C.26	0.0013	0.0020	0.573e-03
	Ka.C.27	0.0021	0.0032	0.932e-03
K51	Ka.C.(w1)	0.0018	0.0036	-0.863e-03
	Ka.C.1	0.0018	0.0036	-0.863e-03
	Ka.C.2	0.0018	0.0036	-0.863e-03
	Ka.C.3	0.0018	0.0036	-0.863e-03
	Ka.C.4	0.0018	0.0036	-0.863e-03
	Ka.C.5	0.0019	0.0024	-0.574e-03
	Ka.C.6	0.0018	0.0036	-0.863e-03
	Ka.C.7	0.0018	0.0036	-0.863e-03
	Ka.C.8	0.0018	0.0036	-0.863e-03
	Ka.C.9	0.0020	0.0024	-0.581e-03
	Ka.C.10	0.0018	0.0036	-0.863e-03
	Ka.C.11	0.0018	0.0036	-0.863e-03
	Ka.C.12	0.0018	0.0036	-0.863e-03
	Ka.C.13	0.0018	0.0036	-0.863e-03
	Ka.C.14	0.0018	0.0036	-0.863e-03
	Ka.C.15	0.0018	0.0036	-0.863e-03
	Ka.C.16	0.0018	0.0036	-0.863e-03
	Ka.C.17	0.0018	0.0036	-0.863e-03
	Ka.C.18	0.0018	0.0036	-0.863e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K51	Ka.C.19	0.0018	0.0036	-0.863e-03
	Ka.C.20	0.0018	0.0036	-0.863e-03
	Ka.C.21	0.0010	0.0024	-0.572e-03
	Ka.C.22	0.0011	0.0024	-0.580e-03
	Ka.C.23	0.0018	0.0036	-0.863e-03
	Ka.C.24	0.0018	0.0036	-0.863e-03
	Ka.C.25	0.0018	0.0036	-0.863e-03
	Ka.C.26	0.0018	0.0036	-0.863e-03
K52	Ka.C.27	0.0029	0.0058	-1.410e-03
	Ka.C.(w1)	0.0019	0.0061	-0.983e-03
	Ka.C.1	0.0019	0.0061	-0.983e-03
	Ka.C.2	0.0019	0.0061	-0.983e-03
	Ka.C.3	0.0019	0.0061	-0.983e-03
	Ka.C.4	0.0019	0.0061	-0.983e-03
	Ka.C.5	0.0019	0.0041	-0.660e-03
	Ka.C.6	0.0019	0.0061	-0.983e-03
	Ka.C.7	0.0019	0.0061	-0.983e-03
	Ka.C.8	0.0019	0.0061	-0.983e-03
	Ka.C.9	0.0020	0.0042	-0.665e-03
	Ka.C.10	0.0019	0.0061	-0.983e-03
	Ka.C.11	0.0019	0.0061	-0.983e-03
	Ka.C.12	0.0019	0.0061	-0.983e-03
	Ka.C.13	0.0019	0.0061	-0.983e-03
	Ka.C.14	0.0019	0.0061	-0.983e-03
	Ka.C.15	0.0019	0.0061	-0.983e-03
	Ka.C.16	0.0019	0.0061	-0.983e-03
	Ka.C.17	0.0019	0.0061	-0.983e-03
	Ka.C.18	0.0019	0.0061	-0.983e-03
	Ka.C.19	0.0019	0.0061	-0.983e-03
	Ka.C.20	0.0019	0.0061	-0.983e-03
	Ka.C.21	0.0012	0.0041	-0.663e-03
	Ka.C.22	0.0012	0.0042	-0.668e-03
	Ka.C.23	0.0019	0.0061	-0.983e-03
	Ka.C.24	0.0019	0.0061	-0.983e-03
	Ka.C.25	0.0019	0.0061	-0.983e-03
	Ka.C.26	0.0019	0.0061	-0.983e-03
	Ka.C.27	0.0031	0.0100	-1.598e-03
K53	Ka.C.(w1)	0.0018	0.0082	-0.812e-03
	Ka.C.1	0.0018	0.0082	-0.812e-03
	Ka.C.2	0.0018	0.0082	-0.812e-03
	Ka.C.3	0.0018	0.0082	-0.812e-03
	Ka.C.4	0.0018	0.0082	-0.812e-03
	Ka.C.5	0.0019	0.0055	-0.544e-03
	Ka.C.6	0.0018	0.0082	-0.812e-03
	Ka.C.7	0.0018	0.0082	-0.812e-03
	Ka.C.8	0.0018	0.0082	-0.812e-03
	Ka.C.9	0.0019	0.0056	-0.546e-03
	Ka.C.10	0.0018	0.0082	-0.812e-03
	Ka.C.11	0.0018	0.0082	-0.812e-03
	Ka.C.12	0.0018	0.0082	-0.812e-03
	Ka.C.13	0.0018	0.0082	-0.812e-03
	Ka.C.14	0.0018	0.0082	-0.812e-03
	Ka.C.15	0.0018	0.0082	-0.812e-03
	Ka.C.16	0.0018	0.0082	-0.812e-03
	Ka.C.17	0.0018	0.0082	-0.812e-03
	Ka.C.18	0.0018	0.0082	-0.812e-03
	Ka.C.19	0.0018	0.0082	-0.812e-03
	Ka.C.20	0.0018	0.0082	-0.812e-03
	Ka.C.21	0.0011	0.0055	-0.548e-03
	Ka.C.22	0.0012	0.0056	-0.551e-03
	Ka.C.23	0.0018	0.0082	-0.812e-03
	Ka.C.24	0.0018	0.0082	-0.812e-03
	Ka.C.25	0.0018	0.0082	-0.812e-03
	Ka.C.26	0.0018	0.0082	-0.812e-03
	Ka.C.27	0.0030	0.0134	-1.326e-03
K54	Ka.C.(w1)	0.0016	0.0097	0.001e-03
	Ka.C.1	0.0016	0.0097	0.001e-03
	Ka.C.2	0.0016	0.0097	0.001e-03
	Ka.C.3	0.0016	0.0097	0.001e-03
	Ka.C.4	0.0016	0.0097	0.001e-03
	Ka.C.5	0.0017	0.0065	0.004e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K54	Ka.C.6	0.0016	0.0097	0.001e-03
	Ka.C.7	0.0016	0.0097	0.001e-03
	Ka.C.8	0.0016	0.0097	0.001e-03
	Ka.C.9	0.0017	0.0065	0.004e-03
	Ka.C.10	0.0016	0.0097	0.001e-03
	Ka.C.11	0.0016	0.0097	0.001e-03
	Ka.C.12	0.0016	0.0097	0.001e-03
	Ka.C.13	0.0016	0.0097	0.001e-03
	Ka.C.14	0.0016	0.0097	0.001e-03
	Ka.C.15	0.0016	0.0097	0.001e-03
	Ka.C.16	0.0016	0.0097	0.001e-03
	Ka.C.17	0.0016	0.0097	0.001e-03
	Ka.C.18	0.0016	0.0097	0.001e-03
	Ka.C.19	0.0016	0.0097	0.001e-03
	Ka.C.20	0.0016	0.0097	0.001e-03
	Ka.C.21	0.0010	0.0065	0.001e-03
	Ka.C.22	0.0011	0.0065	0.001e-03
	Ka.C.23	0.0016	0.0097	0.001e-03
	Ka.C.24	0.0016	0.0097	0.001e-03
	Ka.C.25	0.0016	0.0097	0.001e-03
	Ka.C.26	0.0016	0.0097	0.001e-03
	Ka.C.27	0.0027	0.0157	0.002e-03
K55	Ka.C.(w1)	0.0014	0.0082	0.814e-03
	Ka.C.1	0.0014	0.0082	0.814e-03
	Ka.C.2	0.0014	0.0082	0.814e-03
	Ka.C.3	0.0014	0.0082	0.814e-03
	Ka.C.4	0.0014	0.0082	0.814e-03
	Ka.C.5	0.0015	0.0055	0.552e-03
	Ka.C.6	0.0014	0.0082	0.814e-03
	Ka.C.7	0.0014	0.0082	0.814e-03
	Ka.C.8	0.0014	0.0082	0.814e-03
	Ka.C.9	0.0016	0.0056	0.554e-03
	Ka.C.10	0.0014	0.0082	0.814e-03
	Ka.C.11	0.0014	0.0082	0.814e-03
	Ka.C.12	0.0014	0.0082	0.814e-03
	Ka.C.13	0.0014	0.0082	0.814e-03
	Ka.C.14	0.0014	0.0082	0.814e-03
	Ka.C.15	0.0014	0.0082	0.814e-03
	Ka.C.16	0.0014	0.0082	0.814e-03
	Ka.C.17	0.0014	0.0082	0.814e-03
	Ka.C.18	0.0014	0.0082	0.814e-03
	Ka.C.19	0.0014	0.0082	0.814e-03
	Ka.C.20	0.0014	0.0082	0.814e-03
	Ka.C.21	0.0009	0.0055	0.549e-03
	Ka.C.22	0.0009	0.0056	0.552e-03
	Ka.C.23	0.0014	0.0082	0.814e-03
	Ka.C.24	0.0014	0.0082	0.814e-03
	Ka.C.25	0.0014	0.0082	0.814e-03
	Ka.C.26	0.0014	0.0082	0.814e-03
	Ka.C.27	0.0023	0.0134	1.329e-03
K56	Ka.C.(w1)	0.0013	0.0061	0.983e-03
	Ka.C.1	0.0013	0.0061	0.983e-03
	Ka.C.2	0.0013	0.0061	0.983e-03
	Ka.C.3	0.0013	0.0061	0.983e-03
	Ka.C.4	0.0013	0.0061	0.983e-03
	Ka.C.5	0.0014	0.0041	0.661e-03
	Ka.C.6	0.0013	0.0061	0.983e-03
	Ka.C.7	0.0013	0.0061	0.983e-03
	Ka.C.8	0.0013	0.0061	0.983e-03
	Ka.C.9	0.0015	0.0041	0.666e-03
	Ka.C.10	0.0013	0.0061	0.983e-03
	Ka.C.11	0.0013	0.0061	0.983e-03
	Ka.C.12	0.0013	0.0061	0.983e-03
	Ka.C.13	0.0013	0.0061	0.983e-03
	Ka.C.14	0.0013	0.0061	0.983e-03
	Ka.C.15	0.0013	0.0061	0.983e-03
	Ka.C.16	0.0013	0.0061	0.983e-03
	Ka.C.17	0.0013	0.0061	0.983e-03
	Ka.C.18	0.0013	0.0061	0.983e-03
	Ka.C.19	0.0013	0.0061	0.983e-03
	Ka.C.20	0.0013	0.0061	0.983e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K56	Ka.C.21	0.0008	0.0041	0.663e-03
	Ka.C.22	0.0009	0.0042	0.668e-03
	Ka.C.23	0.0013	0.0061	0.983e-03
	Ka.C.24	0.0013	0.0061	0.983e-03
	Ka.C.25	0.0013	0.0061	0.983e-03
	Ka.C.26	0.0013	0.0061	0.983e-03
	Ka.C.27	0.0022	0.0100	1.599e-03
K57	Ka.C.(w1)	0.0015	0.0036	0.861e-03
	Ka.C.1	0.0015	0.0036	0.861e-03
	Ka.C.2	0.0015	0.0036	0.861e-03
	Ka.C.3	0.0015	0.0036	0.861e-03
	Ka.C.4	0.0015	0.0036	0.861e-03
	Ka.C.5	0.0015	0.0024	0.563e-03
	Ka.C.6	0.0015	0.0036	0.861e-03
	Ka.C.7	0.0015	0.0036	0.861e-03
	Ka.C.8	0.0015	0.0036	0.861e-03
	Ka.C.9	0.0015	0.0024	0.570e-03
	Ka.C.10	0.0015	0.0036	0.861e-03
	Ka.C.11	0.0015	0.0036	0.861e-03
	Ka.C.12	0.0015	0.0036	0.861e-03
	Ka.C.13	0.0015	0.0036	0.861e-03
	Ka.C.14	0.0015	0.0036	0.861e-03
	Ka.C.15	0.0015	0.0036	0.861e-03
	Ka.C.16	0.0015	0.0036	0.861e-03
	Ka.C.17	0.0015	0.0036	0.861e-03
	Ka.C.18	0.0015	0.0036	0.861e-03
	Ka.C.19	0.0015	0.0036	0.861e-03
	Ka.C.20	0.0015	0.0036	0.861e-03
	Ka.C.21	0.0010	0.0024	0.571e-03
	Ka.C.22	0.0010	0.0024	0.579e-03
	Ka.C.23	0.0015	0.0036	0.861e-03
	Ka.C.24	0.0015	0.0036	0.861e-03
	Ka.C.25	0.0015	0.0036	0.861e-03
	Ka.C.26	0.0015	0.0036	0.861e-03
	Ka.C.27	0.0024	0.0058	1.407e-03
K58	Ka.C.(w1)	0.0020	0.0020	-0.538e-03
	Ka.C.1	0.0020	0.0020	-0.538e-03
	Ka.C.2	0.0020	0.0020	-0.538e-03
	Ka.C.3	0.0020	0.0020	-0.538e-03
	Ka.C.4	0.0020	0.0020	-0.538e-03
	Ka.C.5	0.0018	0.0014	-0.398e-03
	Ka.C.6	0.0020	0.0020	-0.538e-03
	Ka.C.7	0.0020	0.0020	-0.538e-03
	Ka.C.8	0.0020	0.0020	-0.538e-03
	Ka.C.9	0.0018	0.0014	-0.387e-03
	Ka.C.10	0.0020	0.0020	-0.538e-03
	Ka.C.11	0.0020	0.0020	-0.538e-03
	Ka.C.12	0.0020	0.0020	-0.538e-03
	Ka.C.13	0.0020	0.0020	-0.538e-03
	Ka.C.14	0.0020	0.0020	-0.538e-03
	Ka.C.15	0.0020	0.0020	-0.538e-03
	Ka.C.16	0.0020	0.0020	-0.538e-03
	Ka.C.17	0.0020	0.0020	-0.538e-03
	Ka.C.18	0.0020	0.0020	-0.538e-03
	Ka.C.19	0.0020	0.0020	-0.538e-03
	Ka.C.20	0.0020	0.0020	-0.538e-03
	Ka.C.21	0.0013	0.0014	-0.387e-03
	Ka.C.22	0.0013	0.0014	-0.376e-03
	Ka.C.23	0.0020	0.0020	-0.538e-03
	Ka.C.24	0.0020	0.0020	-0.538e-03
	Ka.C.25	0.0020	0.0020	-0.538e-03
	Ka.C.26	0.0020	0.0020	-0.538e-03
	Ka.C.27	0.0033	0.0032	-0.876e-03
K59	Ka.C.(w1)	0.0025	0.0065	-2.000e-03
	Ka.C.1	0.0025	0.0065	-2.000e-03
	Ka.C.2	0.0025	0.0065	-2.000e-03
	Ka.C.3	0.0025	0.0065	-2.000e-03
	Ka.C.4	0.0025	0.0065	-2.000e-03
	Ka.C.5	0.0021	0.0046	-1.413e-03
	Ka.C.6	0.0025	0.0065	-2.000e-03
	Ka.C.7	0.0025	0.0065	-2.000e-03

Moederspant as ZZ	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K59	Ka.C.8	0.0025	0.0065	-2.000e-03
	Ka.C.9	0.0021	0.0045	-1.398e-03
	Ka.C.10	0.0025	0.0065	-2.000e-03
	Ka.C.11	0.0025	0.0065	-2.000e-03
	Ka.C.12	0.0025	0.0065	-2.000e-03
	Ka.C.13	0.0025	0.0065	-2.000e-03
	Ka.C.14	0.0025	0.0065	-2.000e-03
	Ka.C.15	0.0025	0.0065	-2.000e-03
	Ka.C.16	0.0025	0.0065	-2.000e-03
	Ka.C.17	0.0025	0.0065	-2.000e-03
	Ka.C.18	0.0025	0.0065	-2.000e-03
	Ka.C.19	0.0025	0.0065	-2.000e-03
	Ka.C.20	0.0025	0.0065	-2.000e-03
	Ka.C.21	0.0017	0.0045	-1.387e-03
	Ka.C.22	0.0017	0.0045	-1.372e-03
	Ka.C.23	0.0025	0.0065	-2.000e-03
	Ka.C.24	0.0025	0.0065	-2.000e-03
	Ka.C.25	0.0025	0.0065	-2.000e-03
	Ka.C.26	0.0025	0.0065	-2.000e-03
	Ka.C.27	0.0040	0.0105	-3.263e-03
K60	Ka.C.(w1)	0.0025	0.0117	-1.925e-03
	Ka.C.1	0.0025	0.0117	-1.925e-03
	Ka.C.2	0.0025	0.0117	-1.925e-03
	Ka.C.3	0.0025	0.0117	-1.925e-03
	Ka.C.4	0.0025	0.0117	-1.925e-03
	Ka.C.5	0.0021	0.0082	-1.367e-03
	Ka.C.6	0.0025	0.0117	-1.925e-03
	Ka.C.7	0.0025	0.0117	-1.925e-03
	Ka.C.8	0.0025	0.0117	-1.925e-03
	Ka.C.9	0.0021	0.0082	-1.352e-03
	Ka.C.10	0.0025	0.0117	-1.925e-03
	Ka.C.11	0.0025	0.0117	-1.925e-03
	Ka.C.12	0.0025	0.0117	-1.925e-03
	Ka.C.13	0.0025	0.0117	-1.925e-03
	Ka.C.14	0.0025	0.0117	-1.925e-03
	Ka.C.15	0.0025	0.0117	-1.925e-03
	Ka.C.16	0.0025	0.0117	-1.925e-03
	Ka.C.17	0.0025	0.0117	-1.925e-03
	Ka.C.18	0.0025	0.0117	-1.925e-03
	Ka.C.19	0.0025	0.0117	-1.925e-03
	Ka.C.20	0.0025	0.0117	-1.925e-03
	Ka.C.21	0.0017	0.0081	-1.339e-03
	Ka.C.22	0.0017	0.0080	-1.324e-03
	Ka.C.23	0.0025	0.0117	-1.925e-03
	Ka.C.24	0.0025	0.0117	-1.925e-03
	Ka.C.25	0.0025	0.0117	-1.925e-03
	Ka.C.26	0.0025	0.0117	-1.925e-03
	Ka.C.27	0.0041	0.0190	-3.136e-03
K61	Ka.C.(w1)	0.0022	0.0158	-1.429e-03
	Ka.C.1	0.0022	0.0158	-1.429e-03
	Ka.C.2	0.0022	0.0158	-1.429e-03
	Ka.C.3	0.0022	0.0158	-1.429e-03
	Ka.C.4	0.0022	0.0158	-1.429e-03
	Ka.C.5	0.0018	0.0111	-1.016e-03
	Ka.C.6	0.0022	0.0158	-1.429e-03
	Ka.C.7	0.0022	0.0158	-1.429e-03
	Ka.C.8	0.0022	0.0158	-1.429e-03
	Ka.C.9	0.0018	0.0110	-1.005e-03
	Ka.C.10	0.0022	0.0158	-1.429e-03
	Ka.C.11	0.0022	0.0158	-1.429e-03
	Ka.C.12	0.0022	0.0158	-1.429e-03
	Ka.C.13	0.0022	0.0158	-1.429e-03
	Ka.C.14	0.0022	0.0158	-1.429e-03
	Ka.C.15	0.0022	0.0158	-1.429e-03
	Ka.C.16	0.0022	0.0158	-1.429e-03
	Ka.C.17	0.0022	0.0158	-1.429e-03
	Ka.C.18	0.0022	0.0158	-1.429e-03
	Ka.C.19	0.0022	0.0158	-1.429e-03
	Ka.C.20	0.0022	0.0158	-1.429e-03
	Ka.C.21	0.0015	0.0109	-0.994e-03
	Ka.C.22	0.0015	0.0108	-0.982e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K61	Ka.C.23	0.0022	0.0158	-1.429e-03
	Ka.C.24	0.0022	0.0158	-1.429e-03
	Ka.C.25	0.0022	0.0158	-1.429e-03
	Ka.C.26	0.0022	0.0158	-1.429e-03
	Ka.C.27	0.0036	0.0256	-2.334e-03
K62	Ka.C.(w1)	0.0017	0.0183	-0.348e-03
	Ka.C.1	0.0017	0.0183	-0.348e-03
	Ka.C.2	0.0017	0.0183	-0.348e-03
	Ka.C.3	0.0017	0.0183	-0.348e-03
	Ka.C.4	0.0017	0.0183	-0.348e-03
	Ka.C.5	0.0014	0.0130	-0.262e-03
	Ka.C.6	0.0017	0.0183	-0.348e-03
	Ka.C.7	0.0017	0.0183	-0.348e-03
	Ka.C.8	0.0017	0.0183	-0.348e-03
	Ka.C.9	0.0014	0.0129	-0.255e-03
	Ka.C.10	0.0017	0.0183	-0.348e-03
	Ka.C.11	0.0017	0.0183	-0.348e-03
	Ka.C.12	0.0017	0.0183	-0.348e-03
	Ka.C.13	0.0017	0.0183	-0.348e-03
	Ka.C.14	0.0017	0.0183	-0.348e-03
	Ka.C.15	0.0017	0.0183	-0.348e-03
	Ka.C.16	0.0017	0.0183	-0.348e-03
	Ka.C.17	0.0017	0.0183	-0.348e-03
	Ka.C.18	0.0017	0.0183	-0.348e-03
	Ka.C.19	0.0017	0.0183	-0.348e-03
	Ka.C.20	0.0017	0.0183	-0.348e-03
	Ka.C.21	0.0012	0.0127	-0.249e-03
	Ka.C.22	0.0012	0.0126	-0.242e-03
	Ka.C.23	0.0017	0.0183	-0.348e-03
	Ka.C.24	0.0017	0.0183	-0.348e-03
	Ka.C.25	0.0017	0.0183	-0.348e-03
	Ka.C.26	0.0017	0.0183	-0.348e-03
	Ka.C.27	0.0028	0.0299	-0.568e-03
K63	Ka.C.(w1)	0.0011	0.0174	0.810e-03
	Ka.C.1	0.0011	0.0174	0.810e-03
	Ka.C.2	0.0011	0.0174	0.810e-03
	Ka.C.3	0.0011	0.0174	0.810e-03
	Ka.C.4	0.0011	0.0174	0.810e-03
	Ka.C.5	0.0010	0.0124	0.553e-03
	Ka.C.6	0.0011	0.0174	0.810e-03
	Ka.C.7	0.0011	0.0174	0.810e-03
	Ka.C.8	0.0011	0.0174	0.810e-03
	Ka.C.9	0.0010	0.0123	0.553e-03
	Ka.C.10	0.0011	0.0174	0.810e-03
	Ka.C.11	0.0011	0.0174	0.810e-03
	Ka.C.12	0.0011	0.0174	0.810e-03
	Ka.C.13	0.0011	0.0174	0.810e-03
	Ka.C.14	0.0011	0.0174	0.810e-03
	Ka.C.15	0.0011	0.0174	0.810e-03
	Ka.C.16	0.0011	0.0174	0.810e-03
	Ka.C.17	0.0011	0.0174	0.810e-03
	Ka.C.18	0.0011	0.0174	0.810e-03
	Ka.C.19	0.0011	0.0174	0.810e-03
	Ka.C.20	0.0011	0.0174	0.810e-03
	Ka.C.21	0.0008	0.0121	0.552e-03
	Ka.C.22	0.0008	0.0120	0.553e-03
	Ka.C.23	0.0011	0.0174	0.810e-03
	Ka.C.24	0.0011	0.0174	0.810e-03
	Ka.C.25	0.0011	0.0174	0.810e-03
	Ka.C.26	0.0011	0.0174	0.810e-03
	Ka.C.27	0.0018	0.0284	1.317e-03
K64	Ka.C.(w1)	0.0005	0.0144	1.859e-03
	Ka.C.1	0.0005	0.0144	1.859e-03
	Ka.C.2	0.0005	0.0144	1.859e-03
	Ka.C.3	0.0005	0.0144	1.859e-03
	Ka.C.4	0.0005	0.0144	1.859e-03
	Ka.C.5	0.0005	0.0103	1.313e-03
	Ka.C.6	0.0005	0.0144	1.859e-03
	Ka.C.7	0.0005	0.0144	1.859e-03
	Ka.C.8	0.0005	0.0144	1.859e-03
	Ka.C.9	0.0005	0.0101	1.302e-03

Moederspant as ZZ	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K64	Ka.C.10	0.0005	0.0144	1.859e-03
	Ka.C.11	0.0005	0.0144	1.859e-03
	Ka.C.12	0.0005	0.0144	1.859e-03
	Ka.C.13	0.0005	0.0144	1.859e-03
	Ka.C.14	0.0005	0.0144	1.859e-03
	Ka.C.15	0.0005	0.0144	1.859e-03
	Ka.C.16	0.0005	0.0144	1.859e-03
	Ka.C.17	0.0005	0.0144	1.859e-03
	Ka.C.18	0.0005	0.0144	1.859e-03
	Ka.C.19	0.0005	0.0144	1.859e-03
	Ka.C.20	0.0005	0.0144	1.859e-03
	Ka.C.21	0.0004	0.0100	1.290e-03
	Ka.C.22	0.0004	0.0099	1.278e-03
	Ka.C.23	0.0005	0.0144	1.859e-03
	Ka.C.24	0.0005	0.0144	1.859e-03
	Ka.C.25	0.0005	0.0144	1.859e-03
	Ka.C.26	0.0005	0.0144	1.859e-03
	Ka.C.27	0.0009	0.0235	3.024e-03
K65	Ka.C.(w1)	0.0001	0.0082	2.808e-03
	Ka.C.1	0.0001	0.0082	2.808e-03
	Ka.C.2	0.0001	0.0082	2.808e-03
	Ka.C.3	0.0001	0.0082	2.808e-03
	Ka.C.4	0.0001	0.0082	2.808e-03
	Ka.C.5	0.0002	0.0059	2.014e-03
	Ka.C.6	0.0001	0.0082	2.808e-03
	Ka.C.7	0.0001	0.0082	2.808e-03
	Ka.C.8	0.0001	0.0082	2.808e-03
	Ka.C.9	0.0002	0.0058	1.987e-03
	Ka.C.10	0.0001	0.0082	2.808e-03
	Ka.C.11	0.0001	0.0082	2.808e-03
	Ka.C.12	0.0001	0.0082	2.808e-03
	Ka.C.13	0.0001	0.0082	2.808e-03
	Ka.C.14	0.0001	0.0082	2.808e-03
	Ka.C.15	0.0001	0.0082	2.808e-03
	Ka.C.16	0.0001	0.0082	2.808e-03
	Ka.C.17	0.0001	0.0082	2.808e-03
	Ka.C.18	0.0001	0.0082	2.808e-03
	Ka.C.19	0.0001	0.0082	2.808e-03
	Ka.C.20	0.0001	0.0082	2.808e-03
	Ka.C.21	0.0001	0.0058	1.961e-03
	Ka.C.22	0.0001	0.0057	1.934e-03
	Ka.C.23	0.0001	0.0082	2.808e-03
	Ka.C.24	0.0001	0.0082	2.808e-03
	Ka.C.25	0.0001	0.0082	2.808e-03
	Ka.C.26	0.0001	0.0082	2.808e-03
	Ka.C.27	0.0002	0.0134	4.580e-03
K66	Ka.C.(w1)	0.0000	0.0011	2.342e-03
	Ka.C.1	0.0000	0.0011	2.342e-03
	Ka.C.2	0.0000	0.0011	2.342e-03
	Ka.C.3	0.0000	0.0011	2.342e-03
	Ka.C.4	0.0000	0.0011	2.342e-03
	Ka.C.5	0.0000	0.0007	1.605e-03
	Ka.C.6	0.0000	0.0011	2.342e-03
	Ka.C.7	0.0000	0.0011	2.342e-03
	Ka.C.8	0.0000	0.0011	2.342e-03
	Ka.C.9	0.0000	0.0007	1.758e-03
	Ka.C.10	0.0000	0.0011	2.342e-03
	Ka.C.11	0.0000	0.0011	2.342e-03
	Ka.C.12	0.0000	0.0011	2.342e-03
	Ka.C.13	0.0000	0.0011	2.342e-03
	Ka.C.14	0.0000	0.0011	2.342e-03
	Ka.C.15	0.0000	0.0011	2.342e-03
	Ka.C.16	0.0000	0.0011	2.342e-03
	Ka.C.17	0.0000	0.0011	2.342e-03
	Ka.C.18	0.0000	0.0011	2.342e-03
	Ka.C.19	0.0000	0.0011	2.342e-03
	Ka.C.20	0.0000	0.0011	2.342e-03
	Ka.C.21	0.0000	0.0007	1.331e-03
	Ka.C.22	0.0000	0.0007	1.485e-03
	Ka.C.23	0.0000	0.0011	2.342e-03
	Ka.C.24	0.0000	0.0011	2.342e-03

Moederspant as ZZ	Novares Constructeurs	
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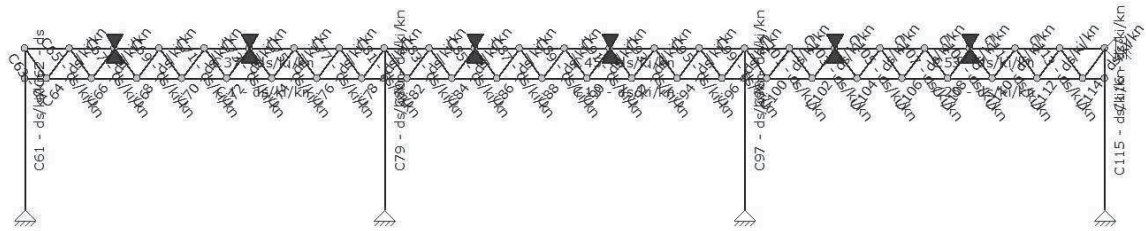
Knoop	B.C.	X	Z	Yr
K66	Ka.C.25	0.0000	0.0011	2.342e-03
	Ka.C.26	0.0000	0.0011	2.342e-03
	Ka.C.27	0.0000	0.0018	3.802e-03
-	-	m	m	rad

KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf	Z'afst	Knoop Eind	
		X	Z			X	Z
S1	Ka.C.27	0.000	0.001	0.813	0.0000	-0.001	0.008
S2	Ka.C.27	-0.001	0.008	1.375	0.0003	0.000	0.019
S3	Ka.C.27	0.000	0.019	0.688	0.0001	0.001	0.023
S4	Ka.C.27	0.001	0.023	0.625	0.0001	0.001	0.026
S5	Ka.C.27	0.001	0.026	1.250	0.0006	0.002	0.029
S6	Ka.C.27	0.002	0.029	0.625	0.0001	0.003	0.029
S7	Ka.C.27	0.003	0.029	0.625	0.0001	0.004	0.028
S8	Ka.C.27	0.004	0.028	1.250	0.0004	0.004	0.023
S9	Ka.C.27	0.004	0.023	0.688	0.0001	0.005	0.019
S10	Ka.C.27	0.005	0.019	0.688	0.0000	0.005	0.015
S11	Ka.C.27	0.005	0.015	2.000	0.0000	0.004	0.007
S13	Ka.C.27	0.003	0.003	0.938	0.0000	0.003	0.004
S14	Ka.C.27	0.003	0.004	1.375	-0.0001	0.002	0.008
S16	Ka.C.27	0.002	0.010	0.875	0.0000	0.002	0.012
S17	Ka.C.27	0.002	0.012	1.375	0.0003	0.002	0.015
S18	Ka.C.27	0.002	0.015	0.688	0.0001	0.003	0.015
S19	Ka.C.27	0.003	0.015	0.625	0.0001	0.003	0.015
S20	Ka.C.27	0.003	0.015	1.125	0.0003	0.003	0.012
S21	Ka.C.27	0.003	0.012	0.813	0.0000	0.003	0.010
S23	Ka.C.27	0.003	0.008	1.375	-0.0001	0.003	0.004
S24	Ka.C.27	0.003	0.004	0.875	0.0000	0.002	0.003
S25	Ka.C.27	0.002	0.003	1.000	0.0000	0.001	0.007
S27	Ka.C.27	0.001	0.015	0.813	0.0000	0.001	0.019
S28	Ka.C.27	0.001	0.019	0.688	0.0001	0.001	0.023
S29	Ka.C.27	0.001	0.023	1.375	0.0004	0.002	0.028
S30	Ka.C.27	0.002	0.028	0.625	0.0001	0.002	0.029
S31	Ka.C.27	0.002	0.029	0.625	0.0001	0.003	0.029
S32	Ka.C.27	0.003	0.029	1.250	0.0006	0.004	0.026
S33	Ka.C.27	0.004	0.026	0.625	0.0001	0.005	0.023
S34	Ka.C.27	0.005	0.023	0.625	0.0001	0.005	0.019
S35	Ka.C.27	0.005	0.019	1.250	0.0003	0.006	0.008
S36	Ka.C.27	0.006	0.008	0.625	0.0000	0.006	0.001
S37	Ka.C.27	0.005	0.002	1.500	0.0000	0.005	0.013
S38	Ka.C.27	0.005	0.013	1.375	0.0005	0.004	0.023
S39	Ka.C.27	0.004	0.023	1.125	0.0005	0.004	0.028
S40	Ka.C.27	0.004	0.028	1.375	0.0006	0.003	0.030
S41	Ka.C.27	0.003	0.030	1.125	0.0006	0.002	0.026
S42	Ka.C.27	0.002	0.026	1.375	0.0003	0.001	0.019
S43	Ka.C.27	0.001	0.019	0.750	0.0001	0.001	0.011
S44	Ka.C.27	0.001	0.011	1.000	-0.0002	0.002	0.003
S45	Ka.C.27	0.002	0.003	1.500	-0.0002	0.003	0.006
S46	Ka.C.27	0.003	0.006	0.750	-0.0001	0.003	0.010
S47	Ka.C.27	0.003	0.010	1.000	0.0001	0.003	0.013
S48	Ka.C.27	0.003	0.013	1.500	0.0004	0.003	0.016
S49	Ka.C.27	0.003	0.016	1.000	0.0004	0.002	0.013
S50	Ka.C.27	0.002	0.013	1.625	0.0001	0.002	0.010
S51	Ka.C.27	0.002	0.010	1.875	-0.0001	0.002	0.006
S52	Ka.C.27	0.002	0.006	1.000	-0.0002	0.003	0.003
S53	Ka.C.27	0.003	0.003	1.500	-0.0002	0.004	0.011
S54	Ka.C.27	0.004	0.011	1.875	0.0001	0.004	0.019
S55	Ka.C.27	0.004	0.019	1.125	0.0003	0.004	0.026
S56	Ka.C.27	0.004	0.026	1.375	0.0006	0.003	0.030
S57	Ka.C.27	0.003	0.030	1.125	0.0006	0.002	0.028
S58	Ka.C.27	0.002	0.028	1.375	0.0005	0.001	0.023
S59	Ka.C.27	0.001	0.023	1.125	0.0005	0.000	0.013
S60	Ka.C.27	0.000	0.013	1.250	0.0000	0.000	0.002
S61	Ka.C.9	0.000	0.000	2.920	0.0043	0.001	0.001

Moederspant as ZZ				Novares Constructeurs			
Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S61	Ka.C.21	0.000	0.000	3.285	-0.0069	-0.001	0.001
S62	Ka.C.9	0.001	0.001	0.680	-0.0004	0.003	0.001
S62	Ka.C.21	-0.001	0.001	0.680	0.0001	0.002	0.001
S63	Ka.C.21	0.002	0.001	1.266	0.0000	-0.001	0.003
S64	Ka.C.27	-0.001	0.008	1.161	0.0000	0.005	0.013
S65	Ka.C.21	0.002	0.006	1.266	0.0000	0.000	0.008
S66	Ka.C.27	0.000	0.019	1.161	0.0000	0.004	0.023
S67	Ka.C.21	0.002	0.010	1.161	0.0000	0.000	0.011
S68	Ka.C.27	0.001	0.026	1.161	0.0001	0.004	0.028
S69	Ka.C.21	0.001	0.012	1.161	0.0000	0.001	0.013
S70	Ka.C.27	0.002	0.029	1.161	0.0000	0.003	0.030
S71	Ka.C.27	0.003	0.030	1.161	0.0000	0.004	0.028
S72	Ka.C.9	0.002	0.012	1.266	0.0000	0.002	0.011
S73	Ka.C.27	0.002	0.026	1.161	0.0000	0.004	0.023
S74	Ka.C.9	0.003	0.009	1.266	0.0000	0.001	0.008
S75	Ka.C.27	0.001	0.019	1.161	0.0000	0.005	0.015
S76	Ka.C.9	0.003	0.006	1.266	0.0000	0.001	0.004
S77	Ka.C.27	0.001	0.011	1.161	0.0000	0.004	0.007
S78	Ka.C.9	0.003	0.003	1.266	0.0000	0.002	0.001
S79	Ka.C.27	0.000	0.000	4.015	0.0016	0.003	0.003
S80	Ka.C.27	0.003	0.003	0.765	0.0001	0.002	0.003
S81	Ka.C.5	0.002	0.001	1.266	0.0000	0.002	0.002
S82	Ka.C.27	0.003	0.004	1.161	0.0000	0.003	0.006
S83	Ka.C.5	0.002	0.002	1.266	0.0000	0.002	0.003
S84	Ka.C.27	0.002	0.008	1.161	0.0000	0.003	0.010
S85	Ka.C.5	0.002	0.004	1.161	0.0000	0.002	0.005
S86	Ka.C.27	0.002	0.012	1.161	0.0001	0.003	0.013
S87	Ka.C.5	0.002	0.006	1.161	0.0000	0.002	0.006
S88	Ka.C.27	0.002	0.015	1.161	0.0001	0.003	0.016
S89	Ka.C.27	0.003	0.016	1.161	0.0001	0.003	0.015
S90	Ka.C.22	0.001	0.006	1.161	0.0000	0.001	0.006
S91	Ka.C.27	0.002	0.013	1.161	0.0001	0.003	0.012
S92	Ka.C.21	0.001	0.005	1.161	0.0000	0.001	0.004
S93	Ka.C.27	0.002	0.010	1.161	0.0000	0.003	0.008
S94	Ka.C.21	0.001	0.003	1.266	0.0000	0.001	0.002
S95	Ka.C.27	0.002	0.006	1.161	0.0000	0.003	0.004
S96	Ka.C.21	0.001	0.002	1.266	0.0000	0.001	0.001
S97	Ka.C.27	0.000	0.000	4.015	-0.0007	0.002	0.003
S98	Ka.C.27	0.002	0.003	0.850	0.0000	0.003	0.003
S99	Ka.C.22	0.001	0.001	1.266	0.0000	0.000	0.003
S100	Ka.C.27	0.001	0.007	1.161	0.0000	0.004	0.011
S101	Ka.C.22	0.002	0.004	1.266	0.0000	0.000	0.006
S102	Ka.C.27	0.001	0.015	1.161	0.0000	0.004	0.019
S103	Ka.C.22	0.002	0.008	1.266	0.0000	0.000	0.010
S104	Ka.C.27	0.001	0.023	1.161	0.0000	0.004	0.026
S105	Ka.C.22	0.001	0.011	1.266	0.0000	0.001	0.012
S106	Ka.C.27	0.002	0.028	1.161	0.0000	0.003	0.030
S107	Ka.C.27	0.003	0.030	1.161	0.0000	0.003	0.029
S108	Ka.C.5	0.002	0.013	1.161	0.0000	0.001	0.012
S109	Ka.C.27	0.002	0.028	1.161	0.0001	0.004	0.026
S110	Ka.C.5	0.002	0.012	1.161	0.0000	0.001	0.010
S111	Ka.C.27	0.001	0.023	1.161	0.0000	0.005	0.019
S112	Ka.C.5	0.002	0.008	1.266	0.0000	0.000	0.006
S113	Ka.C.27	0.000	0.013	1.161	0.0000	0.006	0.008
S114	Ka.C.5	0.003	0.003	1.266	0.0000	0.000	0.001
S115	Ka.C.21	0.000	0.000	3.285	0.0072	0.003	0.001
S116	Ka.C.21	0.003	0.001	0.680	-0.0001	0.000	0.001
S116	Ka.C.27	0.006	0.001	0.765	0.0002	0.000	0.002
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C1	S1; S2; S3; S4; S5; S6; S7; S8; S9; S10; S11; S12
C13	S13; S14; S15; S16; S17; S18; S19; S20; S21; S22; S23; S24
C25	S25; S26; S27; S28; S29; S30; S31; S32; S33; S34; S35; S36
C37	S37; S38; S39; S40; S41; S42; S43; S44
C45	S45; S46; S47; S48; S49; S50; S51; S52
C53	S53; S54; S55; S56; S57; S58; S59; S60
C61	S61
C62	S62
C63	S63
C64	S64
C65	S65
C66	S66
C67	S67
C68	S68
C69	S69
C70	S70
C71	S71
C72	S72
C73	S73
C74	S74
C75	S75
C76	S76
C77	S77
C78	S78
C79	S79
C80	S80
C81	S81
C82	S82
C83	S83
C84	S84
C85	S85
C86	S86
C87	S87
C88	S88
C89	S89
C90	S90
C91	S91
C92	S92
C93	S93
C94	S94
C95	S95
C96	S96
C97	S97
C98	S98
C99	S99

Moederspant as ZZ	Novares Constructeurs	
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C100	S100
C101	S101
C102	S102
C103	S103
C104	S104
C105	S105
C106	S106
C107	S107
C108	S108
C109	S109
C110	S110
C111	S111
C112	S112
C113	S113
C114	S114
C115	S115
C116	S116

KNIKLENGTEGEGEVENS

Staaf	Profiel	Lokale Y-as			Lokale Z-as			
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-20.000)	P2	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C13 - V1 (0.000-20.000)	P2	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C25 - V1 (0.000-20.000)	P2	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C37 - V1 (0.000-20.000)	P1	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C45 - V1 (0.000-20.000)	P1	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C53 - V1 (0.000-20.000)	P1	20.000	Handmatige Invoer	2.500	0.13	Handmatige Invoer	5.000	0.25
C61 - V1 (0.000-7.300)	P6	7.300	Cons. gesch.	7.300	1.00	Cons. gesch.	7.300	1.00
C64 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C66 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C68 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C70 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C71 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C73 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C75 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C77 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C79 - V1 (0.000-7.300)	P5	7.300	Cons. gesch.	7.300	1.00	Cons. gesch.	7.300	1.00
C80 - V1 (0.000-1.700)	P5	1.700	Cons. gesch.	1.700	1.00	Cons. gesch.	1.700	1.00
C82 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C84 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C86 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C88 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C89 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C91 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C93 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C95 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C97 - V1 (0.000-7.300)	P5	7.300	Cons. gesch.	7.300	1.00	Cons. gesch.	7.300	1.00
C98 - V1 (0.000-1.700)	P5	1.700	Cons. gesch.	1.700	1.00	Cons. gesch.	1.700	1.00
C100 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C102 - V1 (0.000-2.110)	P3	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C104 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C106 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C107 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C108 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C109 - V1 (0.000-2.110)	P8	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C111 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00
C113 - V1 (0.000-2.110)	P7	2.110	Cons. gesch.	2.110	1.00	Cons. gesch.	2.110	1.00

Moederspant as ZZ	Novares Constructeurs	
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Staaf	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C115 - V1 (0.000-7.300)	P6	7.300	Cons. gesch.	7.300	1.00	Cons. gesch.	7.300	1.00
C116 - V1 (0.000-1.700)	P6	1.700	Cons. gesch.	1.700	1.00	Cons. gesch.	1.700	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEGEVENS

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-20.000)	P2	Gesteund	Gesteund			Centrum
C13 - V1 (0.000-20.000)	P2	Gesteund	Gesteund			Centrum
C25 - V1 (0.000-20.000)	P2	Gesteund	Gesteund			Centrum
C37 - V1 (0.000-20.000)	P1	Gesteund	Gesteund	6.67,13.33	6.67,13.33	Centrum
C45 - V1 (0.000-20.000)	P1	Gesteund	Gesteund	6.67,13.33	6.67,13.33	Centrum
C53 - V1 (0.000-20.000)	P1	Gesteund	Gesteund	6.67, 13.33	6.67, 13.33	Centrum
C61 - V1 (0.000-7.300)	P6	Gesteund	Gesteund			Centrum
C64 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C65 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C66 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C67 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C68 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C69 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C70 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C71 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C72 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C73 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C74 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C75 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C76 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C77 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C78 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C79 - V1 (0.000-7.300)	P5	Gesteund	Gesteund			Centrum
C80 - V1 (0.000-1.700)	P5	Gesteund	Gesteund			Centrum
C81 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C82 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C83 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C84 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C85 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C86 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C87 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C88 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C89 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C90 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C91 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C92 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C93 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C94 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C95 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C96 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C97 - V1 (0.000-7.300)	P5	Gesteund	Gesteund			Centrum
C98 - V1 (0.000-1.700)	P5	Gesteund	Gesteund			Centrum
C99 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C100 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C101 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C102 - V1 (0.000-2.110)	P3	Gesteund	Gesteund			Centrum
C103 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C104 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C105 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C106 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C107 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C108 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C109 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C110 - V1 (0.000-2.110)	P8	Gesteund	Gesteund			Centrum
C111 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C112 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C113 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C114 - V1 (0.000-2.110)	P7	Gesteund	Gesteund			Centrum
C115 - V1 (0.000-7.300)	P6	Gesteund	Gesteund			Centrum
C116 - V1 (0.000-1.700)	P6	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

STAALTOETS RESULTATEN MET PROFIELGEGEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C1-V1 (0.000-20.000)

KK200/10	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 200.0 mm	A = 7.17e-03 m2	Wy;el = 416.2e-06 m3	Wy;pl = 499.3e-06 m3
b = 200.0 mm	Iy = 416.2e-07 m4	Wz;el = 416.2e-06 m3	Wz;pl = 499.3e-06 m3
tf = 10.0 mm	Iz = 416.2e-07 m4	Aw;y;el = 3.59e-03 m2	Aw;y;pl = 3.59e-03 m2
tw = 10.0 mm	Massa/m = 56.3 kg/m	Aw;z;el = 3.59e-03 m2	Aw;z;pl = 3.59e-03 m2
r = 20.0 mm		It = 685.9e-07 m4	Iwa = 375.6e-09 m6

Doorsnedetoetsing C1-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24 op 18.750 m	Profielklasse = 1
N;Ed = -1,150.8 kN	My;Ed = -1.1 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 1,685.1 kN	MyRd = 117.3 kNm
	MzRd = 117.3 kNm

NEN-EN1993-1-1(6.9): UC = 0.68 < 1

Kiptoetsing C1-V1 (0.000-20.000)

Equi. profiel: KK200/10			
Maatgevende combinatie: Fu.C.28		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.3	F = 0.4kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 20.000 m	lst = 20.000 m
Lsys = 20.000 m	Lg = 20.000 m	S = 0.119 m	Iwa = 3.7563e-07 m6
C1 = 1.35	C2 = 0.55 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 4.9 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 20.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C1-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24			
N;Ed = -1,150.8 kN	Nb;Rd;y = 1,556.7 kN	Nb;Rd;z = 1,222.4 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.500 m
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.92		Knikcurve: C	
Xz = 0.73		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0.94 < 1

Buiging & Druk C1-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1
N;Ed = -1,150.8 kN	My;Ed = 4.9 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 8.4 kNm

Moederspant as ZZ	Novares Constructeurs	
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Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.055	Kyz = 0.882	Kzy = 0.633	Kzz = 1.470
Ksi;y = 0.92	Ksi;z = 0.73	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.99 < 1			

Profielgegevens staaf C13-V1 (0.000-20.000)

KK200/10	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 200.0 mm	A = 7.17e-03 m2	Wy;el = 416.2e-06 m3	Wy;pl = 499.3e-06 m3
b = 200.0 mm	Iy = 416.2e-07 m4	Wz;el = 416.2e-06 m3	Wz;pl = 499.3e-06 m3
tf = 10.0 mm	Iz = 416.2e-07 m4	Aw;y;el = 3.59e-03 m2	Aw;y;pl = 3.59e-03 m2
tw = 10.0 mm	Massa/m = 56.3 kg/m	Aw;z;el = 3.59e-03 m2	Aw;z;pl = 3.59e-03 m2
r = 20.0 mm		It = 685.9e-07 m4	Iwa = 375.6e-09 m6

Doorsnedetoetsing C13-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24 op 18.750 m	Profielklasse = 1
N;Ed = -1,144.1 kN	My;Ed = -1.4 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 1,685.1 kN	MyRd = 117.3 kNm
	MzRd = 117.3 kNm
NEN-EN1993-1-1(6.9): UC = 0.68 < 1	

Kiptoetsing C13-V1 (0.000-20.000)

Equi. profiel: KK200/10		Instab. curve Kip:d
Maatgevende combinatie: Fu.C.28		
Aangrijphoogte van de last: 0.000 m vanaf hart profiel		
Kipsteun bovenflens: N.v.t.		
Kipsteun onderflens: N.v.t.		
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000
Tabel gebruikt NB 6.3	F = 0.5kN/m	= 0.0
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 20.000 m
Lsys = 20.000 m	Lg = 20.000 m	S = 0.119 m
C1 = 1.35	C2 = 0.55 (tabel)	C2(toegepast) = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00
Chi;LT(Fu.C.28) = 1.00	M;Ed = 3.6 kNm	Profielklasse 1
Chi;LT,Z = 1.00	Ikip = 20.000 m	UC(y) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm	UC(z) = 0.00
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)		

Stabiliteitstoetsing C13-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24		
N;Ed = -1,144.1 kN	Nb;Rd;y = 1,556.7 kN	Nb;Rd;z = 1,222.4 kN
Methode Y = Handmatige Invoer	Ca(y) = 0.000	Cb(y) = 0.000
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B
Xy = 0.92		Knikcurve: C
Xz = 0.73		Knikcurve: C
NEN-EN1993-1-1(6.46): UC = 0.94 < 1		

Buiging & Druk C13-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1
N;Ed = -1,144.1 kN	My;Ed = 3.6 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 6.3 kNm
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95
Kyy = 1.054	Kyz = 0.880	Kzy = 0.633
Ksi;y = 0.92	Ksi;z = 0.73	Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.97 < 1		

Profielgegevens staaf C25-V1 (0.000-20.000)

Moederspant as ZZ	Novares Constructeurs	
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KK200/10	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 200.0 mm	A = 7.17e-03 m2	Wy;el = 416.2e-06 m3	Wy;pl = 499.3e-06 m3
b = 200.0 mm	Iy = 416.2e-07 m4	Wz;el = 416.2e-06 m3	Wz;pl = 499.3e-06 m3
tf = 10.0 mm	Iz = 416.2e-07 m4	Aw;y;el = 3.59e-03 m2	Aw;y;pl = 3.59e-03 m2
tw = 10.0 mm	Massa/m = 56.3 kg/m	Aw;z;el = 3.59e-03 m2	Aw;z;pl = 3.59e-03 m2
r = 20.0 mm		It = 685.9e-07 m4	Iwa = 375.6e-09 m6

Doorsnedetoetsing C25-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24 op 0.000 m	Profielklasse = 1
N;Ed = -1,148.3 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 1,685.1 kN	MyRd = 117.3 kNm
	MzRd = 117.3 kNm
NEN-EN1993-1-1(6.9): UC = 0.68 < 1	

Kiptoetsing C25-V1 (0.000-20.000)

Equi. profiel: KK200/10	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.28	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.3	F = 0.6kN/m
Bovenflens maatgevend	Xb;lst = 0.000 m
Lsys = 20.000 m	Lg = 20.000 m
C1 = 1.35	C2 = 0.55 (tabel)
Mcr = 0.0 kNm	kred = 1.0
Chi;LT(Fu.C.28) = 1.00	M;Ed = 4.9 kNm
Chi;LT,Z = 1.00	Ikip = 20.000 m
My;begin = 0.0 kNm	My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1	Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C25-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24	
N;Ed = -1,148.3 kN	Nb;Rd;y = 1,556.7 kN
Methode Y = Handmatige Invoer	Ca(y) = 0.000
Methode Z = Handmatige Invoer	Ca(z) = N/B
Xy = 0.92	
Xz = 0.73	
NEN-EN1993-1-1(6.46): UC = 0.94 < 1	

Buiging & Druk C25-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24	Profielklasse = 1
N;Ed = -1,148.3 kN	Mz;Ed = 0.0 kNm
	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;s = 8.4 kNm
Mz = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	CmLT = 0.95
Kyy = 1.055	Kzy = 0.633
Ksi;y = 0.92	Ksi;z = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.99 < 1	Kzz = 1.469

Profielgegevens staaf C37-V1 (0.000-20.000)

HE220B	Analyse	Staal S235	fyd(toegepast) = 235 N/mm2
h = 220.0 mm	A = 9.10e-03 m2	Wy;el = 735.5e-06 m3	Wy;pl = 827.0e-06 m3
b = 220.0 mm	Iy = 809.1e-07 m4	Wz;el = 258.5e-06 m3	Wz;pl = 393.9e-06 m3
tf = 16.0 mm	Iz = 284.3e-07 m4	Aw;y;el = 7.32e-03 m2	Aw;y;pl = 7.32e-03 m2
tw = 9.5 mm	Massa/m = 71.5 kg/m	Aw;z;el = 2.79e-03 m2	Aw;z;pl = 2.79e-03 m2
r = 18.0 mm		It = 765.7e-09 m4	Iwa = 295.4e-09 m6

Doorsnedetoetsing C37-V1 (0.000-20.000)

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.24 op 7.500 m

N;Ed = -959.2 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 11.8 kN
 N;Rd = 2,139.5 kN
 Vy;Rd = 992.9 kN
 Vz;Rd = 378.8 kN

Profielklasse = 1
 My;Ed = 3.7 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 194.4 kNm
 MzRd = 92.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.45 < 1

Kiptoetsing C37-V1 (0.000-20.000)

Equi. profiel: HE220B

Maatgevende combinatie: Fu.C.24

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: 6.67, 13.33m

Kipsteun onderflens: 6.67, 13.33m

Inklem. begin: Gesteund
 Tabel gebruikt Fig. NB.35
 Bovenflens maatgevend
 Lsys = 20.000 m
 C1 = 1.14
 Mcr = 245.3 kNm
 Chi;LT(Fu.C.24) = 0.74
 Chi;LT,Z = 1.00
 My;begin = 0.0 kNm
 Beperk. eind: Gesteund
 M = 11.9kN/m
 Xb;lst = 0.000 m
 Lg = 20.000 m
 C2 = 0.24 (tabel)
 kred = 1.0
 M;Ed = 25.2 kNm
 lkip = 9.338 m
 My;eind = 11.9 kNm

Instab. curve Kip:a

b-eff(Begin) = 0.001
 MBeta = 0.0
 Xe;lst = 6.670 m
 S = 1.002 m
 C2(toegepast) = 0.00
 Lam-rel = 0.89
 b-eff(Eind) = 0.002
 F = 3.9
 Ist = 6.670 m
 Iwa = 2.9542e-07 m6
 C = 8.08
 Profielklasse 1
 UC(y) = 0.17
 UC(z) = 0.00

NEN-EN1993-1-1(6.54): UC = 0.17 < 1

Stabiliteitstoetsing C37-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24

N;Ed = -959.2 kN
 Methode Y = Handmatige Invoer
 Methode Z = Handmatige Invoer
 Xy = 0.97
 Xz = 0.57
 Nb;Rd;y = 2,076.4 kN
 Ca(y) = 0.000
 Ca(z) = N/B

Nb;Rd;z = 1,214.9 kN
 Cb(y) = 0.000
 Cb(z) = N/B
 Knikcurve: B
 Knikcurve: C
 Lknik Y = 2.500 m
 Lknik Z = 5.000 m

NEN-EN1993-1-1(6.46): UC = 0.79 < 1

Buiging & Druk C37-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24

N;Ed = -959.2 kN
 My = 0.0 kNm
 Mz = 0.0 kNm
 Cmy = 0.95
 Kyy = 0.986
 Ksi;y = 0.97
 Kipgevoelig Ja
 My;Ed = 25.2 kNm
 Delta;My;Ed = 0.0 kNm
 My;Psi = 0.0 kNm
 Mz;Psi = 0.0 kNm
 Cmrz = 1.00
 Kyz = 1.218
 Ksi;z = 0.57

Profielklasse = 1
 Mz;Ed = 0.0 kNm
 Delta;Mz;Ed = 0.0 kNm
 My;s = 28.2 kNm
 Mz;s = 0.0 kNm
 CmLT = 0.95
 Kzy = 0.893
 Ksi;LT = 0.74
 Kzz = 2.031

NEN-EN1993-1-1(6.61&6.62): UC = 0.96 < 1

Profielgegevens staaf C45-V1 (0.000-20.000)

HE220B
 h = 220.0 mm
 b = 220.0 mm
 tf = 16.0 mm
 tw = 9.5 mm
 r = 18.0 mm
 Analyse
 A = 9.10e-03 m2
 Iy = 809.1e-07 m4
 Iz = 284.3e-07 m4
 Massa/m = 71.5 kg/m

Staal S235 fyd(toegepast) = 235 N/mm2
 Wy;el = 735.5e-06 m3
 Wz;el = 258.5e-06 m3
 Aw;y;el = 7.32e-03 m2
 Aw;z;el = 2.79e-03 m2
 It = 765.7e-09 m4
 Wy;pl = 827.0e-06 m3
 Wz;pl = 393.9e-06 m3
 Aw;y;pl = 7.32e-03 m2
 Aw;z;pl = 2.79e-03 m2
 Iwa = 295.4e-09 m6

Doorsnedetoetsing C45-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24 op 17.500 m

N;Ed = 840.2 kN
 Vy;Ed = 0.0 kN
 Vz;Ed = 6.1 kN
 N;Rd = 2,139.5 kN
 Vy;Rd = 992.9 kN
 Vz;Rd = 378.8 kN

Profielklasse = 1
 My;Ed = -11.5 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 194.4 kNm
 MzRd = 92.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.39 < 1

Kiptoetsing C45-V1 (0.000-20.000)

Equi. profiel: HE220B

Maatgevende combinatie: Fu.C.24

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: 6.67, 13.33m

Kipsteun onderflens: 6.67, 13.33m

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.002

b-eff(Eind) = 0.002

Tabel gebruikt Fig. NB.35

M = 0.8kN/m

MBeta = 0.8

F = 17.9

Bovenflens maatgevend

Xb;lst = 6.670 m

Xe;lst = 13.330 m

lst = 6.660 m

Lsys = 20.000 m

Lg = 20.000 m

S = 1.002 m

lwa = 2.9542e-07 m6

C1 = 1.35

C2 = 0.53 (tabel)

C2(toegepast) = 0.00

C = 14.05

Mcr = 426.8 kNm

kred = 1.0

Lam-rel = 0.67

Profielklasse 1

Chi;LT(Fu.C.24) = 0.86

M;Ed = 25.9 kNm

UC(y) = 0.16

Chi;LT,Z = 1.00

Ikip = 6.660 m

UC(z) = 0.00

My;begin = 0.8 kNm

My;eind = 0.8 kNm

NEN-EN1993-1-1(6.54): UC = 0.16 < 1

Stabiliteitstoetsing C45-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24

N;Ed = -329.5 kN

Nb;Rd;y = 2,076.4 kN

Nb;Rd;z = 1,214.9 kN

Methode Y = Handmatige Invoer

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.500 m

Methode Z = Handmatige Invoer

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.97

Knikcurve: B

Xz = 0.57

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.27 < 1

Buiging & Druk C45-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -329.5 kN

My;Ed = 25.9 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 25.9 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 0.962

Kyz = 0.812

Kzy = 0.963

Kzz = 1.354

Ksi;y = 0.97

Ksi;z = 0.57

Ksi;LT = 0.79

NEN-EN1993-1-1(6.61&6.62): UC = 0.43 < 1

Profielgegevens staaf C53-V1 (0.000-20.000)

HE220B

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 220.0 mm

A = 9.10e-03 m2

Wy;el = 735.5e-06 m3

Wy;pl = 827.0e-06 m3

b = 220.0 mm

Iy = 809.1e-07 m4

Wz;el = 258.5e-06 m3

Wz;pl = 393.9e-06 m3

tf = 16.0 mm

Iz = 284.3e-07 m4

Aw;y;el = 7.32e-03 m2

Aw;y;pl = 7.32e-03 m2

tw = 9.5 mm

Massa/m = 71.5 kg/m

Aw;z;el = 2.79e-03 m2

Aw;z;pl = 2.79e-03 m2

r = 18.0 mm

It = 765.7e-09 m4

lwa = 295.4e-09 m6

Doorsnedetoetsing C53-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24 op 10.000 m

Profielklasse = 1

N;Ed = -959.0 kN

Vy;Ed = 0.0 kN

My;Ed = 28.2 kNm

Vz;Ed = -7.4 kN

Mz;Ed = 0.0 kNm

N;Rd = 2,139.5 kN

Vy;Rd = 992.9 kN

MyRd = 194.4 kNm

Vz;Rd = 378.8 kN

MzRd = 92.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.45 < 1

Kiptoetsing C53-V1 (0.000-20.000)

Equi. profiel: HE220B

Maatgevende combinatie: Fu.C.24

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: 6.67, 13.33m

Kipsteun onderflens: 6.67, 13.33m

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.002

b-eff(Eind) = 0.001

Tabel gebruikt Fig. NB.35

M = 11.9kN/m

MBeta = 0.0

F = 3.3

Moederspant as ZZ	Novares Constructeurs	
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Bovenflens maatgevend	Xb;lst = 13.330 m	Xe;lst = 20.000 m	lst = 6.670 m
Lsys = 20.000 m	Lg = 20.000 m	S = 1.002 m	lwa = 2.9542e-07 m6
C1 = 1.17	C2 = 0.21 (tabel)	C2(toegepast) = 0.00	C = 8.28
Mcr = 251.6 kNm	kred = 1.0	Lam-rel = 0.88	Profielklasse 1
Chi;LT(Fu.C.24) = 0.75	M;Ed = 25.2 kNm		UC(y) = 0.17
Chi;LT,Z = 1.00	lkip = 9.338 m		UC(z) = 0.00
My;begin = 11.9 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.17 < 1			

Stabiliteitstoetsing C53-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24			
N;Ed = -959.0 kN	Nb;Rd;y = 2,076.4 kN	Nb;Rd;z = 1,214.9 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.500 m
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.97		Knikcurve: B	
Xz = 0.57		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.79 < 1			

Buiging & Druk C53-V1 (0.000-20.000)

Maatgevende combinatie: Fu.C.24			
N;Ed = -959.0 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 25.2 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 28.2 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 0.986	Kyz = 1.218	Kzy = 0.893	Kzz = 2.030
Ksi;y = 0.97	Ksi;z = 0.57	Ksi;LT = 0.75	
NEN-EN1993-1-1(6.61&6.62): UC = 0.96 < 1			

Profielgegevens staaf C61-V1 (0.000-7.300)

HE220A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 210.0 mm	A = 6.43e-03 m2	Wy;el = 515.2e-06 m3	Wy;pl = 568.5e-06 m3
b = 220.0 mm	Iy = 541.0e-07 m4	Wz;el = 177.7e-06 m3	Wz;pl = 270.6e-06 m3
tf = 11.0 mm	Iz = 195.5e-07 m4	Aw;y;el = 5.12e-03 m2	Aw;y;pl = 5.12e-03 m2
tw = 7.0 mm	Massa/m = 50.5 kg/m	Aw;z;el = 2.07e-03 m2	Aw;z;pl = 2.07e-03 m2
r = 18.0 mm		It = 284.6e-09 m4	lwa = 193.3e-09 m6

Doorsnedetoetsing C61-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.6 op 7.300 m			
N;Ed = -110.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1	
	Vz;Ed = -22.7 kN	My;Ed = -32.7 kNm	
N;Rd = 1,512.0 kN	Vy;Rd = 694.4 kN	Mz;Ed = 0.0 kNm	
	Vz;Rd = 280.5 kN	MyRd = 133.6 kNm	
		MzRd = 63.6 kNm	
NEN-EN1993-1-1(6.12): UC = 0.24 < 1			

Kiptoetsing C61-V1 (0.000-7.300)

Equi. profiel: HE220A			
Maatgevende combinatie: Fu.C.6			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.010	b-eff(Eind) = 0.016
Tabel gebruikt Fig. NB.32	M = -32.7kN/m	MBeta = 0.0	q = 5.1
Onderflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 7.300 m	lst = 7.300 m
Lsys = 7.300 m	Lg = 7.300 m	S = 1.329 m	lwa = 1.9327e-07 m6
C1 = 2.10	C2 = 0.88 (tabel)	C2(toegepast) = 0.00	C = 7.59
Mcr = 319.5 kNm	kred = 1.0	Lam-rel = 0.65	Profielklasse 1
Chi;LT(Fu.C.6) = 0.87	M;Ed = 32.7 kNm		UC(y) = 0.28
Chi;LT,Z = 1.00	lkip = 7.300 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = -32.7 kNm		
NEN-EN1993-1-1(6.54): UC = 0.28 < 1			

Stabiliteitstoetsing C61-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

N;Ed = -345.2 kN	Nb;Rd;y = 1,050.2 kN	Nb;Rd;z = 522.3 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 7.300 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 7.300 m
Xy = 0.69		Knikcurve: B	
Xz = 0.35		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.66 < 1			

Buiging & Druk C61-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

N;Ed = -345.2 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 32.7 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = -15.9 kNm	My;Psi = 0.0 kNm	My;s = -9.7 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.69	Cmz = 1.00	CmLT = 0.69	
Kyy = 0.838	Kyz = 1.155	Kzy = 0.850	Kzz = 1.925
Ksi;y = 0.69	Ksi;z = 0.35	Ksi;LT = 0.82	
NEN-EN1993-1-1(6.61&6.62): UC = 0.78 < 1			

Profielgegevens staaf C62-V1 (0.000-1.700)

HE220A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 210.0 mm	A = 6.43e-03 m2	Wy;el = 515.2e-06 m3	Wy;pl = 568.5e-06 m3
b = 220.0 mm	Iy = 541.0e-07 m4	Wz;el = 177.7e-06 m3	Wz;pl = 270.6e-06 m3
tf = 11.0 mm	Iz = 195.5e-07 m4	Aw;y;el = 5.12e-03 m2	Aw;y;pl = 5.12e-03 m2
tw = 7.0 mm	Massa/m = 50.5 kg/m	Aw;z;el = 2.07e-03 m2	Aw;z;pl = 2.07e-03 m2
r = 18.0 mm		It = 284.6e-09 m4	Iwa = 193.3e-09 m6

Doorsnedetoetsing C62-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.6 op 0.000 m

N;Ed = -109.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 23.3 kN	My;Ed = -32.7 kNm
N;Rd = 1,512.0 kN	Vy;Rd = 694.4 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 280.5 kN	MyRd = 133.6 kNm
		MzRd = 63.6 kNm

NEN-EN1993-1-1(6.12): UC = 0.24 < 1

Profielgegevens staaf C63-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2	
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C63-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 379.6 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.0 kN	My;Ed = 0.0 kNm
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 151.7 kN	MyRd = 22.4 kNm
		MzRd = 22.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.72 < 1

Profielgegevens staaf C64-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2	
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Moederspant as ZZ	Novares Constructeurs	
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Doorsnedetoetsing C64-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -378.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.2 kN

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

Vz;Rd = 151.7 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 22.4 kNm

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.72 < 1

Kiptoetsing C64-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C64-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -378.1 kN

Nb;Rd;y = 448.1 kN

Nb;Rd;z = 448.1 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.85

Knikcurve: C

Xz = 0.85

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.84 < 1

Buiging & Druk C64-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -378.1 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.176

Kyz = 0.743

Kzy = 0.706

Kzz = 1.238

Ksi;y = 0.85

Ksi;z = 0.85

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.85 < 1

Profielgegevens staaf C65-V1 (0.000-2.110)

KK120/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 2.24e-03 m2

Wy;el = 809.1e-07 m3

Wy;pl = 954.5e-07 m3

b = 120.0 mm

Iy = 485.5e-08 m4

Wz;el = 809.1e-07 m3

Wz;pl = 954.5e-07 m3

tf = 5.0 mm

Iz = 485.5e-08 m4

Aw;y;el = 1.12e-03 m2

Aw;y;pl = 1.12e-03 m2

tw = 5.0 mm

Massa/m = 17.5 kg/m

Aw;z;el = 1.12e-03 m2

Aw;z;pl = 1.12e-03 m2

r = 5.0 mm

It = 760.4e-08 m4

Iwa = 160.5e-10 m6

Doorsnedetoetsing C65-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = 363.8 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

MyRd = 22.4 kNm

Vz;Rd = 151.7 kN

MzRd = 22.4 kNm

Moederspant as ZZ	Novares Constructeurs	
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NEN-EN1993-1-1(6.5): UC = 0.69 < 1

Kiptoetsing C65-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C66-V1 (0.000-2.110)

KK120/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 2.24e-03 m2

Wy;el = 809.1e-07 m3

Wy;pl = 954.5e-07 m3

b = 120.0 mm

Iy = 485.5e-08 m4

Wz;el = 809.1e-07 m3

Wz;pl = 954.5e-07 m3

tf = 5.0 mm

Iz = 485.5e-08 m4

Aw;y;el = 1.12e-03 m2

Aw;y;pl = 1.12e-03 m2

tw = 5.0 mm

Massa/m = 17.5 kg/m

Aw;z;el = 1.12e-03 m2

Aw;z;pl = 1.12e-03 m2

r = 5.0 mm

It = 760.4e-08 m4

Iwa = 160.5e-10 m6

Doorsnedetoetsing C66-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = -363.2 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.2 kN

Mz;Ed = 0.0 kNm

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

MyRd = 22.4 kNm

Vz;Rd = 151.7 kN

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.69 < 1

Kiptoetsing C66-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C66-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -363.2 kN

Nb;Rd;y = 448.1 kN

Nb;Rd;z = 448.1 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.85

Knikcurve: C

Xz = 0.85

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.81 < 1

Buiging & Druk C66-V1 (0.000-2.110)

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.24

N;Ed = -363.2 kN

My;Ed = 0.1 kNm

Delta;My;Ed = 0.0 kNm

My = 0.0 kNm

Mz = 0.0 kNm

Cmy = 0.95

Kyy = 1.167

Ksi;y = 0.85

NEN-EN1993-1-1(6.61&6.62): UC = 0.81 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.1 kNm

Mz;s = 0.0 kNm

CmLT = 0.95

Kzy = 0.700

Ksi;LT = 1.00

Kzz = 1.229

Profielgegevens staaf C67-V1 (0.000-2.110)

KK90/5

h = 90.0 mm

b = 90.0 mm

tf = 5.0 mm

tw = 5.0 mm

r = 5.0 mm

Analyse

A = 1.64e-03 m²

Iy = 192.9e-08 m⁴

Iz = 192.9e-08 m⁴

Massa/m = 12.8 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 428.7e-07 m³

Wz;el = 428.7e-07 m³

Aw;y;el = 8.18e-04 m²

Aw;z;el = 8.18e-04 m²

It = 307.1e-08 m⁴

Wy;pl = 514.1e-07 m³

Wz;pl = 514.1e-07 m³

Aw;y;pl = 8.18e-04 m²

Aw;z;pl = 8.18e-04 m²

Iwa = 348.5e-11 m⁶

Doorsnedetoetsing C67-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 58.8 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.1 kN

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

Vz;Rd = 111.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.1 kNm

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.15 < 1

Kiptoetsing C67-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.1kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Lsys = 2.110 m

Lg = 2.110 m

C1 = 1.13

C2 = 0.45 (tabel)

Mcr = 0.0 kNm

kred = 1.0

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.0 kNm

Chi;LT,Z = 1.00

lkip = 2.110 m

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.000

= 0.0

Xe;lst = 2.110 m

S = 0.054 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

lst = 2.110 m

Iwa = 3.4849e-09 m⁶

C = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Profielgegevens staaf C68-V1 (0.000-2.110)

KK90/5

h = 90.0 mm

b = 90.0 mm

tf = 5.0 mm

tw = 5.0 mm

r = 5.0 mm

Analyse

A = 1.64e-03 m²

Iy = 192.9e-08 m⁴

Iz = 192.9e-08 m⁴

Massa/m = 12.8 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 428.7e-07 m³

Wz;el = 428.7e-07 m³

Aw;y;el = 8.18e-04 m²

Aw;z;el = 8.18e-04 m²

It = 307.1e-08 m⁴

Wy;pl = 514.1e-07 m³

Wz;pl = 514.1e-07 m³

Aw;y;pl = 8.18e-04 m²

Aw;z;pl = 8.18e-04 m²

Iwa = 348.5e-11 m⁶

Doorsnedetoetsing C68-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -59.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.1 kN

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

Vz;Rd = 111.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.1 kNm

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.15 < 1

Kiptoetsing C68-V1 (0.000-2.110)

Equi. profiel: KK90/5

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

lwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C68-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -59.2 kN

Nb;Rd;y = 289.4 kN

Nb;Rd;z = 289.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.75

Knikcurve: C

Xz = 0.75

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.20 < 1

Buiging & Druk C68-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -59.2 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.038

Kyz = 0.656

Kzy = 0.623

Kzz = 1.093

Ksi;y = 0.75

Ksi;z = 0.75

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.21 < 1

Profielgegevens staaf C69-V1 (0.000-2.110)

KK90/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90.0 mm

A = 1.64e-03 m2

Wy;el = 428.7e-07 m3

Wy;pl = 514.1e-07 m3

b = 90.0 mm

Iy = 192.9e-08 m4

Wz;el = 428.7e-07 m3

Wz;pl = 514.1e-07 m3

tf = 5.0 mm

Iz = 192.9e-08 m4

Aw;y;el = 8.18e-04 m2

Aw;y;pl = 8.18e-04 m2

tw = 5.0 mm

Massa/m = 12.8 kg/m

Aw;z;el = 8.18e-04 m2

Aw;z;pl = 8.18e-04 m2

r = 5.0 mm

It = 307.1e-08 m4

lwa = 348.5e-11 m6

Doorsnedetoetsing C69-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = 31.3 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

MyRd = 12.1 kNm

Vz;Rd = 111.0 kN

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.08 < 1

Kiptoetsing C69-V1 (0.000-2.110)

Equi. profiel: KK90/5

Instab. curve Kip:d

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

lwa = 3.4849e-09 m6

Moederspant as ZZ	Novares Constructeurs	
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C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C70-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3
b = 90.0 mm	Iy = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	Iz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C70-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = -32.3 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm
NEN-EN1993-1-1(6.9): UC = 0.08 < 1		

Kipstoetsing C70-V1 (0.000-2.110)

Equi. profiel: KK90/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.054 m	Iwa = 3.4849e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C70-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24			
N;Ed = -32.3 kN	Nb;Rd;y = 289.4 kN	Nb;Rd;z = 289.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.75		Knikcurve: C	
Xz = 0.75		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.11 < 1			

Buiging & Druk C70-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1
N;Ed = -32.3 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95
Kyy = 0.998	Kyz = 0.630	Kzy = 0.599
Ksi;y = 0.75	Ksi;z = 0.75	Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.12 < 1		
Kzz = 1.051		

Profielgegevens staaf C71-V1 (0.000-2.110)

Moederspant as ZZ	Novares Constructeurs	
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KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C71-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m		Profielklasse = 1
N;Ed = -270.3 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	MyRd = 22.4 kNm
	Vz;Rd = 151.7 kN	MzRd = 22.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.51 < 1		

Kiptoetsing C71-V1 (0.000-2.110)

Equi. profiel: KK120/5			
Maatgevende combinatie: Fu.C.28		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C71-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24			
N;Ed = -270.3 kN	Nb;Rd;y = 448.1 kN	Nb;Rd;z = 448.1 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.85		Knikcurve: C	
Xz = 0.85		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.60 < 1			

Buiging & Druk C71-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1	
N;Ed = -270.3 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.112	Kyz = 0.702	Kzy = 0.667	Kzz = 1.170
Ksi;y = 0.85	Ksi;z = 0.85	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.61 < 1			

Profielgegevens staaf C72-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C72-V1 (0.000-2.110)

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = 269.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.1 kN

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

Vz;Rd = 151.7 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 22.4 kNm

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.51 < 1

Kiptoetsing C72-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

lwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C73-V1 (0.000-2.110)

KK120/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 2.24e-03 m2

Wy;el = 809.1e-07 m3

Wy;pl = 954.5e-07 m3

b = 120.0 mm

Iy = 485.5e-08 m4

Wz;el = 809.1e-07 m3

Wz;pl = 954.5e-07 m3

tf = 5.0 mm

Iz = 485.5e-08 m4

Aw;y;el = 1.12e-03 m2

Aw;y;pl = 1.12e-03 m2

tw = 5.0 mm

Massa/m = 17.5 kg/m

Aw;z;el = 1.12e-03 m2

Aw;z;pl = 1.12e-03 m2

r = 5.0 mm

It = 760.4e-08 m4

lwa = 160.5e-10 m6

Doorsnedetoetsing C73-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = -291.0 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.2 kN

Mz;Ed = 0.0 kNm

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

MyRd = 22.4 kNm

Vz;Rd = 151.7 kN

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.55 < 1

Kiptoetsing C73-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

lwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C73-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -291.0 kN

Nb;Rd;y = 448.1 kN

Nb;Rd;z = 448.1 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Moederspant as ZZ	Novares Constructeurs	
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Xy = 0.85
Xz = 0.85
NEN-EN1993-1-1(6.46): UC = 0.65 < 1

Knikcurve: C
Knikcurve: C

Buiging & Druk C73-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -291.0 kN
My;Ed = 0.1 kNm
Delta;My;Ed = 0.0 kNm
My = 0.0 kNm
Mz = 0.0 kNm
Cmy = 0.95
Kyy = 1.124
Ksi;y = 0.85
NEN-EN1993-1-1(6.61&6.62): UC = 0.65 < 1

Profielklasse = 1
Mz;Ed = 0.0 kNm
Delta;Mz;Ed = 0.0 kNm
My;s = 0.1 kNm
Mz;s = 0.0 kNm
CmLT = 0.95
Kzy = 0.674
Ksi;LT = 1.00
Kzz = 1.183

Profielgegevens staaf C74-V1 (0.000-2.110)

KK120/5
Analyse
h = 120.0 mm
b = 120.0 mm
tf = 5.0 mm
tw = 5.0 mm
r = 5.0 mm
A = 2.24e-03 m2
Iy = 485.5e-08 m4
Iz = 485.5e-08 m4
Massa/m = 17.5 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 809.1e-07 m3
Wz;el = 809.1e-07 m3
Aw;y;el = 1.12e-03 m2
Aw;z;el = 1.12e-03 m2
It = 760.4e-08 m4
Wy;pl = 954.5e-07 m3
Wz;pl = 954.5e-07 m3
Aw;y;pl = 1.12e-03 m2
Aw;z;pl = 1.12e-03 m2
Iwa = 160.5e-10 m6

Doorsnedetoetsing C74-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = 293.7 kN
Vy;Ed = 0.0 kN
Vz;Ed = -0.1 kN
N;Rd = 525.4 kN
Vy;Rd = 151.7 kN
Vz;Rd = 151.7 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 22.4 kNm
MzRd = 22.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.56 < 1

Kiptoetsing C74-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund
Tabel gebruikt NB 6.2
Bovenflens maatgevend
Lsys = 2.110 m
C1 = 1.13
Mcr = 0.0 kNm
Chi;LT(Fu.C.28) = 1.00
Chi;LT,Z = 1.00
My;begin = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Beperk. eind: Gesteund
q = 0.1kN/m
Xb;lst = 0.000 m
Lg = 2.110 m
C2 = 0.45 (tabel)
kred = 1.0
M;Ed = 0.1 kNm
Ikip = 2.110 m
My;eind = 0.0 kNm

Instab. curve Kip:d

b-eff(Begin) = 0.000
= 0.0
Xe;lst = 2.110 m
S = 0.074 m
C2(toegepast) = 0.00
Lam-rel = 0.00
b-eff(Eind) = 0.000
lst = 2.110 m
Iwa = 1.6051e-08 m6
C = 0.00
Profielklasse 1
UC(y) = 0.00
UC(z) = 0.00

Profielgegevens staaf C75-V1 (0.000-2.110)

KK120/8
Analyse
h = 120.0 mm
b = 120.0 mm
tf = 8.0 mm
tw = 8.0 mm
r = 12.0 mm
A = 3.31e-03 m2
Iy = 656.2e-08 m4
Iz = 656.2e-08 m4
Massa/m = 26.0 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 109.4e-06 m3
Wz;el = 109.4e-06 m3
Aw;y;el = 1.65e-03 m2
Aw;z;el = 1.65e-03 m2
It = 112.4e-07 m4
Wy;pl = 134.4e-06 m3
Wz;pl = 134.4e-06 m3
Aw;y;pl = 1.65e-03 m2
Aw;z;pl = 1.65e-03 m2
Iwa = 205.8e-10 m6

Doorsnedetoetsing C75-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = -602.5 kN
Vy;Ed = 0.0 kN
Vz;Ed = -0.3 kN
N;Rd = 777.7 kN
Vy;Rd = 224.5 kN

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 31.6 kNm

Moederspant as ZZ	Novares Constructeurs	
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Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.77 < 1

Kiptoetsing C75-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C75-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -602.6 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.92 < 1

Buiging & Druk C75-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -602.6 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.217

Kyz = 0.768

Kzy = 0.730

Kzz = 1.281

Ksi;y = 0.84

Ksi;z = 0.84

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.93 < 1

Profielgegevens staaf C76-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C76-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = 607.5 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.78 < 1

Kiptoetsing C76-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Moederspant as ZZ	Novares Constructeurs	
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Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Tabel gebruikt NB 6.2

Bovenflens maatgevend

Lsys = 2.110 m

C1 = 1.13

Mcr = 0.0 kNm

Chi;LT(Fu.C.28) = 1.00

Chi;LT,Z = 1.00

My;begin = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Beperk. eind: Gesteund

q = 0.2kN/m

Xb;lst = 0.000 m

Lg = 2.110 m

C2 = 0.45 (tabel)

kred = 1.0

M;Ed = 0.1 kNm

Ikip = 2.110 m

My;eind = 0.0 kNm

b-eff(Begin) = 0.000

= 0.0

Xe;lst = 2.110 m

S = 0.069 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

Ist = 2.110 m

Iwa = 2.0580e-08 m6

C = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Profielgegevens staaf C77-V1 (0.000-2.110)

KK120/8

h = 120.0 mm

b = 120.0 mm

tf = 8.0 mm

tw = 8.0 mm

r = 12.0 mm

Analyse

A = 3.31e-03 m2

Iy = 656.2e-08 m4

Iz = 656.2e-08 m4

Massa/m = 26.0 kg/m

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 109.4e-06 m3

Wz;el = 109.4e-06 m3

Aw;y;el = 1.65e-03 m2

Aw;z;el = 1.65e-03 m2

It = 112.4e-07 m4

Wy;pl = 134.4e-06 m3

Wz;pl = 134.4e-06 m3

Aw;y;pl = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

Iwa = 205.8e-10 m6

Doorsnedetoetsing C77-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = -626.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.3 kN

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

Vz;Rd = 224.5 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 31.6 kNm

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.81 < 1

Kiptoetsing C77-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Tabel gebruikt NB 6.2

Bovenflens maatgevend

Lsys = 2.110 m

C1 = 1.13

Mcr = 0.0 kNm

Chi;LT(Fu.C.28) = 1.00

Chi;LT,Z = 1.00

My;begin = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Beperk. eind: Gesteund

q = 0.2kN/m

Xb;lst = 0.000 m

Lg = 2.110 m

C2 = 0.45 (tabel)

kred = 1.0

M;Ed = 0.1 kNm

Ikip = 2.110 m

My;eind = 0.0 kNm

b-eff(Begin) = 0.000

= 0.0

Xe;lst = 2.110 m

S = 0.069 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

Ist = 2.110 m

Iwa = 2.0580e-08 m6

C = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Stabiliteitstoetsing C77-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -626.2 kN

Methode Y = Cons. gesch.

Methode Z = Cons. gesch.

Xy = 0.84

Xz = 0.84

NEN-EN1993-1-1(6.46): UC = 0.96 < 1

Nb;Rd;y = 653.6 kN

Ca(y) = 0.000

Ca(z) = N/B

Nb;Rd;z = 653.6 kN

Cb(y) = 0.000

Cb(z) = N/B

Knikcurve: C

Knikcurve: C

Lknik Y = 2.110 m

Lknik Z = 2.110 m

Buiging & Druk C77-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -626.2 kN

My = 0.0 kNm

Mz = 0.0 kNm

Cmy = 0.95

Kyy = 1.227

My;Ed = 0.1 kNm

Delta;My;Ed = 0.0 kNm

My;Psi = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmz = 1.00

Kyz = 0.775

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.1 kNm

Mz;s = 0.0 kNm

CmLT = 0.95

Kzy = 0.736

Kzz = 1.292

Moederspant as ZZ	Novares Constructeurs	
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Ksi;y = 0.84

Ksi;z = 0.84

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.96 < 1

Profielgegevens staaf C78-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C78-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = 631.5 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.81 < 1

Kiptoetsing C78-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C79-V1 (0.000-7.300)

HE260B

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 260.0 mm

A = 11.84e-03 m2

Wy;el = 114.8e-05 m3

Wy;pl = 128.3e-05 m3

b = 260.0 mm

Iy = 149.2e-06 m4

Wz;el = 395.0e-06 m3

Wz;pl = 602.2e-06 m3

tf = 17.5 mm

Iz = 513.5e-07 m4

Aw;y;el = 9.59e-03 m2

Aw;y;pl = 9.59e-03 m2

tw = 10.0 mm

Massa/m = 93.0 kg/m

Aw;z;el = 3.76e-03 m2

Aw;z;pl = 3.76e-03 m2

r = 24.0 mm

It = 123.8e-08 m4

Iwa = 753.7e-09 m6

Doorsnedetoetsing C79-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = -1,180.6 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 3.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 2,783.4 kN

Vy;Rd = 1,301.7 kN

MyRd = 301.5 kNm

Vz;Rd = 510.1 kN

MzRd = 141.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.42 < 1

Kiptoetsing C79-V1 (0.000-7.300)

Equi. profiel: HE260B

Maatgevende combinatie: Fu.C.24

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.002

b-eff(Eind) = 0.000

Tabel gebruikt Fig. NB.32

M = 15.9kN/m

MBeta = 0.0

q = 0.4

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.300 m

Ist = 7.300 m

Moederspant as ZZ	Novares Constructeurs	
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Lsys = 7.300 m	Lg = 7.300 m	S = 1.258 m	Iwa = 7.5365e-07 m6
C1 = 1.49	C2 = 0.09 (tabel)	C2(toegepast) = 0.00	C = 5.31
Mcr = 755.0 kNm	kred = 1.0	Lam-rel = 0.63	Profielklasse 1
Chi;LT(Fu.C.24) = 0.88	M;Ed = 15.9 kNm		UC(y) = 0.06
Chi;LT,Z = 1.00	Ikip = 7.300 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 15.9 kNm		
NEN-EN1993-1-1(6.54): UC = 0.06 < 1			

Stabiliteitstoetsing C79-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24			
N;Ed = -1,180.6 kN	Nb;Rd;y = 2,193.0 kN	Nb;Rd;z = 1,233.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 7.300 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 7.300 m
Xy = 0.79		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.96 < 1			

Buiging & Druk C79-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24			
N;Ed = -1,180.6 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 15.9 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 15.9 kNm	My;Psi = 0.0 kNm	My;s = 10.3 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.72	Cmz = 1.00	CmLT = 0.72	
Kyy = 0.909	Kyz = 1.404	Kzy = 0.796	Kzz = 2.340
Ksi;y = 0.79	Ksi;z = 0.44	Ksi;LT = 0.88	
NEN-EN1993-1-1(6.61&6.62): UC = 1.00 > 1			

Profielgegevens staaf C80-V1 (0.000-1.700)

HE260B	Analyse	Staal S235	f _{yd} (toegepast) = 235 N/mm2
h = 260.0 mm	A = 11.84e-03 m2	Wy;el = 114.8e-05 m3	Wy;pl = 128.3e-05 m3
b = 260.0 mm	Iy = 149.2e-06 m4	Wz;el = 395.0e-06 m3	Wz;pl = 602.2e-06 m3
tf = 17.5 mm	Iz = 513.5e-07 m4	Aw;y;el = 9.59e-03 m2	Aw;y;pl = 9.59e-03 m2
tw = 10.0 mm	Massa/m = 93.0 kg/m	Aw;z;el = 3.76e-03 m2	Aw;z;pl = 3.76e-03 m2
r = 24.0 mm		It = 123.8e-08 m4	Iwa = 753.7e-09 m6

Doorsnedetoetsing C80-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24 op 0.000 m			
N;Ed = -1,180.0 kN	Vy;Ed = 0.0 kN	Profielklasse = 1	
	Vz;Ed = -9.1 kN	My;Ed = 15.9 kNm	
N;Rd = 2,783.4 kN	Vy;Rd = 1,301.7 kN	Mz;Ed = 0.0 kNm	
	Vz;Rd = 510.1 kN	MyRd = 301.5 kNm	
		MzRd = 141.5 kNm	
NEN-EN1993-1-1(6.9): UC = 0.42 < 1			

Kiptoetsing C80-V1 (0.000-1.700)

Equi. profiel: HE260B			
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.002	b-eff(Eind) = 0.002
Tabel gebruikt Fig. NB.32	M = 9.3kN/m	MBeta = 0.0	q = 0.1
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.700 m	lst = 1.700 m
Lsys = 1.700 m	Lg = 1.700 m	S = 1.258 m	Iwa = 7.5365e-07 m6
C1 = 1.79	C2 = 0.00 (tabel)	C2(toegepast) = 0.00	C = 14.26
Mcr = 8,710.6 kNm	kred = 1.0	Lam-rel = 0.20	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 9.3 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.700 m		UC(z) = 0.00
My;begin = 9.3 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm Lambda;LT <= 0.4			

Moederspant as ZZ	Novares Constructeurs	
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Stabiliteitstoetsing C80-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24

N;Ed = -1,180.0 kN	Nb;Rd;y = 2,783.4 kN	Nb;Rd;z = 2,677.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.700 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.700 m
Xy = 1.00		Knikkurve: B	
Xz = 0.96		Knikkurve: C	
NEN-EN1993-1-1(6.46): UC = 0.44 < 1			

Buiging & Druk C80-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24

N;Ed = -1,180.0 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 9.3 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 15.9 kNm	My;Psi = 0.0 kNm	My;s = 8.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.61	Cmz = 1.00	CmLT = 0.61	
Kyy = 0.595	Kyz = 0.587	Kzy = 0.875	Kzz = 0.978
Ksi;y = 1.00	Ksi;z = 0.96	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.49 < 1			

Profielgegevens staaf C81-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C81-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 511.5 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 0.2 kN	My;Ed = 0.0 kNm
		Mz;Ed = 0.0 kNm
N;Rd = 777.7 kN	Vy;Rd = 224.5 kN	MyRd = 31.6 kNm
	Vz;Rd = 224.5 kN	MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.66 < 1

Kiptoetsing C81-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.069 m	Iwa = 2.0580e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C82-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C82-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -506.9 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.2 kN

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

Vz;Rd = 224.5 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 31.6 kNm

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.65 < 1

Kiptoetsing C82-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C82-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -506.9 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.78 < 1

Buiging & Druk C82-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -506.9 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.174

Kyz = 0.742

Kzy = 0.705

Kzz = 1.236

Ksi;y = 0.84

Ksi;z = 0.84

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.78 < 1

Profielgegevens staaf C83-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C83-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 488.5 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

Vz;Ed = 0.1 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.63 < 1

Moederspant as ZZ	Novares Constructeurs	
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Kiptoetsing C83-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

lwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C84-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

lwa = 205.8e-10 m6

Doorsnedetoetsing C84-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = -483.8 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.3 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.62 < 1

Kiptoetsing C84-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

lwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C84-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -483.8 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.74 < 1

Buiging & Druk C84-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

Profielklasse = 1

Moederspant as ZZ	Novares Constructeurs	
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N;Ed = -483.8 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.164	Kyz = 0.735	Kzy = 0.698	Kzz = 1.225
Ksi;y = 0.84	Ksi;z = 0.84	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.74 < 1			

Profielgegevens staaf C85-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3
b = 90.0 mm	Iy = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	Iz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C85-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = 174.0 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm
NEN-EN1993-1-1(6.5): UC = 0.45 < 1		

Kiptoetsing C85-V1 (0.000-2.110)

Equi. profiel: KK90/5			
Maatgevende combinatie: Fu.C.28		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.054 m	Iwa = 3.4849e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C86-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3
b = 90.0 mm	Iy = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	Iz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C86-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = -170.4 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm
NEN-EN1993-1-1(6.9): UC = 0.44 < 1		

Kiptoetsing C86-V1 (0.000-2.110)

Equi. profiel: KK90/5	
Maatgevende combinatie: Fu.C.28	Instab. curve Kip:d

Moederspant as ZZ	Novares Constructeurs	
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Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C86-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -170.4 kN

Nb;Rd;y = 289.4 kN

Nb;Rd;z = 289.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.75

Knikcurve: C

Xz = 0.75

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.59 < 1

Buiging & Druk C86-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -170.4 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.204

Kyz = 0.760

Kzy = 0.722

Kzz = 1.267

Ksi;y = 0.75

Ksi;z = 0.75

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.59 < 1

Profielgegevens staaf C87-V1 (0.000-2.110)

KK90/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90.0 mm

A = 1.64e-03 m2

Wy;el = 428.7e-07 m3

Wy;pl = 514.1e-07 m3

b = 90.0 mm

Iy = 192.9e-08 m4

Wz;el = 428.7e-07 m3

Wz;pl = 514.1e-07 m3

tf = 5.0 mm

Iz = 192.9e-08 m4

Aw;y;el = 8.18e-04 m2

Aw;y;pl = 8.18e-04 m2

tw = 5.0 mm

Massa/m = 12.8 kg/m

Aw;z;el = 8.18e-04 m2

Aw;z;pl = 8.18e-04 m2

r = 5.0 mm

It = 307.1e-08 m4

Iwa = 348.5e-11 m6

Doorsnedetoetsing C87-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 147.6 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

Vz;Ed = 0.1 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

MyRd = 12.1 kNm

Vz;Rd = 111.0 kN

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.38 < 1

Kiptoetsing C87-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Moederspant as ZZ	Novares Constructeurs	
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Mcr = 0.0 kNm
 Ch;LT(Fu.C.28) = 1.00
 Ch;LT,Z = 1.00
 My;begin = 0.0 kNm
 NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

kred = 1.0
 M;Ed = 0.0 kNm
 lkip = 2.110 m
 My;eind = 0.0 kNm

Lam-rel = 0.00
 Profielklasse 1
 UC(y) = 0.00
 UC(z) = 0.00

Profielgegevens staaf C88-V1 (0.000-2.110)

KK90/5
 h = 90.0 mm
 b = 90.0 mm
 tf = 5.0 mm
 tw = 5.0 mm
 r = 5.0 mm

Analyse
 A = 1.64e-03 m²
 Iy = 192.9e-08 m⁴
 Iz = 192.9e-08 m⁴
 Massa/m = 12.8 kg/m

Staal S235H(EN10219-1)
 Wy;el = 428.7e-07 m³
 Wz;el = 428.7e-07 m³
 Aw;y;el = 8.18e-04 m²
 Aw;z;el = 8.18e-04 m²
 It = 307.1e-08 m⁴

fya(toegepast) = 235 N/mm²
 Wy;pl = 514.1e-07 m³
 Wz;pl = 514.1e-07 m³
 Aw;y;pl = 8.18e-04 m²
 Aw;z;pl = 8.18e-04 m²
 Iwa = 348.5e-11 m⁶

Doorsnedetoetsing C88-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m
 N;Ed = -148.0 kN
 N;Rd = 384.4 kN
 NEN-EN1993-1-1(6.9): UC = 0.39 < 1

Vy;Ed = 0.0 kN
 Vz;Ed = 0.1 kN
 Vy;Rd = 111.0 kN
 Vz;Rd = 111.0 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 12.1 kNm
 MzRd = 12.1 kNm

Kiptoetsing C88-V1 (0.000-2.110)

Equi. profiel: KK90/5
 Maatgevende combinatie: Fu.C.28
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inklem. begin: Gesteund
 Tabel gebruikt NB 6.2
 Bovenflens maatgevend
 Lsys = 2.110 m
 C1 = 1.13
 Mcr = 0.0 kNm
 Ch;LT(Fu.C.28) = 1.00
 Ch;LT,Z = 1.00
 My;begin = 0.0 kNm
 NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Beperk. eind: Gesteund
 q = 0.1kN/m
 Xb;lst = 0.000 m
 Lg = 2.110 m
 C2 = 0.45 (tabel)
 kred = 1.0
 M;Ed = 0.1 kNm
 lkip = 2.110 m
 My;eind = 0.0 kNm

b-eff(Begin) = 0.000
 = 0.0
 Xe;lst = 2.110 m
 S = 0.054 m
 C2(toegepast) = 0.00
 Lam-rel = 0.00

b-eff(Eind) = 0.000
 Ist = 2.110 m
 Iwa = 3.4849e-09 m⁶
 C = 0.00
 Profielklasse 1
 UC(y) = 0.00
 UC(z) = 0.00

Stabiliteitstoetsing C88-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24
 N;Ed = -148.0 kN
 Methode Y = Cons. gesch.
 Methode Z = Cons. gesch.
 Xy = 0.75
 Xz = 0.75
 NEN-EN1993-1-1(6.46): UC = 0.51 < 1

Nb;Rd;y = 289.4 kN
 Ca(y) = 0.000
 Ca(z) = N/B

Nb;Rd;z = 289.4 kN
 Cb(y) = 0.000
 Cb(z) = N/B
 Knikcurve: C
 Knikcurve: C

Lknik Y = 2.110 m
 Lknik Z = 2.110 m

Buiging & Druk C88-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24
 N;Ed = -148.0 kN
 My = 0.0 kNm
 Mz = 0.0 kNm
 Cmy = 0.95
 Kyy = 1.171
 Ksi;y = 0.75
 NEN-EN1993-1-1(6.61&6.62): UC = 0.52 < 1

My;Ed = 0.1 kNm
 Delta;My;Ed = 0.0 kNm
 My;Psi = 0.0 kNm
 Mz;Psi = 0.0 kNm
 Cmz = 1.00
 Kyz = 0.739
 Ksi;z = 0.75

Profielklasse = 1
 Mz;Ed = 0.0 kNm
 Delta;Mz;Ed = 0.0 kNm
 My;s = 0.1 kNm
 Mz;s = 0.0 kNm
 CmLT = 0.95
 Kzy = 0.702
 Ksi;LT = 1.00

Kzz = 1.232

Profielgegevens staaf C89-V1 (0.000-2.110)

KK90/5
 Analyse
 Staal S235H(EN10219-1)
 fya(toegepast) = 235 N/mm²

Moederspant as ZZ	Novares Constructeurs	
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h = 90.0 mm	A = 1.64e-03 m ²	Wy;el = 428.7e-07 m ³	Wy;pl = 514.1e-07 m ³
b = 90.0 mm	Iy = 192.9e-08 m ⁴	Wz;el = 428.7e-07 m ³	Wz;pl = 514.1e-07 m ³
tf = 5.0 mm	Iz = 192.9e-08 m ⁴	Aw;y;el = 8.18e-04 m ²	Aw;y;pl = 8.18e-04 m ²
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m ²	Aw;z;pl = 8.18e-04 m ²
r = 5.0 mm		It = 307.1e-08 m ⁴	Iwa = 348.5e-11 m ⁶

Doorsnedetoetsing C89-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = -148.6 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.39 < 1

Kiptoetsing C89-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.054 m	Iwa = 3.4849e-09 m ⁶
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C89-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -148.6 kN	Nb;Rd;y = 289.4 kN	Nb;Rd;z = 289.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.75		Knikcurve: C	
Xz = 0.75		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0.51 < 1

Buiging & Druk C89-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -148.6 kN	My;Ed = 0.1 kNm	Delta;My;Ed = 0.0 kNm	Profielklasse = 1
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.172	Kyz = 0.740	Kzy = 0.703	Kzz = 1.233
Ksi;y = 0.75	Ksi;z = 0.75	Ksi;LT = 1.00	

NEN-EN1993-1-1(6.61&6.62): UC = 0.52 < 1

Profielgegevens staaf C90-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 90.0 mm	A = 1.64e-03 m ²	Wy;el = 428.7e-07 m ³	Wy;pl = 514.1e-07 m ³
b = 90.0 mm	Iy = 192.9e-08 m ⁴	Wz;el = 428.7e-07 m ³	Wz;pl = 514.1e-07 m ³
tf = 5.0 mm	Iz = 192.9e-08 m ⁴	Aw;y;el = 8.18e-04 m ²	Aw;y;pl = 8.18e-04 m ²
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m ²	Aw;z;pl = 8.18e-04 m ²
r = 5.0 mm		It = 307.1e-08 m ⁴	Iwa = 348.5e-11 m ⁶

Doorsnedetoetsing C90-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

Moederspant as ZZ	Novares Constructeurs	
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N;Ed = 148.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.39 < 1

Kiptoetsing C90-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.054 m	Iwa = 3.4849e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C91-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3
b = 90.0 mm	Iy = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	Iz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C91-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = -170.9 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN	MyRd = 12.1 kNm
	Vz;Rd = 111.0 kN	MzRd = 12.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.44 < 1

Kiptoetsing C91-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.054 m	Iwa = 3.4849e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C91-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -171.0 kN	Nb;Rd;y = 289.4 kN	Nb;Rd;z = 289.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.75		Knikcurve: C	

Moederspant as ZZ	Novares Constructeurs	
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Xz = 0.75
NEN-EN1993-1-1(6.46): UC = 0.59 < 1

Knikcurve: C

Buiging & Druk C91-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -171.0 kN

My;Ed = 0.1 kNm

Delta;My;Ed = 0.0 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.205

Kyz = 0.761

Kzy = 0.723

Kzz = 1.268

Ksi;y = 0.75

Ksi;z = 0.75

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.60 < 1

Profielgegevens staaf C92-V1 (0.000-2.110)

KK90/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90.0 mm

A = 1.64e-03 m2

Wy;el = 428.7e-07 m3

Wy;pl = 514.1e-07 m3

b = 90.0 mm

Iy = 192.9e-08 m4

Wz;el = 428.7e-07 m3

Wz;pl = 514.1e-07 m3

tf = 5.0 mm

Iz = 192.9e-08 m4

Aw;y;el = 8.18e-04 m2

Aw;y;pl = 8.18e-04 m2

tw = 5.0 mm

Massa/m = 12.8 kg/m

Aw;z;el = 8.18e-04 m2

Aw;z;pl = 8.18e-04 m2

r = 5.0 mm

It = 307.1e-08 m4

Iwa = 348.5e-11 m6

Doorsnedetoetsing C92-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = 174.5 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

MyRd = 12.1 kNm

Vz;Rd = 111.0 kN

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.45 < 1

Kiptoetsing C92-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1 kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C93-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C93-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = -484.3 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.2 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

Moederspant as ZZ	Novares Constructeurs	
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NEN-EN1993-1-1(6.9): UC = 0.62 < 1

Kiptoetsing C93-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C93-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -484.4 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.74 < 1

Buiging & Druk C93-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

Profielklasse = 1

N;Ed = -484.4 kN

My;Ed = 0.1 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.164

Kyz = 0.735

Kzy = 0.699

Kzz = 1.226

Ksi;y = 0.84

Ksi;z = 0.84

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.75 < 1

Profielgegevens staaf C94-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C94-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = 489.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.63 < 1

Kiptoetsing C94-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Moederspant as ZZ	Novares Constructeurs	
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Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.069 m	Iwa = 2.0580e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C95-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C95-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m		Profielklasse = 1
N;Ed = -507.5 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.2 kN	Mz;Ed = 0.0 kNm
N;Rd = 777.7 kN	Vy;Rd = 224.5 kN	MyRd = 31.6 kNm
	Vz;Rd = 224.5 kN	MzRd = 31.6 kNm
NEN-EN1993-1-1(6.9): UC = 0.65 < 1		

Kiptoetsing C95-V1 (0.000-2.110)

Equi. profiel: KK120/8	
Maatgevende combinatie: Fu.C.28	Instab. curve Kip:d
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.069 m	Iwa = 2.0580e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C95-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24			
N;Ed = -507.5 kN	Nb;Rd;y = 653.6 kN	Nb;Rd;z = 653.6 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.84		Knikcurve: C	
Xz = 0.84		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.78 < 1			

Buiging & Druk C95-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1
N;Ed = -507.5 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95
Kyy = 1.175	Kyz = 0.742	Kzy = 0.705
Ksi;y = 0.84	Ksi;z = 0.84	Kzz = 1.237
		Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.78 < 1

Profielgegevens staaf C96-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C96-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m	Profielklasse = 1
N;Ed = 512.1 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.1 kN
N;Rd = 777.7 kN	Vy;Rd = 224.5 kN
	Vz;Rd = 224.5 kN
	Mz;Ed = 0.0 kNm
	My;Ed = 0.0 kNm
	MyRd = 31.6 kNm
	MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.66 < 1

Kiptoetsing C96-V1 (0.000-2.110)

Equi. profiel: KK120/8			
Maatgevende combinatie: Fu.C.28		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	Ist = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.069 m	Iwa = 2.0580e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C97-V1 (0.000-7.300)

HE260B	Analyse	Staal S235	fyd(toegepast) = 235 N/mm2
h = 260.0 mm	A = 11.84e-03 m2	Wy;el = 114.8e-05 m3	Wy;pl = 128.3e-05 m3
b = 260.0 mm	Iy = 149.2e-06 m4	Wz;el = 395.0e-06 m3	Wz;pl = 602.2e-06 m3
tf = 17.5 mm	Iz = 513.5e-07 m4	Aw;y;el = 9.59e-03 m2	Aw;y;pl = 9.59e-03 m2
tw = 10.0 mm	Massa/m = 93.0 kg/m	Aw;z;el = 3.76e-03 m2	Aw;z;pl = 3.76e-03 m2
r = 24.0 mm		It = 123.8e-08 m4	Iwa = 753.7e-09 m6

Doorsnedetoetsing C97-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24 op 0.000 m	Profielklasse = 1
N;Ed = -1,180.7 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -1.3 kN
N;Rd = 2,783.4 kN	Vy;Rd = 1,301.7 kN
	Vz;Rd = 510.1 kN
	Mz;Ed = 0.0 kNm
	My;Ed = 0.0 kNm
	MyRd = 301.5 kNm
	MzRd = 141.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.42 < 1

Kiptoetsing C97-V1 (0.000-7.300)

Equi. profiel: HE260B			
Maatgevende combinatie: Fu.C.24		Instab. curve Kip:a	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.000
Tabel gebruikt Fig. NB.32	M = -6.9kN/m	MBeta = 0.0	q = 0.2
Onderflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 7.300 m	Ist = 7.300 m
Lsys = 7.300 m	Lg = 7.300 m	S = 1.258 m	Iwa = 7.5365e-07 m6

Moederspant as ZZ	Novares Constructeurs	
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C1 = 1.49	C2 = 0.09 (tabel)	C2(toegepast) = 0.00	C = 5.31
Mcr = 755.7 kNm	kred = 1.0	Lam-rel = 0.63	Profielklasse 1
Chi;LT(Fu.C.24) = 0.88	M;Ed = 6.9 kNm		UC(y) = 0.03
Chi;LT,Z = 1.00	Ikip = 7.300 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = -6.9 kNm		
NEN-EN1993-1-1(6.54): UC = 0.03 < 1			

Stabiliteitstoetsing C97-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

N;Ed = -1,180.7 kN	Nb;Rd;y = 2,193.0 kN	Nb;Rd;z = 1,233.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 7.300 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 7.300 m
Xy = 0.79		Knikcurve: B	
Xz = 0.44		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.96 < 1			

Buiging & Druk C97-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

N;Ed = -1,180.7 kN	Kipgevoelig Ja	Profielklasse = 1	
	My;Ed = 6.9 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = -6.9 kNm	My;Psi = 0.0 kNm	My;s = -4.5 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.72	Cmz = 1.00	CmLT = 0.72	
Kyy = 0.908	Kyz = 1.404	Kzy = 0.795	Kzz = 2.340
Ksi;y = 0.79	Ksi;z = 0.44	Ksi;LT = 0.88	
NEN-EN1993-1-1(6.61&6.62): UC = 0.98 < 1			

Profielgegevens staaf C98-V1 (0.000-1.700)

HE260B	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 260.0 mm	A = 11.84e-03 m2	Wy;el = 114.8e-05 m3	Wy;pl = 128.3e-05 m3
b = 260.0 mm	Iy = 149.2e-06 m4	Wz;el = 395.0e-06 m3	Wz;pl = 602.2e-06 m3
tf = 17.5 mm	Iz = 513.5e-07 m4	Aw;y;el = 9.59e-03 m2	Aw;y;pl = 9.59e-03 m2
tw = 10.0 mm	Massa/m = 93.0 kg/m	Aw;z;el = 3.76e-03 m2	Aw;z;pl = 3.76e-03 m2
r = 24.0 mm		It = 123.8e-08 m4	Iwa = 753.7e-09 m6

Doorsnedetoetsing C98-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -1,180.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1
	Vz;Ed = 4.0 kN	My;Ed = -6.9 kNm
N;Rd = 2,783.4 kN	Vy;Rd = 1,301.7 kN	Mz;Ed = 0.0 kNm
	Vz;Rd = 510.1 kN	MyRd = 301.5 kNm
		MzRd = 141.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.42 < 1

Kiptoetsing C98-V1 (0.000-1.700)

Equi. profiel: HE260B

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt Fig. NB.32	M = -4.1kN/m	MBeta = 0.0	q = 0.0
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 1.700 m	Ist = 1.700 m
Lsys = 1.700 m	Lg = 1.700 m	S = 1.258 m	Iwa = 7.5365e-07 m6
C1 = 1.79	C2 = 0.00 (tabel)	C2(toegepast) = 0.00	C = 14.26
Mcr = 8,711.0 kNm	kred = 1.0	Lam-rel = 0.20	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 1.700 m		UC(z) = 0.00
My;begin = -4.1 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip NVT, i.v.m. geen buiging			

Stabiliteitstoetsing C98-V1 (0.000-1.700)

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.24

N;Ed = -1,180.1 kN	Nb;Rd;y = 2,783.4 kN	Nb;Rd;z = 2,677.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 1.700 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1.700 m
Xy = 1.00		Knikcurve: B	
Xz = 0.96		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.44 < 1			

Buiging & Druk C98-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24	Kipgevoelig Ja	Profielklasse = 1	
N;Ed = -1,180.1 kN	My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = -6.9 kNm	My;Psi = 0.0 kNm	My;s = -3.5 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.61	Cmz = 1.00	CmLT = 0.61	
Kyy = 0.595	Kyz = 0.587	Kzy = 0.875	Kzz = 0.978
Ksi;y = 1.00	Ksi;z = 0.96	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.46 < 1			

Profielgegevens staaf C99-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C99-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = 631.1 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 777.7 kN	Vy;Rd = 224.5 kN	MyRd = 31.6 kNm
	Vz;Rd = 224.5 kN	MzRd = 31.6 kNm
NEN-EN1993-1-1(6.5): UC = 0.81 < 1		

Kiptoetsing C99-V1 (0.000-2.110)

Equi. profiel: KK120/8		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.069 m	Iwa = 2.0580e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C100-V1 (0.000-2.110)

KK120/8	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 3.31e-03 m2	Wy;el = 109.4e-06 m3	Wy;pl = 134.4e-06 m3
b = 120.0 mm	Iy = 656.2e-08 m4	Wz;el = 109.4e-06 m3	Wz;pl = 134.4e-06 m3
tf = 8.0 mm	Iz = 656.2e-08 m4	Aw;y;el = 1.65e-03 m2	Aw;y;pl = 1.65e-03 m2
tw = 8.0 mm	Massa/m = 26.0 kg/m	Aw;z;el = 1.65e-03 m2	Aw;z;pl = 1.65e-03 m2
r = 12.0 mm		It = 112.4e-07 m4	Iwa = 205.8e-10 m6

Doorsnedetoetsing C100-V1 (0.000-2.110)

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -625.7 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.3 kN

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

Vz;Rd = 224.5 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 31.6 kNm

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.80 < 1

Kiptoetsing C100-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C100-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -625.7 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.96 < 1

Buiging & Druk C100-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -625.7 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.227

Kyz = 0.775

Kzy = 0.736

Kzz = 1.292

Ksi;y = 0.84

Ksi;z = 0.84

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.96 < 1

Profielgegevens staaf C101-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C101-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = 607.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.5): UC = 0.78 < 1

Moederspant as ZZ	Novares Constructeurs	
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Kiptoetsing C101-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C102-V1 (0.000-2.110)

KK120/8

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 3.31e-03 m2

Wy;el = 109.4e-06 m3

Wy;pl = 134.4e-06 m3

b = 120.0 mm

Iy = 656.2e-08 m4

Wz;el = 109.4e-06 m3

Wz;pl = 134.4e-06 m3

tf = 8.0 mm

Iz = 656.2e-08 m4

Aw;y;el = 1.65e-03 m2

Aw;y;pl = 1.65e-03 m2

tw = 8.0 mm

Massa/m = 26.0 kg/m

Aw;z;el = 1.65e-03 m2

Aw;z;pl = 1.65e-03 m2

r = 12.0 mm

It = 112.4e-07 m4

Iwa = 205.8e-10 m6

Doorsnedetoetsing C102-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = -602.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.3 kN

Mz;Ed = 0.0 kNm

N;Rd = 777.7 kN

Vy;Rd = 224.5 kN

MyRd = 31.6 kNm

Vz;Rd = 224.5 kN

MzRd = 31.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.77 < 1

Kiptoetsing C102-V1 (0.000-2.110)

Equi. profiel: KK120/8

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.069 m

Iwa = 2.0580e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C102-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -602.1 kN

Nb;Rd;y = 653.6 kN

Nb;Rd;z = 653.6 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.84

Knikcurve: C

Xz = 0.84

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.92 < 1

Buiging & Druk C102-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

Profielklasse = 1

N;Ed = -602.1 kN

My;Ed = 0.1 kNm

Mz;Ed = 0.0 kNm

Moederspant as ZZ	Novares Constructeurs	
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	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.217	Kyz = 0.768	Kzy = 0.730	Kzz = 1.281
Ksi;y = 0.84	Ksi;z = 0.84	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.93 < 1			

Profielgegevens staaf C103-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C103-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = 293.3 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.1 kN	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	MyRd = 22.4 kNm
	Vz;Rd = 151.7 kN	MzRd = 22.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.56 < 1

Kiptoetsing C103-V1 (0.000-2.110)

Equi. profiel: KK120/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C104-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C104-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m		Profielklasse = 1
N;Ed = -290.5 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.2 kN	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	MyRd = 22.4 kNm
	Vz;Rd = 151.7 kN	MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.55 < 1

Kiptoetsing C104-V1 (0.000-2.110)

Equi. profiel: KK120/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			

Moederspant as ZZ	Novares Constructeurs	
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Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C104-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -290.5 kN

Nb;Rd;y = 448.1 kN

Nb;Rd;z = 448.1 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.85

Knikcurve: C

Xz = 0.85

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.65 < 1

Buiging & Druk C104-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -290.5 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.124

Kyz = 0.710

Kzy = 0.674

Kzz = 1.183

Ksi;y = 0.85

Ksi;z = 0.85

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.65 < 1

Profielgegevens staaf C105-V1 (0.000-2.110)

KK120/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 120.0 mm

A = 2.24e-03 m2

Wy;el = 809.1e-07 m3

Wy;pl = 954.5e-07 m3

b = 120.0 mm

Iy = 485.5e-08 m4

Wz;el = 809.1e-07 m3

Wz;pl = 954.5e-07 m3

tf = 5.0 mm

Iz = 485.5e-08 m4

Aw;y;el = 1.12e-03 m2

Aw;y;pl = 1.12e-03 m2

tw = 5.0 mm

Massa/m = 17.5 kg/m

Aw;z;el = 1.12e-03 m2

Aw;z;pl = 1.12e-03 m2

r = 5.0 mm

It = 760.4e-08 m4

Iwa = 160.5e-10 m6

Doorsnedetoetsing C105-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = 268.6 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = 0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 525.4 kN

Vy;Rd = 151.7 kN

MyRd = 22.4 kNm

Vz;Rd = 151.7 kN

MzRd = 22.4 kNm

NEN-EN1993-1-1(6.5): UC = 0.51 < 1

Kiptoetsing C105-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

Ist = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.074 m

Iwa = 1.6051e-08 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Moederspant as ZZ	Novares Constructeurs	
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Chi;LT(Fu.C.28) = 1.00 M;Ed = 0.1 kNm UC(y) = 0.00
Chi;LT,Z = 1.00 Ikip = 2.110 m UC(z) = 0.00
My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Profielgegevens staaf C106-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C106-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 0.000 m Profielklasse = 1
N;Ed = -269.9 kN Vy;Ed = 0.0 kNm My;Ed = 0.0 kNm
Vz;Ed = 0.2 kNm Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN Vy;Rd = 151.7 kNm MyRd = 22.4 kNm
Vz;Rd = 151.7 kNm MzRd = 22.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.51 < 1

Kiptoetsing C106-V1 (0.000-2.110)

Equi. profiel: KK120/5
Maatgevende combinatie: Fu.C.28 Instab. curve Kip:d
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.
Inklem. begin: Gesteund Beperk. eind: Gesteund b-eff(Begin) = 0.000 b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2 q = 0.1kN/m = 0.0
Bovenflens maatgevend Xb;lst = 0.000 m Xe;lst = 2.110 m Ist = 2.110 m
Lsys = 2.110 m Lg = 2.110 m S = 0.074 m Iwa = 1.6051e-08 m6
C1 = 1.13 C2 = 0.45 (tabel) C2(toegepast) = 0.00 C = 0.00
Mcr = 0.0 kNm kred = 1.0 Lam-rel = 0.00 Profielklasse 1
Chi;LT(Fu.C.28) = 1.00 M;Ed = 0.1 kNm UC(y) = 0.00
Chi;LT,Z = 1.00 Ikip = 2.110 m UC(z) = 0.00
My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C106-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24
N;Ed = -269.9 kN Nb;Rd;y = 448.1 kN Nb;Rd;z = 448.1 kN
Methode Y = Cons. gesch. Ca(y) = 0.000 Cb(y) = 0.000 Lknik Y = 2.110 m
Methode Z = Cons. gesch. Ca(z) = N/B Cb(z) = N/B Lknik Z = 2.110 m
Xy = 0.85 Knikcurve: C
Xz = 0.85 Knikcurve: C
NEN-EN1993-1-1(6.46): UC = 0.60 < 1

Buiging & Druk C106-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 Profielklasse = 1
N;Ed = -269.9 kN My;Ed = 0.1 kNm Mz;Ed = 0.0 kNm
Delta;My;Ed = 0.0 kNm Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm My;Psi = 0.0 kNm My;s = 0.1 kNm
Mz = 0.0 kNm Mz;Psi = 0.0 kNm Mz;s = 0.0 kNm
Cmy = 0.95 Cmz = 1.00 CmLT = 0.95
Kyy = 1.111 Kyz = 0.702 Kzy = 0.667 Kzz = 1.170
Ksi;y = 0.85 Ksi;z = 0.85 Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.61 < 1

Profielgegevens staaf C107-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3

Moederspant as ZZ	Novares Constructeurs	
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b = 90.0 mm	ly = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	lz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C107-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m	Profielklasse = 1
N;Ed = -32.7 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.1 kN
N;Rd = 384.4 kN	Vy;Rd = 111.0 kN
	Vz;Rd = 111.0 kN
	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
	MyRd = 12.1 kNm
	MzRd = 12.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.09 < 1

Kiptoetsing C107-V1 (0.000-2.110)

Equi. profiel: KK90/5	
Maatgevende combinatie: Fu.C.28	Instab. curve Kip:d
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	q = 0.1kN/m
Bovenflens maatgevend	Xb;lst = 0.000 m
Lsys = 2.110 m	Lg = 2.110 m
C1 = 1.13	C2 = 0.45 (tabel)
Mcr = 0.0 kNm	kred = 1.0
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm
Chi;LT,Z = 1.00	Ikip = 2.110 m
My;begin = 0.0 kNm	My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1	Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
= 0.0	
Xe;lst = 2.110 m	lst = 2.110 m
S = 0.054 m	Iwa = 3.4849e-09 m6
C2(toegepast) = 0.00	C = 0.00
Lam-rel = 0.00	Profielklasse 1
	UC(y) = 0.00
	UC(z) = 0.00

Stabiliteitstoetsing C107-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24	
N;Ed = -32.8 kN	Nb;Rd;y = 289.4 kN
Methode Y = Cons. gesch.	Ca(y) = 0.000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0.75	
Xz = 0.75	
NEN-EN1993-1-1(6.46): UC = 0.11 < 1	

Nb;Rd;z = 289.4 kN	
Cb(y) = 0.000	Lknik Y = 2.110 m
Cb(z) = N/B	Lknik Z = 2.110 m
Knikcurve: C	
Knikcurve: C	

Buiging & Druk C107-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24	Profielklasse = 1
N;Ed = -32.8 kN	Mz;Ed = 0.0 kNm
	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Ed = 0.1 kNm
Mz = 0.0 kNm	My;Psi = 0.0 kNm
Cmy = 0.95	Mz;Psi = 0.0 kNm
Kyy = 0.999	Cmz = 1.00
Ksi;y = 0.75	Kyz = 0.631
	Kzy = 0.599
	Ksi;z = 0.75
	Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.12 < 1	Kzz = 1.051

Profielgegevens staaf C108-V1 (0.000-2.110)

KK90/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90.0 mm	A = 1.64e-03 m2	Wy;el = 428.7e-07 m3	Wy;pl = 514.1e-07 m3
b = 90.0 mm	ly = 192.9e-08 m4	Wz;el = 428.7e-07 m3	Wz;pl = 514.1e-07 m3
tf = 5.0 mm	lz = 192.9e-08 m4	Aw;y;el = 8.18e-04 m2	Aw;y;pl = 8.18e-04 m2
tw = 5.0 mm	Massa/m = 12.8 kg/m	Aw;z;el = 8.18e-04 m2	Aw;z;pl = 8.18e-04 m2
r = 5.0 mm		It = 307.1e-08 m4	Iwa = 348.5e-11 m6

Doorsnedetoetsing C108-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m	Profielklasse = 1
N;Ed = 31.8 kN	My;Ed = 0.0 kNm
Vy;Ed = 0.0 kN	

Moederspant as ZZ	Novares Constructeurs	
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Vz;Ed = -0.1 kN
 N;Rd = 384.4 kN
 Vy;Rd = 111.0 kN
 Vz;Rd = 111.0 kN
 Mz;Ed = 0.0 kNm
 MyRd = 12.1 kNm
 MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.08 < 1

Kiptoetsing C108-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C108-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.6 kN

Nb;Rd;y = 289.4 kN

Nb;Rd;z = 289.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.75

Knikcurve: C

Xz = 0.75

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C108-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.2

Profielklasse = 1

N;Ed = -0.6 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 0.951

Kyz = 0.601

Kzy = 0.571

Kzz = 1.001

Ksi;y = 0.75

Ksi;z = 0.75

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.01 < 1

Profielgegevens staaf C109-V1 (0.000-2.110)

KK90/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90.0 mm

A = 1.64e-03 m2

Wy;el = 428.7e-07 m3

Wy;pl = 514.1e-07 m3

b = 90.0 mm

Iy = 192.9e-08 m4

Wz;el = 428.7e-07 m3

Wz;pl = 514.1e-07 m3

tf = 5.0 mm

Iz = 192.9e-08 m4

Aw;y;el = 8.18e-04 m2

Aw;y;pl = 8.18e-04 m2

tw = 5.0 mm

Massa/m = 12.8 kg/m

Aw;z;el = 8.18e-04 m2

Aw;z;pl = 8.18e-04 m2

r = 5.0 mm

It = 307.1e-08 m4

Iwa = 348.5e-11 m6

Doorsnedetoetsing C109-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = -59.7 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

MyRd = 12.1 kNm

Vz;Rd = 111.0 kN

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.9): UC = 0.16 < 1

Kiptoetsing C109-V1 (0.000-2.110)

Equi. profiel: KK90/5

Moederspant as ZZ	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 2.110 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C109-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -59.7 kN

Nb;Rd;y = 289.4 kN

Nb;Rd;z = 289.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 2.110 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2.110 m

Xy = 0.75

Knikcurve: C

Xz = 0.75

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.21 < 1

Buiging & Druk C109-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -59.7 kN

My;Ed = 0.1 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 1.00

CmLT = 0.95

Kyy = 1.039

Kyz = 0.656

Kzy = 0.623

Kzz = 1.094

Ksi;y = 0.75

Ksi;z = 0.75

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.21 < 1

Profielgegevens staaf C110-V1 (0.000-2.110)

KK90/5

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90.0 mm

A = 1.64e-03 m2

Wy;el = 428.7e-07 m3

Wy;pl = 514.1e-07 m3

b = 90.0 mm

Iy = 192.9e-08 m4

Wz;el = 428.7e-07 m3

Wz;pl = 514.1e-07 m3

tf = 5.0 mm

Iz = 192.9e-08 m4

Aw;y;el = 8.18e-04 m2

Aw;y;pl = 8.18e-04 m2

tw = 5.0 mm

Massa/m = 12.8 kg/m

Aw;z;el = 8.18e-04 m2

Aw;z;pl = 8.18e-04 m2

r = 5.0 mm

It = 307.1e-08 m4

Iwa = 348.5e-11 m6

Doorsnedetoetsing C110-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

Profielklasse = 1

N;Ed = 59.3 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 384.4 kN

Vy;Rd = 111.0 kN

MyRd = 12.1 kNm

Vz;Rd = 111.0 kN

MzRd = 12.1 kNm

NEN-EN1993-1-1(6.5): UC = 0.15 < 1

Kiptoetsing C110-V1 (0.000-2.110)

Equi. profiel: KK90/5

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 2.110 m

lst = 2.110 m

Lsys = 2.110 m

Lg = 2.110 m

S = 0.054 m

Iwa = 3.4849e-09 m6

Moederspant as ZZ	Novares Constructeurs	
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C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C111-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C111-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m		Profielklasse = 1
N;Ed = -363.6 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = -0.2 kN	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	MyRd = 22.4 kNm
	Vz;Rd = 151.7 kN	MzRd = 22.4 kNm

NEN-EN1993-1-1(6.9): UC = 0.69 < 1

Kiptoetsing C111-V1 (0.000-2.110)

Equi. profiel: KK120/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C111-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24			
N;Ed = -363.7 kN	Nb;Rd;y = 448.1 kN	Nb;Rd;z = 448.1 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.85		Knikcurve: C	
Xz = 0.85		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.81 < 1			

Buiging & Druk C111-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24		Profielklasse = 1
N;Ed = -363.7 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95
Kyy = 1.168	Kyz = 0.737	Kzy = 0.701
Ksi;y = 0.85	Ksi;z = 0.85	Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.82 < 1		Kzz = 1.229

Profielgegevens staaf C112-V1 (0.000-2.110)

Moederspant as ZZ	Novares Constructeurs	
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KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C112-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m	Profielklasse = 1
N;Ed = 364.2 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	MyRd = 22.4 kNm
	MzRd = 22.4 kNm
NEN-EN1993-1-1(6.5): UC = 0.69 < 1	

Kiptoetsing C112-V1 (0.000-2.110)

Equi. profiel: KK120/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1	Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)		

Profielgegevens staaf C113-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C113-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m	Profielklasse = 1
N;Ed = -378.5 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 525.4 kN	MyRd = 22.4 kNm
	MzRd = 22.4 kNm
NEN-EN1993-1-1(6.9): UC = 0.72 < 1	

Kiptoetsing C113-V1 (0.000-2.110)

Equi. profiel: KK120/5		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.28			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00

Moederspant as ZZ	Novares Constructeurs	
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My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C113-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -378.6 kN	Nb;Rd;y = 448.1 kN	Nb;Rd;z = 448.1 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 2.110 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2.110 m
Xy = 0.85		Knikcurve: C	
Xz = 0.85		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.84 < 1			

Buiging & Druk C113-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24

N;Ed = -378.6 kN	My;Ed = 0.1 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 1.00	CmLT = 0.95	
Kyy = 1.176	Kyz = 0.743	Kzy = 0.706	Kzz = 1.238
Ksi;y = 0.85	Ksi;z = 0.85	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.85 < 1			

Profielgegevens staaf C114-V1 (0.000-2.110)

KK120/5	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 120.0 mm	A = 2.24e-03 m2	Wy;el = 809.1e-07 m3	Wy;pl = 954.5e-07 m3
b = 120.0 mm	Iy = 485.5e-08 m4	Wz;el = 809.1e-07 m3	Wz;pl = 954.5e-07 m3
tf = 5.0 mm	Iz = 485.5e-08 m4	Aw;y;el = 1.12e-03 m2	Aw;y;pl = 1.12e-03 m2
tw = 5.0 mm	Massa/m = 17.5 kg/m	Aw;z;el = 1.12e-03 m2	Aw;z;pl = 1.12e-03 m2
r = 5.0 mm		It = 760.4e-08 m4	Iwa = 160.5e-10 m6

Doorsnedetoetsing C114-V1 (0.000-2.110)

Maatgevende combinatie: Fu.C.24 op 1.899 m

N;Ed = 380.1 kN	Vy;Ed = 0.0 kN	Profielklasse = 1	
	Vz;Ed = 0.0 kN	My;Ed = 0.0 kNm	
N;Rd = 525.4 kN	Vy;Rd = 151.7 kN	Mz;Ed = 0.0 kNm	
	Vz;Rd = 151.7 kN	MyRd = 22.4 kNm	
		MzRd = 22.4 kNm	

NEN-EN1993-1-1(6.5): UC = 0.72 < 1

Kipstoetsing C114-V1 (0.000-2.110)

Equi. profiel: KK120/5

Maatgevende combinatie: Fu.C.28

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 2.110 m	lst = 2.110 m
Lsys = 2.110 m	Lg = 2.110 m	S = 0.074 m	Iwa = 1.6051e-08 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.28) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 2.110 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Profielgegevens staaf C115-V1 (0.000-7.300)

HE220A	Analyse	Staal S235	fyd(toegepast) = 235 N/mm2
h = 210.0 mm	A = 6.43e-03 m2	Wy;el = 515.2e-06 m3	Wy;pl = 568.5e-06 m3
b = 220.0 mm	Iy = 541.0e-07 m4	Wz;el = 177.7e-06 m3	Wz;pl = 270.6e-06 m3
tf = 11.0 mm	Iz = 195.5e-07 m4	Aw;y;el = 5.12e-03 m2	Aw;y;pl = 5.12e-03 m2

Moederspant as ZZ	Novares Constructeurs	
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tw = 7.0 mm
r = 18.0 mm

Massa/m = 50.5 kg/m

Aw;z;el = 2.07e-03 m²
It = 284.6e-09 m⁴

Aw;z;pl = 2.07e-03 m²
Iwa = 193.3e-09 m⁶

Doorsnedetoetsing C115-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24 op 0.000 m

N;Ed = -345.6 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = 3.5 kN

Mz;Ed = 0.0 kNm

N;Rd = 1,512.0 kN

Vy;Rd = 694.4 kN

MyRd = 133.6 kNm

Vz;Rd = 280.5 kN

MzRd = 63.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.23 < 1

Kiptoetsing C115-V1 (0.000-7.300)

Equi. profiel: HE220A

Maatgevende combinatie: Fu.C.18

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.011

b-eff(Eind) = 0.015

Tabel gebruikt Fig. NB.32

M = -20.1 kN/m

MBeta = 0.0

q = 4.5

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.300 m

lst = 7.300 m

Lsys = 7.300 m

Lg = 7.300 m

S = 1.329 m

Iwa = 1.9327e-07 m⁶

C1 = 1.20

C2 = 0.70 (tabel)

C2(toegepast) = 0.00

C = 4.35

Mcr = 183.1 kNm

kred = 1.0

Lam-rel = 0.85

Profielklasse 1

Chi;LT(Fu.C.18) = 0.76

M;Ed = 21.1 kNm

UC(y) = 0.21

Chi;LT,Z = 1.00

Ikip = 7.300 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = -20.1 kNm

NEN-EN1993-1-1(6.54): UC = 0.21 < 1

Stabiliteitstoetsing C115-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

N;Ed = -345.6 kN

Nb;Rd;y = 1,050.2 kN

Nb;Rd;z = 522.3 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.300 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.300 m

Xy = 0.69

Knikcurve: B

Xz = 0.35

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.66 < 1

Buiging & Druk C115-V1 (0.000-7.300)

Maatgevende combinatie: Fu.C.24

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -345.6 kN

My;Ed = 21.1 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 19.2 kNm

My;Psi = 0.0 kNm

My;s = 11.8 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.69

Cmz = 1.00

CmLT = 0.69

Kyy = 0.838

Kyz = 1.156

Kzy = 0.850

Kzz = 1.926

Ksi;y = 0.69

Ksi;z = 0.35

Ksi;LT = 0.82

NEN-EN1993-1-1(6.61&6.62): UC = 0.81 < 1

Profielgegevens staaf C116-V1 (0.000-1.700)

HE220A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm²

h = 210.0 mm

A = 6.43e-03 m²

Wy;el = 515.2e-06 m³

Wy;pl = 568.5e-06 m³

b = 220.0 mm

Iy = 541.0e-07 m⁴

Wz;el = 177.7e-06 m³

Wz;pl = 270.6e-06 m³

tf = 11.0 mm

Iz = 195.5e-07 m⁴

Aw;y;el = 5.12e-03 m²

Aw;y;pl = 5.12e-03 m²

tw = 7.0 mm

Massa/m = 50.5 kg/m

Aw;z;el = 2.07e-03 m²

Aw;z;pl = 2.07e-03 m²

r = 18.0 mm

It = 284.6e-09 m⁴

Iwa = 193.3e-09 m⁶

Doorsnedetoetsing C116-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24 op 0.000 m

Profielklasse = 1

N;Ed = -338.5 kN

Vy;Ed = 0.0 kN

My;Ed = 19.2 kNm

Vz;Ed = -11.1 kN

Mz;Ed = 0.0 kNm

N;Rd = 1,512.0 kN

Vy;Rd = 694.4 kN

MyRd = 133.6 kNm

Moederspant as ZZ	Novares Constructeurs	
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Vz;Rd = 280.5 kN

MzRd = 63.6 kNm

NEN-EN1993-1-1(6.9): UC = 0.22 < 1

Kiptoetsing C116-V1 (0.000-1.700)

Equi. profiel: HE220A

Maatgevende combinatie: Fu.C.28

Instab. curve Kip:a

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.004

b-eff(Eind) = 0.004

Tabel gebruikt Fig. NB.32

M = 11.2kN/m

MBeta = 0.0

q = 0.1

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 1.700 m

lst = 1.700 m

Lsys = 1.700 m

Lg = 1.700 m

S = 1.329 m

Iwa = 1.9327e-07 m6

C1 = 1.80

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 14.96

Mcr = 2,702.6 kNm

kred = 1.0

Lam-rel = 0.22

Profielklasse 1

Chi;LT(Fu.C.28) = 1.00

M;Ed = 11.2 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 1.700 m

UC(z) = 0.00

My;begin = 11.2 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm Lambda;LT <= 0.4

Stabiliteitstoetsing C116-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24

N;Ed = -338.5 kN

Nb;Rd;y = 1,512.0 kN

Nb;Rd;z = 1,413.1 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 1.700 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1.700 m

Xy = 1.00

Knikcurve: B

Xz = 0.93

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.24 < 1

Buiging & Druk C116-V1 (0.000-1.700)

Maatgevende combinatie: Fu.C.24

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -338.5 kN

My;Ed = 11.2 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 19.2 kNm

My;Psi = 0.0 kNm

My;s = 9.7 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.60

Cmz = 1.00

CmLT = 0.60

Kyy = 0.604

Kyz = 0.608

Kzy = 0.928

Kzz = 1.014

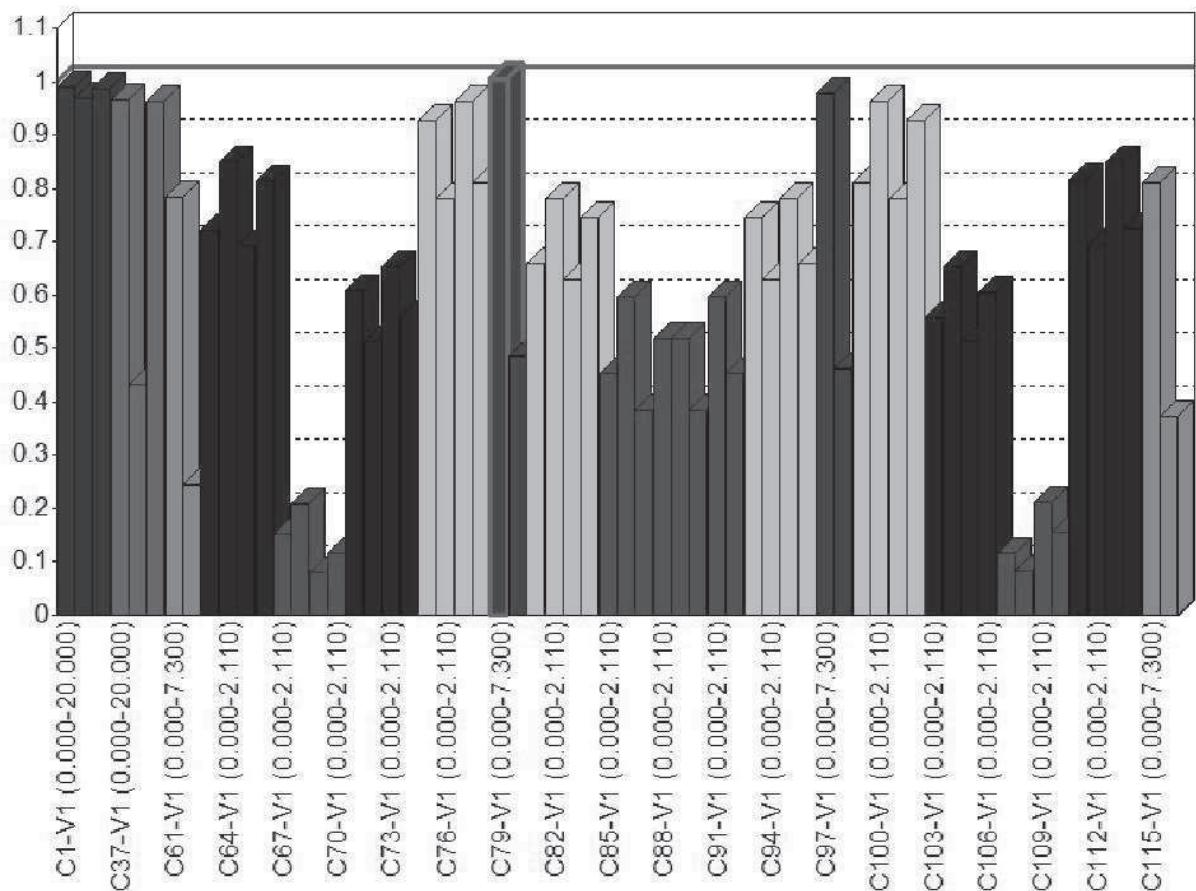
Ksi;y = 1.00

Ksi;z = 0.93

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.37 < 1

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.68
C1-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C1-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.94
C1-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.99
C1-V1 (0.000-20.000)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C13-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.68
C13-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.73
C13-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.94
C13-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.97
C13-V1 (0.000-20.000)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C25-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.68
C25-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C25-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.94
C25-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.99
C25-V1 (0.000-20.000)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C37-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.45
C37-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.46
C37-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.79
C37-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.96
C37-V1 (0.000-20.000)	Kiptoetsing	Fu.C.24	NEN-EN1993-1-1(6.54)	0.17
C45-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.39
C45-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.16
C45-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.27

Moederspant as ZZ	Novares Constructeurs		
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Veld	Toetsing	Combinatie	Artikel	UC max
C45-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.43
C45-V1 (0.000-20.000)	Kiptoetsing	Fu.C.24	NEN-EN1993-1-1(6.54)	0.16
C53-V1 (0.000-20.000)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.45
C53-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.46
C53-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.79
C53-V1 (0.000-20.000)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.96
C53-V1 (0.000-20.000)	Kiptoetsing	Fu.C.24	NEN-EN1993-1-1(6.54)	0.17
C61-V1 (0.000-7.300)	Doorsnede	Fu.C.6	NEN-EN1993-1-1(6.12)	0.24
C61-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.33
C61-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.66
C61-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.78
C61-V1 (0.000-7.300)	Kiptoetsing	Fu.C.6	NEN-EN1993-1-1(6.54)	0.28
C62-V1 (0.000-1.700)	Doorsnede	Fu.C.6	NEN-EN1993-1-1(6.12)	0.24
C63-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.72
C64-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.72
C64-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.84
C64-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.84
C64-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.85
C64-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C65-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.69
C65-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C66-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.69
C66-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.81
C66-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.81
C66-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.81
C66-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C67-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.15
C67-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C68-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.15
C68-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.20
C68-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.20
C68-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.21
C68-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C69-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.08
C69-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C70-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.08
C70-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.11
C70-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.11
C70-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.12
C70-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C71-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.51
C71-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.60
C71-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.60
C71-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.61
C71-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C72-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.51
C72-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C73-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.55
C73-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.65
C73-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.65
C73-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.65
C73-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C74-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.56
C74-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C75-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.77
C75-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.92
C75-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.92

Moederspant as ZZ	Novares Constructeurs		
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Veld	Toetsing	Combinatie	Artikel	UC max
C75-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.93
C75-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C76-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.78
C76-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C77-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.81
C77-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C77-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C77-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.96
C77-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C78-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.81
C78-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C79-V1 (0.000-7.300)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.42
C79-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.54
C79-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C79-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	1.00
C79-V1 (0.000-7.300)	Kiptoetsing	Fu.C.24	NEN-EN1993-1-1(6.54)	0.06
C80-V1 (0.000-1.700)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.42
C80-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.42
C80-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.44
C80-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.49
C80-V1 (0.000-1.700)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C81-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.66
C81-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C82-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.65
C82-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.78
C82-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.78
C82-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.78
C82-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C83-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.63
C83-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C84-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.62
C84-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C84-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C84-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.74
C84-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C85-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.45
C85-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C86-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.44
C86-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.59
C86-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.59
C86-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.59
C86-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C87-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.38
C87-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C88-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.39
C88-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.51
C88-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.51
C88-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.52
C88-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C89-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.39
C89-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.51
C89-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.51
C89-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.52
C89-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C90-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.39
C90-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C91-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.44

Moederspant as ZZ	Novares Constructeurs		
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Veld	Toetsing	Combinatie	Artikel	UC max
C91-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.59
C91-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.59
C91-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.60
C91-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C92-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.45
C92-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C93-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.62
C93-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C93-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.74
C93-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.75
C93-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C94-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.63
C94-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C95-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.65
C95-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.78
C95-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.78
C95-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.78
C95-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C96-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.66
C96-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C97-V1 (0.000-7.300)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.42
C97-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.54
C97-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C97-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.98
C97-V1 (0.000-7.300)	Kiptoetsing	Fu.C.24	NEN-EN1993-1-1(6.54)	0.03
C98-V1 (0.000-1.700)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.42
C98-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.42
C98-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.44
C98-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.46
C98-V1 (0.000-1.700)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C99-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.81
C99-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C100-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.80
C100-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C100-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.96
C100-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.96
C100-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C101-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.78
C101-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C102-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.77
C102-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.92
C102-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.92
C102-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.93
C102-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C103-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.56
C103-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C104-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.55
C104-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.65
C104-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.65
C104-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.65
C104-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C105-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.51
C105-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C106-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.51
C106-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.60
C106-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.60
C106-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.61

Moederspant as ZZ	Novares Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C106-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C107-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.09
C107-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.11
C107-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.11
C107-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.12
C107-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C108-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.08
C108-V1 (0.000-2.110)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C108-V1 (0.000-2.110)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C108-V1 (0.000-2.110)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.01
C108-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C109-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.16
C109-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.21
C109-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.21
C109-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.21
C109-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C110-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.15
C110-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C111-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.69
C111-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.81
C111-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.81
C111-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.82
C111-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C112-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.69
C112-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C113-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.72
C113-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.84
C113-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.84
C113-V1 (0.000-2.110)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.85
C113-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C114-V1 (0.000-2.110)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.5)	0.72
C114-V1 (0.000-2.110)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00
C115-V1 (0.000-7.300)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.23
C115-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.33
C115-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.66
C115-V1 (0.000-7.300)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.81
C115-V1 (0.000-7.300)	Kiptoetsing	Fu.C.18	NEN-EN1993-1-1(6.54)	0.21
C116-V1 (0.000-1.700)	Doorsnede	Fu.C.24	NEN-EN1993-1-1(6.9)	0.22
C116-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.22
C116-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.46)	0.24
C116-V1 (0.000-1.700)	Stabiliteit	Fu.C.24	NEN-EN1993-1-1(6.61&6.62)	0.37
C116-V1 (0.000-1.700)	Kiptoetsing	Fu.C.28	NEN-EN1993-1-1(6.54)	0.00

GEWICHT STAALCONSTRUCTIE

Staaft	Profiel	Lsys	Massa
C115-V1 (0.000-7.300)	HE220A	7.300	368.707
C116-V1 (0.000-1.700)	HE220A	1.700	85.863
C61-V1 (0.000-7.300)	HE220A	7.300	368.707
C62-V1 (0.000-1.700)	HE220A	1.700	85.863
Subtotaal:	HE220A	18.000	909.142
C37-V1 (0.000-20.000)	HE220B	20.000	1,429.348
C45-V1 (0.000-20.000)	HE220B	20.000	1,429.348
C53-V1 (0.000-20.000)	HE220B	20.000	1,429.348
Subtotaal:	HE220B	60.000	4,288.043
C79-V1 (0.000-7.300)	HE260B	7.300	678.746
C80-V1 (0.000-1.700)	HE260B	1.700	158.064
C97-V1 (0.000-7.300)	HE260B	7.300	678.746
C98-V1 (0.000-1.700)	HE260B	1.700	158.064

Moederspant as ZZ	Novares Constructeurs		
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Subtotaal:	HE260B	18.000	1,673.620
C103-V1 (0.000-2.110)	KK120/5	2.110	37.031
C104-V1 (0.000-2.110)	KK120/5	2.110	37.031
C105-V1 (0.000-2.110)	KK120/5	2.110	37.031
C106-V1 (0.000-2.110)	KK120/5	2.110	37.031
C111-V1 (0.000-2.110)	KK120/5	2.110	37.031
C112-V1 (0.000-2.110)	KK120/5	2.110	37.031
C113-V1 (0.000-2.110)	KK120/5	2.110	37.031
C114-V1 (0.000-2.110)	KK120/5	2.110	37.031
C63-V1 (0.000-2.110)	KK120/5	2.110	37.031
C64-V1 (0.000-2.110)	KK120/5	2.110	37.031
C65-V1 (0.000-2.110)	KK120/5	2.110	37.031
C66-V1 (0.000-2.110)	KK120/5	2.110	37.031
C71-V1 (0.000-2.110)	KK120/5	2.110	37.031
C72-V1 (0.000-2.110)	KK120/5	2.110	37.031
C73-V1 (0.000-2.110)	KK120/5	2.110	37.031
C74-V1 (0.000-2.110)	KK120/5	2.110	37.031
Subtotaal:	KK120/5	33.762	592.502
C100-V1 (0.000-2.110)	KK120/8	2.110	54.816
C101-V1 (0.000-2.110)	KK120/8	2.110	54.816
C102-V1 (0.000-2.110)	KK120/8	2.110	54.816
C75-V1 (0.000-2.110)	KK120/8	2.110	54.816
C76-V1 (0.000-2.110)	KK120/8	2.110	54.816
C77-V1 (0.000-2.110)	KK120/8	2.110	54.816
C78-V1 (0.000-2.110)	KK120/8	2.110	54.816
C81-V1 (0.000-2.110)	KK120/8	2.110	54.816
C82-V1 (0.000-2.110)	KK120/8	2.110	54.816
C83-V1 (0.000-2.110)	KK120/8	2.110	54.816
C84-V1 (0.000-2.110)	KK120/8	2.110	54.816
C93-V1 (0.000-2.110)	KK120/8	2.110	54.816
C94-V1 (0.000-2.110)	KK120/8	2.110	54.816
C95-V1 (0.000-2.110)	KK120/8	2.110	54.816
C96-V1 (0.000-2.110)	KK120/8	2.110	54.816
C99-V1 (0.000-2.110)	KK120/8	2.110	54.816
Subtotaal:	KK120/8	33.762	877.059
C13-V1 (0.000-20.000)	KK200/10	20.000	1,125.815
C1-V1 (0.000-20.000)	KK200/10	20.000	1,125.815
C25-V1 (0.000-20.000)	KK200/10	20.000	1,125.815
Subtotaal:	KK200/10	60.000	3,377.445
C107-V1 (0.000-2.110)	KK90/5	2.110	27.093
C108-V1 (0.000-2.110)	KK90/5	2.110	27.093
C109-V1 (0.000-2.110)	KK90/5	2.110	27.093
C110-V1 (0.000-2.110)	KK90/5	2.110	27.093
C67-V1 (0.000-2.110)	KK90/5	2.110	27.093
C68-V1 (0.000-2.110)	KK90/5	2.110	27.093
C69-V1 (0.000-2.110)	KK90/5	2.110	27.093
C70-V1 (0.000-2.110)	KK90/5	2.110	27.093
C85-V1 (0.000-2.110)	KK90/5	2.110	27.093
C86-V1 (0.000-2.110)	KK90/5	2.110	27.093
C87-V1 (0.000-2.110)	KK90/5	2.110	27.093
C88-V1 (0.000-2.110)	KK90/5	2.110	27.093
C89-V1 (0.000-2.110)	KK90/5	2.110	27.093
C90-V1 (0.000-2.110)	KK90/5	2.110	27.093
C91-V1 (0.000-2.110)	KK90/5	2.110	27.093
C92-V1 (0.000-2.110)	KK90/5	2.110	27.093
Subtotaal:	KK90/5	33.762	433.485
Totaal:		257.285	12,151.295
		m	kg

SV1 (NEN-EN 1993-1-8:2009/NB:2011)

Moederspant as ZZ	Novares Constructeurs	
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ALGEMEEN

Verbindings type	Voetplaatverbinding	
Kolom	HE220A	(b = 220, h = 210, Ft = 11.0, Wt = 7.0)
Materiaal	S235	
Raamwerk	Statisch bepaald	
Horizontale stijfheid	Geschoord raamwerk	
Milieu	Niet corrosief	
Laskwaliteit	S235	

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	230	230	15.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	120 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand	Afstand	Totale afstand
Randafstand boutrij 1	51	51 Steek boutrijen 1 - 2	128	179
	mm	mm	mm	mm

FUNDERING

Hoogte	400.00 mm	voegdikte	30.00 mm
d1	290.00 mm	b1	290.00 mm
d2	690.00 mm	b2	690.00 mm
d	1800.00 mm	b	1800.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K1	N;3;Ed	192.06 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.27 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K1	N;3;Ed	64.87 kN	M;3;Ed	0.00 kNm	V;3;Ed	6.63 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		86.93 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.3; Knoop K1	N;3;Ed	143.87 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.96 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K1	N;3;Ed	143.87 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.96 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Moederspant as ZZ	Novares Constructeurs	
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Fu.C.5; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.6; Knoop K1 N;3;Ed 114.49 kN M;3;Ed 0.00 kNm V;3;Ed 13.65 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		96.85 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.7; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.8; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.9; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.10; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.11; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.12; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN

Moederspant as ZZ	Novares Constructeurs	
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Trekcapaciteit min(F;t;Rd, B;p;Rd) 45.22 kN

BELASTINGEN

Fu.C.13; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.14; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.15; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.16; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.17; Knoop K1 N;3;Ed 192.06 kN M;3;Ed 0.00 kNm V;3;Ed 1.27 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.18; Knoop K1 N;3;Ed 63.59 kN M;3;Ed 0.00 kNm V;3;Ed 13.47 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		86.67 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.19; Knoop K1 N;3;Ed 113.20 kN M;3;Ed 0.00 kNm V;3;Ed 6.38 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		96.59 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.20; Knoop K1 N;3;Ed 143.87 kN M;3;Ed 0.00 kNm V;3;Ed 0.96 kN

Moederspant as ZZ	Novares Constructeurs	
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.21; Knoop K1	N;3;Ed	143.87 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.96 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.22; Knoop K1	N;3;Ed	192.06 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.27 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.23; Knoop K1	N;3;Ed	192.06 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.27 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.24; Knoop K1	N;3;Ed	345.22 kN	M;3;Ed	0.00 kNm	V;3;Ed	2.15 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		143.00 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.25; Knoop K1	N;3;Ed	215.80 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		117.11 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.26; Knoop K1	N;3;Ed	143.87 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.96 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.73 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.27; Knoop K1	N;3;Ed	192.06 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.27 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Moederspant as ZZ	Novares Constructeurs	
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BELASTINGEN

Fu.C.28; Knoop K1	N;3;Ed	192.06 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.27 kN
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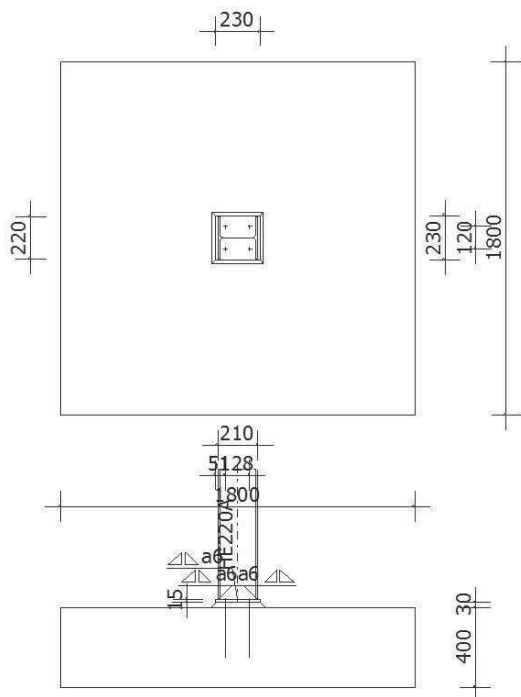
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K1	Ok
Fu.C.2; Knoop K1	Ok
Fu.C.3; Knoop K1	Ok
Fu.C.4; Knoop K1	Ok
Fu.C.5; Knoop K1	Ok
Fu.C.6; Knoop K1	Ok
Fu.C.7; Knoop K1	Ok
Fu.C.8; Knoop K1	Ok
Fu.C.9; Knoop K1	Ok
Fu.C.10; Knoop K1	Ok
Fu.C.11; Knoop K1	Ok
Fu.C.12; Knoop K1	Ok
Fu.C.13; Knoop K1	Ok
Fu.C.14; Knoop K1	Ok
Fu.C.15; Knoop K1	Ok
Fu.C.16; Knoop K1	Ok
Fu.C.17; Knoop K1	Ok
Fu.C.18; Knoop K1	Ok
Fu.C.19; Knoop K1	Ok
Fu.C.20; Knoop K1	Ok
Fu.C.21; Knoop K1	Ok
Fu.C.22; Knoop K1	Ok
Fu.C.23; Knoop K1	Ok
Fu.C.24; Knoop K1	Ok
Fu.C.25; Knoop K1	Ok
Fu.C.26; Knoop K1	Ok
Fu.C.27; Knoop K1	Ok
Fu.C.28; Knoop K1	Ok

SV1 TEKENING



Verbindingsgegevens

Kolom: HE220A

Kopplaat: 230x230x15 mm

Bouten: M16, Kwaliteit 4.6, Afstand 120

Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 51

Steek: 128

SV2 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding
Kolom	HE260B (b = 260, h = 260, Ft = 17.5, Wt = 10.0)
Materiaal	S235
Raamwerk	Statisch bepaald
Horizontale stijfheid	Geschoord raamwerk
Milieu	Niet corrosief
Laskwaliteit	S235

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	300	300	20.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	140 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand	Afstand	Totale afstand
Randafstand boutrij 1	67	67	Steek boutrijen 1 - 2	165
	mm	mm		232
	mm	mm	mm	mm

FUNDERING

Hoogte	500.00 mm	voegdikte	30.00 mm
d1	360.00 mm	b1	360.00 mm

Moederspant as ZZ	Novares Constructeurs	
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d2	860.00 mm	b2	860.00 mm
d	2400.00 mm	b	2400.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K2	N;3;Ed	666.27 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.06 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K2	N;3;Ed	239.22 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.64 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		121.80 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.3; Knoop K2	N;3;Ed	499.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.85 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K2	N;3;Ed	499.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.85 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.5; Knoop K2	N;3;Ed	499.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.85 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.6; Knoop K2	N;3;Ed	405.00 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.88 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		154.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.7; Knoop K2	N;3;Ed	666.27 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.06 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Moederspant as ZZ	Novares Constructeurs	
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Fu.C.8; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.9; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.10; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.11; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.12; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.13; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.14; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.15; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN

Moederspant as ZZ	Novares Constructeurs	
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Trekcapaciteit min(F;t;Rd, B;p;Rd) 45.22 kN

BELASTINGEN

Fu.C.16; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.17; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.18; Knoop K2 N;3;Ed 241.32 kN M;3;Ed 0.00 kNm V;3;Ed 0.44 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		122.22 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.19; Knoop K2 N;3;Ed 407.09 kN M;3;Ed 0.00 kNm V;3;Ed 0.71 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		155.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.20; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.21; Knoop K2 N;3;Ed 499.07 kN M;3;Ed 0.00 kNm V;3;Ed 0.85 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.22; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.23; Knoop K2 N;3;Ed 666.27 kN M;3;Ed 0.00 kNm V;3;Ed 1.06 kN

Moederspant as ZZ	Novares Constructeurs	
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.24; Knoop K2	N;3;Ed	1180.63 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.47 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		310.08 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.25; Knoop K2	N;3;Ed	748.63 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.15 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		223.68 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.26; Knoop K2	N;3;Ed	499.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.85 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.27; Knoop K2	N;3;Ed	666.27 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.06 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.28; Knoop K2	N;3;Ed	666.27 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.06 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

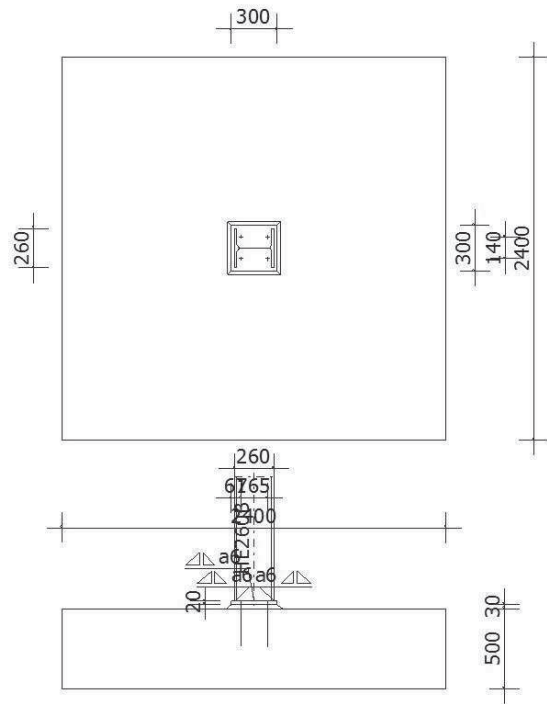
Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K2	Ok
Fu.C.2; Knoop K2	Ok
Fu.C.3; Knoop K2	Ok
Fu.C.4; Knoop K2	Ok
Fu.C.5; Knoop K2	Ok
Fu.C.6; Knoop K2	Ok
Fu.C.7; Knoop K2	Ok
Fu.C.8; Knoop K2	Ok
Fu.C.9; Knoop K2	Ok
Fu.C.10; Knoop K2	Ok
Fu.C.11; Knoop K2	Ok
Fu.C.12; Knoop K2	Ok
Fu.C.13; Knoop K2	Ok
Fu.C.14; Knoop K2	Ok
Fu.C.15; Knoop K2	Ok

Fu.C.16; Knoop K2	Ok
Fu.C.17; Knoop K2	Ok
Fu.C.18; Knoop K2	Ok
Fu.C.19; Knoop K2	Ok
Fu.C.20; Knoop K2	Ok
Fu.C.21; Knoop K2	Ok
Fu.C.22; Knoop K2	Ok
Fu.C.23; Knoop K2	Ok
Fu.C.24; Knoop K2	Ok
Fu.C.25; Knoop K2	Ok
Fu.C.26; Knoop K2	Ok
Fu.C.27; Knoop K2	Ok
Fu.C.28; Knoop K2	Ok

SV2 TEKENING



Verbindingsgegevens
 Kolom: HE260B
 Kopplaat: 300x300x20 mm
 Bouten: M16, Kwaliteit 4.6, Afstand 140
 Maatvoering bout 1 t.o.v bovenzijde kopplaat
 Randafstand: 67
 Steek: 165

SV3 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding
Kolom	HE260B (b = 260, h = 260, Ft = 17.5, Wt = 10.0)
Materiaal	S235
Raamwerk	Statisch bepaald
Horizontale stijfheid	Geschoord raamwerk
Milieu	Niet corrosief
Laskwaliteit	S235

VERBINDINGSONDERDELEN

Breedte	Hoogte	Dikte	Las (h)
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Moederspant as ZZ		Novares Constructeurs				
Plaat	300	300	20.0	6		
	mm	mm	mm	mm		
ANKERS: M16						
Sterkte	4.6 (Gerold)					
Afstand	140 mm					
d;g;nom	18 mm					
	Afstand	Totale afstand			Afstand	Totale afstand
Randafstand boutrij 1	68	68 Steek boutrijen 1 - 2			165	232
	mm	mm			mm	mm
FUNDERING						
Hoogte	500.00 mm	voegdikte	30.00 mm			
d1	360.00 mm	b1	360.00 mm			
d2	860.00 mm	b2	860.00 mm			
d	2400.00 mm	b	2400.00 mm			
Materiaal	C20/25					
BELASTINGEN						
Fu.C.1; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4						
Stuikweerstand	F;b;Rd		Kopplaat; t = 20 mm		230.40 kN	
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd				207.21 kN	
Trekcapaciteit	min(F;t;Rd, B;p;Rd)				45.22 kN	
BELASTINGEN						
Fu.C.2; Knoop K3	N;3;Ed	244.90 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.20 kN
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4						
Stuikweerstand	F;b;Rd		Kopplaat; t = 20 mm		230.40 kN	
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd				122.93 kN	
Trekcapaciteit	min(F;t;Rd, B;p;Rd)				45.22 kN	
BELASTINGEN						
Fu.C.3; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4						
Stuikweerstand	F;b;Rd		Kopplaat; t = 20 mm		230.40 kN	
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd				173.77 kN	
Trekcapaciteit	min(F;t;Rd, B;p;Rd)				45.22 kN	
BELASTINGEN						
Fu.C.4; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4						
Stuikweerstand	F;b;Rd		Kopplaat; t = 20 mm		230.40 kN	
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd				173.77 kN	
Trekcapaciteit	min(F;t;Rd, B;p;Rd)				45.22 kN	
BELASTINGEN						
Fu.C.5; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4						
Stuikweerstand	F;b;Rd		Kopplaat; t = 20 mm		230.40 kN	
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd				173.77 kN	
Trekcapaciteit	min(F;t;Rd, B;p;Rd)				45.22 kN	
BELASTINGEN						
Fu.C.6; Knoop K3	N;3;Ed	410.68 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.35 kN

Moederspant as ZZ	Novares Constructeurs	
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		156.09 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.7; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.8; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.9; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.10; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.11; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.12; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.13; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Moederspant as ZZ	Novares Constructeurs	
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BELASTINGEN

Fu.C.14; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.15; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.16; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.17; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.18; Knoop K3	N;3;Ed	241.33 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.27 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		122.22 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.19; Knoop K3	N;3;Ed	407.11 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		155.37 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.20; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.21; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
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Moederspant as ZZ	Novares Constructeurs					
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Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd	173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)	45.22 kN

BELASTINGEN

Fu.C.22; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.23; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.24; Knoop K3	N;3;Ed	1180.72 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.33 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		310.10 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.25; Knoop K3	N;3;Ed	748.67 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.78 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		223.69 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.26; Knoop K3	N;3;Ed	499.09 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		173.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.27; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.28; Knoop K3	N;3;Ed	666.31 kN	M;3;Ed	0.00 kNm	V;3;Ed	0.68 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

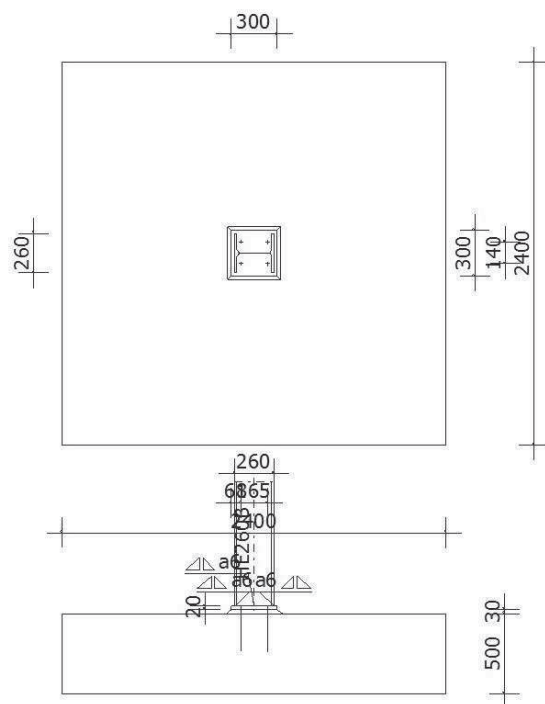
Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		207.21 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K3	Ok
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Fu.C.2; Knoop K3	Ok
Fu.C.3; Knoop K3	Ok
Fu.C.4; Knoop K3	Ok
Fu.C.5; Knoop K3	Ok
Fu.C.6; Knoop K3	Ok
Fu.C.7; Knoop K3	Ok
Fu.C.8; Knoop K3	Ok
Fu.C.9; Knoop K3	Ok
Fu.C.10; Knoop K3	Ok
Fu.C.11; Knoop K3	Ok
Fu.C.12; Knoop K3	Ok
Fu.C.13; Knoop K3	Ok
Fu.C.14; Knoop K3	Ok
Fu.C.15; Knoop K3	Ok
Fu.C.16; Knoop K3	Ok
Fu.C.17; Knoop K3	Ok
Fu.C.18; Knoop K3	Ok
Fu.C.19; Knoop K3	Ok
Fu.C.20; Knoop K3	Ok
Fu.C.21; Knoop K3	Ok
Fu.C.22; Knoop K3	Ok
Fu.C.23; Knoop K3	Ok
Fu.C.24; Knoop K3	Ok
Fu.C.25; Knoop K3	Ok
Fu.C.26; Knoop K3	Ok
Fu.C.27; Knoop K3	Ok
Fu.C.28; Knoop K3	Ok

SV3 TEKENING



Verbindingsgegevens

Kolom: HE260B

Kopplaat: 300x300x20 mm

Bouten: M16, Kwaliteit 4.6, Afstand 140

Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 67

Steek: 164

Moederspant as ZZ	Novares Constructeurs	
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SV4 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding	
Kolom	HE220A	(b = 220, h = 210, Ft = 11.0, Wt = 7.0)
Materiaal	S235	
Raamwerk	Statisch bepaald	
Horizontale stijfheid	Geschoord raamwerk	
Milieu	Niet corrosief	
Laskwaliteit	S235	

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	230	230	15.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	120 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand	Afstand	Totale afstand
Randafstand boutrij 1	51	51 Steek boutrijen 1 - 2	128	179
	mm	mm	mm	mm

FUNDERING

Hoogte	400.00 mm	voegdikte	30.00 mm
d1	290.00 mm	b1	290.00 mm
d2	690.00 mm	b2	690.00 mm
d	1800.00 mm	b	1800.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K4	N;3;Ed	60.93 kN	M;3;Ed	0.00 kNm	V;3;Ed	7.45 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		86.14 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.3; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN

Moederspant as ZZ	Novares Constructeurs	
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Trekcapaciteit min(F;t;Rd, B;p;Rd) 45.22 kN

BELASTINGEN

Fu.C.5; Knoop K4 N;3;Ed 144.07 kN M;3;Ed 0.00 kNm V;3;Ed 1.11 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.6; Knoop K4 N;3;Ed 110.60 kN M;3;Ed 0.00 kNm V;3;Ed 0.43 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		96.07 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.7; Knoop K4 N;3;Ed 192.32 kN M;3;Ed 0.00 kNm V;3;Ed 1.43 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.8; Knoop K4 N;3;Ed 192.32 kN M;3;Ed 0.00 kNm V;3;Ed 1.43 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.9; Knoop K4 N;3;Ed 192.32 kN M;3;Ed 0.00 kNm V;3;Ed 1.43 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.10; Knoop K4 N;3;Ed 144.07 kN M;3;Ed 0.00 kNm V;3;Ed 1.11 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.11; Knoop K4 N;3;Ed 144.07 kN M;3;Ed 0.00 kNm V;3;Ed 1.11 kN

BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.12; Knoop K4 N;3;Ed 144.07 kN M;3;Ed 0.00 kNm V;3;Ed 1.11 kN

Moederspant as ZZ	Novares Constructeurs	
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.13; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.14; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.15; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.16; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.17; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.18; Knoop K4	N;3;Ed	63.67 kN	M;3;Ed	0.00 kNm	V;3;Ed	13.53 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		86.69 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.19; Knoop K4	N;3;Ed	113.36 kN	M;3;Ed	0.00 kNm	V;3;Ed	6.50 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		96.63 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Moederspant as ZZ	Novares Constructeurs	
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BELASTINGEN

Fu.C.20; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.21; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.22; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.23; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.24; Knoop K4	N;3;Ed	345.61 kN	M;3;Ed	0.00 kNm	V;3;Ed	2.28 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		143.07 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.25; Knoop K4	N;3;Ed	216.08 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.58 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		117.17 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.26; Knoop K4	N;3;Ed	144.07 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.11 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		102.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.27; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
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Moederspant as ZZ	Novares Constructeurs	
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Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd	112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)	45.22 kN

BELASTINGEN

Fu.C.28; Knoop K4	N;3;Ed	192.32 kN	M;3;Ed	0.00 kNm	V;3;Ed	1.43 kN
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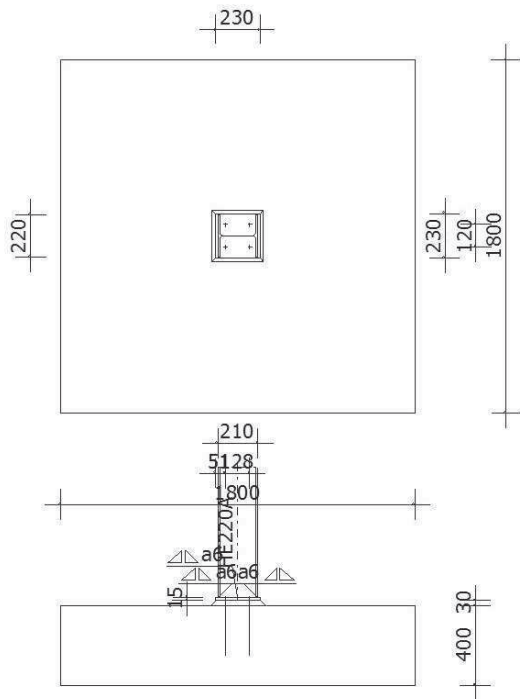
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 15 mm	163.20 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		112.42 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K4	Ok
Fu.C.2; Knoop K4	Ok
Fu.C.3; Knoop K4	Ok
Fu.C.4; Knoop K4	Ok
Fu.C.5; Knoop K4	Ok
Fu.C.6; Knoop K4	Ok
Fu.C.7; Knoop K4	Ok
Fu.C.8; Knoop K4	Ok
Fu.C.9; Knoop K4	Ok
Fu.C.10; Knoop K4	Ok
Fu.C.11; Knoop K4	Ok
Fu.C.12; Knoop K4	Ok
Fu.C.13; Knoop K4	Ok
Fu.C.14; Knoop K4	Ok
Fu.C.15; Knoop K4	Ok
Fu.C.16; Knoop K4	Ok
Fu.C.17; Knoop K4	Ok
Fu.C.18; Knoop K4	Ok
Fu.C.19; Knoop K4	Ok
Fu.C.20; Knoop K4	Ok
Fu.C.21; Knoop K4	Ok
Fu.C.22; Knoop K4	Ok
Fu.C.23; Knoop K4	Ok
Fu.C.24; Knoop K4	Ok
Fu.C.25; Knoop K4	Ok
Fu.C.26; Knoop K4	Ok
Fu.C.27; Knoop K4	Ok
Fu.C.28; Knoop K4	Ok

SV4 TEKENING



Verbindingsgegevens

Kolom: HE220A

Kopplaat: 230x230x15 mm

Bouten: M16, Kwaliteit 4.6, Afstand 120

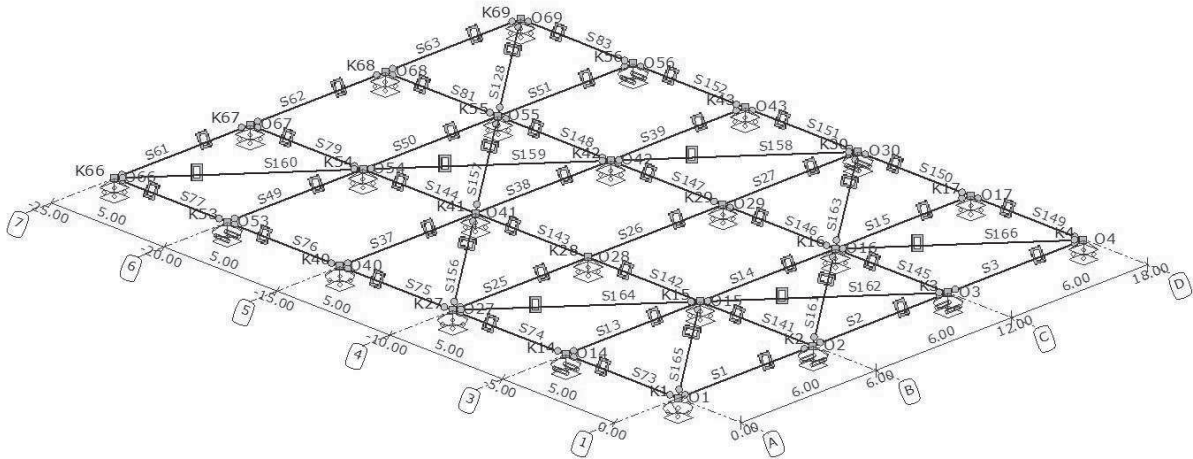
Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 51

Steek: 128

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs	
Bijlage H			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\dakverb-wind-cijferas-ontvangst.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staf	Knoop	Scharnier	Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E								
S1	K1	XYZr--	XYZr--	K2	P1	0.000	0.000	0.000	6.000	0.000	6.000
S2	K2	XYZr--	XYZr--	K3	P1	6.000	0.000	0.000	12.000	0.000	6.000
S3	K3	XYZr--	XYZr--	K4	P1	12.000	0.000	0.000	18.000	0.000	6.000
S13	K14	XYZr--	XYZrYrZr	K15	P1	0.000	-5.000	0.000	6.000	-5.000	6.000
S14	K15	XYZrYrZr	XYZrYrZr	K16	P1	6.000	-5.000	0.000	12.000	-5.000	6.000
S15	K16	XYZrYrZr	XYZr--	K17	P1	12.000	-5.000	0.000	18.000	-5.000	6.000
S25	K27	XYZr--	XYZrYrZr	K28	P1	0.000	-10.000	0.000	6.000	-10.000	6.000
S26	K28	XYZrYrZr	XYZrYrZr	K29	P1	6.000	-10.000	0.000	12.000	-10.000	6.000
S27	K29	XYZrYrZr	XYZr--	K30	P1	12.000	-10.000	0.000	18.000	-10.000	6.000
S37	K40	XYZr--	XYZrYrZr	K41	P1	0.000	-15.000	0.000	6.000	-15.000	6.000
S38	K41	XYZrYrZr	XYZrYrZr	K42	P1	6.000	-15.000	0.000	12.000	-15.000	6.000
S39	K42	XYZrYrZr	XYZr--	K43	P1	12.000	-15.000	0.000	18.000	-15.000	6.000
S49	K53	XYZr--	XYZrYrZr	K54	P1	0.000	-20.000	0.000	6.000	-20.000	6.000
S50	K54	XYZrYrZr	XYZrYrZr	K55	P1	6.000	-20.000	0.000	12.000	-20.000	6.000
S51	K55	XYZrYrZr	XYZr--	K56	P1	12.000	-20.000	0.000	18.000	-20.000	6.000
S61	K66	XYZr--	XYZr--	K67	P1	0.000	-25.000	0.000	6.000	-25.000	6.000
S62	K67	XYZr--	XYZr--	K68	P1	6.000	-25.000	0.000	12.000	-25.000	6.000
S63	K68	XYZr--	XYZr--	K69	P1	12.000	-25.000	0.000	18.000	-25.000	6.000
S73	K1	XYZr--	XYZr--	K14	P1	0.000	0.000	0.000	0.000	-5.000	5.000
S74	K14	XYZr--	XYZr--	K27	P1	0.000	-5.000	0.000	0.000	-10.000	5.000
S75	K27	XYZr--	XYZr--	K40	P1	0.000	-10.000	0.000	0.000	-15.000	5.000
S76	K40	XYZr--	XYZr--	K53	P1	0.000	-15.000	0.000	0.000	-20.000	5.000
S77	K53	XYZr--	XYZr--	K66	P1	0.000	-20.000	0.000	0.000	-25.000	5.000
S79	K54	XYZr--	XYZr--	K67	P3	6.000	-20.000	0.000	6.000	-25.000	5.000
S81	K55	XYZr--	XYZr--	K68	P3	12.000	-20.000	0.000	12.000	-25.000	5.000
S83	K56	XYZr--	XYZr--	K69	P1	18.000	-20.000	0.000	18.000	-25.000	5.000
S128	K55	XYZr--	XYZr--	K69	P1	12.000	-20.000	0.000	18.000	-25.000	7.810
S141	K2	XYZrYrZr	XYZrYrZr	K15	P3	6.000	0.000	0.000	6.000	-5.000	5.000
S142	K15	XYZrYrZr	XYZrYrZr	K28	P3	6.000	-5.000	0.000	6.000	-10.000	5.000
S143	K28	XYZrYrZr	XYZrYrZr	K41	P3	6.000	-10.000	0.000	6.000	-15.000	5.000
S144	K41	XYZrYrZr	XYZrYrZr	K54	P3	6.000	-15.000	0.000	6.000	-20.000	5.000
S145	K3	XYZrYrZr	XYZr--	K16	P3	12.000	0.000	0.000	12.000	-5.000	5.000
S146	K16	XYZr--	XYZr--	K29	P3	12.000	-5.000	0.000	12.000	-10.000	5.000
S147	K29	XYZr--	XYZr--	K42	P3	12.000	-10.000	0.000	12.000	-15.000	5.000

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Staaf	Knoop	Scharnier		Knoop	Profiel	X-B	Y-B	Z-B	X-E	Y-E	Z-E	Lengte
	B	B	E	E								
S148	K42	XYZXr--	XYZXr--	K55	P3	12.000	-15.000	0.000	12.000	-20.000	0.000	5.000
S149	K4	XYZXr--	XYZXr--	K17	P1	18.000	0.000	0.000	18.000	-5.000	0.000	5.000
S150	K17	XYZXr--	XYZXr--	K30	P1	18.000	-5.000	0.000	18.000	-10.000	0.000	5.000
S151	K30	XYZXr--	XYZXr--	K43	P1	18.000	-10.000	0.000	18.000	-15.000	0.000	5.000
S152	K43	XYZXr--	XYZXr--	K56	P1	18.000	-15.000	0.000	18.000	-20.000	0.000	5.000
S156	K27	XYZXr--	XYZXr--	K41	P1	0.000	-10.000	0.000	6.000	-15.000	0.000	7.810
S157	K41	XYZXr--	XYZXr--	K55	P1	6.000	-15.000	0.000	12.000	-20.000	0.000	7.810
S158	K30	XYZXr--	XYZXr--	K42	P1	18.000	-10.000	0.000	12.000	-15.000	0.000	7.810
S159	K42	XYZXr--	XYZXr--	K54	P1	12.000	-15.000	0.000	6.000	-20.000	0.000	7.810
S160	K54	XYZXr--	XYZXr--	K66	P1	6.000	-20.000	0.000	0.000	-25.000	0.000	7.810
S161	K2	XYZXr--	XYZXr--	K16	P1	6.000	0.000	0.000	12.000	-5.000	0.000	7.810
S162	K3	XYZXr--	XYZXr--	K15	P1	12.000	0.000	0.000	6.000	-5.000	0.000	7.810
S163	K16	XYZXr--	XYZXr--	K30	P1	12.000	-5.000	0.000	18.000	-10.000	0.000	7.810
S164	K15	XYZXr--	XYZXr--	K27	P1	6.000	-5.000	0.000	0.000	-10.000	0.000	7.810
S165	K1	XYZXr--	XYZXr--	K15	P1	0.000	0.000	0.000	6.000	-5.000	0.000	7.810
S166	K4	XYZXr--	XYZXr--	K16	P1	18.000	0.000	0.000	12.000	-5.000	0.000	7.810
-	-	-	-	-	-	m	m	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	It	ly	Iz	Materiaal	Hoek
P1	KK100/4	1.4948e-03	3.5389e-06	2.2635e-06	2.2635e-06	S235H(EN10219-1)	0
P3	KK80/4	1.1748e-03	1.7559e-06	1.1104e-06	1.1104e-06	S235H(EN10219-1)	0
-	-	m2	m4	m4	m4	-	°

MATERIALEN

Materiaalnaam	Poison	Dichtheid	E-Modulus	Uitzettingcoëff
S235H(EN10219-1)	0.30	78.50	2.1000e+08	12.0000e-06
-	-	kN/m3	kN/m2	C'm

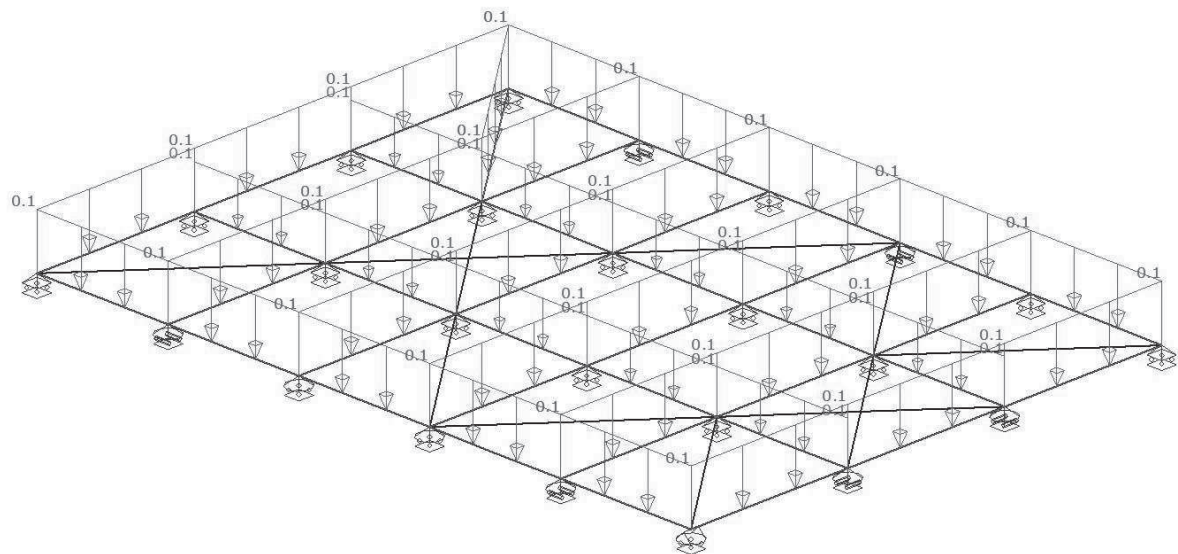
OPLEGGINGEN

Oplegging	Knopen	X	Y	Z	Xr	Yr	Zr	HoekXr	HoekYr	HoekZr
O1	K1	vrij	vrij	vast	vrij	vast	vrij	0	0	0
O2	K2	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O3	K3	vast	vrij	vast	vrij	vrij	vrij	0	0	0
O4	K4	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O14	K14	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O15	K15	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O16	K16	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O17	K17	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O27	K27	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O28	K28	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O29	K29	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O30	K30	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O40	K40	vrij	vrij	vast	vrij	vrij	vrij	0	0	0
O41	K41	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O42	K42	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O43	K43	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O53	K53	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O54	K54	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O55	K55	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O56	K56	vrij	vast	vast	vrij	vrij	vrij	0	0	0
O66	K66	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O67	K67	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O68	K68	vrij	vrij	vast	vrij	vrij	vast	0	0	0
O69	K69	vrij	vrij	vast	vrij	vrij	vast	0	0	0
-	-	kN/m	kN/m	kN/m	kNmrad	kNmrad	kNmrad	°	°	°

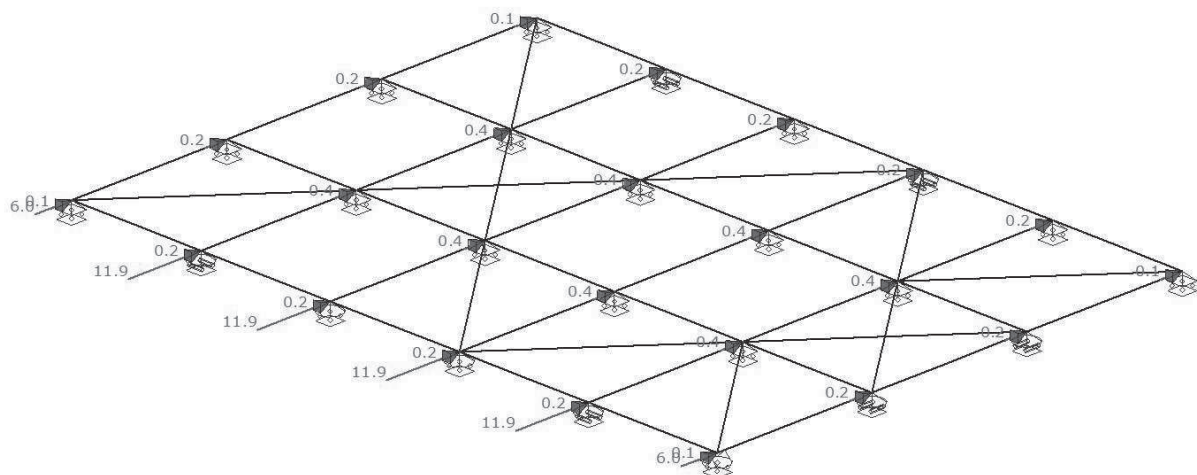
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Windbelasting	Windbelasting	-		N.v.t.	N.v.t.		0.20		1.00
B.G.3	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				

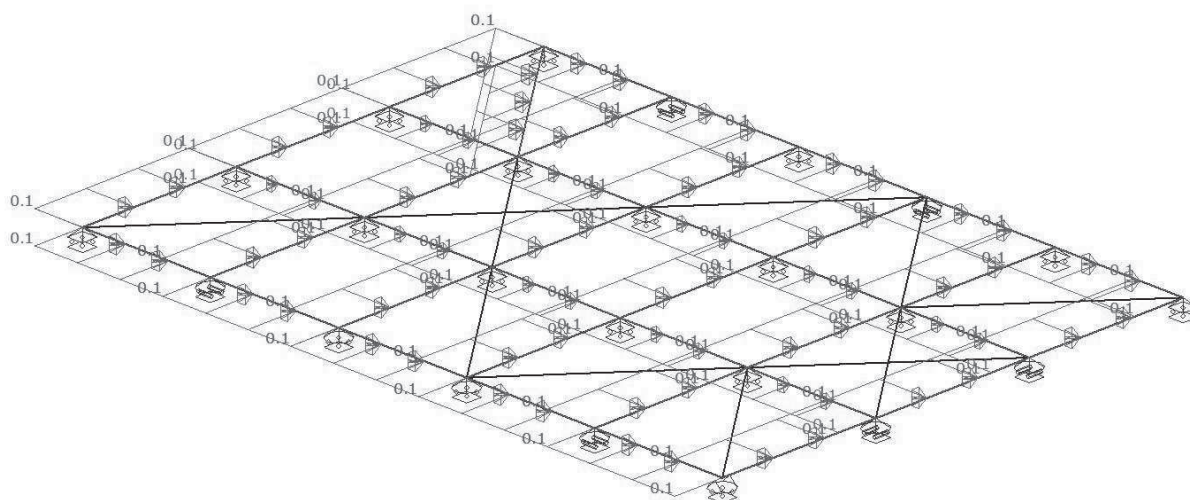
AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 WINDBELASTING



AFB. LASTEN B.G.3 KNIKLENGTE (ASSYMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2
B.G.1	Permanent	1.20	1.35
B.G.2	Windbelasting	1.50	-
B.G.3	Kniklengte (Assymetrisch)	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Windbelasting	-	-	1.00
B.G.3	Kniklengte (Assymetrisch)	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Windbelasting	-	0.20
B.G.3	Kniklengte (Assymetrisch)	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Windbelasting	-
B.G.3	Kniklengte (Assymetrisch)	-

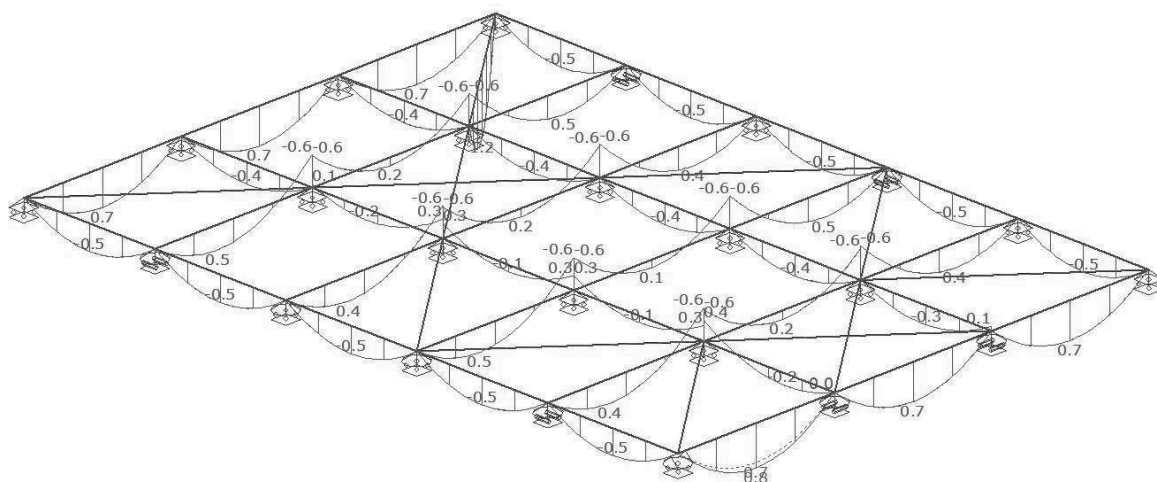
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

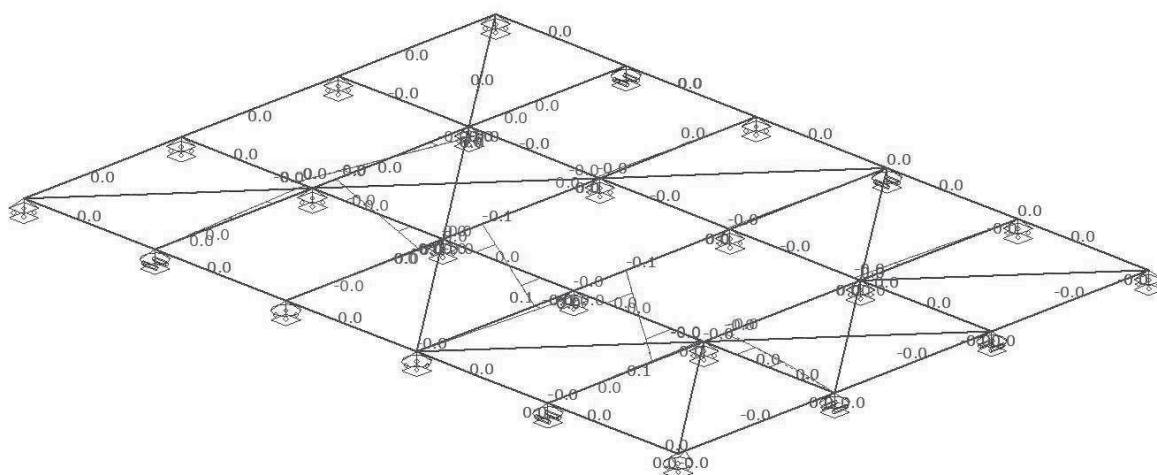
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



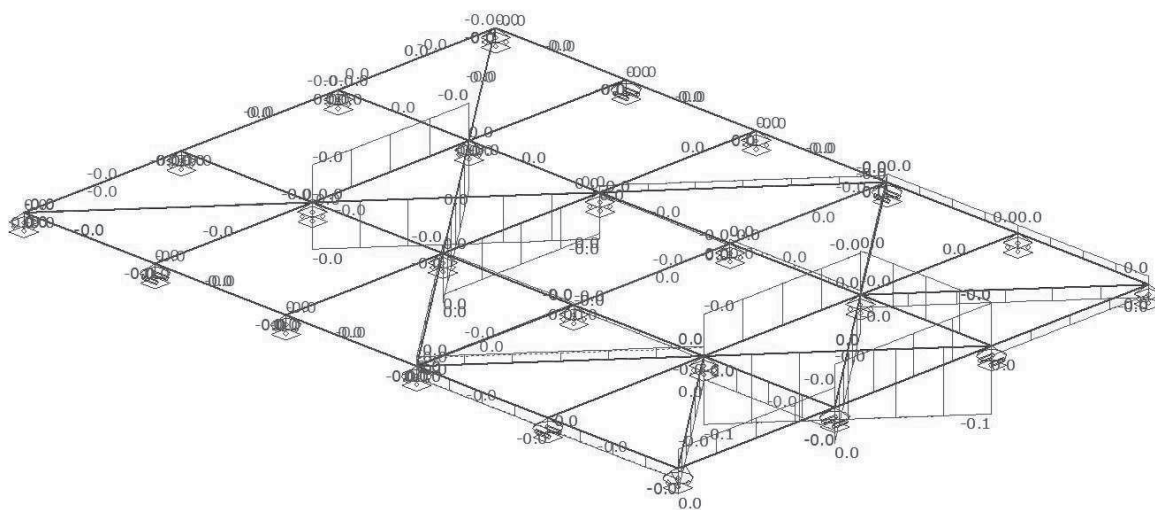
AFB. FU.C. MOMENT (MZ) OMHULLENDE

Fundamenteel Belastingscombinaties



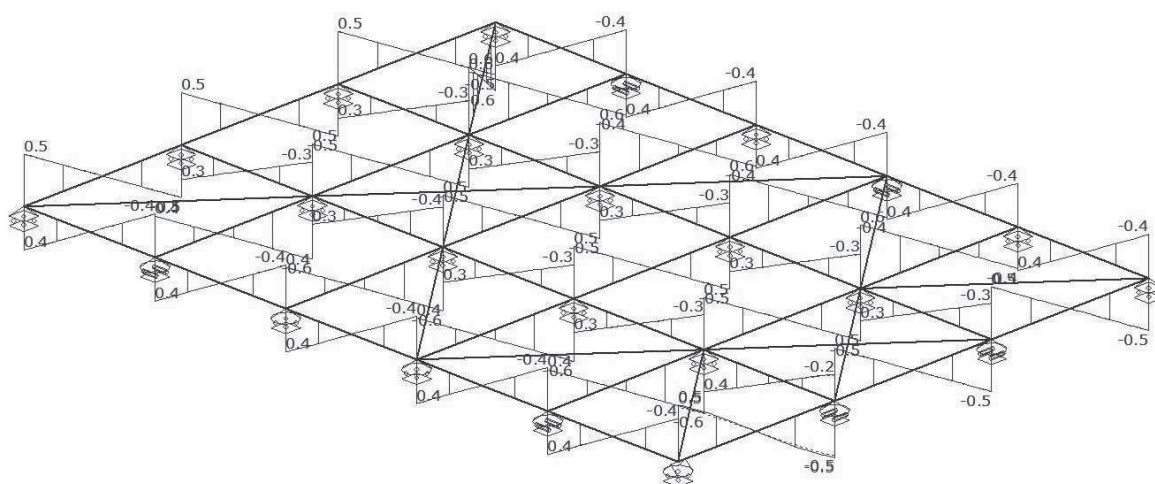
AFB. FU.C. MOMENT (MX) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S14	Fu.C.2	Mz	0.00			0.00	0.000	0.000
		My	0.00	0.45	2.400	-0.60	4.737	0.000
	Fu.C.1	Mz	0.00			0.00	0.000	0.000
		My	-0.51	0.14	3.000	-0.48	1.668	4.396
S15	Fu.C.2	Mz	0.00			0.00	3.101	0.000
		My	-0.55	0.16	3.000	-0.55	1.607	4.400
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	4.034	0.000
		My	-0.53	0.40	3.600	0.00	1.256	0.000
S25	Fu.C.2	Mz	-0.01			0.00	0.000	0.000
		My	-0.60	0.44	3.600	0.00	1.267	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	0.000	0.000
		My	0.00	0.42	2.400	-0.51	4.803	0.000
S26	Fu.C.2	Mz	0.00			0.01	0.001	0.000
		My	0.00	0.45	2.400	-0.57	4.793	0.000
	Fu.C.1	Mz	0.00			0.00	0.007	0.000
		My	-0.51	0.12	3.000	-0.51	1.697	4.304
S27	Fu.C.2	Mz	0.00			0.00	3.004	0.000
		My	-0.57	0.14	3.000	-0.57	1.672	4.328
	Fu.C.1	Mz	0.00			0.00	3.004	0.000
		My	-0.52	0.42	3.600	0.00	1.199	0.000
S37	Fu.C.2	Mz	0.00			0.00	0.000	0.000
		My	-0.57	0.45	3.600	0.00	1.207	0.000
	Fu.C.1	Mz	0.00			0.00	5.986	0.000
		My	0.00	0.44	2.400	-0.55	4.771	0.000
S38	Fu.C.2	Mz	0.00			0.00	0.000	0.000
		My	0.00	0.45	2.400	-0.59	4.760	0.000
	Fu.C.1	Mz	0.00			0.00	0.000	0.000
		My	-0.52	0.13	3.000	-0.49	1.697	4.356
S39	Fu.C.2	Mz	0.00			0.00	2.943	0.000
		My	-0.56	0.15	3.000	-0.56	1.632	4.365
	Fu.C.1	Mz	0.00			0.00	2.915	0.000
		My	-0.52	0.40	3.600	0.00	1.224	0.000
S49	Fu.C.2	Mz	-0.01			0.00	0.000	0.000
		My	-0.59	0.45	3.600	0.00	1.239	0.000
	Fu.C.1	Mz	0.00	0.00	3.600	0.00	1.205	0.000
		My	0.00	0.44	2.400	-0.54	4.775	0.000
S50	Fu.C.2	Mz	0.00			-0.01	0.000	0.000
		My	0.00	0.45	2.400	-0.59	4.764	0.000
	Fu.C.1	Mz	0.00	0.00	1.800	0.00	3.254	0.000
		My	-0.52	0.13	3.000	-0.49	1.704	4.355
S51	Fu.C.2	Mz	-0.03			0.03	2.992	0.000
		My	-0.56	0.15	3.000	-0.56	1.638	4.363
	Fu.C.1	Mz	0.00			0.00	2.828	0.000
		My	-0.52	0.40	3.600	0.00	1.222	0.000
S61	Fu.C.2	Mz	0.00	0.00	1.800	0.00	0.000	0.000
		My	-0.59	0.45	3.600	0.00	1.237	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	0.282	0.000
		My	0.00	0.64	3.000	0.00	0.000	0.000
S62	Fu.C.2	Mz	0.00	0.00	3.000	0.00	0.002	0.000
		My	0.00	0.71	3.000	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	6.000	0.000
		My	0.00	0.65	3.000	0.00	0.000	0.000
S63	Fu.C.2	Mz	0.00	0.00	3.000	0.00	0.002	0.000
		My	0.00	0.71	3.000	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	6.000	0.000
		My	0.00	0.65	3.000	0.00	0.000	0.000
S73	Fu.C.2	Mz	0.00	0.00	3.000	0.00	0.002	0.000
		My	0.00	0.71	3.000	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	6.000	0.000
		My	0.00	-0.48	2.500	0.00	0.000	0.000
S74	Fu.C.2	Mz	0.00	0.00	3.000	0.00	4.704	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	3.000	0.00	4.706	0.000
		My	0.00	-0.38	2.500	0.00	0.000	0.000

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S75	Fu.C.2	Mz	0.00	0.00	2.500	0.00	4.860	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	2.500	0.00	4.858	0.000
		My	0.00	-0.48	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	4.997	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
S76	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.48	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	4.997	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
S77	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.43	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	4.997	0.000
		My	0.00	-0.50	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.35	2.500	0.00	0.000	0.000
S79	Fu.C.2	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.39	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.35	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.39	2.500	0.00	0.000	0.000
S81	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.35	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.39	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.45	2.500	0.00	0.000	0.000
S83	Fu.C.2	Mz	0.00	0.00	2.500	0.00	4.997	0.000
		My	0.00	-0.50	2.500	0.00	0.000	0.000
	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.50	2.500	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	1.03	3.905	0.00	0.000	0.000
S128	Fu.C.1	Mz	0.00	0.00	3.905	0.00	7.803	0.000
		My	0.00	1.20	3.905	0.00	0.000	0.000
	Fu.C.2	Mz	0.00	0.00	3.905	0.00	0.000	0.000
		My	0.00	0.00	3.905	0.00	0.000	0.000
	Fu.C.1	Mz	0.02	-0.22	2.000	0.34	0.108	3.795
		My	0.00	-0.22	2.000	-0.04	0.003	0.000
S141	Fu.C.2	Mz	0.00	-0.22	2.000	0.37	0.016	3.776
		My	0.00	0.00	2.500	0.00	3.430	0.000
	Fu.C.1	Mz	0.25	-0.11	2.500	0.22	1.184	3.952
		My	0.09	-0.13	2.500	-0.09	2.502	0.000
	Fu.C.2	Mz	0.28	-0.13	2.500	0.25	1.136	3.951
		My	0.00	0.00	3.000	0.00	1.555	4.548
S143	Fu.C.1	Mz	0.22	-0.11	2.500	0.24	1.036	3.887
		My	0.07	-0.11	2.500	-0.07	2.502	0.000
	Fu.C.2	Mz	0.25	-0.13	2.500	0.28	1.045	3.864
		My	0.00	0.00	4.500	0.00	2.024	0.000
	Fu.C.1	Mz	0.30	-0.17	3.000	0.05	1.197	4.717
		My	0.04	-0.20	3.000	-0.04	2.505	0.000
S144	Fu.C.2	Mz	0.35	-0.20	3.000	0.06	1.189	4.728
		My	0.00	0.00	3.000	0.00	2.781	0.000
	Fu.C.1	Mz	0.06	-0.26	2.500	0.00	0.255	5.000
		My	0.00	0.00	2.000	0.00	0.786	0.000
	Fu.C.2	Mz	0.09	-0.35	2.500	0.00	0.291	0.000
		My	0.00	0.00	2.000	0.00	0.780	0.000
S146	Fu.C.1	Mz	0.00	-0.34	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	4.944	0.000
	Fu.C.2	Mz	0.00	-0.39	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	4.949	0.000
	Fu.C.1	Mz	0.00	-0.34	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.028	0.000
S147	Fu.C.2	Mz	0.00	-0.39	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.024	0.000
	Fu.C.1	Mz	0.00	-0.37	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	4.999	0.000
	Fu.C.2	Mz	0.00	-0.39	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	4.998	0.000
S149	Fu.C.1	My	0.00	-0.41	2.500	0.00	0.000	0.000

Dakverbanden, wind loodrecht op cijferas						Novares Constructeurs		
Staaf	B.C.	Waarde	Mb	Mmax	xMmax	Me	x-M0	x-M0
S150	Fu.C.2	Mz	0.00	0.00	2.500	0.00	0.040	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.042	0.000
	Fu.C.1	My	0.00	-0.41	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.047	0.000
		My	0.00	-0.49	2.500	0.00	0.000	0.000
S151	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.050	0.000
		My	0.00	-0.44	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.997	0.000
	Fu.C.2	My	0.00	-0.49	2.500	0.00	0.000	0.000
S152	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	-0.44	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	4.997	0.000
	Fu.C.2	My	0.00	-0.49	2.500	0.00	0.000	0.000
S156	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S157	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S158	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S159	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S160	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S161	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S162	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S163	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S164	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S165	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
S166	Fu.C.1	Mz	0.00	0.00	2.500	0.00	0.000	0.000
		My	0.00	0.00	2.500	0.00	0.000	0.000
		Mz	0.00	0.00	2.500	0.00	0.000	0.000
	Fu.C.2	My	0.00	0.00	2.500	0.00	0.000	0.000
-	-	-	kNm	kNm	m	kNm	m	m

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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FU.C. STAAFKRACHTEN (NX, VY, VZ, MX) ANALYSE

Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S1	Fu.C.1	D	-28.90 Vz	0.52	0.52	-0.52	-0.02	-0.02
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.06 Vz	0.48	-0.48	-0.48	-0.02	-0.02
S2	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.51 Vz	0.42	-0.42	-0.42	-0.02	-0.02
	Fu.C.2	T	0.64 Vz	0.47	-0.47	-0.47	-0.04	-0.04
S3	Fu.C.1	T	Vy	0.00	0.00	0.00		
			16.36 Vz	0.38	-0.38	-0.38	0.01	0.01
	Fu.C.2	T	0.06 Vz	0.48	-0.48	-0.48	0.01	0.01
S13	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-18.16 Vz	0.36	-0.53	-0.53	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.38	-0.57	-0.57	0.00	0.00
S14	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-5.84 Vz	0.43	0.43	-0.42	-0.03	-0.03
	Fu.C.2	D	-0.17 Vz	0.48	0.48	-0.47	-0.03	-0.03
S15	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.30 Vz	0.51	0.51	-0.33	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.57	0.57	-0.38	0.00	0.00
S25	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-4.94 Vz	0.35	-0.51	-0.51	0.00	0.00
	Fu.C.2	T	0.09 Vz	0.38	-0.57	-0.57	0.00	0.00
S26	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-5.54 Vz	0.42	0.42	-0.42	0.00	0.00
	Fu.C.2	T	0.09 Vz	0.48	0.48	-0.48	0.00	0.00
S27	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-6.14 Vz	0.51	0.51	-0.35	0.00	0.00
	Fu.C.2	T	0.09 Vz	0.57	0.57	-0.38	0.00	0.00
S37	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-18.15 Vz	0.36	-0.53	-0.53	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.38	-0.57	-0.57	0.00	0.00
S38	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-9.14 Vz	0.42	0.42	-0.42	0.03	0.03
	Fu.C.2	T	0.07 Vz	0.48	-0.48	-0.48	0.03	0.03
S39	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.30 Vz	0.51	0.51	-0.34	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.57	0.57	-0.38	0.00	0.00
S49	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-18.15 Vz	0.36	-0.53	-0.53	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.38	-0.57	-0.57	0.00	0.00
S50	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-7.59 Vz	0.43	0.43	-0.42	-0.03	-0.03
	Fu.C.2	T	0.22 Vz	0.48	0.48	-0.48	-0.03	-0.03
S51	Fu.C.1	T	Vy	0.00	0.00	0.00		
			0.30 Vz	0.51	0.51	-0.34	0.00	0.00
	Fu.C.2	T	0.00 Vz	0.57	0.57	-0.38	0.00	0.00
S61	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-2.04 Vz	0.43	0.43	-0.43	0.00	0.00
	Fu.C.2	D	-0.26 Vz	0.48	0.48	-0.48	0.00	0.00
S62	Fu.C.1	D	Vy	0.00	0.00	0.00		
			-2.34 Vz	0.43	0.43	-0.43	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S62	Fu.C.2	D	-0.26 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S63	Fu.C.1	D	-2.64 Vz	0.43	0.43	-0.43	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.26 Vz	0.48	0.48	-0.48	0.00	0.00
			Vy	0.00	0.00	0.00		
S73	Fu.C.1	D	-16.52 Vz	-0.38	-0.38	0.38	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.05 Vz	-0.40	0.40	0.40	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S74	Fu.C.1	T	30.73 Vz	-0.31	0.31	0.31	-0.01	-0.01
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.39 Vz	-0.40	0.40	0.40	-0.01	-0.01
			Vy	0.00	0.00	0.00		
S75	Fu.C.1	D	-15.09 Vz	-0.38	-0.38	0.38	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.13 Vz	-0.40	0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
S76	Fu.C.1	D	-15.09 Vz	-0.38	-0.38	0.38	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.13 Vz	-0.40	0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
S77	Fu.C.1	T	5.86 Vz	-0.34	0.34	0.34	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.21 Vz	-0.40	-0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
S79	Fu.C.1	T	0.00 Vz	-0.28	0.28	0.28	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	-0.31	0.31	0.31	0.00	0.00
			Vy	0.00	0.00	0.00		
S81	Fu.C.1	T	0.00 Vz	-0.28	0.28	0.28	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.00 Vz	-0.31	0.31	0.31	0.00	0.00
			Vy	0.00	0.00	0.00		
S83	Fu.C.1	D	-2.33 Vz	-0.36	-0.36	0.36	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	D	-0.21 Vz	-0.40	-0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
S128	Fu.C.1	T	3.64 Vz	0.53	-0.53	-0.53	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.34 Vz	0.62	-0.62	-0.62	0.00	0.00
			Vy	0.00	0.00	0.00		
S141	Fu.C.1	D	-20.97 Vz	-0.24	0.35	0.35	-0.02	-0.02
			Vy	-0.01	-0.01	0.00		
	Fu.C.2	T	0.08 Vz	-0.24	0.39	0.39	-0.02	-0.02
			Vy	0.00	0.00	0.00		
S142	Fu.C.1	T	1.28 Vz	-0.28	-0.28	0.27	0.00	0.00
			Vy	-0.04	-0.04	-0.04		
	Fu.C.2	T	0.12 Vz	-0.32	-0.32	0.31	0.00	0.00
			Vy	0.00	0.00	0.00		
S143	Fu.C.1	T	1.27 Vz	-0.27	0.28	0.28	0.00	0.00
			Vy	-0.03	-0.03	-0.03		
	Fu.C.2	T	0.12 Vz	-0.31	0.32	0.32	0.00	0.00
			Vy	0.00	0.00	0.00		
S144	Fu.C.1	T	9.28 Vz	-0.32	-0.32	0.22	0.00	0.00
			Vy	-0.02	-0.02	-0.02		
	Fu.C.2	T	0.18 Vz	-0.37	-0.37	0.25	0.00	0.00
			Vy	0.00	0.00	0.00		
S145	Fu.C.1	T	22.69 Vz	-0.25	-0.25	0.22	0.03	0.03
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.08 Vz	-0.33	-0.33	0.29	0.04	0.04
			Vy	0.00	0.00	0.00		
S146	Fu.C.1	T	1.30 Vz	-0.27	0.27	0.27	0.00	0.00
			Vy	0.00	0.00	0.00		
	Fu.C.2	T	0.12 Vz	-0.31	0.31	0.31	0.00	0.00
			Vy	0.00	0.00	0.00		
S147	Fu.C.1	T	1.30 Vz	-0.27	0.27	0.27	0.00	0.00

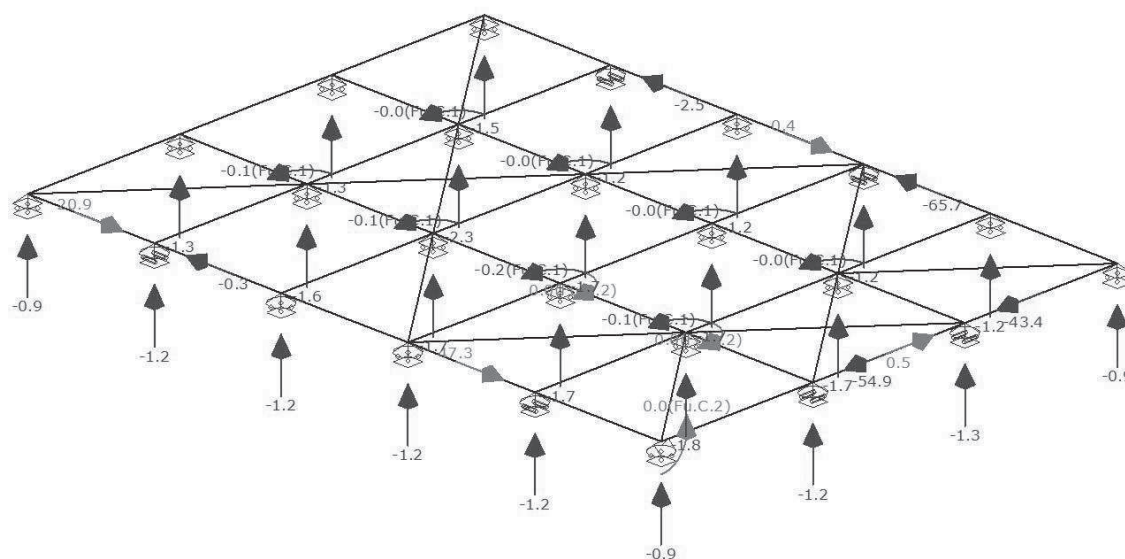
Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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Staaf	B.C.	T/D	Nmax Waarde	Vb	Vmax	Ve	Mxb	Mxe
S148	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.12 Vz	-0.31	0.31	0.31	0.00	0.00
			Vy	0.00	0.00	0.00		
S149	Fu.C.1	D	-7.07 Vz	-0.30	-0.30	0.30	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.18 Vz	-0.31	0.31	0.31	0.00	0.00
S150	Fu.C.2	T	Vy	0.00	0.00	0.00		
			13.51 Vz	-0.33	0.33	0.33	0.00	0.00
			Vy	0.00	0.00	0.00		
S151	Fu.C.1	T	0.05 Vz	-0.40	0.40	0.40	0.01	0.01
			Vy	0.00	0.00	0.00		
			13.51 Vz	-0.33	0.33	0.33	0.00	0.00
S152	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.05 Vz	-0.40	0.40	0.40	0.01	0.01
			Vy	0.00	0.00	0.00		
S156	Fu.C.1	T	0.18 Vz	-0.35	0.35	0.35	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.22 Vz	-0.40	0.40	0.40	0.00	0.00
S157	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.18 Vz	-0.35	0.35	0.35	0.00	0.00
			Vy	0.00	0.00	0.00		
S158	Fu.C.1	D	0.22 Vz	-0.40	0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.18 Vz	-0.35	0.35	0.35	0.00	0.00
S159	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.22 Vz	-0.40	0.40	0.40	0.00	0.00
			Vy	0.00	0.00	0.00		
S160	Fu.C.1	D	27.19 Vz	0.00	0.00	0.00	-0.01	-0.01
			Vy	0.00	0.00	0.00		
			0.14 Vz	0.00	0.00	0.00	-0.01	-0.01
S161	Fu.C.2	T	Vy	0.00	0.00	0.00		
			14.69 Vz	0.00	0.00	0.00	0.04	0.04
			Vy	0.00	0.00	0.00		
S162	Fu.C.1	D	0.05 Vz	0.00	0.00	0.00	0.04	0.04
			Vy	0.00	0.00	0.00		
			-36.72 Vz	0.00	0.00	0.00	0.00	0.00
S163	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.14 Vz	0.00	0.00	0.00	0.01	0.01
			Vy	0.00	0.00	0.00		
S164	Fu.C.1	D	-23.66 Vz	0.00	0.00	0.00	-0.03	-0.03
			Vy	0.00	0.00	0.00		
			0.05 Vz	0.00	0.00	0.00	-0.04	-0.04
S165	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.05 Vz	0.00	0.00	0.00	0.04	0.04
			Vy	0.00	0.00	0.00		
S166	Fu.C.1	D	-9.15 Vz	0.00	0.00	0.00	0.00	0.00
			Vy	0.00	0.00	0.00		
			0.33 Vz	0.00	0.00	0.00	0.00	0.00
S167	Fu.C.2	T	Vy	0.00	0.00	0.00		
			32.75 Vz	0.00	0.00	0.00	0.03	0.03
			Vy	0.00	0.00	0.00		
S168	Fu.C.1	D	-0.12 Vz	0.00	0.00	0.00	0.03	0.03
			Vy	0.00	0.00	0.00		
			-35.44 Vz	0.00	0.00	0.00	-0.05	-0.05
S169	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-0.12 Vz	0.00	0.00	0.00	-0.06	-0.06
			Vy	0.00	0.00	0.00		
S170	Fu.C.1	D	45.08 Vz	0.00	0.00	0.00	0.00	0.00
			Vy	0.00	0.00	0.00		
			-0.26 Vz	0.00	0.00	0.00	0.00	0.00
S171	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-44.38 Vz	0.00	0.00	0.00	0.01	0.01
			Vy	0.00	0.00	0.00		
S172	Fu.C.1	D	-0.26 Vz	0.00	0.00	0.00	0.01	0.01
			Vy	0.00	0.00	0.00		
			25.81 Vz	0.00	0.00	0.00	0.02	0.02
S173	Fu.C.2	T	Vy	0.00	0.00	0.00		
			-0.07 Vz	0.00	0.00	0.00	0.02	0.02
			Vy	0.00	0.00	0.00		
S174	Fu.C.1	D	-21.10 Vz	0.00	0.00	0.00	-0.01	-0.01
			Vy	0.00	0.00	0.00		
			-0.07 Vz	0.00	0.00	0.00	-0.01	-0.01
S175	Fu.C.2	T	Vy	0.00	0.00	0.00		
			0.05 Vz	0.00	0.00	0.00	0.04	0.04
			Vy	0.00	0.00	0.00		

- - - kN - kN kN kN kNm kNm

AFB. FU.C. OPLEGREACTIES OMHULLENDE

Fundamenteel Belastingscombinaties



FU.C. OPLEGREACTIES ANALYSE

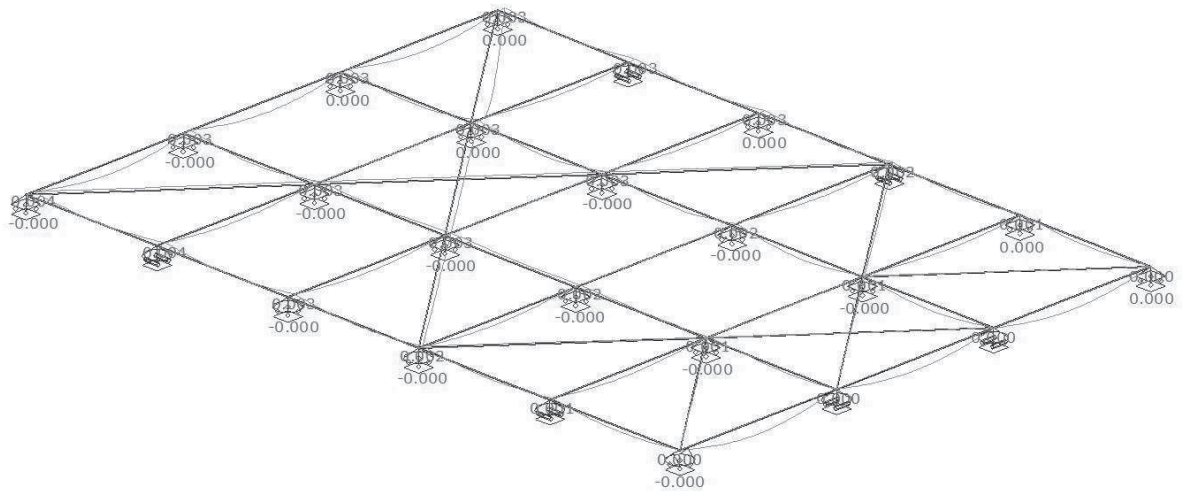
B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Fu.C.1	O1	K1	0.00	0.00	-0.78	0.00	0.00	0.00
Fu.C.1	O2	K2	-54.88	0.00	-1.06	0.00	0.00	0.00
Fu.C.1	O3	K3	-43.37	0.00	-1.13	0.00	0.00	0.00
Fu.C.1	O4	K4	0.00	0.00	-0.78	0.00	0.00	0.00
Fu.C.1	O14	K14	0.00	47.25	-1.04	0.00	0.00	0.00
Fu.C.1	O15	K15	0.00	0.00	-1.57	0.00	0.00	-0.13
Fu.C.1	O16	K16	0.00	0.00	-1.47	0.00	0.00	-0.01
Fu.C.1	O17	K17	0.00	0.00	-1.04	0.00	0.00	0.00
Fu.C.1	O27	K27	0.00	0.00	-1.04	0.00	0.00	0.00
Fu.C.1	O28	K28	0.00	0.00	-1.47	0.00	0.00	-0.18
Fu.C.1	O29	K29	0.00	0.00	-1.49	0.00	0.00	-0.01
Fu.C.1	O30	K30	0.00	-65.69	-1.04	0.00	0.00	0.00
Fu.C.1	O40	K40	0.00	0.00	-1.04	0.00	0.00	0.00
Fu.C.1	O41	K41	0.00	0.00	-1.55	0.00	0.00	-0.12
Fu.C.1	O42	K42	0.00	0.00	-1.48	0.00	0.00	-0.01
Fu.C.1	O43	K43	0.00	0.00	-1.04	0.00	0.00	0.00
Fu.C.1	O53	K53	0.00	20.95	-1.04	0.00	0.00	0.00
Fu.C.1	O54	K54	0.00	0.00	-1.45	0.00	0.00	-0.06
Fu.C.1	O55	K55	0.00	0.00	-2.03	0.00	0.00	-0.03
Fu.C.1	O56	K56	0.00	-2.50	-1.04	0.00	0.00	0.00
Fu.C.1	O66	K66	0.00	0.00	-0.78	0.00	0.00	0.00
Fu.C.1	O67	K67	0.00	0.00	-1.12	0.00	0.00	0.00
Fu.C.1	O68	K68	0.00	0.00	-1.12	0.00	0.00	0.00
Fu.C.1	O69	K69	0.00	0.00	-1.33	0.00	0.00	0.00
Som Reacties			-98.25	0.00	-28.92			
Som Lasten			98.25	0.00	28.92			
Fu.C.2	O1	K1	0.00	0.00	-0.87	0.00	0.00	0.00
Fu.C.2	O2	K2	-0.49	0.00	-1.19	0.00	0.00	0.00
Fu.C.2	O3	K3	0.49	0.00	-1.28	0.00	0.00	0.00
Fu.C.2	O4	K4	0.00	0.00	-0.87	0.00	0.00	0.00
Fu.C.2	O14	K14	0.00	0.34	-1.17	0.00	0.00	0.00
Fu.C.2	O15	K15	0.00	0.00	-1.75	0.00	0.00	0.00
Fu.C.2	O16	K16	0.00	0.00	-1.65	0.00	0.00	0.00
Fu.C.2	O17	K17	0.00	0.00	-1.17	0.00	0.00	0.00
Fu.C.2	O27	K27	0.00	0.00	-1.17	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas	Novares Constructeurs						
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Fu.C.2	O28	K28	0.00	0.00	-1.66	0.00	0.00	0.00
Fu.C.2	O29	K29	0.00	0.00	-1.67	0.00	0.00	0.00
Fu.C.2	O30	K30	0.00	0.43	-1.17	0.00	0.00	0.00
Fu.C.2	O40	K40	0.00	0.00	-1.17	0.00	0.00	0.00
Fu.C.2	O41	K41	0.00	0.00	-1.73	0.00	0.00	0.00
Fu.C.2	O42	K42	0.00	0.00	-1.67	0.00	0.00	0.00
Fu.C.2	O43	K43	0.00	0.00	-1.17	0.00	0.00	0.00
Fu.C.2	O53	K53	0.00	-0.34	-1.17	0.00	0.00	0.00
Fu.C.2	O54	K54	0.00	0.00	-1.61	0.00	0.00	0.00
Fu.C.2	O55	K55	0.00	0.00	-2.29	0.00	0.00	0.00
Fu.C.2	O56	K56	0.00	-0.43	-1.17	0.00	0.00	0.00
Fu.C.2	O66	K66	0.00	0.00	-0.87	0.00	0.00	0.00
Fu.C.2	O67	K67	0.00	0.00	-1.26	0.00	0.00	0.00
Fu.C.2	O68	K68	0.00	0.00	-1.26	0.00	0.00	0.00
Fu.C.2	O69	K69	0.00	0.00	-1.49	0.00	0.00	0.00
Som Reacties			0.00	0.00	-32.49			
Som Lasten			0.00	0.00	32.49			
-	-	-	kN	kN	kN	kNm	kNm	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K1	Ka.C.(w1)	0.0000	0.0000	0.0000	0.795e-03	-0.000e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.795e-03	-0.000e-03	0.000e-03
	Ka.C.2	0.0004	-0.0002	0.0000	0.820e-03	-0.000e-03	0.000e-03
K2	Ka.C.(w1)	0.0000	0.0000	0.0000	1.049e-03	-0.127e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	1.049e-03	-0.127e-03	-0.000e-03
	Ka.C.2	0.0000	-0.0004	0.0000	1.084e-03	-0.131e-03	-0.315e-03
K3	Ka.C.(w1)	0.0000	0.0000	0.0000	1.600e-03	0.584e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	1.600e-03	0.584e-03	0.000e-03
	Ka.C.2	0.0000	0.0002	0.0000	1.443e-03	0.540e-03	-0.190e-03
K4	Ka.C.(w1)	0.0000	0.0000	0.0000	1.475e-03	0.521e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	1.475e-03	0.521e-03	0.000e-03
	Ka.C.2	0.0002	0.0003	0.0000	1.340e-03	0.442e-03	0.000e-03
K14	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.066e-03	0.117e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.066e-03	0.117e-03	0.000e-03
	Ka.C.2	0.0013	0.0000	0.0000	-0.099e-03	0.131e-03	0.000e-03
K15	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.066e-03	0.362e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.066e-03	0.362e-03	0.000e-03

Dakverbanden, wind loodrecht op cijferas							Novares Constructeurs
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Knoop	B.C.	X	Y	Z	Xr	Yr	Zr
K15	Ka.C.2	0.0010	-0.0001	0.0000	-0.099e-03	0.402e-03	-0.000e-03
K16	Ka.C.(w1)	0.0000	0.0000	0.0000	0.468e-03	-0.356e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.468e-03	-0.356e-03	-0.000e-03
	Ka.C.2	0.0009	-0.0001	0.0000	0.439e-03	-0.365e-03	-0.000e-03
K17	Ka.C.(w1)	0.0000	0.0000	0.0000	0.468e-03	0.435e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.468e-03	0.435e-03	0.000e-03
	Ka.C.2	0.0010	0.0001	0.0000	0.439e-03	0.371e-03	0.000e-03
K27	Ka.C.(w1)	0.0000	0.0000	0.0000	0.006e-03	0.233e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.006e-03	0.233e-03	0.000e-03
	Ka.C.2	0.0022	-0.0003	0.0000	0.000e-03	0.261e-03	0.000e-03
K28	Ka.C.(w1)	0.0000	0.0000	0.0000	0.002e-03	0.436e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.002e-03	0.436e-03	0.000e-03
	Ka.C.2	0.0021	-0.0001	0.0000	0.011e-03	0.454e-03	-0.000e-03
K29	Ka.C.(w1)	0.0000	0.0000	0.0000	0.007e-03	-0.436e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.007e-03	-0.436e-03	-0.000e-03
	Ka.C.2	0.0021	-0.0001	0.0000	0.008e-03	-0.453e-03	-0.000e-03
K30	Ka.C.(w1)	0.0000	0.0000	0.0000	0.013e-03	0.348e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.013e-03	0.348e-03	0.000e-03
	Ka.C.2	0.0020	0.0000	0.0000	0.006e-03	0.299e-03	0.000e-03
K40	Ka.C.(w1)	0.0000	0.0000	0.0000	0.065e-03	0.233e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.065e-03	0.233e-03	0.000e-03
	Ka.C.2	0.0032	-0.0002	0.0000	0.048e-03	0.264e-03	0.000e-03
K41	Ka.C.(w1)	0.0000	0.0000	0.0000	0.065e-03	0.392e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	0.065e-03	0.392e-03	-0.000e-03
	Ka.C.2	0.0030	-0.0001	0.0000	0.048e-03	0.434e-03	-0.000e-03
K42	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.462e-03	-0.394e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.462e-03	-0.394e-03	-0.000e-03
	Ka.C.2	0.0028	-0.0001	0.0000	-0.468e-03	-0.406e-03	-0.000e-03
K43	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.462e-03	0.348e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.462e-03	0.348e-03	0.000e-03
	Ka.C.2	0.0028	0.0000	0.0000	-0.468e-03	0.302e-03	0.000e-03
K53	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.821e-03	0.233e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.821e-03	0.233e-03	0.000e-03
	Ka.C.2	0.0037	0.0000	0.0000	-0.786e-03	0.266e-03	0.000e-03
K54	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.821e-03	0.397e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.821e-03	0.397e-03	-0.000e-03
	Ka.C.2	0.0035	-0.0002	0.0000	-0.786e-03	0.440e-03	-0.000e-03
K55	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.340e-03	-0.396e-03	-0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.340e-03	-0.396e-03	-0.000e-03
	Ka.C.2	0.0034	0.0000	0.0000	-0.309e-03	-0.408e-03	-0.000e-03
K56	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.340e-03	0.348e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.340e-03	0.348e-03	0.000e-03
	Ka.C.2	0.0034	0.0000	0.0000	-0.309e-03	0.304e-03	0.000e-03
K66	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.959e-03	0.233e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.959e-03	0.233e-03	0.000e-03
	Ka.C.2	0.0035	-0.0001	0.0000	-0.922e-03	0.268e-03	0.000e-03
K67	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.959e-03	0.397e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.959e-03	0.397e-03	0.000e-03
	Ka.C.2	0.0035	-0.0002	0.0000	-0.918e-03	0.440e-03	0.000e-03
K68	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.959e-03	-0.396e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.959e-03	-0.396e-03	0.000e-03
	Ka.C.2	0.0035	0.0000	0.0000	-0.915e-03	-0.408e-03	0.000e-03
K69	Ka.C.(w1)	0.0000	0.0000	0.0000	-0.959e-03	0.348e-03	0.000e-03
	Ka.C.1	0.0000	0.0000	0.0000	-0.959e-03	0.348e-03	0.000e-03
	Ka.C.2	0.0034	0.0000	0.0000	-0.912e-03	0.306e-03	0.000e-03
-	-	m	m	m	rad	rad	rad

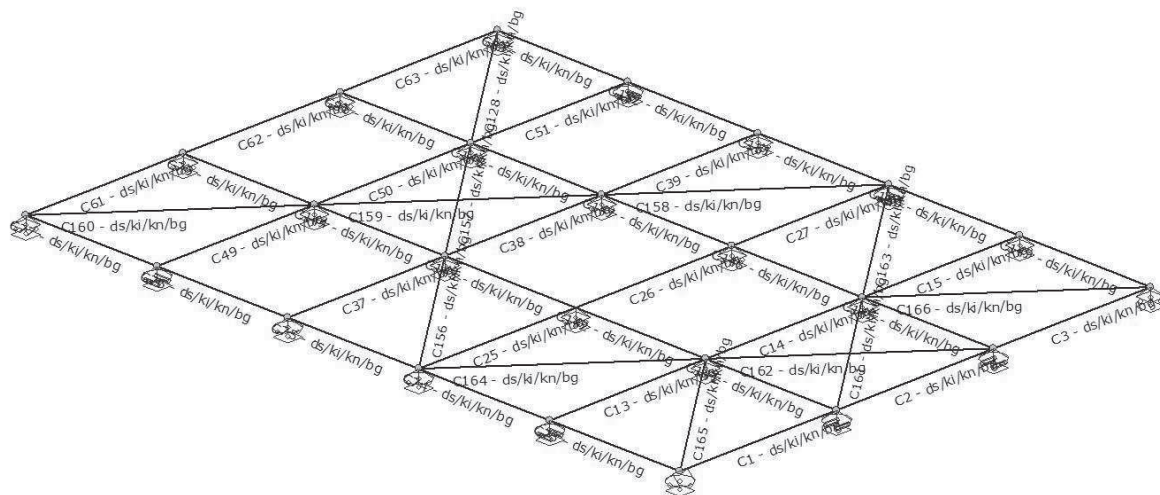
KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin				Staaf	Knoop Eind				
		X	Y	Z	Z'afst	Z'	Y'afst	Y'	X	Y	Z

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Staaf	B.C.	Knoop Begin			Z'afst	Staaf			Knoop Eind		
		X	Y	Z		Z'	Y'afst	Y'	X	Y	Z
S1	Ka.C.2	0,000	0,000	0,000	3,000	0.0048	0,000	0,0000	0,000	0,000	0,000
S2	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0042	0,000	0,0000	0,000	0,000	0,000
S2	Ka.C.1	0,000	0,000	0,000	3,000	0.0042	0,000	0,0000	0,000	0,000	0,000
S3	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0042	0,000	0,0000	0,000	0,000	0,000
S3	Ka.C.1	0,000	0,000	0,000	3,000	0.0042	0,000	0,0000	0,000	0,000	0,000
S13	Ka.C.2	0,001	0,000	0,000	2,400	0.0022	3,600	0.0000	0,001	0,000	0,000
S14	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0003	0,000	0,0000	0,000	0,000	0,000
S14	Ka.C.1	0,000	0,000	0,000	3,000	0.0003	0,000	0,0000	0,000	0,000	0,000
S15	Ka.C.2	0,001	0,000	0,000	3,600	0.0021	3,000	0.0000	0,001	0,000	0,000
S25	Ka.C.2	0,002	0,000	0,000	2,400	0.0022	3,600	0.0000	0,002	0,000	0,000
S26	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S26	Ka.C.1	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S27	Ka.C.2	0,002	0,000	0,000	3,600	0.0022	3,000	0.0000	0,002	0,000	0,000
S37	Ka.C.2	0,003	0,000	0,000	2,400	0.0023	4,200	0.0000	0,003	0,000	0,000
S38	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S38	Ka.C.1	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S38	Ka.C.2	0,003	0,000	0,000	3,000	0,0002	5,400	0.0000	0,003	0,000	0,000
S39	Ka.C.2	0,003	0,000	0,000	3,600	0.0021	3,000	0.0000	0,003	0,000	0,000
S49	Ka.C.2	0,004	0,000	0,000	2,400	0.0023	3,600	0.0000	0,003	0,000	0,000
S50	Ka.C.(w1)	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S50	Ka.C.1	0,000	0,000	0,000	3,000	0.0002	0,000	0,0000	0,000	0,000	0,000
S50	Ka.C.2	0,003	0,000	0,000	3,000	0,0002	1,200	0.0000	0,003	0,000	0,000
S51	Ka.C.2	0,003	0,000	0,000	3,600	0.0021	0,000	0,0000	0,003	0,000	0,000
S61	Ka.C.2	0,004	0,000	0,000	3,000	0.0042	0,000	0,0000	0,003	0,000	0,000
S62	Ka.C.2	0,003	0,000	0,000	3,000	0.0042	0,000	0,0000	0,003	0,000	0,000
S63	Ka.C.2	0,003	0,000	0,000	3,000	0.0042	0,000	0,0000	0,003	0,000	0,000
S73	Ka.C.2	0,000	0,000	0,000	2,500	-0.0021	0,000	0,0000	0,001	0,000	0,000
S74	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S74	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S75	Ka.C.2	0,002	0,000	0,000	2,500	-0.0021	0,000	0,0000	0,003	0,000	0,000
S76	Ka.C.2	0,003	0,000	0,000	2,500	-0.0021	0,000	0,0000	0,004	0,000	0,000
S77	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S77	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S79	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S79	Ka.C.1	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S81	Ka.C.2	0,003	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,003	0,000	0,000
S83	Ka.C.2	0,003	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,003	0,000	0,000
S128	Ka.C.(w1)	0,000	0,000	0,000	3,905	0.0119	0,000	0,0000	0,000	0,000	0,000
S128	Ka.C.1	0,000	0,000	0,000	3,905	0.0119	0,000	0,0000	0,000	0,000	0,000
S141	Ka.C.2	0,000	0,000	0,000	2,000	-0.0015	3,000	-0.0002	0,001	0,000	0,000
S142	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0006	0,000	0,0000	0,000	0,000	0,000
S142	Ka.C.1	0,000	0,000	0,000	2,500	-0.0006	0,000	0,0000	0,000	0,000	0,000
S142	Ka.C.2	0,001	0,000	0,000	2,500	-0,0006	1,000	0.0001	0,002	0,000	0,000
S143	Ka.C.2	0,002	0,000	0,000	2,500	-0.0006	1,000	0.0001	0,003	0,000	0,000
S144	Ka.C.(w1)	0,000	0,000	0,000	3,000	-0.0012	0,000	0,0000	0,000	0,000	0,000
S144	Ka.C.1	0,000	0,000	0,000	3,000	-0.0012	0,000	0,0000	0,000	0,000	0,000
S144	Ka.C.2	0,003	0,000	0,000	3,000	-0,0012	1,000	0.0000	0,003	0,000	0,000
S145	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0028	0,000	0,0000	0,000	0,000	0,000
S145	Ka.C.1	0,000	0,000	0,000	2,500	-0.0028	0,000	0,0000	0,000	0,000	0,000
S146	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S146	Ka.C.1	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S147	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S147	Ka.C.1	0,000	0,000	0,000	2,500	-0.0032	0,000	0,0000	0,000	0,000	0,000
S148	Ka.C.2	0,003	0,000	0,000	2,500	-0.0034	0,000	0,0000	0,003	0,000	0,000
S149	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S149	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S150	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S150	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S151	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S151	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S152	Ka.C.(w1)	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
S152	Ka.C.1	0,000	0,000	0,000	2,500	-0.0020	0,000	0,0000	0,000	0,000	0,000
-	-	m	m	m	m	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaft/staven
C1	S1
C2	S2
C3	S3
C13	S13
C14	S14
C15	S15
C25	S25
C26	S26
C27	S27
C37	S37
C38	S38
C39	S39
C49	S49
C50	S50
C51	S51
C61	S61
C62	S62
C63	S63
C73	S73
C74	S74
C75	S75
C76	S76
C77	S77
C79	S79
C81	S81
C83	S83
C128	S128
C141	S141
C142	S142
C143	S143
C144	S144
C145	S145
C146	S146
C147	S147
C148	S148
C149	S149
C150	S150

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C151	S151
C152	S152
C156	S156
C157	S157
C158	S158
C159	S159
C160	S160
C161	S161
C162	S162
C163	S163
C164	S164
C165	S165
C166	S166

KNIKLENGTEGEGEVENS

Staat	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C13 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C14 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C15 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C25 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C26 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C27 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C37 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C38 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C49 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C50 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C61 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C62 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C63 - V1 (0.000-6.000)	P1	6.000	Cons. gesch.	6.000	1.00	Cons. gesch.	6.000	1.00
C73 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C75 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C76 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C77 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C81 - V1 (0.000-5.000)	P3	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C83 - V1 (0.000-5.000)	P1	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C141 - V1 (0.000-5.000)	P3	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C148 - V1 (0.000-5.000)	P3	5.000	Cons. gesch.	5.000	1.00	Cons. gesch.	5.000	1.00
C158 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C159 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C160 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C161 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C162 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C163 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C164 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C165 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
C166 - V1 (0.000-7.810)	P1	7.810	Cons. gesch.	7.810	1.00	Cons. gesch.	7.810	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEDEVENS

Staat	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C2 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C3 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C13 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C14 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C15 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C25 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C26 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C27 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C37 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C38 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C39 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C49 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C50 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C51 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C61 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C62 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C63 - V1 (0.000-6.000)	P1	Gesteund	Gesteund			Centrum
C73 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C74 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C75 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C76 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C77 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C79 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C81 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C83 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C128 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C141 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C142 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C143 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C144 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C145 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C146 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C147 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C148 - V1 (0.000-5.000)	P3	Gesteund	Gesteund			Centrum
C149 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C150 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C151 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C152 - V1 (0.000-5.000)	P1	Gesteund	Gesteund			Centrum
C156 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C157 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C158 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C159 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C160 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C161 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C162 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C163 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C164 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C165 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
C166 - V1 (0.000-7.810)	P1	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

DOORBUIGINGGEGEVENS

Staaf	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C1 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C2 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C3 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C13 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C14 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C15 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C25 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C26 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C27 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs				
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Staaft	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C37 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C38 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C39 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C49 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C50 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C51 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C61 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C62 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C63 - V1 (0.000-6.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C73 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C74 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C75 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C76 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C77 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C79 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C81 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C83 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C128 - V1 (0.000-7.810)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C141 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C142 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C143 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C144 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C145 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C146 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C147 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C148 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C149 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C150 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C151 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C152 - V1 (0.000-5.000)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C156 - V1 (0.000-7.810)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C157 - V1 (0.000-7.810)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C158 - V1 (0.000-7.810)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C159 - V1 (0.000-7.810)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C160 - V1 (0.000-7.810)	Vloer	Algemeen	0	0	3-Punt	L/250	L/333
C161 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
C162 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
C163 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
C164 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
C165 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
C166 - V1 (0.000-7.810)	Dak	Algemeen	0	0	Parabolisch	L/250	L/250
-	-	-	mm	mm	-	-	-

STAALTOETS RESULTATEN MET PROFIELGEGEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C1-V1 (0.000-6.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C1-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -28.9 kN	My;Ed = 0.0 kNm
Vy;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
Vz;Ed = 0.5 kN	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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N;Rd = 351.3 kN Vy;Rd = 101.4 kN MyRd = 12.5 kNm
Vz;Rd = 101.4 kN MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.08 < 1

Kiptoetsing C1-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 33.5 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.7 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 6.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C1-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -28.9 kN

Nb;Rd;y = 95.8 kN

Nb;Rd;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 6.000 m

Xy = 0.27

Knikcurve: C

Xz = 0.27

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.30 < 1

Buiging & Druk C1-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -28.9 kN

My;Ed = 0.7 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.8 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 1.179

Kyz = 0.710

Kzy = 0.708

Kzz = 1.183

Ksi;y = 0.27

Ksi;z = 0.27

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.38 < 1

Doorbuigingstoetsing Y' C1-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 4.800 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.800 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.200 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C1-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;3 = 0.1 mm (x = 3.000 mm; Fr.C.1)

w;tot; = 4.2 mm

(w;2+w;3) = 0.1 mm

w;max = 4.2 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.2

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Doorbuigingstoetsing Z" C1-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 4.2 mm

w;max = 4.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.1 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.1 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C2-V1 (0.000-6.000)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C2-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 3.000 m

Profielklasse = 1

N;Ed = 0.6 kN

Vy;Ed = 0.0 kN

My;Ed = 0.7 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MNyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.06 < 1

Kiptoetsing C2-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

Ist = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 33.5 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.7 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 6.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C2-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 5.400 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 5.400 mm; Qu.C.1)

w;3 = 0.0 mm (x = 0.060 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C2-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;tot; = 4.2 mm
w;max = 4.2 mm
Limiet w;max = L/250 = 24.0 mm
UC(w;max) = 0.2
NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Doorbuigingstoetsing Z" C2-V1 (0.000-6.000)

Constructietype : Vloer
w;c = 0.0 mm
w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))
w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)
w;tot; = 4.2 mm
w;max = 4.2 mm
Limiet w;max = L/250 = 24.0 mm
UC(w;max) = 0.2
NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

(w;2+w;3) = 0.0 mm
Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;2+w;3) = 0.0

Toets type: Algemeen
Zeegvorm 3-Punt
w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm
Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;2+w;3) = 0.0

Profielgegevens staaf C3-V1 (0.000-6.000)

KK100/4 Analyse
h = 100.0 mm A = 1.49e-03 m2
b = 100.0 mm Iy = 226.4e-08 m4
tf = 4.0 mm Iz = 226.4e-08 m4
tw = 4.0 mm Massa/m = 11.7 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 452.7e-07 m3 Wy;pl = 533.0e-07 m3
Wz;el = 452.7e-07 m3 Wz;pl = 533.0e-07 m3
Aw;y;el = 7.47e-04 m2 Aw;y;pl = 7.47e-04 m2
Aw;z;el = 7.47e-04 m2 Aw;z;pl = 7.47e-04 m2
It = 353.9e-08 m4 Iwa = 521.5e-11 m6

Doorsnedetoetsing C3-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 3.000 m
N;Ed = 0.1 kN Vy;Ed = 0.0 kN
 Vz;Ed = 0.0 kN
N;Rd = 351.3 kN Vy;Rd = 101.4 kN
 Vz;Rd = 101.4 kN
NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.06 < 1

Profielklasse = 1
My;Ed = 0.7 kNm
Mz;Ed = 0.0 kNm
MNyRd = 12.5 kNm
MNzRd = 12.5 kNm

Kiptoetsing C3-V1 (0.000-6.000)

Equi. profiel: KK100/4
Maatgevende combinatie: Fu.C.2
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.
Inklem. begin: Gesteund Beperk. eind: Gesteund
Tabel gebruikt NB 6.2 q = 0.2kN/m
Bovenflens maatgevend Xb;lst = 0.000 m
Lsys = 6.000 m Lg = 6.000 m
C1 = 1.13 C2 = 0.45 (tabel)
Mcr = 33.5 kNm kred = 1.0
Chi;LT(Fu.C.2) = 1.00 M;Ed = 0.7 kNm
Chi;LT,Z = 1.00 lkip = 6.000 m
My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.001 b-eff(Eind) = 0.001
= 0.0
Xe;lst = 6.000 m Ist = 6.000 m
S = 0.062 m Iwa = 5.2151e-09 m6
C2(toegepast) = 0.00 C = 3.55
Lam-rel = 0.00 Profielklasse 1
UC(y) = 0.00
UC(z) = 0.00

Doorbuigingstoetsing Y' C3-V1 (0.000-6.000)

Constructietype : Vloer
w;c = 0.0 mm
w;1 = 0.0 mm (x = 0.060 mm; Fr.C.(w1))
w;3 = 0.0 mm (x = 0.060 mm; Qu.C.1)
w;tot; = 0.0 mm
w;max = 0.0 mm
Limiet w;max = L/250 = 24.0 mm
UC(w;max) = 0.0
NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen
Zeegvorm 3-Punt
w;2 = 0.0 mm
w;3 = 0.0 mm (x = 5.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm
Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C3-V1 (0.000-6.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Constructietype : Vloer

w;c = 0.0 mm

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 4.2 mm

w;max = 4.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = -0.1 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = -0.1 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C3-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 4.2 mm

w;max = 4.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = -0.1 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = -0.1 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C13-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

I_y = 226.4e-08 m⁴

t_f = 4.0 mm

I_z = 226.4e-08 m⁴

t_w = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_y;el = 452.7e-07 m³

W_y;pl = 533.0e-07 m³

W_z;el = 452.7e-07 m³

W_z;pl = 533.0e-07 m³

A_w;y;el = 7.47e-04 m²

A_w;y;pl = 7.47e-04 m²

A_w;z;el = 7.47e-04 m²

A_w;z;pl = 7.47e-04 m²

I_t = 353.9e-08 m⁴

I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C13-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -18.2 kN

V_y;Ed = 0.0 kN

V_z;Ed = 0.4 kN

N;Rd = 351.3 kN

V_y;Rd = 101.4 kN

V_z;Rd = 101.4 kN

Profielklasse = 1

M_y;Ed = 0.0 kNm

M_z;Ed = 0.0 kNm

M_yRd = 12.5 kNm

M_zRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Kipstoetsing C13-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 6.000 m

L_g = 6.000 m

C1 = 1.66

C2 = 0.80 (tabel)

M_{cr} = 47.1 kNm

k_{red} = 1.0

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.4 kNm

Chi;LT,Z = 1.00

I_{kip} = 6.000 m

M_y;begin = 0.0 kNm

M_y;eind = -0.6 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.001

MBeta = 0.0

q = 0.2

X_e;l_{st} = 6.000 m

I_{st} = 6.000 m

S = 0.062 m

I_{wa} = 5.2151e-09 m⁶

C2(toegepast) = 0.00

C = 5.00

Lam-rel = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Stabiliteitstoetsing C13-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN

N_b;R_d;y = 95.8 kN

N_b;R_d;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

C_b(y) = 0.000

L_{knik} Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

C_b(z) = N/B

L_{knik} Z = 6.000 m

X_y = 0.27

K_{nik}curve: C

X_z = 0.27

K_{nik}curve: C

NEN-EN1993-1-1(6.46): UC = 0.19 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Buiging & Druk C13-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN

My;Ed = 0.4 kNm

Delta;My;Ed = 0.0 kNm

My = -0.6 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.68

Cmz = 0.65

Kyy = 0.788

Kyz = 0.452

Ksi;y = 0.27

Ksi;z = 0.27

NEN-EN1993-1-1(6.61&6.62): UC = 0.22 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.4 kNm

Mz;s = 0.0 kNm

CmLT = 0.68

Kzy = 0.473

Ksi;LT = 1.00

Kzz = 0.754

Doorbuigingstoetsing Y' C13-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.600 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C13-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C13-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C14-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m2

b = 100.0 mm

Iy = 226.4e-08 m4

tf = 4.0 mm

Iz = 226.4e-08 m4

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C14-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = -0.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.5 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

Profielklasse = 1

My;Ed = -0.6 kNm

Mz;Ed = 0.0 kNm

MNyRd = 12.5 kNm

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Kiptoetsing C14-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

MBeta = -0.6

q = 0.2

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 2.30

C2 = 1.59 (tabel)

C2(toegepast) = 0.00

C = 7.23

Mcr = 68.1 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.2 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 6.000 m

UC(z) = 0.00

My;begin = -0.6 kNm

My;eind = -0.6 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C14-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -5.8 kN

Nb;Rd;y = 95.8 kN

Nb;Rd;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 6.000 m

Xy = 0.27

Knikcurve: C

Xz = 0.27

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.06 < 1

Buiging & Druk C14-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -5.8 kN

My;Ed = 0.2 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = -0.5 kNm

My;Psi = -0.5 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.40

Cmz = 0.40

CmLT = 0.40

Kyy = 0.419

Kyz = 0.252

Kzy = 0.252

Kzz = 0.419

Ksi;y = 0.27

Ksi;z = 0.27

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.08 < 1

Doorbuigingstoetsing Y' C14-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 1.200 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 1.200 mm; Qu.C.1)

w;3 = 0.0 mm (x = 1.200 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C14-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.3 mm (x = 3.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

w;tot; = 0.3 mm

w;max = 0.3 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Doorbuigingstoetsing Z" C14-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;c = 0.0 mm
 w;1 = 0.3 mm (x = 3.000 mm; Fr.C.(w1))
 w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)
 w;tot; = 0.3 mm
 w;max = 0.3 mm
 Limiet w;max = L/250 = 24.0 mm
 UC(w;max) = 0.0
 NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Zeegvorm 3-Punt
 w;2 = 0.0 mm
 w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)
 (w;2+w;3) = 0.0 mm
 Limiet (w;2+w;3) = L/333 = 18.0 mm
 UC(w;2+w;3) = 0.0

Profielgegevens staaf C15-V1 (0.000-6.000)

KK100/4 Analyse
 h = 100.0 mm A = 1.49e-03 m²
 b = 100.0 mm I_y = 226.4e-08 m⁴
 t_f = 4.0 mm I_z = 226.4e-08 m⁴
 t_w = 4.0 mm Massa/m = 11.7 kg/m
 r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²
 W_{y;el} = 452.7e-07 m³ W_{y;pl} = 533.0e-07 m³
 W_{z;el} = 452.7e-07 m³ W_{z;pl} = 533.0e-07 m³
 A_{w;y;el} = 7.47e-04 m² A_{w;y;pl} = 7.47e-04 m²
 A_{w;z;el} = 7.47e-04 m² A_{w;z;pl} = 7.47e-04 m²
 I_t = 353.9e-08 m⁴ I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C15-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m
 N;Ed = 0.0 kN V_{y;Ed} = 0.0 kN
 V_{z;Ed} = 0.6 kN
 N;Rd = 351.3 kN V_{y;Rd} = 101.4 kN
 V_{z;Rd} = 101.4 kN

Profielklasse = 1
 M_{y;Ed} = -0.6 kNm
 M_{z;Ed} = 0.0 kNm
 M_{NyRd} = 12.5 kNm
 M_{NzRd} = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C15-V1 (0.000-6.000)

Equi. profiel: KK100/4
 Maatgevende combinatie: Fu.C.2
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund Beperk. eind: Gesteund
 Tabel gebruikt Fig. NB.32 M = -0.6kN/m
 Bovenflens maatgevend X_{b;lst} = 0.000 m
 L_{sys} = 6.000 m L_g = 6.000 m
 C1 = 1.66 C2 = 0.80 (tabel)
 M_{cr} = 49.0 kNm k_{red} = 1.0
 Ch_i;LT(Fu.C.2) = 1.00 M_{i;Ed} = 0.4 kNm
 Ch_i;LT,Z = 1.00 I_{kip} = 6.000 m
 M_{y;begin} = -0.6 kNm M_{y;eind} = 0.0 kNm

b-eff(Begin) = 0.001 b-eff(Eind) = 0.000
 MBeta = 0.0 q = 0.2
 X_{e;lst} = 6.000 m I_{st} = 6.000 m
 S = 0.062 m I_{wa} = 5.2151e-09 m⁶
 C2(toegepast) = 0.00 C = 5.20
 Lam-rel = 0.00 Profielklasse 1
 UC(y) = 0.00
 UC(z) = 0.00

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C15-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2
 N;Ed = 0.0 kN N_{b;Rd;y} = 95.8 kN
 Methode Y = Cons. gesch. Ca(y) = 0.000
 Methode Z = Cons. gesch. Ca(z) = N/B
 X_y = 0.27
 X_z = 0.27

N_{b;Rd;z} = 95.8 kN
 C_b(y) = 0.000 L_{knik} Y = 6.000 m
 C_b(z) = N/B L_{knik} Z = 6.000 m
 Knikcurve: C
 Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C15-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2
 N;Ed = 0.0 kN M_{y;Ed} = 0.4 kNm
 Delta;M_{y;Ed} = 0.0 kNm
 M_y = -0.6 kNm M_{y;Psi} = 0.0 kNm
 M_z = 0.0 kNm M_{z;Psi} = 0.0 kNm
 C_{m;y} = 0.65 C_{m;z} = 0.95
 K_{yy} = 0.653 K_{yz} = 0.570
 K_{si;y} = 0.27 K_{si;z} = 0.27

Profielklasse = 1
 M_{z;Ed} = 0.0 kNm
 Delta;M_{z;Ed} = 0.0 kNm
 M_{y;s} = 0.4 kNm
 M_{z;s} = 0.0 kNm
 C_{mLT} = 0.65
 K_{zy} = 0.392 K_{zz} = 0.951
 K_{si;LT} = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.03 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorbuigingstoetsing Y' C15-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 2.400 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C15-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.1 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C15-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.1 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C25-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

Iy = 226.4e-08 m⁴

tf = 4.0 mm

Iz = 226.4e-08 m⁴

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 452.7e-07 m³

Wy;pl = 533.0e-07 m³

Wz;el = 452.7e-07 m³

Wz;pl = 533.0e-07 m³

Aw;y;el = 7.47e-04 m²

Aw;y;pl = 7.47e-04 m²

Aw;z;el = 7.47e-04 m²

Aw;z;pl = 7.47e-04 m²

It = 353.9e-08 m⁴

Iwa = 521.5e-11 m⁶

Doorsnedetoetsing C25-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 6.000 m

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = -0.6 kNm

Vz;Ed = -0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MNyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C25-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Lsys = 6.000 m

Lg = 6.000 m

C1 = 1.55

C2 = 0.78 (tabel)

Mcr = 45.7 kNm

kred = 1.0

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.001

MBeta = 0.0

q = 0.2

Xe;lst = 6.000 m

lst = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m⁶

C2(toegepast) = 0.00

C = 4.86

Lam-rel = 0.00

Profielklasse 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Chi;LT(Fu.C.2) = 1.00 M;Ed = 0.5 kNm UC(y) = 0.00
Chi;LT,Z = 1.00 Ikip = 6.000 m UC(z) = 0.00
My;begin = 0.0 kNm My;eind = -0.6 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C25-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1
N;Ed = -4.9 kNm Nb;Rd;y = 95.8 kNm Nb;Rd;z = 95.8 kNm
Methode Y = Cons. gesch. Ca(y) = 0.000 Cb(y) = 0.000 Lknik Y = 6.000 m
Methode Z = Cons. gesch. Ca(z) = N/B Cb(z) = N/B Lknik Z = 6.000 m
Xy = 0.27 Knikcurve: C
Xz = 0.27 Knikcurve: C
NEN-EN1993-1-1(6.46): UC = 0.05 < 1

Buiging & Druk C25-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1
N;Ed = -4.9 kNm My;Ed = 0.5 kNm Profielklasse = 1
Delta;My;Ed = 0.0 kNm Mz;Ed = 0.0 kNm
Delta;Mz;Ed = 0.0 kNm
My = -0.5 kNm My;Psi = 0.0 kNm My;s = 0.4 kNm
Mz = 0.0 kNm Mz;Psi = 0.0 kNm Mz;s = 0.0 kNm
Cmy = 0.71 Cmz = 0.62 CmLT = 0.71
Kyy = 0.739 Kyz = 0.386 Kzy = 0.443 Kzz = 0.644
Ksi;y = 0.27 Ksi;z = 0.27 Ksi;LT = 1.00
NEN-EN1993-1-1(6.61&6.62): UC = 0.08 < 1

Doorbuigingstoetsing Y' C25-V1 (0.000-6.000)

Constructietype : Vloer Toets type: Algemeen
w;c = 0.0 mm Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 3.600 mm; Fr.C.(w1)) w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1) w;3 = 0.0 mm (x = 3.600 mm; Fr.C.1)
w;tot; = 0.0 mm
w;max = 0.0 mm (w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.0 UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C25-V1 (0.000-6.000)

Constructietype : Vloer Toets type: Algemeen
w;c = 0.0 mm Zeegvorm 3-Punt
w;1 = 2.2 mm (x = 2.400 mm; Fr.C.(w1)) w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1) w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;tot; = 2.2 mm
w;max = 2.2 mm (w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.1 UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.09<1

Doorbuigingstoetsing Z" C25-V1 (0.000-6.000)

Constructietype : Vloer Toets type: Algemeen
w;c = 0.0 mm Zeegvorm 3-Punt
w;1 = 2.2 mm (x = 2.400 mm; Fr.C.(w1)) w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1) w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;tot; = 2.2 mm
w;max = 2.2 mm (w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.1 UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.09<1

Profielgegevens staaf C26-V1 (0.000-6.000)

KK100/4 Analyse Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
h = 100.0 mm A = 1.49e-03 m2 Wy;el = 452.7e-07 m3 Wy;pl = 533.0e-07 m3

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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b = 100.0 mm	ly = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	lz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C26-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = 0.1 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.5 kN
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN
	Vz;Rd = 101.4 kN
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.05 < 1	MNzRd = 12.5 kNm

Kiptoetsing C26-V1 (0.000-6.000)

Equi. profiel: KK100/4			
Maatgevende combinatie: Fu.C.2		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt Fig. NB.32	M = -0.6kN/m	MBeta = -0.6	q = 0.2
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 6.000 m	lst = 6.000 m
Lsys = 6.000 m	Lg = 6.000 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 2.30	C2 = 1.60 (tabel)	C2(toegepast) = 0.00	C = 7.23
Mcr = 68.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.1 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 6.000 m		UC(z) = 0.00
My;begin = -0.6 kNm	My;eind = -0.6 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C26-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -5.5 kN	Nb;Rd;y = 95.8 kN	Nb;Rd;z = 95.8 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 6.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 6.000 m
Xy = 0.27		Knikcurve: C	
Xz = 0.27		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.06 < 1			

Buiging & Druk C26-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -5.5 kN	My;Ed = 0.1 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = -0.5 kNm	My;Psi = -0.5 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.40	Cmz = 0.40	CmLT = 0.40	
Kyy = 0.418	Kyz = 0.251	Kzy = 0.251	Kzz = 0.418
Ksi;y = 0.27	Ksi;z = 0.27	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.07 < 1			

Doorbuigingstoetsing Y' C26-V1 (0.000-6.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 4.800 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 4.800 mm; Qu.C.1)	w;3 = 0.0 mm (x = 1.200 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorbuigingstoetsing Z' C26-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 0.2 mm

w;max = 0.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C26-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 0.2 mm

w;max = 0.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C27-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

I_y = 226.4e-08 m⁴

tf = 4.0 mm

I_z = 226.4e-08 m⁴

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_y;el = 452.7e-07 m³

W_y;pl = 533.0e-07 m³

W_z;el = 452.7e-07 m³

W_z;pl = 533.0e-07 m³

A_w;y;el = 7.47e-04 m²

A_w;y;pl = 7.47e-04 m²

A_w;z;el = 7.47e-04 m²

A_w;z;pl = 7.47e-04 m²

I_t = 353.9e-08 m⁴

I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C27-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.1 kN

V_y;Ed = 0.0 kN

V_z;Ed = 0.6 kN

N;Rd = 351.3 kN

V_y;Rd = 101.4 kN

V_z;Rd = 101.4 kN

Profielklasse = 1

M_y;Ed = -0.6 kNm

M_z;Ed = 0.0 kNm

MN_yRd = 12.5 kNm

MN_zRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C27-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 6.000 m

L_g = 6.000 m

C1 = 1.55

C2 = 0.78 (tabel)

M_{cr} = 45.7 kNm

k_{red} = 1.0

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.5 kNm

Chi;LT,Z = 1.00

I_{kip} = 6.000 m

M_y;begin = -0.6 kNm

M_y;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.001

b-eff(Eind) = 0.000

MBeta = 0.0

q = 0.2

X_e;l_{st} = 6.000 m

l_{st} = 6.000 m

S = 0.062 m

I_{wa} = 5.2151e-09 m⁶

C2(toegepast) = 0.00

C = 4.85

Lam-rel = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Stabiliteitstoetsing C27-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -6.1 kN

N_b;R_d;y = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Methode Z = Cons. gesch.

Ca(z) = N/B

X_y = 0.27

N_b;R_d;z = 95.8 kN

C_b(y) = 0.000

L_{knik} Y = 6.000 m

C_b(z) = N/B

L_{knik} Z = 6.000 m

Knikcurve: C

Knikcurve: C

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.46): UC = 0.06 < 1

Buiging & Druk C27-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -6.1 kN

My;Ed = 0.5 kNm

Delta;My;Ed = 0.0 kNm

My = -0.5 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.71

Cmz = 0.62

Kyy = 0.745

Kyz = 0.394

Ksi;y = 0.27

Ksi;z = 0.27

NEN-EN1993-1-1(6.61&6.62): UC = 0.09 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.4 kNm

Mz;s = 0.0 kNm

CmLT = 0.71

Kzy = 0.447

Ksi;LT = 1.00

Kzz = 0.656

Doorbuigingstoetsing Y' C27-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 2.400 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C27-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.2 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 2.2 mm

w;max = 2.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C27-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.2 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 2.2 mm

w;max = 2.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C37-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m2

b = 100.0 mm

Iy = 226.4e-08 m4

tf = 4.0 mm

Iz = 226.4e-08 m4

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C37-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -18.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.4 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.5 kNm

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Kiptoetsing C37-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.001

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

MBeta = 0.0

q = 0.2

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.61

C2 = 0.79 (tabel)

C2(toegepast) = 0.00

C = 4.92

Mcr = 46.4 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.4 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 6.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = -0.6 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C37-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN

Nb;Rd;y = 95.8 kN

Nb;Rd;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 6.000 m

Xy = 0.27

Knikcurve: C

Xz = 0.27

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.19 < 1

Buiging & Druk C37-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN

My;Ed = 0.4 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = -0.5 kNm

My;Psi = 0.0 kNm

My;s = 0.4 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.70

Cmz = 0.67

CmLT = 0.70

Kyy = 0.808

Kyz = 0.460

Kzy = 0.485

Kzz = 0.767

Ksi;y = 0.27

Ksi;z = 0.27

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.22 < 1

Doorbuigingstoetsing Y' C37-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.600 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.600 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C37-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.1

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Doorbuigingstoetsing Z" C37-V1 (0.000-6.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)

w;tot; = 2.1 mm

w;max = 2.1 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C38-V1 (0.000-6.000)

KK100/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C38-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 6.000 m

Profielklasse = 1

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

My;Ed = -0.6 kNm

Vz;Ed = -0.5 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MNyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Kipstoetsing C38-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

MBeta = -0.6

q = 0.2

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 2.30

C2 = 1.60 (tabel)

C2(toegepast) = 0.00

C = 7.23

Mcr = 68.1 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.2 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 6.000 m

UC(z) = 0.00

My;begin = -0.6 kNm

My;eind = -0.6 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C38-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -9.1 kN

Nb;Rd;y = 95.8 kN

Nb;Rd;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 6.000 m

Xy = 0.27

Knikcurve: C

Xz = 0.27

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.10 < 1

Buiging & Druk C38-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -9.1 kN

My;Ed = 0.2 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = -0.5 kNm

My;Psi = -0.5 kNm

My;s = 0.1 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.40

Cmz = 0.40

CmLT = 0.40

Kyy = 0.431

Kyz = 0.258

Kzy = 0.258

Kzz = 0.431

Ksi;y = 0.27

Ksi;z = 0.27

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.11 < 1

Doorbuigingstoetsing Y' C38-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 1.200 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 1.200 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.800 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C38-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 0.2 mm

w;max = 0.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C38-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 0.2 mm

w;max = 0.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C39-V1 (0.000-6.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

Iy = 226.4e-08 m⁴

tf = 4.0 mm

Iz = 226.4e-08 m⁴

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 452.7e-07 m³

Wy;pl = 533.0e-07 m³

Wz;el = 452.7e-07 m³

Wz;pl = 533.0e-07 m³

Aw;y;el = 7.47e-04 m²

Aw;y;pl = 7.47e-04 m²

Aw;z;el = 7.47e-04 m²

Aw;z;pl = 7.47e-04 m²

It = 353.9e-08 m⁴

Iwa = 521.5e-11 m⁶

Doorsnedetoetsing C39-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = -0.6 kNm

Vz;Ed = 0.6 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MNyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C39-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.000

Tabel gebruikt Fig. NB.32

M = -0.6kN/m

MBeta = 0.0

q = 0.2

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

Iwa = 5.2151e-09 m⁶

C1 = 1.61

C2 = 0.79 (tabel)

C2(toegepast) = 0.00

C = 5.08

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Mcr = 47.9 kNm kred = 1.0 Lam-rel = 0.00 Profielklasse 1
 Chi;LT(Fu.C.2) = 1.00 M;Ed = 0.4 kNm UC(y) = 0.00
 Chi;LT,Z = 1.00 lkip = 6.000 m UC(z) = 0.00
 My;begin = -0.6 kNm My;eind = 0.0 kNm
 NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C39-V1 (0.000-6.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 2.400 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z' C39-V1 (0.000-6.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 2.1 mm (x = 3.600 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)
w;tot; = 2.1 mm	
w;max = 2.1 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.09<1	

Doorbuigingstoetsing Z" C39-V1 (0.000-6.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 2.1 mm (x = 3.600 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.400 mm; Fr.C.1)
w;tot; = 2.1 mm	
w;max = 2.1 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.09<1	

Profielgegevens staaf C49-V1 (0.000-6.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C49-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m	Profielklasse = 1
N;Ed = -18.2 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MyRd = 12.5 kNm
	MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Kiptoetsing C49-V1 (0.000-6.000)

Equi. profiel: KK100/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.2	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	Beperk. eind: Gesteund
	b-eff(Begin) = 0.000
	b-eff(Eind) = 0.001

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Tabel gebruikt Fig. NB.32	M = -0.6kN/m	MBeta = 0.0	q = 0.2
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 6.000 m	lst = 6.000 m
Lsys = 6.000 m	Lg = 6.000 m	S = 0.062 m	lwa = 5.2151e-09 m6
C1 = 1.60	C2 = 0.79 (tabel)	C2(toegepast) = 0.00	C = 4.90
Mcr = 46.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.5 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 6.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = -0.6 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C49-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN	Nb;Rd;y = 95.8 kN	Nb;Rd;z = 95.8 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 6.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 6.000 m
Xy = 0.27		Knikcurve: C	
Xz = 0.27		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.19 < 1			

Buiging & Druk C49-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -18.2 kN	My;Ed = 0.5 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = -0.5 kNm	My;Psi = 0.0 kNm	My;s = 0.4 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.71	Cmz = 0.63	CmLT = 0.71	
Kyy = 0.812	Kyz = 0.438	Kzy = 0.487	Kzz = 0.730
Ksi;y = 0.27	Ksi;z = 0.27	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.23 < 1			

Doorbuigingstoetsing Y' C49-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 0.0 mm (x = 3.600 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 0.0 mm	w;3 = 0.0 mm (x = 3.600 mm; Fr.C.1)
w;max = 0.0 mm	
Limiet w;max = L/250 = 24.0 mm	(w;2+w;3) = 0.0 mm
UC(w;max) = 0.0	Limiet (w;2+w;3) = L/333 = 18.0 mm
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C49-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 2.1 mm	w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;max = 2.1 mm	
Limiet w;max = L/250 = 24.0 mm	(w;2+w;3) = 0.0 mm
UC(w;max) = 0.1	Limiet (w;2+w;3) = L/333 = 18.0 mm
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.09<1	UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C49-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 2.1 mm (x = 2.400 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 2.400 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 2.1 mm	w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;max = 2.1 mm	
Limiet w;max = L/250 = 24.0 mm	(w;2+w;3) = 0.0 mm
UC(w;max) = 0.1	Limiet (w;2+w;3) = L/333 = 18.0 mm
	UC(w;2+w;3) = 0.0

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.09<1

Profielgegevens staaf C50-V1 (0.000-6.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C50-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m	Profielklasse = 1
N;Ed = 0.2 kN	My;Ed = -0.6 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MNyRd = 12.5 kNm
	MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Kiptoetsing C50-V1 (0.000-6.000)

Equi. profiel: KK100/4			
Maatgevende combinatie: Fu.C.2		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
Tabel gebruikt Fig. NB.32	M = -0.6kN/m	MBeta = -0.6	q = 0.2
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 6.000 m	lst = 6.000 m
Lsys = 6.000 m	Lg = 6.000 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 2.30	C2 = 1.60 (tabel)	C2(toegepast) = 0.00	C = 7.23
Mcr = 68.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.2 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 6.000 m		UC(z) = 0.00
My;begin = -0.6 kNm	My;eind = -0.6 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C50-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1			
N;Ed = -7.6 kN	Nb;Rd;y = 95.8 kN	Nb;Rd;z = 95.8 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 6.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 6.000 m
Xy = 0.27		Knikcurve: C	
Xz = 0.27		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.08 < 1			

Buiging & Druk C50-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -7.6 kN	My;Ed = 0.2 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = -0.5 kNm	My;Psi = -0.5 kNm	My;s = 0.1 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.40	Cmz = 0.40	CmLT = 0.40	
Kyy = 0.425	Kyz = 0.255	Kzy = 0.255	Kzz = 0.425
Ksi;y = 0.27	Ksi;z = 0.27	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.10 < 1			

Doorbuigingstoetsing Y' C50-V1 (0.000-6.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 1.200 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 1.200 mm; Qu.C.1)	w;3 = 0.0 mm (x = 4.800 mm; Fr.C.1)
w;tot; = 0.0 mm	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w_{\max} = 0.0 \text{ mm}$
 Limiet $w_{\max} = L/250 = 24.0 \text{ mm}$
 $UC(w_{\max}) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

$(w_2 + w_3) = 0.0 \text{ mm}$
 Limiet $(w_2 + w_3) = L/333 = 18.0 \text{ mm}$
 $UC(w_2 + w_3) = 0.0$

Doorbuigingstoetsing Z' C50-V1 (0.000-6.000)

Constructietype : Vloer
 $w_c = 0.0 \text{ mm}$
 $w_1 = 0.2 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.(w1))
 $w_3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Qu.C.1)
 $w_{\text{tot}} = 0.2 \text{ mm}$
 $w_{\max} = 0.2 \text{ mm}$
 Limiet $w_{\max} = L/250 = 24.0 \text{ mm}$
 $UC(w_{\max}) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.01 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w_2 = 0.0 \text{ mm}$
 $w_3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.1)

 $(w_2 + w_3) = 0.0 \text{ mm}$
 Limiet $(w_2 + w_3) = L/333 = 18.0 \text{ mm}$
 $UC(w_2 + w_3) = 0.0$

Doorbuigingstoetsing Z" C50-V1 (0.000-6.000)

Constructietype : Vloer
 $w_c = 0.0 \text{ mm}$
 $w_1 = 0.2 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.(w1))
 $w_3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Qu.C.1)
 $w_{\text{tot}} = 0.2 \text{ mm}$
 $w_{\max} = 0.2 \text{ mm}$
 Limiet $w_{\max} = L/250 = 24.0 \text{ mm}$
 $UC(w_{\max}) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.01 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w_2 = 0.0 \text{ mm}$
 $w_3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.1)

 $(w_2 + w_3) = 0.0 \text{ mm}$
 Limiet $(w_2 + w_3) = L/333 = 18.0 \text{ mm}$
 $UC(w_2 + w_3) = 0.0$

Profielgegevens staaf C51-V1 (0.000-6.000)

KK100/4 Analyse
 $h = 100.0 \text{ mm}$ $A = 1.49\text{e-}03 \text{ m}^2$
 $b = 100.0 \text{ mm}$ $I_y = 226.4\text{e-}08 \text{ m}^4$
 $t_f = 4.0 \text{ mm}$ $I_z = 226.4\text{e-}08 \text{ m}^4$
 $t_w = 4.0 \text{ mm}$ Massa/m = 11.7 kg/m
 $r = 4.0 \text{ mm}$

Staal S235H(EN10219-1) $f_{yA}(\text{toegepast}) = 235 \text{ N/mm}^2$
 $W_{y,el} = 452.7\text{e-}07 \text{ m}^3$ $W_{y,pl} = 533.0\text{e-}07 \text{ m}^3$
 $W_{z,el} = 452.7\text{e-}07 \text{ m}^3$ $W_{z,pl} = 533.0\text{e-}07 \text{ m}^3$
 $A_{w,y,el} = 7.47\text{e-}04 \text{ m}^2$ $A_{w,y,pl} = 7.47\text{e-}04 \text{ m}^2$
 $A_{w,z,el} = 7.47\text{e-}04 \text{ m}^2$ $A_{w,z,pl} = 7.47\text{e-}04 \text{ m}^2$
 $I_t = 353.9\text{e-}08 \text{ m}^4$ $I_{wa} = 521.5\text{e-}11 \text{ m}^6$

Doorsnedetoetsing C51-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m
 $N_{Ed} = 0.0 \text{ kN}$ $V_{y,Ed} = 0.0 \text{ kN}$
 $V_{z,Ed} = 0.6 \text{ kN}$
 $N_{Rd} = 351.3 \text{ kN}$ $V_{y,Rd} = 101.4 \text{ kN}$
 $V_{z,Rd} = 101.4 \text{ kN}$
 NEN-EN|NEN-EN1993-1-1(NB.52): $UC = 0.05 < 1$

Profielklasse = 1
 $M_{y,Ed} = -0.6 \text{ kNm}$
 $M_{z,Ed} = 0.0 \text{ kNm}$
 $MN_{yRd} = 12.5 \text{ kNm}$
 $MN_{zRd} = 12.5 \text{ kNm}$

Kiptoetsing C51-V1 (0.000-6.000)

Equi. profiel: KK100/4
 Maatgevende combinatie: Fu.C.2
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inklem. begin: Gesteund Beperk. eind: Gesteund
 Tabel gebruikt Fig. NB.32 $M = -0.6 \text{ kN/m}$
 Bovenflens maatgevend $X_b;I_{st} = 0.000 \text{ m}$
 $L_{sys} = 6.000 \text{ m}$ $L_g = 6.000 \text{ m}$
 $C_1 = 1.60$ $C_2 = 0.79$ (tabel)
 $M_{cr} = 47.2 \text{ kNm}$ $k_{red} = 1.0$
 $Ch_i;LT(Fu.C.2) = 1.00$ $M_{Ed} = 0.5 \text{ kNm}$
 $Ch_i;LT,Z = 1.00$ $I_{kip} = 6.000 \text{ m}$
 $M_{y,begin} = -0.6 \text{ kNm}$ $M_{y,eind} = 0.0 \text{ kNm}$
 NEN-EN1993-1-1(6.54): $UC = 0.00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

$b_{eff}(\text{Begin}) = 0.001$ $b_{eff}(\text{Eind}) = 0.000$
 $MBeta = 0.0$ $q = 0.2$
 $X_e;I_{st} = 6.000 \text{ m}$ $I_{st} = 6.000 \text{ m}$
 $S = 0.062 \text{ m}$ $I_{wa} = 5.2151\text{e-}09 \text{ m}^6$
 $C_2(\text{toegepast}) = 0.00$ $C = 5.01$
 $Lam_{rel} = 0.00$ Profielklasse 1
 $UC(y) = 0.00$
 $UC(z) = 0.00$

Doorbuigingstoetsing Y' C51-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w;c = 0.0 \text{ mm}$
 $w_1;1 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.(w1))
 $w_3;3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Qu.C.1)
 $w;t_{ot}; = 0.0 \text{ mm}$
 $w;_{max} = 0.0 \text{ mm}$
 $\text{Limiet } w;_{max} = L/250 = 24.0 \text{ mm}$
 $UC(w;_{max}) = 0.0$
 $\text{NEN-EN|NEN-EN1990|NB A1.4.2: } UC = 0.00 < 1$

Zeegvorm 3-Punt
 $w_2 = 0.0 \text{ mm}$
 $w_3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.1)
 $(w_2 + w_3) = 0.0 \text{ mm}$
 Limiet ($w_2 + w_3$) = $L/333 = 18.0 \text{ mm}$
 $UC(w_2 + w_3) = 0.0$

Doorbuigingstoetsing Z' C51-V1 (0.000-6.000)

Constructietype : Vloer
 $w;c = 0.0 \text{ mm}$
 $w_1;1 = 2.1 \text{ mm}$ ($x = 3.600 \text{ mm}$; Fr.C.(w1))
 $w_3;3 = 0.0 \text{ mm}$ ($x = 3.600 \text{ mm}$; Qu.C.1)
 $w_{tot}; = 2.1 \text{ mm}$
 $w_{max}; = 2.1 \text{ mm}$
 $\text{Limiet } w_{max} = L/250 = 24.0 \text{ mm}$
 $UC(w_{max}) = 0.1$
 NEN-EN1990/NB A1.4.2: $UC = 0.09 < 0.1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet ($w;2+w;3$) = $L/333 = 18.0 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z" C51-V1 (0.000-6.000)

Constructietype : Vloer
 $w; c = 0.0 \text{ mm}$
 $w; 1 = 2.1 \text{ mm}$ ($x = 3.600 \text{ mm}$; Fr.C.(w1))
 $w; 3 = 0.0 \text{ mm}$ ($x = 3.600 \text{ mm}$; Qu.C.1)
 $w; tot; = 2.1 \text{ mm}$
 $w; max = 2.1 \text{ mm}$
 Limiet $w; max = L/250 = 24.0 \text{ mm}$
 $UC(w; max) = 0.1$
 NEN-EN1990/NB A1.4.2: $UC = 0.09 < 0.1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 2.400 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet ($w;2+w;3$) = $L/333 = 18.0 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Profielgegevens staaf C61-V1 (0.000-6.000)

KK100/4	Analyse
h = 100.0 mm	A = 1.49e-03 m2
b = 100.0 mm	Iy = 226.4e-08 m4
tf = 4.0 mm	Iz = 226.4e-08 m4
tw = 4.0 mm	Massa/m = 11.7 kg/m
r = 4.0 mm	

Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C61-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 3.000 m

N;Ed = -0.3 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN
	Vz;Rd = 101.4 kN

NEN-EN1993-1-1(NB.52): $UC = 0.06 < 1$

Profielklasse = 1
 $M_{y;Ed} = 0.7 \text{ kNm}$
 $M_{z;Ed} = 0.0 \text{ kNm}$
 $M_{NyRd} = 12.5 \text{ kNm}$
 $M_{NzRd} = 12.5 \text{ kNm}$

Kiptoetsing C61-V1 (0.000-6.000)

Equi. profiel: KK100/4
Maatgevende combinatie: Fu.C.2
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	$q = 0.2 \text{ kN/m}$
Bovenflens maatgevend	$X_{b;1st} = 0.000 \text{ m}$
$L_{sys} = 6.000 \text{ m}$	$L_g = 6.000 \text{ m}$
$C1 = 1.13$	$C2 = 0.45 \text{ (tabel)}$
$M_{cr} = 33.5 \text{ kNm}$	$k_{red} = 1.0$
$\chi_{i;LT}(F_u, C.2) = 1.00$	$M;E_d = 0.7 \text{ kNm}$
$\chi_{i;LT}, Z = 1.00$	$I_{kip} = 6.000 \text{ m}$
$M_y;begin = 0.0 \text{ kNm}$	$M_y;eind = 0.0 \text{ kNm}$

b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
= 0.0	
Xe;lst = 6.000 m	lst = 6.000 m
S = 0.062 m	lwa = 5.2151e-09 m6
C2(toegepast) = 0.00	C = 3.55
Lam-rel = 0.00	Profielklasse 1
	UC(y) = 0.00
	UC(z) = 0.00

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C61-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.0 kN	Nb;Rd;y = 95.8 kN	Nb;Rd;z = 95.8 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 6.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 6.000 m
Xy = 0.27		Knikcurve: C	
Xz = 0.27		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Buiging & Druk C61-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.0 kN	My;Ed = 0.7 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.6 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.966	Kyz = 0.580	Kzy = 0.580	Kzz = 0.966
Ksi;y = 0.27	Ksi;z = 0.27	Ksi;LT = 1.00	

NEN-EN1993-1-1(6.61&6.62): UC = 0.07 < 1

Doorbuigingstoetsing Y' C61-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 0.0 mm (x = 4.800 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 4.800 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 0.0 mm	w;3 = 0.0 mm (x = 4.800 mm; Fr.C.1)
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C61-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 4.2 mm	w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;max = 4.2 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.2	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Doorbuigingstoetsing Z" C61-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 4.2 mm	w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)
w;max = 4.2 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 24.0 mm	Limiet (w;2+w;3) = L/333 = 18.0 mm
UC(w;max) = 0.2	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Profielgegevens staaf C62-V1 (0.000-6.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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r = 4.0 mm

lt = 353.9e-08 m4

lwa = 521.5e-11 m6

Doorsnedetoetsing C62-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 3.000 m

N;Ed = -0.3 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.7 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MNyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.06 < 1

Kiptoetsing C62-V1 (0.000-6.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.001

b-eff(Eind) = 0.001

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 6.000 m

lst = 6.000 m

Lsys = 6.000 m

Lg = 6.000 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 33.5 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.7 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 6.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C62-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.3 kN

Nb;Rd;y = 95.8 kN

Nb;Rd;z = 95.8 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 6.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 6.000 m

Xy = 0.27

Knikcurve: C

Xz = 0.27

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Buiging & Druk C62-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.3 kN

My;Ed = 0.7 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.6 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 0.969

Kyz = 0.581

Kzy = 0.581

Kzz = 0.969

Ksi;y = 0.27

Ksi;z = 0.27

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.07 < 1

Doorbuigingstoetsing Y' C62-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 4.800 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.800 mm; Qu.C.1)

w;3 = 0.0 mm (x = 0.600 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C62-V1 (0.000-6.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w_1 = 4.2 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.(w1))
 $w_3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Qu.C.())
 $w_{\text{tot}} = 4.2 \text{ mm}$
 $w_{\text{max}} = 4.2 \text{ mm}$
 $\text{Limiet } w_{\text{max}} = L/250 = 24.0 \text{ mm}$
 $UC(w_{\text{max}}) = 0.2$
 $\text{NEN-EN|NEN-EN1990|NB A1.4.2: } UC = 0.17 < 0.2$

$w_2 = 0.0 \text{ mm}$
 $w_3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.1)
 $(w_2 + w_3) = 0.0 \text{ mm}$
 $\text{Limiet } (w_2 + w_3) = L/333 = 18.0 \text{ mm}$
 $UC(w_2 + w_3) = 0.0$

Doorbuigingstoetsing Z" C62-V1 (0.000-6.000)

Constructietype : Vloer
 $w_c = 0.0 \text{ mm}$
 $w_1 = 4.2 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.(w1))
 $w_3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Qu.C.1)
 $w_{tot} = 4.2 \text{ mm}$
 $w_{max} = 4.2 \text{ mm}$
 $\text{Limiet } w_{max} = L/250 = 24.0 \text{ mm}$
 $UC(w_{max}) = 0.2$
 NEN-EN1990/NB A1.4.2: $UC = 0.17 < 0.2$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet ($w;2+w;3$) = $L/333 = 18.0 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Profielgegevens staaf C63-V1 (0.000-6.000)

KK100/4	Analyse
h = 100.0 mm	A = 1.49e-03 m ²
b = 100.0 mm	I _y = 226.4e-08 m ⁴
tf = 4.0 mm	I _z = 226.4e-08 m ⁴
tw = 4.0 mm	Massa/m = 11.7 kg/m
r = 4.0 mm	

Staal	S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
Wy;el = 452.7e-07 m3		Wy;pl = 533.0e-07 m3
Wz;el = 452.7e-07 m3		Wz;pl = 533.0e-07 m3
Aw;y;el = 7.47e-04 m2		Aw;y;pl = 7.47e-04 m2
Aw;z;el = 7.47e-04 m2		Aw;z;pl = 7.47e-04 m2
It = 353.9e-08 m4		Iwa = 521.5e-11 m6

Doorsnedetoetsing C63-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.2 op 3.000 m

N;Ed = -0.3 kN	Vy;Ed = 0.0 kN
	Vz;Ed = 0.0 kN
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN
	Vz;Rd = 101.4 kN

NEN-EN1993-1-1(NB.52): $UC = 0.06 < 1$

Profielklasse = 1
 $M_{y;Ed} = 0.7 \text{ kNm}$
 $M_{z;Ed} = 0.0 \text{ kNm}$
 $M_{NyRd} = 12.5 \text{ kNm}$
 $M_{NzRd} = 12.5 \text{ kNm}$

Kiptoetsing C63-V1 (0.000-6.000)

Equi. profiel: KK100/4
Maatgevende combinatie: Fu.C.2
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	$q = 0.2 \text{ kN/m}$
Bovenflens maatgevend	$X_{b;1st} = 0.000 \text{ m}$
$L_{sys} = 6.000 \text{ m}$	$L_g = 6.000 \text{ m}$
$C1 = 1.13$	$C2 = 0.45 \text{ (tabel)}$
$M_{cr} = 33.5 \text{ kNm}$	$k_{red} = 1.0$
$\chi_{i;LT}(F_u, C.2) = 1.00$	$M_{Ed} = 0.7 \text{ kNm}$
$\chi_{i;LT,Z} = 1.00$	$I_{kip} = 6.000 \text{ m}$
$M_{y;begin} = 0.0 \text{ kNm}$	$M_{y;eind} = 0.0 \text{ kNm}$
NEN-EN1993-1-1(6.54): $U_C = 0.00 < 1$ Kip N/B i.v.m. buis/koker	

b-eff(Begin) = 0.001	b-eff(Eind) = 0.001
= 0.0	
Xe;lst = 6.000 m	lst = 6.000 m
S = 0.062 m	lwa = 5.2151e-09 m6
C2(toegepast) = 0.00	C = 3.55
Lam-rel = 0.00	Profielklasse 1
	UC(y) = 0.00
	UC(z) = 0.00

NEN-EN1993-1-1(6.54): $UC = 0.00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C63-V1 (0.000-6.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.6 kN	Nb;Rd;y = 95.8 kN
Methode Y = Cons. gesch.	Ca(y) = 0.000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0.27	
Xz = 0.27	
NEN-EN1993-1-1(6.46): UC = 0.03 < 1	

Nb;Rd;z = 95.8 kN
Cb(y) = 0.000 Lknik Y = 6.000 m
Cb(z) = N/B Lknik Z = 6.000 m
Knikcurve: C
Knikcurve: C

Buiging & Druk C63-V1 (0.000-6.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.1

N;Ed = -2.6 kN

My;Ed = 0.7 kNm

Delta;My;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

Kyy = 0.971

Kyz = 0.583

Ksi;y = 0.27

Ksi;z = 0.27

NEN-EN1993-1-1(6.61&6.62): UC = 0.08 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.6 kNm

Mz;s = 0.0 kNm

CmLT = 0.95

Kzy = 0.583

Ksi;LT = 1.00

Kzz = 0.971

Doorbuigingstoetsing Y' C63-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.600 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.600 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.600 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C63-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 4.2 mm

w;max = 4.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C63-V1 (0.000-6.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 4.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 4.2 mm

w;max = 4.2 mm

Limiet w;max = L/250 = 24.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.17<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 18.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C73-V1 (0.000-5.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m2

b = 100.0 mm

Iy = 226.4e-08 m4

tf = 4.0 mm

Iz = 226.4e-08 m4

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C73-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -16.5 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.4 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.5 kNm

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.05 < 1

Kiptoetsing C73-V1 (0.000-5.000)

Equi. profiel: KK100/4

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 40.1 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Stabiliteitstoetsing C73-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -16.5 kN

Nb;Rd;y = 126.9 kN

Nb;Rd;z = 126.9 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.36

Knikcurve: C

Xz = 0.36

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.13 < 1

Buiging & Druk C73-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -16.5 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = -0.5 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.97

CmLT = 0.95

Kyy = 1.049

Kyz = 0.643

Kzy = 0.629

Kzz = 1.071

Ksi;y = 0.36

Ksi;z = 0.36

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.17 < 1

Doorbuigingstoetsing Y' C73-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 0.050 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.050 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C73-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

w;tot; = -2.0 mm

w;max = -2.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;max) = 0.1

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Doorbuigingstoetsing Z" C73-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w_3 = 0.0 \text{ mm}$ ($x = 2.500 \text{ mm}$; Qu.C.1)
 $w_{\text{tot}} = 2.0 \text{ mm}$
 $w_{\text{max}} = 2.0 \text{ mm}$
 $\text{Limiet } w_{\text{max}} = L/250 = 20.0 \text{ mm}$
 $UC(w_{\text{max}}) = 0.1$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.10 < 1$

$w;3 = 0.0 \text{ mm (x = 2.500 mm; Fr.C.1)}$
 $(w;2+w;3) = 0.0 \text{ mm}$
 $\text{Limiet } (w;2+w;3) = L/333 = 15.0 \text{ mm}$
 $\text{UC}(w;2+w;3) = 0.0$

Profielgegevens staaf C74-V1 (0.000-5.000)

KK100/4	Analyse
h = 100.0 mm	A = 1.49e-03 m ²
b = 100.0 mm	I _y = 226.4e-08 m ⁴
tf = 4.0 mm	I _z = 226.4e-08 m ⁴
tw = 4.0 mm	Massa/m = 11.7 kg/m
r = 4.0 mm	

Staal	S235H(EN10219-1)	f _{yk} (toegepast) = 235 N/mm ²
W _y ;el = 452.7e-07 m ³		W _y ;pl = 533.0e-07 m ³
W _z ;el = 452.7e-07 m ³		W _z ;pl = 533.0e-07 m ³
A _w ;y;el = 7.47e-04 m ²		A _w ;y;pl = 7.47e-04 m ²
A _w ;z;el = 7.47e-04 m ²		A _w ;z;pl = 7.47e-04 m ²
I _t = 353.9e-08 m ⁴		I _{wa} = 521.5e-11 m ⁶

Doorsnedetoetsing C74-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 30.7 kN	Vy;Ed = 0.0 kN
	Vz;Ed = -0.3 kN
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN
	Vz;Rd = 101.4 kN

Profielklasse = 1
 My;Ed = 0.0 kNm
 Mz;Ed = 0.0 kNm
 MyRd = 12.5 kNm
 MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): $UC = 0.09 < 1$

Kiptoetsing C74-V1 (0.000-5.000)

Equi. profiel: KK100/4
Maatgevende combinatie: Fu.C.2
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	$q = 0.2 \text{ kN/m}$
Bovenflens maatgevend	$X_{b;1st} = 0.000 \text{ m}$
$L_{sys} = 5.000 \text{ m}$	$L_g = 5.000 \text{ m}$
$C1 = 1.13$	$C2 = 0.45 \text{ (tabel)}$
$M_{cr} = 40.1 \text{ kNm}$	$k_{red} = 1.0$
$\chi_{i;LT}(F_u, C.2) = 1.00$	$M;E_d = 0.0 \text{ kNm}$
$\chi_{i;LT}, Z = 1.00$	$I_{kip} = 5.000 \text{ m}$
$M_y;begin = 0.0 \text{ kNm}$	$M_y;eind = 0.0 \text{ kNm}$

b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
= 0.0	
Xe;lst = 5.000 m	lst = 5.000 m
S = 0.062 m	lwa = 5.2151e-09 m6
C2(toegepast) = 0.00	C = 3.55
Lam-rel = 0.00	Profielklasse 1
	UC(y) = 0.00
	UC(z) = 0.00

NEN-EN1993-1-1(6.54): $UC = 0.00 < 1$ Kip N/B, ivm enkel buiging om zwakke as

Doorbuigingstoetsing Y' C74-V1 (0.000-5.000)

Constructietype : Vloer
 $w;c = 0.0 \text{ mm}$
 $w;1 = 0.0 \text{ mm}$ ($x = 0.500 \text{ mm}$; Fr.C.(w1))
 $w;3 = 0.0 \text{ mm}$ ($x = 0.500 \text{ mm}$; Qu.C.1)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 20.0 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 3.000 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet ($w;2+w;3$) = $L/333 = 15.0 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z' C74-V1 (0.000-5.000)

Constructietype : Vloer
 $w; c = 0.0 \text{ mm}$
 $w; 1 = -2.0 \text{ mm}$ ($x = 2.500 \text{ mm}$; Fr.C.(w1))
 $w; 3 = 0.0 \text{ mm}$ ($x = 2.500 \text{ mm}$; Qu.C.1)
 $w; \text{tot} = -2.0 \text{ mm}$
 $w; \text{max} = -2.0 \text{ mm}$
 Limiet $w; \text{max} = L/250 = 20.0 \text{ mm}$
 $UC(w; \text{max}) = 0.1$
 NEN-EN1990/NB A1.4.2: $UC = 0.10 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 2.500 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet ($w;2+w;3$) = $L/333 = 15.0 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Doorbuigingstoetsing Z" C74-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 2.0 mm

w;max = 2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C75-V1 (0.000-5.000)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C75-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = -15.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = -0.4 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Kipstoetsing C75-V1 (0.000-5.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

Ist = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 40.1 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Stabiliteitstoetsing C75-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -15.1 kN

Nb;Rd;y = 126.9 kN

Nb;Rd;z = 126.9 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.36

Knikcurve: C

Xz = 0.36

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.12 < 1

Buiging & Druk C75-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -15.1 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = -0.5 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 1.040

Kyz = 0.624

Kzy = 0.624

Kzz = 1.040

Ksi;y = 0.36

Ksi;z = 0.36

Ksi;LT = 1.00

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.61&6.62): UC = 0.16 < 1

Doorbuigingstoetsing Y' C75-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 4.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 4.000 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C75-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -2.0 mm

w;max = -2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C75-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 2.0 mm

w;max = 2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C76-V1 (0.000-5.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

I_y = 226.4e-08 m⁴

t_f = 4.0 mm

I_z = 226.4e-08 m⁴

t_w = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_y;el = 452.7e-07 m³

W_y;pl = 533.0e-07 m³

W_z;el = 452.7e-07 m³

W_z;pl = 533.0e-07 m³

Aw;y;el = 7.47e-04 m²

Aw;y;pl = 7.47e-04 m²

Aw;z;el = 7.47e-04 m²

Aw;z;pl = 7.47e-04 m²

I_t = 353.9e-08 m⁴

I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C76-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -15.1 kN

V_y;Ed = 0.0 kN

V_z;Ed = -0.4 kN

N;Rd = 351.3 kN

V_y;Rd = 101.4 kN

V_z;Rd = 101.4 kN

Profielklasse = 1

M_y;Ed = 0.0 kNm

M_z;Ed = 0.0 kNm

M_yRd = 12.5 kNm

M_zRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.04 < 1

Kiptoetsing C76-V1 (0.000-5.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.2kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 5.000 m

L_g = 5.000 m

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

= 0.0

X_e;l_{st} = 5.000 m

l_{st} = 5.000 m

S = 0.062 m

I_{wa} = 5.2151e-09 m⁶

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 3.55
Mcr = 40.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as			

Stabiliteitstoetsing C76-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -15.1 kN	Nb;Rd;y = 126.9 kN	Nb;Rd;z = 126.9 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.36		Knikcurve: C	
Xz = 0.36		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.12 < 1			

Buiging & Druk C76-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -15.1 kN	My;Ed = 0.0 kNm	My;Ed = 0.0 kNm	Profielklasse = 1
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = -0.5 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 1.040	Kyz = 0.624	Kzy = 0.624	Kzz = 1.040
Ksi;y = 0.36	Ksi;z = 0.36	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.16 < 1			

Doorbuigingstoetsing Y' C76-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 0.0 mm (x = 4.500 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 4.500 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 0.0 mm	w;3 = 0.0 mm (x = 1.500 mm; Fr.C.1)
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z' C76-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = -2.0 mm	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;max = -2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.10<1	

Doorbuigingstoetsing Z" C76-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm	Toets type: Algemeen
w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))	Zeegvorm 3-Punt
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;2 = 0.0 mm
w;tot; = 2.0 mm	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;max = 2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.10<1	

Profielgegevens staaf C77-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C77-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = -0.2 kN	My;Ed = -0.5 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MNyRd = 12.5 kNm
	MNzRd = 12.5 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.04 < 1	

Kiptoetsing C77-V1 (0.000-5.000)

Equi. profiel: KK100/4			
Maatgevende combinatie: Fu.C.2		Instab. curve Kip:d	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 3.55
Mcr = 40.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as			

Stabiliteitstoetsing C77-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2			
N;Ed = -0.2 kN	Nb;Rd;y = 126.9 kN	Nb;Rd;z = 126.9 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 5.000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 5.000 m
Xy = 0.36		Knikcurve: C	
Xz = 0.36		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0.00 < 1			

Buiging & Druk C77-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2		Profielklasse = 1	
N;Ed = -0.2 kN	My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = -0.5 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 0.95	Cmz = 0.95	CmLT = 0.95	
Kyy = 0.951	Kyz = 0.571	Kzy = 0.571	Kzz = 0.951
Ksi;y = 0.36	Ksi;z = 0.36	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.04 < 1			

Doorbuigingstoetsing Y' C77-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 4.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 4.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C77-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -2.0 mm

w;max = -2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C77-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 2.0 mm

w;max = 2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C79-V1 (0.000-5.000)

KK80/4

Analyse

h = 80.0 mm

A = 1.17e-03 m²

b = 80.0 mm

I_y = 111.0e-08 m⁴

tf = 4.0 mm

I_z = 111.0e-08 m⁴

tw = 4.0 mm

Massa/m = 9.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_{y;el} = 277.6e-07 m³

W_{y;pl} = 330.7e-07 m³

W_{z;el} = 277.6e-07 m³

W_{z;pl} = 330.7e-07 m³

A_{w;y;el} = 5.87e-04 m²

A_{w;y;pl} = 5.87e-04 m²

A_{w;z;el} = 5.87e-04 m²

A_{w;z;pl} = 5.87e-04 m²

I_t = 175.6e-08 m⁴

I_{wa} = 160.3e-11 m⁶

Doorsnedetoetsing C79-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

V_y;Ed = 0.0 kN

V_z;Ed = 0.0 kN

N;Rd = 276.1 kN

V_y;Rd = 79.7 kN

V_z;Rd = 79.7 kN

Profielklasse = 1

M_y;Ed = -0.4 kNm

M_z;Ed = 0.0 kNm

MN_yRd = 7.8 kNm

MN_zRd = 7.8 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kipstoetsing C79-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.1kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 5.000 m

L_g = 5.000 m

C1 = 1.13

C2 = 0.45 (tabel)

M_{cr} = 0.0 kNm

k_{red} = 1.0

Ch_i;LT(Fu.C.2) = 1.00

M_i;Ed = 0.0 kNm

Ch_i;LT,Z = 1.00

I_{kip} = 5.000 m

M_y;begin = 0.0 kNm

M_y;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

= 0.0

X_e;l_{st} = 5.000 m

I_{st} = 5.000 m

S = 0.049 m

I_{wa} = 1.6035e-09 m⁶

C2(toegepast) = 0.00

C = 0.00

Lam-rel = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Doorbuigingstoetsing Y' C79-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 2.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.000 mm; Qu.C.1)

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 1.000 mm; Fr.C.1)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C79-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -3.2 mm

w;max = -3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C79-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 3.2 mm

w;max = 3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C81-V1 (0.000-5.000)

KK80/4

Analyse

h = 80.0 mm

A = 1.17e-03 m2

b = 80.0 mm

Iy = 111.0e-08 m4

tf = 4.0 mm

Iz = 111.0e-08 m4

tw = 4.0 mm

Massa/m = 9.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

Aw;z;el = 5.87e-04 m2

Aw;z;pl = 5.87e-04 m2

It = 175.6e-08 m4

Iwa = 160.3e-11 m6

Doorsnedetoetsing C81-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

Vz;Rd = 79.7 kN

Profielklasse = 1

My;Ed = -0.4 kNm

Mz;Ed = 0.0 kNm

MNyRd = 7.8 kNm

MNzRd = 7.8 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C81-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.1kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Lsys = 5.000 m

Lg = 5.000 m

C1 = 1.13

C2 = 0.45 (tabel)

Mcr = 0.0 kNm

kred = 1.0

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

Chi;LT,Z = 1.00

Ikip = 5.000 m

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip NVT, i.v.m. geen buiging

Instab. curve Kip:d

b-eff(Begin) = 0.000

= 0.0

Xe;lst = 5.000 m

S = 0.049 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

Ist = 5.000 m

Iwa = 1.6035e-09 m6

C = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Stabiliteitstoetsing C81-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2

N;Ed = 0.0 kN

Nb;Rd;y = 69.0 kN

Nb;Rd;z = 69.0 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.25

Knikcurve: C

Xz = 0.25

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C81-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2

N;Ed = 0.0 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = -0.4 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 0.950

Kyz = 0.570

Kzy = 0.570

Kzz = 0.950

Ksi;y = 0.25

Ksi;z = 0.25

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.05 < 1

Doorbuigingstoetsing Y' C81-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 4.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 4.000 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C81-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -3.2 mm

w;max = -3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.050 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z'' C81-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 3.2 mm

w;max = 3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.050 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C83-V1 (0.000-5.000)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C83-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = -0.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Profielklasse = 1

My;Ed = -0.5 kNm

Mz;Ed = 0.0 kNm

MNyRd = 12.5 kNm

MNzRd = 12.5 kNm

Kiptoetsing C83-V1 (0.000-5.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.2kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Lsys = 5.000 m

Lg = 5.000 m

C1 = 1.13

C2 = 0.45 (tabel)

Mcr = 40.1 kNm

kred = 1.0

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

Chi;LT,Z = 1.00

lkip = 5.000 m

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Instab. curve Kip:d

b-eff(Begin) = 0.000

= 0.0

Xe;lst = 5.000 m

S = 0.062 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

lst = 5.000 m

Iwa = 5.2151e-09 m6

C = 3.55

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Stabiliteitstoetsing C83-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.3 kN

Nb;Rd;y = 126.9 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Methode Z = Cons. gesch.

Ca(z) = N/B

Xy = 0.36

Xz = 0.36

NEN-EN1993-1-1(6.46): UC = 0.02 < 1

Nb;Rd;z = 126.9 kN

Cb(y) = 0.000

Cb(z) = N/B

Knikcurve: C

Knikcurve: C

Lknik Y = 5.000 m

Lknik Z = 5.000 m

Buiging & Druk C83-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -2.3 kN

My;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

Kyy = 0.964

Kyz = 0.578

Ksi;y = 0.36

Ksi;z = 0.36

NEN-EN1993-1-1(6.61&6.62): UC = 0.05 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = -0.4 kNm

Mz;s = 0.0 kNm

CmLT = 0.95

Kzy = 0.578

Ksi;LT = 1.00

Kzz = 0.964

Doorbuigingstoetsing Y' C83-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 4.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 4.500 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C83-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -2.0 mm

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;max = -2.0 mm
 Limiet w;max = L/250 = 20.0 mm
 UC(w;max) = 0.1
 NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

(w;2+w;3) = 0.0 mm
 Limiet (w;2+w;3) = L/333 = 15.0 mm
 UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C83-V1 (0.000-5.000)

Constructietype : Vloer
 w;c = 0.0 mm
 w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))
 w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)
 w;tot; = 2.0 mm
 w;max = 2.0 mm
 Limiet w;max = L/250 = 20.0 mm
 UC(w;max) = 0.1
 NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen
 Zeegvorm 3-Punt
 w;2 = 0.0 mm
 w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
 (w;2+w;3) = 0.0 mm
 Limiet (w;2+w;3) = L/333 = 15.0 mm
 UC(w;2+w;3) = 0.0

Profielgegevens staaf C128-V1 (0.000-7.810)

KK100/4 Analyse
 h = 100.0 mm A = 1.49e-03 m2
 b = 100.0 mm Iy = 226.4e-08 m4
 tf = 4.0 mm Iz = 226.4e-08 m4
 tw = 4.0 mm Massa/m = 11.7 kg/m
 r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
 Wy;el = 452.7e-07 m3 Wy;pl = 533.0e-07 m3
 Wz;el = 452.7e-07 m3 Wz;pl = 533.0e-07 m3
 Aw;y;el = 7.47e-04 m2 Aw;y;pl = 7.47e-04 m2
 Aw;z;el = 7.47e-04 m2 Aw;z;pl = 7.47e-04 m2
 It = 353.9e-08 m4 Iwa = 521.5e-11 m6

Doorsnedetoetsing C128-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2 op 3.905 m
 N;Ed = 0.3 kN Vy;Ed = 0.0 kN
 Vz;Ed = 0.0 kN
 N;Rd = 351.3 kN Vy;Rd = 101.4 kN
 Vz;Rd = 101.4 kN
 NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.10 < 1

Profielklasse = 1
 My;Ed = 1.2 kNm
 Mz;Ed = 0.0 kNm
 MNyRd = 12.5 kNm
 MNzRd = 12.5 kNm

Kiptoetsing C128-V1 (0.000-7.810)

Equi. profiel: KK100/4
 Maatgevende combinatie: Fu.C.2
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inklem. begin: Gesteund Beperk. eind: Gesteund
 Tabel gebruikt NB 6.2 q = 0.2kN/m
 Bovenflens maatgevend Xb;lst = 0.000 m
 Lsys = 7.810 m Lg = 7.810 m
 C1 = 1.13 C2 = 0.45 (tabel)
 Mcr = 25.7 kNm kred = 1.0
 Chi;LT(Fu.C.2) = 1.00 M;Ed = 1.2 kNm
 Chi;LT,Z = 1.00 Ikip = 7.810 m
 My;begin = 0.0 kNm My;eind = 0.0 kNm
 NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d
 b-eff(Begin) = 0.001 b-eff(Eind) = 0.001
 = 0.0
 Xe;lst = 7.810 m Ist = 7.810 m
 S = 0.062 m Iwa = 5.2151e-09 m6
 C2(toegepast) = 0.00 C = 3.55
 Lam-rel = 0.00 Profielklasse 1
 UC(y) = 0.00
 UC(z) = 0.00

Doorbuigingstoetsing Y' C128-V1 (0.000-7.810)

Constructietype : Dak
 w;c = 0.0 mm
 w;1 = 0.0 mm (x = 3.905 mm; Ka.C.(w1))
 w;3 = 0.0 mm (x = 3.905 mm; Ka.C.2)
 w;tot; = 0.0 mm
 w;max = 0.0 mm
 Limiet w;max = L/250 = 31.2 mm
 UC(w;max) = 0.0
 NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen
 Zeegvorm 3-Punt
 w;2 = 0.0 mm
 (w;2+w;3) = 0.0 mm
 Limiet (w;2+w;3) = L/250 = 31.2 mm
 UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C128-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;c = 0.0 mm
w;1 = 11.9 mm (x = 3.905 mm; Ka.C.(w1))
w;3 = 0.0 mm (x = 3.905 mm; Ka.C.1)
w;tot; = 11.9 mm
w;max = 11.9 mm
Limiet w;max = L/250 = 31.2 mm
UC(w;max) = 0.4
NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.38<1

Zeegvorm 3-Punt
w;2 = 0.0 mm

(w;2+w;3) = -0.3 mm
Limiet (w;2+w;3) = L/250 = 31.2 mm
UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C128-V1 (0.000-7.810)

Constructietype : Dak
w;c = 0.0 mm
w;1 = 11.9 mm (x = 3.905 mm; Ka.C.(w1))
w;3 = 0.0 mm (x = 3.905 mm; Ka.C.1)
w;tot; = 11.9 mm
w;max = 11.9 mm
Limiet w;max = L/250 = 31.2 mm
UC(w;max) = 0.4
NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.38<1

Toets type: Algemeen
Zeegvorm 3-Punt
w;2 = 0.0 mm

(w;2+w;3) = -0.3 mm
Limiet (w;2+w;3) = L/250 = 31.2 mm
UC(w;2+w;3) = 0.0

Profielgegevens staaf C141-V1 (0.000-5.000)

KK80/4 Analyse
h = 80.0 mm A = 1.17e-03 m2
b = 80.0 mm Iy = 111.0e-08 m4
tf = 4.0 mm Iz = 111.0e-08 m4
tw = 4.0 mm Massa/m = 9.2 kg/m
r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2
Wy;el = 277.6e-07 m3 Wy;pl = 330.7e-07 m3
Wz;el = 277.6e-07 m3 Wz;pl = 330.7e-07 m3
Aw;y;el = 5.87e-04 m2 Aw;y;pl = 5.87e-04 m2
Aw;z;el = 5.87e-04 m2 Aw;z;pl = 5.87e-04 m2
It = 175.6e-08 m4 Iwa = 160.3e-11 m6

Doorsnedetoetsing C141-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m
N;Ed = -21.0 kN Vy;Ed = 0.0 kN
Vz;Ed = -0.2 kN
N;Rd = 276.1 kN Vy;Rd = 79.7 kN
Vz;Rd = 79.7 kN
NEN-EN1993-1-1(6.9): UC = 0.08 < 1

Profielklasse = 1
My;Ed = 0.0 kNm
Mz;Ed = 0.0 kNm
MyRd = 7.8 kNm
MzRd = 7.8 kNm

Kiptoetsing C141-V1 (0.000-5.000)

Equi. profiel: KK80/4
Maatgevende combinatie: Fu.C.2
Aangrijphoogte van de last: 0.000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.
Inklem. begin: Gesteund Beperk. eind: Gesteund
Tabel gebruikt Fig. NB.32 M = 0.4kN/m
Bovenflens maatgevend Xb;lst = 0.000 m
Lsys = 5.000 m Lg = 5.000 m
C1 = 2.10 C2 = 0.89 (tabel)
Mcr = 0.0 kNm kred = 1.0
Chi;LT(Fu.C.2) = 1.00 M;Ed = 0.4 kNm
Chi;LT,Z = 1.00 Ikip = 5.000 m
My;begin = 0.0 kNm My;eind = 0.4 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.000 b-eff(Eind) = 0.000
MBeta = 0.0 q = 0.1
Xe;lst = 5.000 m Ist = 5.000 m
S = 0.049 m Iwa = 1.6035e-09 m6
C2(toegepast) = 0.00 C = 0.00
Lam-rel = 0.00 Profielklasse 1
UC(y) = 0.00
UC(z) = 0.00

Stabiliteitstoetsing C141-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1
N;Ed = -21.0 kN Nb;Rd;y = 69.0 kN
Methode Y = Cons. gesch. Ca(y) = 0.000
Methode Z = Cons. gesch. Ca(z) = N/B
Xy = 0.25
Xz = 0.25
NEN-EN1993-1-1(6.46): UC = 0.30 < 1

Nb;Rd;z = 69.0 kN
Cb(y) = 0.000 Lknik Y = 5.000 m
Cb(z) = N/B Lknik Z = 5.000 m
Knikcurve: C
Knikcurve: C

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Buiging & Druk C141-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -21.0 kN

My;Ed = 0.4 kNm

Delta;My;Ed = 0.0 kNm

My = 0.3 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 0.56

Cmz = 0.73

Kyy = 0.697

Kyz = 0.547

Ksi;y = 0.25

Ksi;z = 0.25

NEN-EN1993-1-1(6.61&6.62): UC = 0.34 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = -0.2 kNm

Mz;s = 0.0 kNm

CmLT = 0.56

Kzy = 0.418

Kzz = 0.912

Ksi;LT = 1.00

Doorbuigingstoetsing Y' C141-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C141-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -1.4 mm (x = 2.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.000 mm; Qu.C.1)

w;tot; = -1.4 mm

w;max = -1.4 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.07<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C141-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 1.4 mm (x = 2.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.000 mm; Qu.C.1)

w;tot; = 1.4 mm

w;max = 1.4 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.07<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C142-V1 (0.000-5.000)

KK80/4

Analyse

h = 80.0 mm

A = 1.17e-03 m²

b = 80.0 mm

Iy = 111.0e-08 m⁴

tf = 4.0 mm

Iz = 111.0e-08 m⁴

tw = 4.0 mm

Massa/m = 9.2 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm²

Wy;el = 277.6e-07 m³

Wy;pl = 330.7e-07 m³

Wz;el = 277.6e-07 m³

Wz;pl = 330.7e-07 m³

Aw;y;el = 5.87e-04 m²

Aw;y;pl = 5.87e-04 m²

Aw;z;el = 5.87e-04 m²

Aw;z;pl = 5.87e-04 m²

It = 175.6e-08 m⁴

Iwa = 160.3e-11 m⁶

Doorsnedetoetsing C142-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.3 kN

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

Vz;Rd = 79.7 kN

NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Profielklasse = 1

My;Ed = 0.3 kNm

Mz;Ed = 0.0 kNm

MNyRd = 7.8 kNm

MNzRd = 7.8 kNm

Kiptoetsing C142-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt Fig. NB.32

M = 0.3kN/m

MBeta = 0.3

q = 0.1

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.049 m

lwa = 1.6035e-09 m6

C1 = 2.23

C2 = 1.51 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.3 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 5.000 m

UC(z) = 0.00

My;begin = 0.3 kNm

My;eind = 0.3 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C142-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 1.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 1.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C142-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -0.6 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.000 mm; Fr.C.1)

w;tot; = -0.6 mm

(w;2+w;3) = 0.0 mm

w;max = -0.6 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.03<1

Doorbuigingstoetsing Z" C142-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.6 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.000 mm; Fr.C.1)

w;tot; = 0.6 mm

(w;2+w;3) = 0.0 mm

w;max = 0.6 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.03<1

Profielgegevens staaf C143-V1 (0.000-5.000)

KK80/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 80.0 mm

A = 1.17e-03 m2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

b = 80.0 mm

Iy = 111.0e-08 m4

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

tf = 4.0 mm

Iz = 111.0e-08 m4

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

tw = 4.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.87e-04 m2

Aw;z;pl = 5.87e-04 m2

r = 4.0 mm

It = 175.6e-08 m4

lwa = 160.3e-11 m6

Doorsnedetoetsing C143-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 5.000 m

Profielklasse = 1

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

My;Ed = 0.3 kNm

Vz;Ed = 0.3 kN

Mz;Ed = 0.0 kNm

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

MNyRd = 7.8 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Vz;Rd = 79.7 kN

MNzRd = 7.8 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Kiptoetsing C143-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt Fig. NB.32

M = 0.3kN/m

MBeta = 0.3

q = 0.1

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.049 m

lwa = 1.6035e-09 m6

C1 = 2.22

C2 = 1.50 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.3 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.3 kNm

My;eind = 0.3 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C143-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 1.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 1.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C143-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -0.6 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

w;tot; = -0.6 mm

(w;2+w;3) = 0.0 mm

w;max = -0.6 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.03<1

Doorbuigingstoetsing Z" C143-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.6 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

w;tot; = 0.6 mm

(w;2+w;3) = 0.0 mm

w;max = 0.6 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.03<1

Profielgegevens staaf C144-V1 (0.000-5.000)

KK80/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 80.0 mm

A = 1.17e-03 m2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

b = 80.0 mm

Iy = 111.0e-08 m4

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

tf = 4.0 mm

Iz = 111.0e-08 m4

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

tw = 4.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.87e-04 m2

Aw;z;pl = 5.87e-04 m2

r = 4.0 mm

It = 175.6e-08 m4

lwa = 160.3e-11 m6

Doorsnedetoetsing C144-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2 op 0.000 m

N;Ed = 0.2 kN

Vy;Ed = 0.0 kN

Vz;Ed = -0.4 kN

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

Vz;Rd = 79.7 kN

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Profielklasse = 1

My;Ed = 0.3 kNm

Mz;Ed = 0.0 kNm

MNyRd = 7.8 kNm

MNzRd = 7.8 kNm

Kiptoetsing C144-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt Fig. NB.32

M = 0.3kN/m

Bovenflens maatgevend

Xb;lst = 0.000 m

Lsys = 5.000 m

Lg = 5.000 m

C1 = 2.00

C2 = 1.01 (tabel)

Mcr = 0.0 kNm

kred = 1.0

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.3 kNm

Chi;LT,Z = 1.00

lkip = 5.000 m

My;begin = 0.3 kNm

My;eind = 0.1 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

MBeta = 0.1

q = 0.1

Xe;lst = 5.000 m

lst = 5.000 m

S = 0.049 m

lwa = 1.6035e-09 m6

C2(toegepast) = 0.00

C = 0.00

Lam-rel = 0.00

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Doorbuigingstoetsing Y' C144-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 1.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 1.000 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C144-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -1.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = -1.2 mm

w;max = -1.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.06<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C144-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 1.2 mm (x = 3.000 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;tot; = 1.2 mm

w;max = 1.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.06<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C145-V1 (0.000-5.000)

KK80/4

Analyse

h = 80.0 mm

A = 1.17e-03 m2

b = 80.0 mm

Iy = 111.0e-08 m4

tf = 4.0 mm

Iz = 111.0e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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tw = 4.0 mm
r = 4.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.87e-04 m2
It = 175.6e-08 m4

Aw;z;pl = 5.87e-04 m2
Iwa = 160.3e-11 m6

Doorsnedetoetsing C145-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 22.7 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.1 kNm

Vz;Ed = -0.3 kN

Mz;Ed = 0.0 kNm

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

MyRd = 7.8 kNm

Vz;Rd = 79.7 kN

MzRd = 7.8 kNm

NEN-EN1993-1-1(6.5): UC = 0.08 < 1

Kiptoetsing C145-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt Fig. NB.32

M = 0.1 kN/m

MBeta = 0.0

q = 0.1

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.049 m

Iwa = 1.6035e-09 m6

C1 = 1.15

C2 = 0.52 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.1 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.1 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C145-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 4.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C145-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -2.8 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.1 mm (x = 2.500 mm; Fr.C.1)

w;tot; = -2.8 mm

w;max = -2.8 mm

(w;2+w;3) = 0.1 mm

Limiet w;max = L/250 = 20.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;max) = 0.1

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.14<1

Doorbuigingstoetsing Z" C145-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 2.8 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = -0.1 mm (x = 2.500 mm; Fr.C.1)

w;tot; = 2.8 mm

w;max = 2.8 mm

(w;2+w;3) = -0.1 mm

Limiet w;max = L/250 = 20.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;max) = 0.1

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.14<1

Profielgegevens staaf C146-V1 (0.000-5.000)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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KK80/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 80.0 mm	A = 1.17e-03 m2	Wy;el = 277.6e-07 m3	Wy;pl = 330.7e-07 m3
b = 80.0 mm	Iy = 111.0e-08 m4	Wz;el = 277.6e-07 m3	Wz;pl = 330.7e-07 m3
tf = 4.0 mm	Iz = 111.0e-08 m4	Aw;y;el = 5.87e-04 m2	Aw;y;pl = 5.87e-04 m2
tw = 4.0 mm	Massa/m = 9.2 kg/m	Aw;z;el = 5.87e-04 m2	Aw;z;pl = 5.87e-04 m2
r = 4.0 mm		It = 175.6e-08 m4	Iwa = 160.3e-11 m6

Doorsnedetoetsing C146-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.1 kN	My;Ed = -0.4 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 276.1 kN	MNyRd = 7.8 kNm
	MNzRd = 7.8 kNm
NEN-EN NEN-EN1993-1-1(NB.52): UC = 0.05 < 1	

Kiptoetsing C146-V1 (0.000-5.000)

Equi. profiel: KK80/4		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.2			
Aangrijphoogte van de last: 0.000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.1kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 0.049 m	Iwa = 1.6035e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 0.00
Mcr = 0.0 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as			

Doorbuigingstoetsing Y' C146-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 0.050 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 0.050 mm; Qu.C.1)	w;3 = 0.0 mm (x = 4.500 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z' C146-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = -3.2 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = -3.2 mm	
w;max = -3.2 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.2	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.16<1	

Doorbuigingstoetsing Z" C146-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 3.2 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = 3.2 mm	
w;max = 3.2 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

UC(w;2+w;3) = 0.0

Profielgegevens staaf C147-V1 (0.000-5.000)

KK80/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 80.0 mm

A = 1.17e-03 m2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

b = 80.0 mm

Iy = 111.0e-08 m4

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

tf = 4.0 mm

Iz = 111.0e-08 m4

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

tw = 4.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.87e-04 m2

Aw;z;pl = 5.87e-04 m2

r = 4.0 mm

It = 175.6e-08 m4

Iwa = 160.3e-11 m6

Doorsnedetoetsing C147-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

Profielklasse = 1

N;Ed = 0.1 kN

Vy;Ed = 0.0 kN

My;Ed = -0.4 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

MNyRd = 7.8 kNm

Vz;Rd = 79.7 kN

MNzRd = 7.8 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C147-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1 kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

Ist = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.049 m

Iwa = 1.6035e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Doorbuigingstoetsing Y' C147-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.000 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.000 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C147-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

w;tot; = -3.2 mm

(w;2+w;3) = 0.0 mm

w;max = -3.2 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

Doorbuigingstoetsing Z" C147-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 3.2 mm

w;max = 3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C148-V1 (0.000-5.000)

KK80/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 80.0 mm

A = 1.17e-03 m2

Wy;el = 277.6e-07 m3

Wy;pl = 330.7e-07 m3

b = 80.0 mm

Iy = 111.0e-08 m4

Wz;el = 277.6e-07 m3

Wz;pl = 330.7e-07 m3

tf = 4.0 mm

Iz = 111.0e-08 m4

Aw;y;el = 5.87e-04 m2

Aw;y;pl = 5.87e-04 m2

tw = 4.0 mm

Massa/m = 9.2 kg/m

Aw;z;el = 5.87e-04 m2

Aw;z;pl = 5.87e-04 m2

r = 4.0 mm

It = 175.6e-08 m4

Iwa = 160.3e-11 m6

Doorsnedetoetsing C148-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

Profielklasse = 1

N;Ed = 0.2 kN

Vy;Ed = 0.0 kN

My;Ed = -0.4 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 276.1 kN

Vy;Rd = 79.7 kN

MNyRd = 7.8 kNm

Vz;Rd = 79.7 kN

MNzRd = 7.8 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.05 < 1

Kiptoetsing C148-V1 (0.000-5.000)

Equi. profiel: KK80/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.1kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

Ist = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.049 m

Iwa = 1.6035e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 0.00

Mcr = 0.0 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

UC(z) = 0.00

Chi;LT,Z = 1.00

lkip = 5.000 m

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Stabiliteitstoetsing C148-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -7.1 kN

Nb;Rd;y = 69.0 kN

Nb;Rd;z = 69.0 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 5.000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 5.000 m

Xy = 0.25

Knikcurve: C

Xz = 0.25

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.10 < 1

Buiging & Druk C148-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -7.1 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = -0.4 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 0.95

Cmz = 0.95

CmLT = 0.95

Kyy = 1.028

Kyz = 0.617

Kzy = 0.617

Kzz = 1.028

Ksi;y = 0.25

Ksi;z = 0.25

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.15 < 1

Doorbuigingstoetsing Y' C148-V1 (0.000-5.000)

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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 4.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 4.500 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.050 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C148-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -3.2 mm

w;max = -3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C148-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 3.2 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 3.2 mm

w;max = 3.2 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.2

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.16<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C149-V1 (0.000-5.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

I_y = 226.4e-08 m⁴

t_f = 4.0 mm

I_z = 226.4e-08 m⁴

t_w = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_{y;el} = 452.7e-07 m³

W_{y;pl} = 533.0e-07 m³

W_{z;el} = 452.7e-07 m³

W_{z;pl} = 533.0e-07 m³

A_{w;y;el} = 7.47e-04 m²

A_{w;y;pl} = 7.47e-04 m²

A_{w;z;el} = 7.47e-04 m²

A_{w;z;pl} = 7.47e-04 m²

I_t = 353.9e-08 m⁴

I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C149-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

V_y;Ed = 0.0 kN

V_z;Ed = 0.0 kN

N;Rd = 351.3 kN

V_y;Rd = 101.4 kN

V_z;Rd = 101.4 kN

Profielklasse = 1

M_y;Ed = -0.5 kNm

M_z;Ed = 0.0 kNm

MN_yRd = 12.5 kNm

MN_zRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Kiptoetsing C149-V1 (0.000-5.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.2kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 5.000 m

L_g = 5.000 m

C1 = 1.13

C2 = 0.45 (tabel)

M_{cr} = 40.1 kNm

k_{red} = 1.0

Ch_i;LT(Fu.C.2) = 1.00

M_i;Ed = 0.0 kNm

Ch_i;LT,Z = 1.00

l_{kip} = 5.000 m

Instab. curve Kip:d

b-eff(Begin) = 0.000

= 0.0

X_e;l_{st} = 5.000 m

S = 0.062 m

C2(toegepast) = 0.00

Lam-rel = 0.00

b-eff(Eind) = 0.000

l_{st} = 5.000 m

I_{wa} = 5.2151e-09 m⁶

C = 3.55

Profielklasse 1

UC(y) = 0.00

UC(z) = 0.00

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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My;begin = 0.0 kNm My;eind = 0.0 kNm
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Doorbuigingstoetsing Y' C149-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 0.0 mm (x = 1.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 1.500 mm; Qu.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.000 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C149-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = -2.0 mm

w;max = -2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C149-V1 (0.000-5.000)

Constructietype : Vloer

w;c = 0.0 mm

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;tot; = 2.0 mm

w;max = 2.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;max) = 0.1

NEN-EN1990/NB A1.4.2: UC = 0.10<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C150-V1 (0.000-5.000)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m²

b = 100.0 mm

I_y = 226.4e-08 m⁴

t_f = 4.0 mm

I_z = 226.4e-08 m⁴

t_w = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) f_{ya}(toegepast) = 235 N/mm²

W_y;el = 452.7e-07 m³

W_y;pl = 533.0e-07 m³

W_z;el = 452.7e-07 m³

W_z;pl = 533.0e-07 m³

A_w;y;el = 7.47e-04 m²

A_w;y;pl = 7.47e-04 m²

A_w;z;el = 7.47e-04 m²

A_w;z;pl = 7.47e-04 m²

I_t = 353.9e-08 m⁴

I_{wa} = 521.5e-11 m⁶

Doorsnedetoetsing C150-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m

N;Ed = 0.0 kN

V_y;Ed = 0.0 kN

V_z;Ed = 0.0 kN

N;Rd = 351.3 kN

V_y;Rd = 101.4 kN

V_z;Rd = 101.4 kN

NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Profielklasse = 1

My;Ed = -0.5 kNm

Mz;Ed = 0.0 kNm

MN_yRd = 12.5 kNm

MN_zRd = 12.5 kNm

Kiptoetsing C150-V1 (0.000-5.000)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.2

q = 0.2kN/m

Bovenflens maatgevend

X_b;l_{st} = 0.000 m

L_{sys} = 5.000 m

L_g = 5.000 m

Instab. curve Kip:d

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

= 0.0

X_e;l_{st} = 5.000 m

l_{st} = 5.000 m

S = 0.062 m

I_{wa} = 5.2151e-09 m⁶

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 3.55
Mcr = 40.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	lkip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Doorbuigingstoetsing Y' C150-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 0.050 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C150-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = -2.0 mm	
w;max = -2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Doorbuigingstoetsing Z" C150-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = 2.0 mm	
w;max = 2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Profielgegevens staaf C151-V1 (0.000-5.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C151-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.2 kN	My;Ed = -0.5 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MNyRd = 12.5 kNm
	MNzRd = 12.5 kNm

NEN-EN|NEN-EN1993-1-1(NB.52): UC = 0.04 < 1

Kiptoetsing C151-V1 (0.000-5.000)

Equi. profiel: KK100/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.2	
Aangrijphoogte van de last: 0.000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0.000	b-eff(Eind) = 0.000
Tabel gebruikt NB 6.2	q = 0.2kN/m	= 0.0	
Bovenflens maatgevend	Xb;lst = 0.000 m	Xe;lst = 5.000 m	lst = 5.000 m
Lsys = 5.000 m	Lg = 5.000 m	S = 0.062 m	Iwa = 5.2151e-09 m6
C1 = 1.13	C2 = 0.45 (tabel)	C2(toegepast) = 0.00	C = 3.55
Mcr = 40.1 kNm	kred = 1.0	Lam-rel = 0.00	Profielklasse 1
Chi;LT(Fu.C.2) = 1.00	M;Ed = 0.0 kNm		UC(y) = 0.00
Chi;LT,Z = 1.00	Ikip = 5.000 m		UC(z) = 0.00
My;begin = 0.0 kNm	My;eind = 0.0 kNm		
NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as			

Doorbuigingstoetsing Y' C151-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 3.000 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.000 mm; Qu.C.1)	w;3 = 0.0 mm (x = 3.500 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z' C151-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = -2.0 mm	
w;max = -2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.10<1	

Doorbuigingstoetsing Z" C151-V1 (0.000-5.000)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)	w;3 = 0.0 mm (x = 2.500 mm; Fr.C.1)
w;tot; = 2.0 mm	
w;max = 2.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 20.0 mm	Limiet (w;2+w;3) = L/333 = 15.0 mm
UC(w;max) = 0.1	UC(w;2+w;3) = 0.0
NEN-EN1990/NB A1.4.2: UC = 0.10<1	

Profielgegevens staaf C152-V1 (0.000-5.000)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C152-V1 (0.000-5.000)

Maatgevende combinatie: Fu.C.2 op 2.500 m	Profielklasse = 1
N;Ed = 0.2 kN	My;Ed = 0.0 kNm
	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	MNyRd = 12.5 kNm
	MNzRd = 12.5 kNm
NEN-EN1993-1-1(NB.52): UC = 0.04 < 1	

Kiptoetsing C152-V1 (0.000-5.000)

Equi. profiel: KK100/4

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.2

q = 0.2kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 5.000 m

lst = 5.000 m

Lsys = 5.000 m

Lg = 5.000 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.13

C2 = 0.45 (tabel)

C2(toegepast) = 0.00

C = 3.55

Mcr = 40.1 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 5.000 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B, ivm enkel buiging om zwakke as

Doorbuigingstoetsing Y' C152-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 0.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.500 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C152-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = -2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.000 mm; Fr.C.1)

w;tot; = -2.0 mm

(w;2+w;3) = 0.0 mm

w;max = -2.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Doorbuigingstoetsing Z" C152-V1 (0.000-5.000)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 2.0 mm (x = 2.500 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.500 mm; Qu.C.1)

w;3 = 0.0 mm (x = 2.000 mm; Fr.C.1)

w;tot; = 2.0 mm

(w;2+w;3) = 0.0 mm

w;max = 2.0 mm

Limiet (w;2+w;3) = L/333 = 15.0 mm

Limiet w;max = L/250 = 20.0 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.1

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.10<1

Profielgegevens staaf C156-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C156-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = 27.2 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.5): UC = 0.08 < 1

Kiptoetsing C156-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C156-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 7.029 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 7.029 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C156-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z" C156-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Profielgegevens staaf C157-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

lwa = 521.5e-11 m6

Doorsnedetoetsing C157-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = 14.7 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Vz;Ed = 0.0 kN
 N;Rd = 351.3 kN
 Vy;Rd = 101.4 kN
 Vz;Rd = 101.4 kN
 Mz;Ed = 0.0 kNm
 MyRd = 12.5 kNm
 MzRd = 12.5 kNm
 NEN-EN1993-1-1(6.5): UC = 0.04 < 1

Kiptoetsing C157-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Y' C157-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 4.686 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.686 mm; Qu.C.1)

w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C157-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.686 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z" C157-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.686 mm; Fr.C.1)

w;tot; = 0.0 mm

(w;2+w;3) = 0.0 mm

w;max = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

UC(w;max) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Profielgegevens staaf C158-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

lwa = 521.5e-11 m6

Doorsnedetoetsing C158-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -36.7 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.5 kNm

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.10 < 1

Kiptoetsing C158-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C158-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -36.7 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.60 < 1

Buiging & Druk C158-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -36.7 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

CmLT = 1.00

Kyy = 1.478

Kyz = 0.887

Kzy = 0.887

Kzz = 1.478

Ksi;y = 0.17

Ksi;z = 0.17

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.60 < 1

Doorbuigingstoetsing Y' C158-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 4.686 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 4.686 mm; Qu.C.1)

w;3 = 0.0 mm (x = 4.686 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C158-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 2.343 mm; Fr.C.(w1))

w;2 = 0.0 mm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w;3 = 0.0 \text{ mm}$ ($x = 2.343 \text{ mm}$; Qu.C.1)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 31.2 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

$w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet $(w;2+w;3) = L/333 = 23.5 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z" C158-V1 (0.000-7.810)

Constructietype : Vloer
 $w;c = 0.0 \text{ mm}$
 $w;1 = 0.0 \text{ mm}$ ($x = 2.343 \text{ mm}$; Fr.C.(w1))
 $w;3 = 0.0 \text{ mm}$ ($x = 2.343 \text{ mm}$; Qu.C.1)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 31.2 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$
 $w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Fr.C.1)
 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet $(w;2+w;3) = L/333 = 23.5 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Profielgegevens staaf C159-V1 (0.000-7.810)

KK100/4 Analyse
 $h = 100.0 \text{ mm}$ $A = 1.49e-03 \text{ m}^2$
 $b = 100.0 \text{ mm}$ $I_y = 226.4e-08 \text{ m}^4$
 $t_f = 4.0 \text{ mm}$ $I_z = 226.4e-08 \text{ m}^4$
 $t_w = 4.0 \text{ mm}$ $Massa/m = 11.7 \text{ kg/m}$
 $r = 4.0 \text{ mm}$

Staal S235H(EN10219-1) $f_{ya}(\text{toegepast}) = 235 \text{ N/mm}^2$
 $W_{y;el} = 452.7e-07 \text{ m}^3$ $W_{y;pl} = 533.0e-07 \text{ m}^3$
 $W_{z;el} = 452.7e-07 \text{ m}^3$ $W_{z;pl} = 533.0e-07 \text{ m}^3$
 $A_{w;y;el} = 7.47e-04 \text{ m}^2$ $A_{w;y;pl} = 7.47e-04 \text{ m}^2$
 $A_{w;z;el} = 7.47e-04 \text{ m}^2$ $A_{w;z;pl} = 7.47e-04 \text{ m}^2$
 $I_t = 353.9e-08 \text{ m}^4$ $I_{wa} = 521.5e-11 \text{ m}^6$

Doorsnedetoetsing C159-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 $N;Ed = -23.7 \text{ kN}$ $V_y;Ed = 0.0 \text{ kN}$
 $V_z;Ed = 0.0 \text{ kN}$
 $N;Rd = 351.3 \text{ kN}$ $V_y;Rd = 101.4 \text{ kN}$
 $V_z;Rd = 101.4 \text{ kN}$
 NEN-EN1993-1-1(6.9): $UC = 0.07 < 1$

Profielklasse = 1
 $M_y;Ed = 0.0 \text{ kNm}$
 $M_z;Ed = 0.0 \text{ kNm}$
 $M_yRd = 12.5 \text{ kNm}$
 $M_zRd = 12.5 \text{ kNm}$

Kiptoetsing C159-V1 (0.000-7.810)

Equi. profiel: KK100/4
 Maatgevende combinatie: Fu.C.2
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inkleem. begin: Gesteund Beperk. eind: Gesteund
 Tabel gebruikt NB 6.1 $M = 0.0 \text{ kN/m}$
 Bovenflens maatgevend $X_b;l_{st} = 0.000 \text{ m}$
 $L_{sys} = 7.810 \text{ m}$ $L_g = 7.810 \text{ m}$
 $C1 = 1.00$ $C2 = 0.00$ (tabel)
 $M_{cr} = 22.7 \text{ kNm}$ $k_{red} = 1.0$
 $Ch;LT(Fu.C.2) = 1.00$ $M;Ed = 0.0 \text{ kNm}$
 $Ch;LT,Z = 1.00$ $I_{kip} = 7.810 \text{ m}$
 $M_y;begin = 0.0 \text{ kNm}$ $M_y;eind = 0.0 \text{ kNm}$
 NEN-EN1993-1-1(6.54): $UC = 0.00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Instab. curve Kip:d
 $b_{eff}(\text{Begin}) = 0.000$ $b_{eff}(\text{Eind}) = 0.000$
 $MBeta = 0.0$
 $X_e;l_{st} = 7.810 \text{ m}$ $I_{st} = 7.810 \text{ m}$
 $S = 0.062 \text{ m}$ $I_{wa} = 5.2151e-09 \text{ m}^6$
 $C2(\text{toegepast}) = 0.00$ $C = 3.14$
 $Lam_{rel} = 0.00$ Profielklasse 1
 $UC(y) = 0.00$
 $UC(z) = 0.00$

Stabiliteitstoetsing C159-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1
 $N;Ed = -23.7 \text{ kN}$ $N_b;Rd;y = 61.4 \text{ kN}$
 Methode Y = Cons. gesch. $Ca(y) = 0.000$
 Methode Z = Cons. gesch. $Ca(z) = N/B$
 $X_y = 0.17$
 $X_z = 0.17$
 NEN-EN1993-1-1(6.46): $UC = 0.39 < 1$

$N_b;Rd;z = 61.4 \text{ kN}$
 $C_b(y) = 0.000$ $L_{knik} Y = 7.810 \text{ m}$
 $C_b(z) = N/B$ $L_{knik} Z = 7.810 \text{ m}$
 Knikcurve: C
 Knikcurve: C

Buiging & Druk C159-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 Profielklasse = 1

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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N;Ed = -23.7 kN	My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
	Delta;My;Ed = 0.0 kNm	Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 1.00	Cmz = 1.00	CmLT = 1.00	
Kyy = 1.308	Kyz = 0.785	Kzy = 0.785	Kzz = 1.308
Ksi;y = 0.17	Ksi;z = 0.17	Ksi;LT = 1.00	
NEN-EN1993-1-1(6.61&6.62): UC = 0.39 < 1			

Doorbuigingstoetsing Y' C159-V1 (0.000-7.810)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 4.686 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 4.686 mm; Qu.C.1)	w;3 = 0.0 mm (x = 6.248 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 31.2 mm	Limiet (w;2+w;3) = L/333 = 23.5 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z' C159-V1 (0.000-7.810)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)	w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 31.2 mm	Limiet (w;2+w;3) = L/333 = 23.5 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Doorbuigingstoetsing Z" C159-V1 (0.000-7.810)

Constructietype : Vloer	Toets type: Algemeen
w;c = 0.0 mm	Zeegvorm 3-Punt
w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))	w;2 = 0.0 mm
w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)	w;3 = 0.0 mm (x = 3.905 mm; Fr.C.1)
w;tot; = 0.0 mm	
w;max = 0.0 mm	(w;2+w;3) = 0.0 mm
Limiet w;max = L/250 = 31.2 mm	Limiet (w;2+w;3) = L/333 = 23.5 mm
UC(w;max) = 0.0	UC(w;2+w;3) = 0.0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0.00<1	

Profielgegevens staaf C160-V1 (0.000-7.810)

KK100/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 100.0 mm	A = 1.49e-03 m2	Wy;el = 452.7e-07 m3	Wy;pl = 533.0e-07 m3
b = 100.0 mm	Iy = 226.4e-08 m4	Wz;el = 452.7e-07 m3	Wz;pl = 533.0e-07 m3
tf = 4.0 mm	Iz = 226.4e-08 m4	Aw;y;el = 7.47e-04 m2	Aw;y;pl = 7.47e-04 m2
tw = 4.0 mm	Massa/m = 11.7 kg/m	Aw;z;el = 7.47e-04 m2	Aw;z;pl = 7.47e-04 m2
r = 4.0 mm		It = 353.9e-08 m4	Iwa = 521.5e-11 m6

Doorsnedetoetsing C160-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m		Profielklasse = 1
N;Ed = -9.2 kN	Vy;Ed = 0.0 kN	My;Ed = 0.0 kNm
	Vz;Ed = 0.0 kN	Mz;Ed = 0.0 kNm
N;Rd = 351.3 kN	Vy;Rd = 101.4 kN	MyRd = 12.5 kNm
	Vz;Rd = 101.4 kN	MzRd = 12.5 kNm
NEN-EN1993-1-1(6.9): UC = 0.03 < 1		

Kiptoetsing C160-V1 (0.000-7.810)

Equi. profiel: KK100/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.2	

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.4

F = 0.0kN/m

= 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.04

C2 = 0.42 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip NVT, i.v.m. geen buiging

Stabiliteitstoetsing C160-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -9.2 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.15 < 1

Buiging & Druk C160-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -9.2 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

CmLT = 1.00

Kyy = 1.119

Kyz = 0.672

Kzy = 0.672

Kzz = 1.119

Ksi;y = 0.17

Ksi;z = 0.17

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.15 < 1

Doorbuigingstoetsing Y' C160-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 0.781 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 0.781 mm; Qu.C.1)

w;3 = 0.0 mm (x = 0.078 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C160-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 5.467 mm; Fr.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z" C160-V1 (0.000-7.810)

Constructietype : Vloer

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm 3-Punt

w;1 = 0.0 mm (x = 3.905 mm; Fr.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 3.905 mm; Qu.C.1)

w;3 = 0.0 mm (x = 5.467 mm; Fr.C.1)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/333 = 23.5 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C161-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1)

fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C161-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

Profielklasse = 1

N;Ed = 32.8 kN

Vy;Ed = 0.0 kN

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): UC = 0.09 < 1

Kiptoetsing C161-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C161-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.1 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C161-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

Profielklasse = 1

N;Ed = -0.1 kN

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

CmLT = 1.00

Kyy = 1.002

Kyz = 0.601

Kzy = 0.601

Kzz = 1.002

Ksi;y = 0.17

Ksi;z = 0.17

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.00 < 1

Doorbuigingstoetsing Y' C161-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

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Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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$w;c = 0.0 \text{ mm}$
 $w;1 = 0.0 \text{ mm}$ ($x = 7.029 \text{ mm}$; Ka.C.(w1))
 $w;3 = 0.0 \text{ mm}$ ($x = 7.029 \text{ mm}$; Ka.C.2)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 31.2 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Zeegvorm Parabolisch
 $w;2 = 0.0 \text{ mm}$

 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z' C161-V1 (0.000-7.810)

Constructietype : Dak
 $w;c = 0.0 \text{ mm}$
 $w;1 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.(w1))
 $w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.1)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 31.2 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen
 Zeegvorm Parabolisch
 $w;2 = 0.0 \text{ mm}$

 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z" C161-V1 (0.000-7.810)

Constructietype : Dak
 $w;c = 0.0 \text{ mm}$
 $w;1 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.(w1))
 $w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.1)
 $w;tot; = 0.0 \text{ mm}$
 $w;max = 0.0 \text{ mm}$
 Limiet $w;max = L/250 = 31.2 \text{ mm}$
 $UC(w;max) = 0.0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen
 Zeegvorm Parabolisch
 $w;2 = 0.0 \text{ mm}$

 $(w;2+w;3) = 0.0 \text{ mm}$
 Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Profielgegevens staaf C162-V1 (0.000-7.810)

KK100/4 Analyse
 $h = 100.0 \text{ mm}$ $A = 1.49e-03 \text{ m}^2$
 $b = 100.0 \text{ mm}$ $I_y = 226.4e-08 \text{ m}^4$
 $t_f = 4.0 \text{ mm}$ $I_z = 226.4e-08 \text{ m}^4$
 $t_w = 4.0 \text{ mm}$ Massa/m = 11.7 kg/m
 $r = 4.0 \text{ mm}$

Staal S235H(EN10219-1) $f_{ya}(\text{toegepast}) = 235 \text{ N/mm}^2$
 $W_{y;el} = 452.7e-07 \text{ m}^3$ $W_{y;pl} = 533.0e-07 \text{ m}^3$
 $W_{z;el} = 452.7e-07 \text{ m}^3$ $W_{z;pl} = 533.0e-07 \text{ m}^3$
 $A_{w;y;el} = 7.47e-04 \text{ m}^2$ $A_{w;y;pl} = 7.47e-04 \text{ m}^2$
 $A_{w;z;el} = 7.47e-04 \text{ m}^2$ $A_{w;z;pl} = 7.47e-04 \text{ m}^2$
 $I_t = 353.9e-08 \text{ m}^4$ $I_{wa} = 521.5e-11 \text{ m}^6$

Doorsnedetoetsing C162-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m
 $N;Ed = -35.4 \text{ kN}$ $V_y;Ed = 0.0 \text{ kN}$
 $V_z;Ed = 0.0 \text{ kN}$
 $N;Rd = 351.3 \text{ kN}$ $V_y;Rd = 101.4 \text{ kN}$
 $V_z;Rd = 101.4 \text{ kN}$
 NEN-EN1993-1-1(6.9): $UC = 0.10 < 1$

Profielklasse = 1
 $M_y;Ed = 0.0 \text{ kNm}$
 $M_z;Ed = 0.0 \text{ kNm}$
 $M_yRd = 12.5 \text{ kNm}$
 $M_zRd = 12.5 \text{ kNm}$

Kiptoetsing C162-V1 (0.000-7.810)

Equi. profiel: KK100/4
 Maatgevende combinatie: Fu.C.2
 Aangrijphoogte van de last: 0.000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inkleem. begin: Gesteund Beperk. eind: Gesteund
 Tabel gebruikt NB 6.1 $M = 0.0 \text{ kN/m}$
 Bovenflens maatgevend $X_b;lst = 0.000 \text{ m}$
 $L_{sys} = 7.810 \text{ m}$ $L_g = 7.810 \text{ m}$
 $C1 = 1.00$ $C2 = 0.00$ (tabel)
 $M_{cr} = 22.7 \text{ kNm}$ $k_{red} = 1.0$
 $Chi;LT(Fu.C.2) = 1.00$ $M;Ed = 0.0 \text{ kNm}$
 $Chi;LT,Z = 1.00$ $I_{kip} = 7.810 \text{ m}$
 $My;begin = 0.0 \text{ kNm}$ $My;eind = 0.0 \text{ kNm}$

Instab. curve Kip:d

 $b_{eff}(\text{Begin}) = 0.000$ $b_{eff}(\text{Eind}) = 0.000$
 $MBeta = 0.0$
 $X_e;lst = 7.810 \text{ m}$ $lst = 7.810 \text{ m}$
 $S = 0.062 \text{ m}$ $I_{wa} = 5.2151e-09 \text{ m}^6$
 $C2(\text{toegepast}) = 0.00$ $C = 3.14$
 $Lam_{rel} = 0.00$ Profielklasse 1
 $UC(y) = 0.00$
 $UC(z) = 0.00$

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C162-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -35.4 kN	Nb;Rd;y = 61.4 kN	Nb;Rd;z = 61.4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0.000	Cb(y) = 0.000	Lknik Y = 7.810 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 7.810 m
Xy = 0.17		Knikcurve: C	
Xz = 0.17		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0.58 < 1

Buiging & Druk C162-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -35.4 kN	My;Ed = 0.0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0.0 kNm	Mz;Ed = 0.0 kNm	
		Delta;Mz;Ed = 0.0 kNm	
My = 0.0 kNm	My;Psi = 0.0 kNm	My;s = 0.0 kNm	
Mz = 0.0 kNm	Mz;Psi = 0.0 kNm	Mz;s = 0.0 kNm	
Cmy = 1.00	Cmz = 1.00	CmLT = 1.00	
Kyy = 1.462	Kyz = 0.877	Kzy = 0.877	Kzz = 1.462
Ksi;y = 0.17	Ksi;z = 0.17	Ksi;LT = 1.00	

NEN-EN1993-1-1(6.61&6.62): UC = 0.58 < 1

Doorbuigingstoetsing Y' C162-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 4.686 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 4.686 mm; Ka.C.2)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C162-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.905 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.905 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C162-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.905 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.905 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C163-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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r = 4.0 mm

lt = 353.9e-08 m4

lwa = 521.5e-11 m6

Doorsnedetoetsing C163-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 45.1 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): UC = 0.13 < 1

Kiptoetsing C163-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C163-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.3 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C163-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.3 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

CmLT = 1.00

Kyy = 1.003

Kyz = 0.602

Kzy = 0.602

Kzz = 1.003

Ksi;y = 0.17

Ksi;z = 0.17

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.00 < 1

Doorbuigingstoetsing Y' C163-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm Parabolisch

w;1 = 0.0 mm (x = 7.029 mm; Ka.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 7.029 mm; Ka.C.2)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C163-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm Parabolisch

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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w;1 = 0.0 mm (x = 3.124 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.124 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C163-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.124 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.124 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C164-V1 (0.000-7.810)

KK100/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 100.0 mm

A = 1.49e-03 m2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

b = 100.0 mm

Iy = 226.4e-08 m4

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

tf = 4.0 mm

Iz = 226.4e-08 m4

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

tw = 4.0 mm

Massa/m = 11.7 kg/m

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

r = 4.0 mm

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C164-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = -44.4 kN

Vy;Ed = 0.0 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Vz;Ed = 0.0 kN

Mz;Ed = 0.0 kNm

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

MyRd = 12.5 kNm

Vz;Rd = 101.4 kN

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.9): UC = 0.13 < 1

Kiptoetsing C164-V1 (0.000-7.810)

Equi. profiel: KK100/4

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

Ist = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

Iwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

Ikip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C164-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1

N;Ed = -44.4 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.72 < 1

Buiging & Druk C164-V1 (0.000-7.810)

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.1

N;Ed = -44.4 kN

My;Ed = 0.0 kNm

Delta;My;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

Kyy = 1.578

Kyz = 0.947

Ksi;y = 0.17

Ksi;z = 0.17

NEN-EN1993-1-1(6.61&6.62): UC = 0.72 < 1

Profielklasse = 1

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My;s = 0.0 kNm

Mz;s = 0.0 kNm

CmLT = 1.00

Kzy = 0.947

Ksi;LT = 1.00

Kzz = 1.578

Doorbuigingstoetsing Y' C164-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 6.248 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 6.248 mm; Ka.C.2)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z' C164-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.124 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.124 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Doorbuigingstoetsing Z" C164-V1 (0.000-7.810)

Constructietype : Dak

w;c = 0.0 mm

w;1 = 0.0 mm (x = 3.124 mm; Ka.C.(w1))

w;3 = 0.0 mm (x = 3.124 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

UC(w;max) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Toets type: Algemeen

Zeegvorm Parabolisch

w;2 = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;2+w;3) = 0.0

Profielgegevens staaf C165-V1 (0.000-7.810)

KK100/4

Analyse

h = 100.0 mm

A = 1.49e-03 m2

b = 100.0 mm

Iy = 226.4e-08 m4

tf = 4.0 mm

Iz = 226.4e-08 m4

tw = 4.0 mm

Massa/m = 11.7 kg/m

r = 4.0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 452.7e-07 m3

Wy;pl = 533.0e-07 m3

Wz;el = 452.7e-07 m3

Wz;pl = 533.0e-07 m3

Aw;y;el = 7.47e-04 m2

Aw;y;pl = 7.47e-04 m2

Aw;z;el = 7.47e-04 m2

Aw;z;pl = 7.47e-04 m2

It = 353.9e-08 m4

Iwa = 521.5e-11 m6

Doorsnedetoetsing C165-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.1 op 0.000 m

N;Ed = 25.8 kN

Vy;Ed = 0.0 kN

Vz;Ed = 0.0 kN

N;Rd = 351.3 kN

Vy;Rd = 101.4 kN

Vz;Rd = 101.4 kN

Profielklasse = 1

My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

MyRd = 12.5 kNm

MzRd = 12.5 kNm

NEN-EN1993-1-1(6.5): UC = 0.07 < 1

Kiptoetsing C165-V1 (0.000-7.810)

Equi. profiel: KK100/4

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Maatgevende combinatie: Fu.C.2

Instab. curve Kip:d

Aangrijphoogte van de last: 0.000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0.000

b-eff(Eind) = 0.000

Tabel gebruikt NB 6.1

M = 0.0kN/m

MBeta = 0.0

Bovenflens maatgevend

Xb;lst = 0.000 m

Xe;lst = 7.810 m

lst = 7.810 m

Lsys = 7.810 m

Lg = 7.810 m

S = 0.062 m

lwa = 5.2151e-09 m6

C1 = 1.00

C2 = 0.00 (tabel)

C2(toegepast) = 0.00

C = 3.14

Mcr = 22.7 kNm

kred = 1.0

Lam-rel = 0.00

Profielklasse 1

Chi;LT(Fu.C.2) = 1.00

M;Ed = 0.0 kNm

UC(y) = 0.00

Chi;LT,Z = 1.00

lkip = 7.810 m

UC(z) = 0.00

My;begin = 0.0 kNm

My;eind = 0.0 kNm

NEN-EN1993-1-1(6.54): UC = 0.00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C165-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.1 kN

Nb;Rd;y = 61.4 kN

Nb;Rd;z = 61.4 kN

Methode Y = Cons. gesch.

Ca(y) = 0.000

Cb(y) = 0.000

Lknik Y = 7.810 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7.810 m

Xy = 0.17

Knikcurve: C

Xz = 0.17

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0.00 < 1

Buiging & Druk C165-V1 (0.000-7.810)

Maatgevende combinatie: Fu.C.2

N;Ed = -0.1 kN

My;Ed = 0.0 kNm

Profielklasse = 1

Delta;My;Ed = 0.0 kNm

Mz;Ed = 0.0 kNm

Delta;Mz;Ed = 0.0 kNm

My = 0.0 kNm

My;Psi = 0.0 kNm

My;s = 0.0 kNm

Mz = 0.0 kNm

Mz;Psi = 0.0 kNm

Mz;s = 0.0 kNm

Cmy = 1.00

Cmz = 1.00

CmLT = 1.00

Kyy = 1.001

Kyz = 0.601

Kzy = 0.601

Kzz = 1.001

Ksi;y = 0.17

Ksi;z = 0.17

Ksi;LT = 1.00

NEN-EN1993-1-1(6.61&6.62): UC = 0.00 < 1

Doorbuigingstoetsing Y' C165-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm Parabolisch

w;1 = 0.0 mm (x = 6.248 mm; Ka.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 6.248 mm; Ka.C.2)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z' C165-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm Parabolisch

w;1 = 0.0 mm (x = 2.343 mm; Ka.C.(w1))

w;2 = 0.0 mm

w;3 = 0.0 mm (x = 2.343 mm; Ka.C.1)

w;tot; = 0.0 mm

w;max = 0.0 mm

(w;2+w;3) = 0.0 mm

Limiet w;max = L/250 = 31.2 mm

Limiet (w;2+w;3) = L/250 = 31.2 mm

UC(w;max) = 0.0

UC(w;2+w;3) = 0.0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0.00<1

Doorbuigingstoetsing Z" C165-V1 (0.000-7.810)

Constructietype : Dak

Toets type: Algemeen

w;c = 0.0 mm

Zeegvorm Parabolisch

w;1 = 0.0 mm (x = 2.343 mm; Ka.C.(w1))

w;2 = 0.0 mm

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Constructietype : Dak

$w;c = 0.0 \text{ mm}$

$w;1 = 0.0 \text{ mm}$ ($x = 7.029 \text{ mm}$; Ka.C.(w1))

$w;3 = 0.0 \text{ mm}$ ($x = 7.029 \text{ mm}$; Ka.C.2)

$w;tot; = 0.0 \text{ mm}$

$w;max = 0.0 \text{ mm}$

Limiet $w;max = L/250 = 31.2 \text{ mm}$

$UC(w;max) = 0.0$

NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen

Zeegvorm Parabolisch

$w;2 = 0.0 \text{ mm}$

$(w;2+w;3) = 0.0 \text{ mm}$

Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$

$UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z' C166-V1 (0.000-7.810)

Constructietype : Dak

$w;c = 0.0 \text{ mm}$

$w;1 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.(w1))

$w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.2)

$w;tot; = 0.0 \text{ mm}$

$w;max = 0.0 \text{ mm}$

Limiet $w;max = L/250 = 31.2 \text{ mm}$

$UC(w;max) = 0.0$

NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen

Zeegvorm Parabolisch

$w;2 = 0.0 \text{ mm}$

$(w;2+w;3) = 0.0 \text{ mm}$

Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$

$UC(w;2+w;3) = 0.0$

Doorbuigingstoetsing Z" C166-V1 (0.000-7.810)

Constructietype : Dak

$w;c = 0.0 \text{ mm}$

$w;1 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.(w1))

$w;3 = 0.0 \text{ mm}$ ($x = 3.124 \text{ mm}$; Ka.C.2)

$w;tot; = 0.0 \text{ mm}$

$w;max = 0.0 \text{ mm}$

Limiet $w;max = L/250 = 31.2 \text{ mm}$

$UC(w;max) = 0.0$

NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0.00 < 1$

Toets type: Algemeen

Zeegvorm Parabolisch

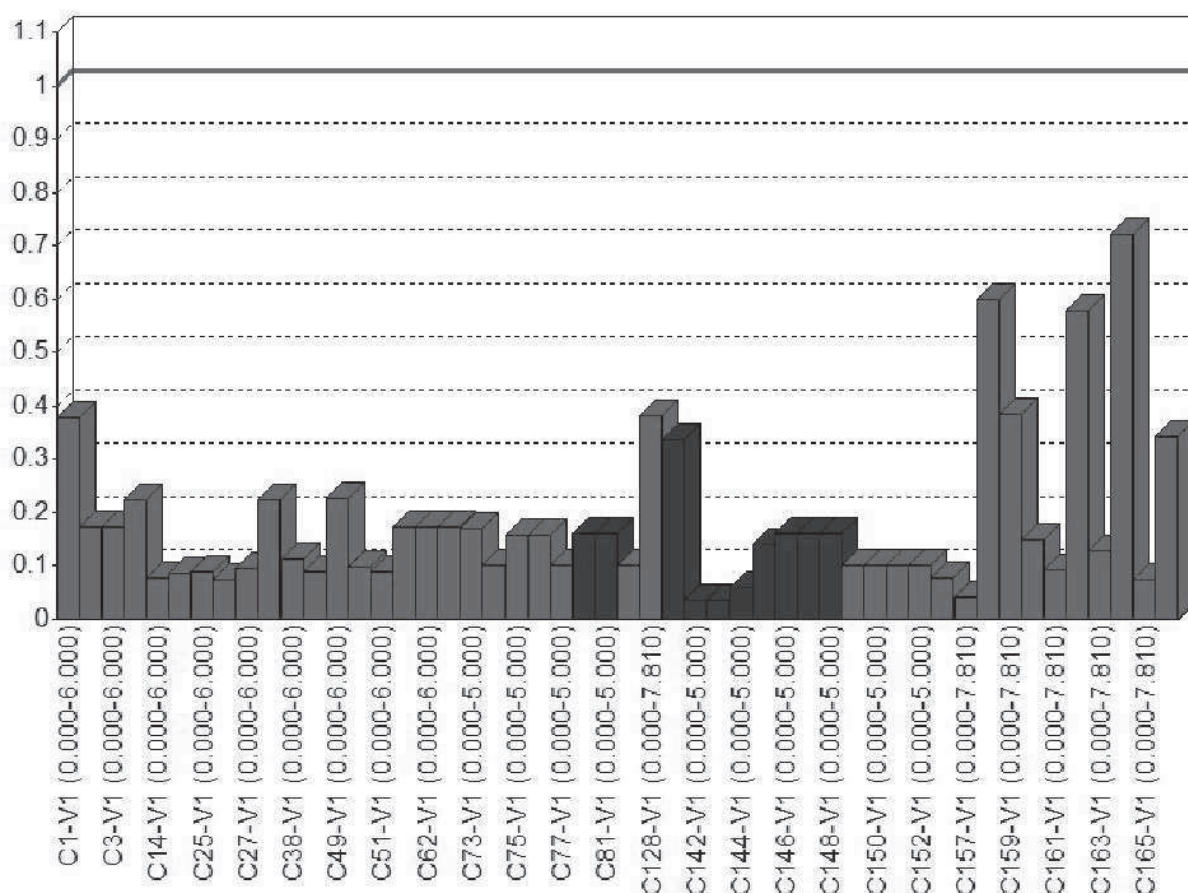
$w;2 = 0.0 \text{ mm}$

$(w;2+w;3) = 0.0 \text{ mm}$

Limiet $(w;2+w;3) = L/250 = 31.2 \text{ mm}$

$UC(w;2+w;3) = 0.0$

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.08
C1-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.30
C1-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.30
C1-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.38
C1-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C1-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C2-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.06
C2-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C2-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C3-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.06
C3-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C3-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C13-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C13-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C13-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C13-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.22
C13-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C13-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C14-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C14-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C14-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C14-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.08
C14-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00

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Veld	Toetsing	Combinatie	Artikel	UC max
C14-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.01
C15-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C15-V1 (0.000-6.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C15-V1 (0.000-6.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C15-V1 (0.000-6.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.03
C15-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C15-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C25-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C25-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.05
C25-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.05
C25-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.08
C25-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C25-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C26-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C26-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C26-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C26-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.07
C26-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C26-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.01
C27-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C27-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C27-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.06
C27-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.09
C27-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C27-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C37-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C37-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C37-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C37-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.22
C37-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C37-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C38-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C38-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.10
C38-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.10
C38-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.11
C38-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C38-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.01
C39-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C39-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C39-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C49-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C49-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C49-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.19
C49-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.23
C49-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C49-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C50-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C50-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.08
C50-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.08
C50-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.10
C50-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C50-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.01
C51-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C51-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C51-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.09
C61-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.06
C61-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C61-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C61-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.07
C61-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C61-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C62-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.06
C62-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C62-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C62-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.07
C62-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C62-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C63-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.06
C63-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.03
C63-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.03
C63-V1 (0.000-6.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.08
C63-V1 (0.000-6.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C63-V1 (0.000-6.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.17
C73-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.05
C73-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C73-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
C73-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.17
C73-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C73-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C74-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.09
C74-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C74-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C75-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C75-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C75-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C75-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.16
C75-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C75-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C76-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.04
C76-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C76-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.12
C76-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.16
C76-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C76-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C77-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C77-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C77-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C77-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.04
C77-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C77-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C79-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C79-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C79-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.16
C81-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C81-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C81-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C81-V1 (0.000-5.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.05
C81-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C81-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.16
C83-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C83-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C83-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.02
C83-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.05
C83-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C83-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C128-V1 (0.000-7.810)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.10
C128-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C128-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.38
C141-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.08
C141-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.30
C141-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.30
C141-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.34
C141-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C141-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.07
C142-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C142-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C142-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.03
C143-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C143-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C143-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.03
C144-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C144-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C144-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.06
C145-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.08
C145-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C145-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.14
C146-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C146-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C146-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.16
C147-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C147-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C147-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.16
C148-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.05
C148-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.10
C148-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.10
C148-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.15
C148-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C148-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.16
C149-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C149-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C149-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C150-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C150-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C150-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C151-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C151-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C151-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C152-V1 (0.000-5.000)	Doorsnede	Fu.C.2	NEN-EN NEN-EN1993-1-1(NB.52)	0.04
C152-V1 (0.000-5.000)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C152-V1 (0.000-5.000)	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C156-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.08
C156-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C156-V1 (0.000-7.810)	Doorbuigingstoetsing	Fr.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C157-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.04
C157-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C157-V1 (0.000-7.810)	Doorbuigingstoetsing	Fr.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C158-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C158-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.60
C158-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.60
C158-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.60
C158-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00

Dakverbanden, wind loodrecht op cijferas		Novares Constructeurs
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Veld	Toetsing	Combinatie	Artikel	UC max
C158-V1 (0.000-7.810)	Doorbuigingstoetsing	Fr.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C159-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.07
C159-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.39
C159-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.39
C159-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.39
C159-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C159-V1 (0.000-7.810)	Doorbuigingstoetsing	Fr.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C160-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.03
C160-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.15
C160-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.15
C160-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.15
C160-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C160-V1 (0.000-7.810)	Doorbuigingstoetsing	Fr.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C161-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.09
C161-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C161-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C161-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.00
C161-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C161-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C162-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.10
C162-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.58
C162-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.58
C162-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.58
C162-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C162-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C163-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.13
C163-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C163-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C163-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.00
C163-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C163-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C164-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.13
C164-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.72
C164-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.72
C164-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.72
C164-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C164-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C165-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0.07
C165-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C165-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.00
C165-V1 (0.000-7.810)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.00
C165-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C165-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00
C166-V1 (0.000-7.810)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.06
C166-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.34
C166-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.34
C166-V1 (0.000-7.810)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.34
C166-V1 (0.000-7.810)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.00
C166-V1 (0.000-7.810)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0.00

GEWICHT STAALCONSTRUCTIE

Staaft	Profiel	Lsys	Massa
C128-V1 (0.000-7.810)	KK100/4	7.810	91.647
C13-V1 (0.000-6.000)	KK100/4	6.000	70.405
C149-V1 (0.000-5.000)	KK100/4	5.000	58.671
C14-V1 (0.000-6.000)	KK100/4	6.000	70.405
C150-V1 (0.000-5.000)	KK100/4	5.000	58.671

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C151-V1 (0.000-5.000)	KK100/4	5.000	58.671
C152-V1 (0.000-5.000)	KK100/4	5.000	58.671
C156-V1 (0.000-7.810)	KK100/4	7.810	91.647
C157-V1 (0.000-7.810)	KK100/4	7.810	91.647
C158-V1 (0.000-7.810)	KK100/4	7.810	91.647
C159-V1 (0.000-7.810)	KK100/4	7.810	91.647
C15-V1 (0.000-6.000)	KK100/4	6.000	70.405
C160-V1 (0.000-7.810)	KK100/4	7.810	91.647
C161-V1 (0.000-7.810)	KK100/4	7.810	91.647
C162-V1 (0.000-7.810)	KK100/4	7.810	91.647
C163-V1 (0.000-7.810)	KK100/4	7.810	91.647
C164-V1 (0.000-7.810)	KK100/4	7.810	91.647
C165-V1 (0.000-7.810)	KK100/4	7.810	91.647
C166-V1 (0.000-7.810)	KK100/4	7.810	91.647
C1-V1 (0.000-6.000)	KK100/4	6.000	70.405
C25-V1 (0.000-6.000)	KK100/4	6.000	70.405
C26-V1 (0.000-6.000)	KK100/4	6.000	70.405
C27-V1 (0.000-6.000)	KK100/4	6.000	70.405
C2-V1 (0.000-6.000)	KK100/4	6.000	70.405
C37-V1 (0.000-6.000)	KK100/4	6.000	70.405
C38-V1 (0.000-6.000)	KK100/4	6.000	70.405
C39-V1 (0.000-6.000)	KK100/4	6.000	70.405
C3-V1 (0.000-6.000)	KK100/4	6.000	70.405
C49-V1 (0.000-6.000)	KK100/4	6.000	70.405
C50-V1 (0.000-6.000)	KK100/4	6.000	70.405
C51-V1 (0.000-6.000)	KK100/4	6.000	70.405
C61-V1 (0.000-6.000)	KK100/4	6.000	70.405
C62-V1 (0.000-6.000)	KK100/4	6.000	70.405
C63-V1 (0.000-6.000)	KK100/4	6.000	70.405
C73-V1 (0.000-5.000)	KK100/4	5.000	58.671
C74-V1 (0.000-5.000)	KK100/4	5.000	58.671
C75-V1 (0.000-5.000)	KK100/4	5.000	58.671
C76-V1 (0.000-5.000)	KK100/4	5.000	58.671
C77-V1 (0.000-5.000)	KK100/4	5.000	58.671
C83-V1 (0.000-5.000)	KK100/4	5.000	58.671
Subtotaal:	KK100/4	251.723	2,953.756
C141-V1 (0.000-5.000)	KK80/4	5.000	46.111
C142-V1 (0.000-5.000)	KK80/4	5.000	46.111
C143-V1 (0.000-5.000)	KK80/4	5.000	46.111
C144-V1 (0.000-5.000)	KK80/4	5.000	46.111
C145-V1 (0.000-5.000)	KK80/4	5.000	46.111
C146-V1 (0.000-5.000)	KK80/4	5.000	46.111
C147-V1 (0.000-5.000)	KK80/4	5.000	46.111
C148-V1 (0.000-5.000)	KK80/4	5.000	46.111
C79-V1 (0.000-5.000)	KK80/4	5.000	46.111
C81-V1 (0.000-5.000)	KK80/4	5.000	46.111
Subtotaal:	KK80/4	50.000	461.108
Totaal:		301.723 m	3,414.864 kg

KA.C. OPLEGREACTIES 1ST ITER

B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.(w1) (1e) O1		K1	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.(w1) (1e) O2		K2	0.00	0.00	-0.88	0.00	0.00	0.00
Ka.C.(w1) (1e) O3		K3	0.00	0.00	-0.95	0.00	0.00	0.00
Ka.C.(w1) (1e) O4		K4	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.(w1) (1e) O14		K14	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e) O15		K15	0.00	0.00	-1.30	0.00	0.00	0.00
Ka.C.(w1) (1e) O16		K16	0.00	0.00	-1.23	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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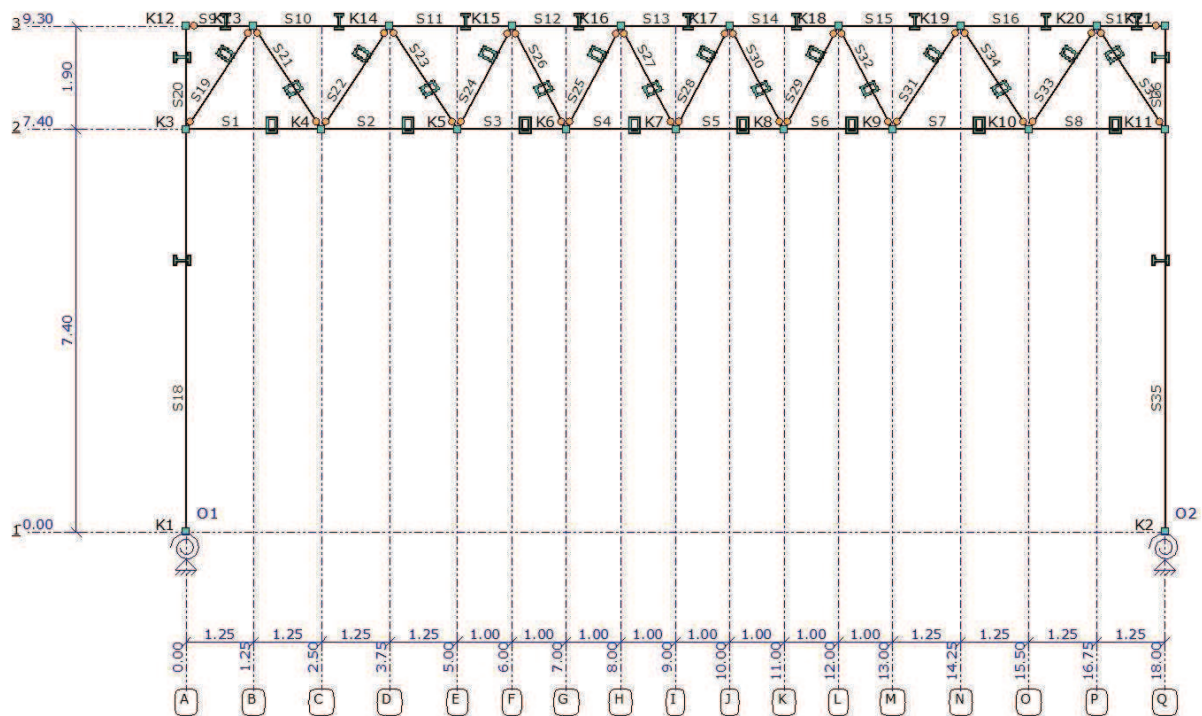
B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
Ka.C.(w1) (1e)	O17	K17	0.00	0.00	-0.86	0.00	0.00	0.00
Ka.C.(w1) (1e)	O27	K27	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O28	K28	0.00	0.00	-1.23	0.00	0.00	0.00
Ka.C.(w1) (1e)	O29	K29	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.(w1) (1e)	O30	K30	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O40	K40	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O41	K41	0.00	0.00	-1.28	0.00	0.00	0.00
Ka.C.(w1) (1e)	O42	K42	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.(w1) (1e)	O43	K43	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O53	K53	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O54	K54	0.00	0.00	-1.20	0.00	0.00	0.00
Ka.C.(w1) (1e)	O55	K55	0.00	0.00	-1.70	0.00	0.00	0.00
Ka.C.(w1) (1e)	O56	K56	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.(w1) (1e)	O66	K66	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.(w1) (1e)	O67	K67	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.(w1) (1e)	O68	K68	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.(w1) (1e)	O69	K69	0.00	0.00	-1.10	0.00	0.00	0.00
Som Reacties			0.00	0.00	-24.07			
Som Lasten			0.00	0.00	24.07			
Ka.C.1 (1e)	O1	K1	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.1 (1e)	O2	K2	0.00	0.00	-0.88	0.00	0.00	0.00
Ka.C.1 (1e)	O3	K3	0.00	0.00	-0.95	0.00	0.00	0.00
Ka.C.1 (1e)	O4	K4	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.1 (1e)	O14	K14	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O15	K15	0.00	0.00	-1.30	0.00	0.00	0.00
Ka.C.1 (1e)	O16	K16	0.00	0.00	-1.23	0.00	0.00	0.00
Ka.C.1 (1e)	O17	K17	0.00	0.00	-0.86	0.00	0.00	0.00
Ka.C.1 (1e)	O27	K27	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O28	K28	0.00	0.00	-1.23	0.00	0.00	0.00
Ka.C.1 (1e)	O29	K29	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.1 (1e)	O30	K30	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O40	K40	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O41	K41	0.00	0.00	-1.28	0.00	0.00	0.00
Ka.C.1 (1e)	O42	K42	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.1 (1e)	O43	K43	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O53	K53	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O54	K54	0.00	0.00	-1.20	0.00	0.00	0.00
Ka.C.1 (1e)	O55	K55	0.00	0.00	-1.70	0.00	0.00	0.00
Ka.C.1 (1e)	O56	K56	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.1 (1e)	O66	K66	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.1 (1e)	O67	K67	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.1 (1e)	O68	K68	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.1 (1e)	O69	K69	0.00	0.00	-1.10	0.00	0.00	0.00

Dakverbanden, wind loodrecht op cijferas			Novares Constructeurs					
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B.C.	Oplegging	Knoop	X	Y	Z	Mx	My	Mz
	Som Reacties		0.00	0.00	-24.07			
	Som Lasten		0.00	0.00	24.07			
Ka.C.2 (1e)	O1	K1	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.2 (1e)	O2	K2	-36.33	0.00	-0.88	0.00	0.00	0.00
Ka.C.2 (1e)	O3	K3	-29.17	0.00	-0.95	0.00	0.00	0.00
Ka.C.2 (1e)	O4	K4	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.2 (1e)	O14	K14	0.00	31.32	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O15	K15	0.00	0.00	-1.30	0.00	0.00	-0.09
Ka.C.2 (1e)	O16	K16	0.00	0.00	-1.23	0.00	0.00	-0.01
Ka.C.2 (1e)	O17	K17	0.00	0.00	-0.86	0.00	0.00	0.00
Ka.C.2 (1e)	O27	K27	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O28	K28	0.00	0.00	-1.23	0.00	0.00	-0.12
Ka.C.2 (1e)	O29	K29	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.2 (1e)	O30	K30	0.00	-44.01	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O40	K40	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O41	K41	0.00	0.00	-1.28	0.00	0.00	-0.08
Ka.C.2 (1e)	O42	K42	0.00	0.00	-1.24	0.00	0.00	0.00
Ka.C.2 (1e)	O43	K43	0.00	0.00	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O53	K53	0.00	14.14	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O54	K54	0.00	0.00	-1.20	0.00	0.00	-0.04
Ka.C.2 (1e)	O55	K55	0.00	0.00	-1.70	0.00	0.00	-0.02
Ka.C.2 (1e)	O56	K56	0.00	-1.46	-0.87	0.00	0.00	0.00
Ka.C.2 (1e)	O66	K66	0.00	0.00	-0.65	0.00	0.00	0.00
Ka.C.2 (1e)	O67	K67	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.2 (1e)	O68	K68	0.00	0.00	-0.93	0.00	0.00	0.00
Ka.C.2 (1e)	O69	K69	0.00	0.00	-1.10	0.00	0.00	0.00
	Som Reacties		-65.50	0.00	-24.07			
	Som Lasten		65.50	0.00	24.07			
-	-	-	kN	kN	kN	kNm	kNm	kNm

Portaal as A (ontvangst)		Novares Constructeurs	
Bijlage I			
Projectnaam		Projectnummer	
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\portaal\port-def1.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staat	Knoop	Scharnier	Knoop	Profiel	X-B	Z-B	X-E	Z-E	Lengte
B	B	E	E						
S1	K3	NVM	K4	P1	0,000	-7,400	2,500	-7,400	2,500
S2	K4	NVM	K5	P1	2,500	-7,400	5,000	-7,400	2,500
S3	K5	NVM	K6	P1	5,000	-7,400	7,000	-7,400	2,000
S4	K6	NVM	K7	P1	7,000	-7,400	9,000	-7,400	2,000
S5	K7	NVM	K8	P1	9,000	-7,400	11,000	-7,400	2,000
S6	K8	NVM	K9	P1	11,000	-7,400	13,000	-7,400	2,000
S7	K9	NVM	K10	P1	13,000	-7,400	15,500	-7,400	2,500
S8	K10	NVM	K11	P1	15,500	-7,400	18,000	-7,400	2,500
S9	K12	NV-	K13	P2	0,000	-9,300	1,250	-9,300	1,250
S10	K13	NVM	K14	P2	1,250	-9,300	3,750	-9,300	2,500
S11	K14	NVM	K15	P2	3,750	-9,300	6,000	-9,300	2,250
S12	K15	NVM	K16	P2	6,000	-9,300	8,000	-9,300	2,000
S13	K16	NVM	K17	P2	8,000	-9,300	10,000	-9,300	2,000
S14	K17	NVM	K18	P2	10,000	-9,300	12,000	-9,300	2,000
S15	K18	NVM	K19	P2	12,000	-9,300	14,250	-9,300	2,250
S16	K19	NVM	K20	P2	14,250	-9,300	16,750	-9,300	2,500
S17	K20	NVM	K21	P2	16,750	-9,300	18,000	-9,300	1,250
S18	K1	NVM	K3	P3	0,000	0,000	0,000	-7,400	7,400
S19	K3	NV-	K13	P4	0,000	-7,400	1,250	-9,300	2,274
S20	K3	NVM	K12	P3	0,000	-7,400	0,000	-9,300	1,900
S21	K13	NV-	K4	P4	1,250	-9,300	2,500	-7,400	2,274
S22	K4	NV-	K14	P4	2,500	-7,400	3,750	-9,300	2,274
S23	K14	NV-	K5	P4	3,750	-9,300	5,000	-7,400	2,274
S24	K5	NV-	K15	P4	5,000	-7,400	6,000	-9,300	2,147
S25	K6	NV-	K16	P4	7,000	-7,400	8,000	-9,300	2,147
S26	K15	NV-	K6	P4	6,000	-9,300	7,000	-7,400	2,147
S27	K16	NV-	K7	P4	8,000	-9,300	9,000	-7,400	2,147
S28	K7	NV-	K17	P4	9,000	-7,400	10,000	-9,300	2,147
S29	K8	NV-	K18	P4	11,000	-7,400	12,000	-9,300	2,147
S30	K17	NV-	K8	P4	10,000	-9,300	11,000	-7,400	2,147
S31	K9	NV-	K19	P4	13,000	-7,400	14,250	-9,300	2,274

Portaal as A (ontvangst)	Novares Constructeurs	
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Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S32	K18	NV-	NV-	K9	P4	12,000	-9,300	13,000	-7,400	2,147
S33	K10	NV-	NV-	K20	P4	15,500	-7,400	16,750	-9,300	2,274
S34	K19	NV-	NV-	K10	P4	14,250	-9,300	15,500	-7,400	2,274
S35	K2	NVM	NVM	K11	P3	18,000	0,000	18,000	-7,400	7,400
S36	K11	NVM	NVM	K21	P3	18,000	-7,400	18,000	-9,300	1,900
S37	K11	NV-	NV-	K20	P4	18,000	-7,400	16,750	-9,300	2,274
-	-	-	-	-	-	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	Iy Materiaal	Hoek
P1	KK250/10	9.1708e-03	8.5684e-05 S355H(EN10219-1)	0
P2	HE180B	6.5251e-03	3.8311e-05 S235	0
P3	HE500A	1.9754e-02	8.6975e-04 S235	0
P4	KK90/4	1.3348e-03	1.6192e-06 S235H(EN10219-1)	0
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoeff
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
S235	78.50	2.1000e+08	12.0000e-06
S355H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

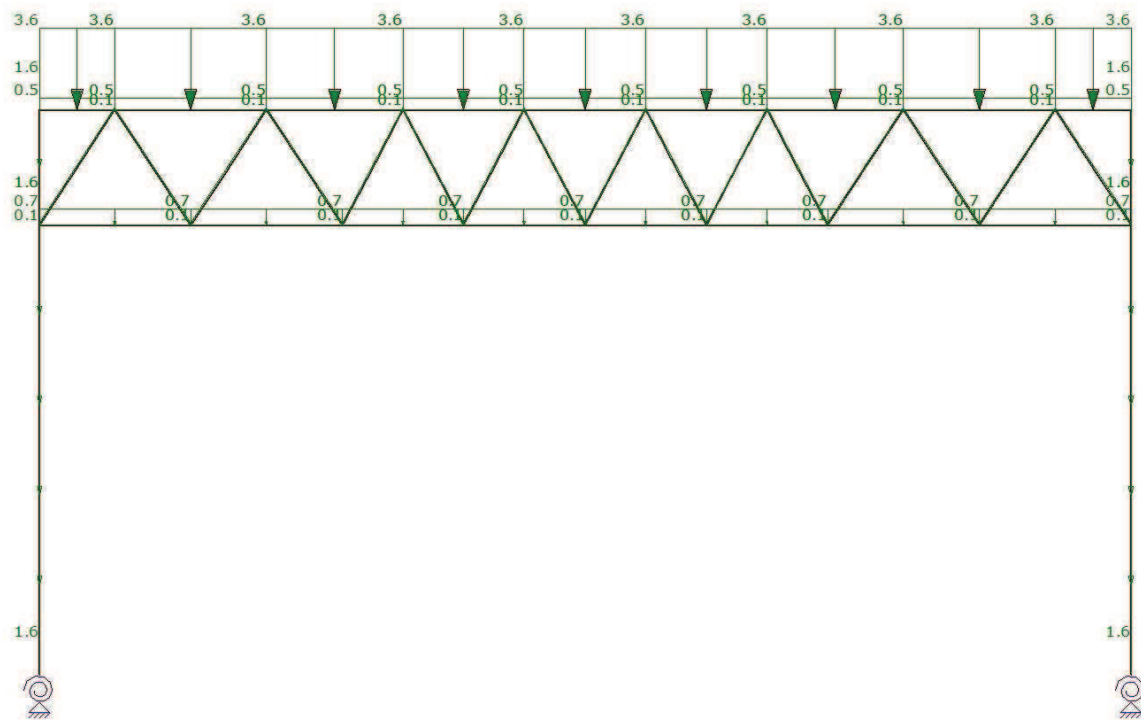
OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vast	vast	200	0
O2	K2	vast	vast	200	0
-	-	kN/m	kN/m	kNmrad	°

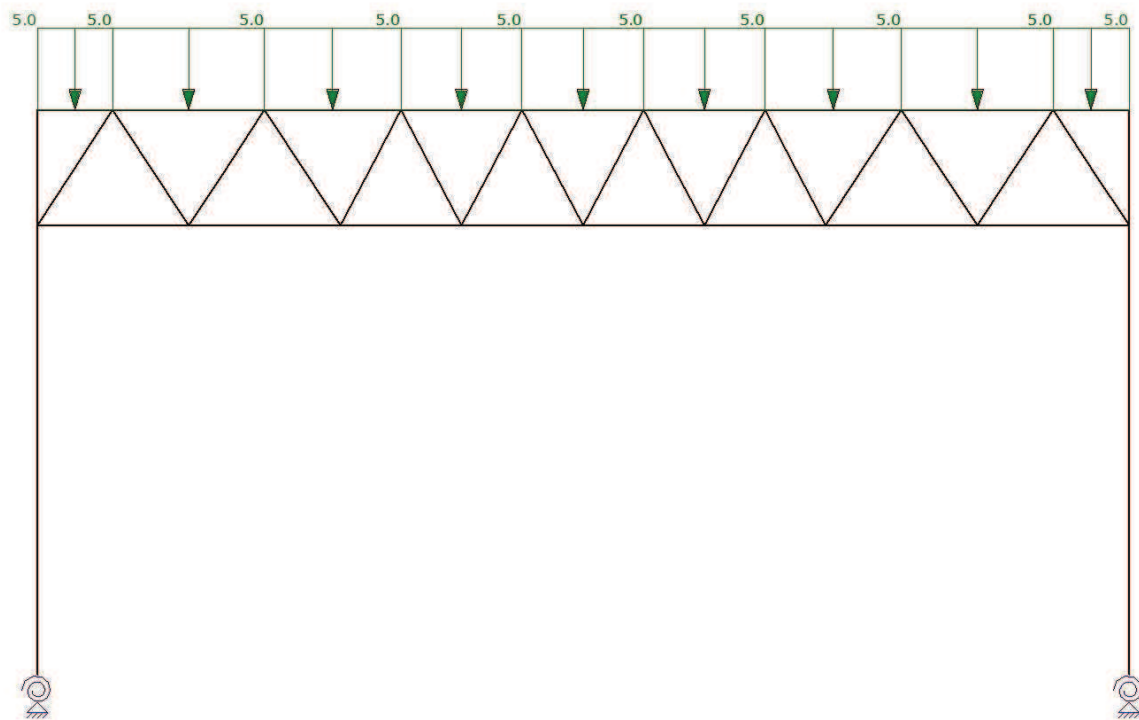
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Sneeuwbelasting	Sneeuwbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.3	Windbelasting	Windbelasting	+/-		N.v.t.	N.v.t.		0.20		1,00
B.G.4	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				
B.G.5	Kniklengte (Symmetrisch)	Kniklengte			N.v.t.	N.v.t.				

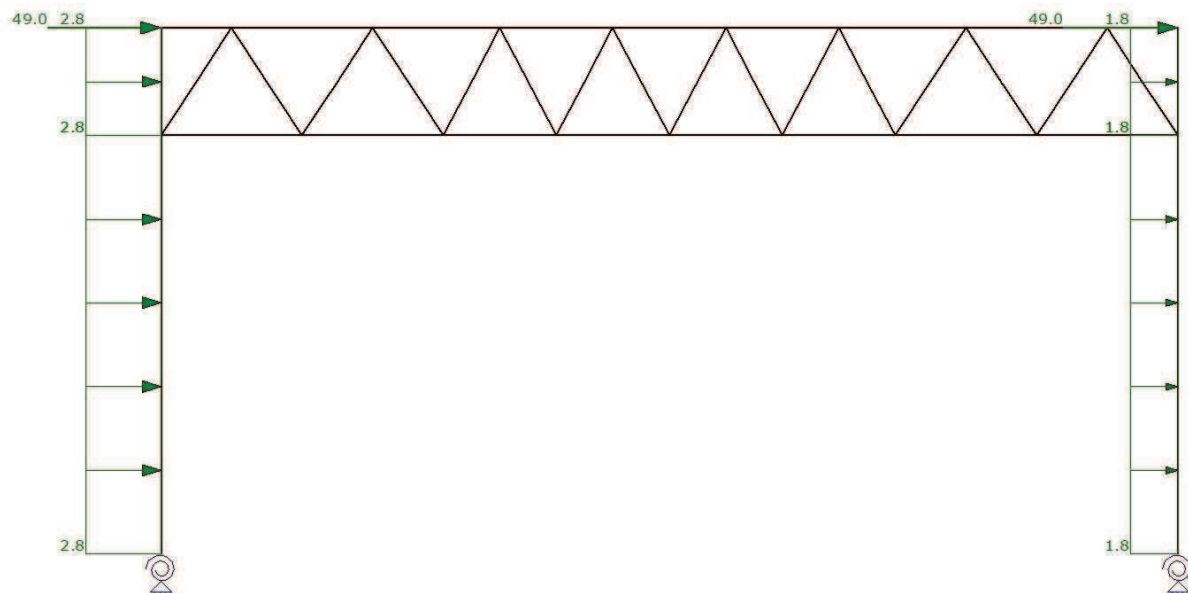
AFB. LASTEN B.G.1 PERMANENT



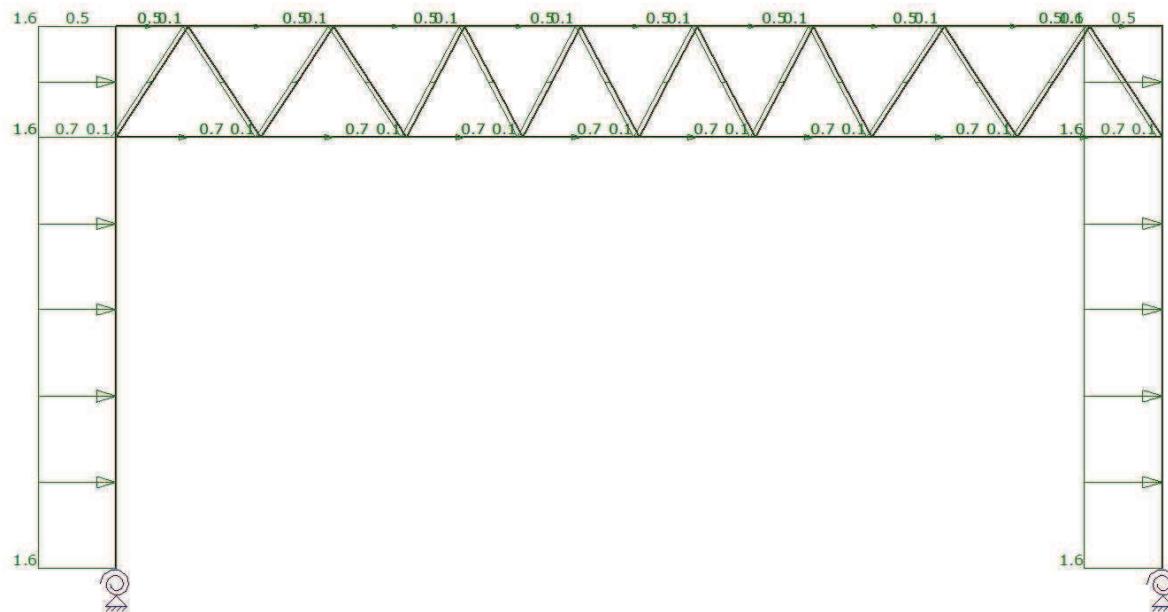
AFB. LASTEN B.G.2 SNEEUWBELASTING



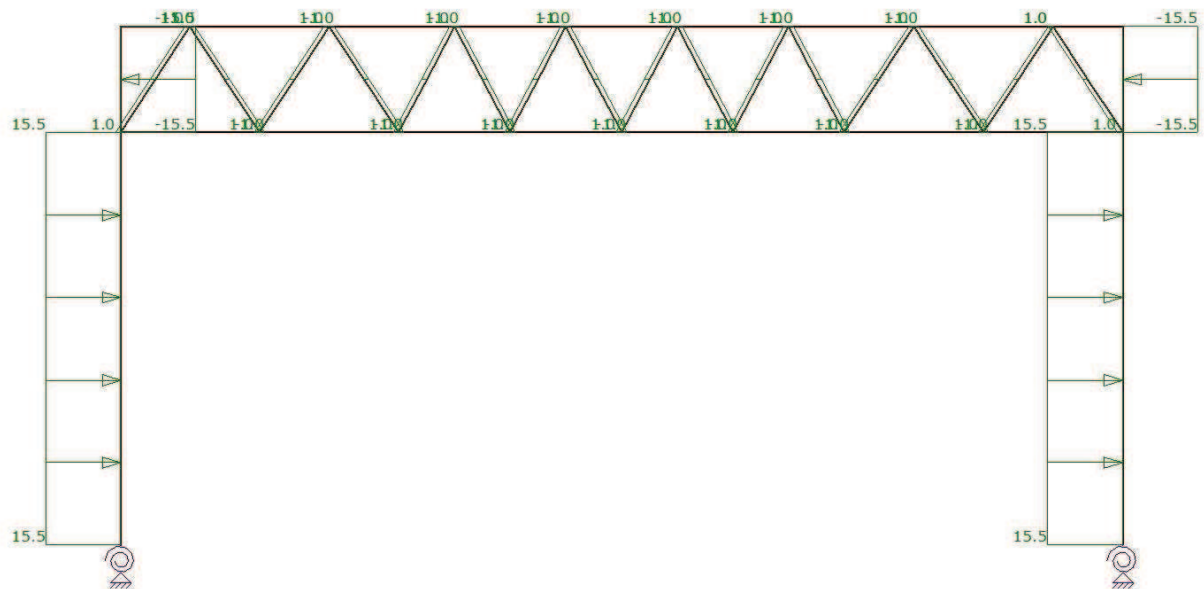
AFB. LASTEN B.G.3 WINDBELASTING



AFB. LASTEN B.G.4 KNIKLENGTE (ASSYMETRISCH)



AFB. LASTEN B.G.5 KNIKLENGTE (SYMMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5
B.G.1	Permanent	1.20	1.20	0.90	1.35	0.90
B.G.2	Sneeuwbelasting	1.50	-	-	-	-
B.G.3	Windbelasting	-	1.50	1.50	-	-
B.G.4	Kniklengte (Assymetrisch)	-	-	-	-	-
B.G.5	Kniklengte (Symmetrisch)	-	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3
B.G.1	Permanent	1.00	1.00	1.00	1.00
B.G.2	Sneeuwbelasting	-	-	1.00	-
B.G.3	Windbelasting	-	-	-	1.00
B.G.4	Kniklengte (Assymetrisch)	-	-	-	-
B.G.5	Kniklengte (Symmetrisch)	-	-	-	-

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1	Fr.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Sneeuwbelasting	-	0.20	-
B.G.3	Windbelasting	-	-	0.20
B.G.4	Kniklengte (Assymetrisch)	-	-	-
B.G.5	Kniklengte (Symmetrisch)	-	-	-

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Sneeuwbelasting	-
B.G.3	Windbelasting	-
B.G.4	Kniklengte (Assymetrisch)	-
B.G.5	Kniklengte (Symmetrisch)	-

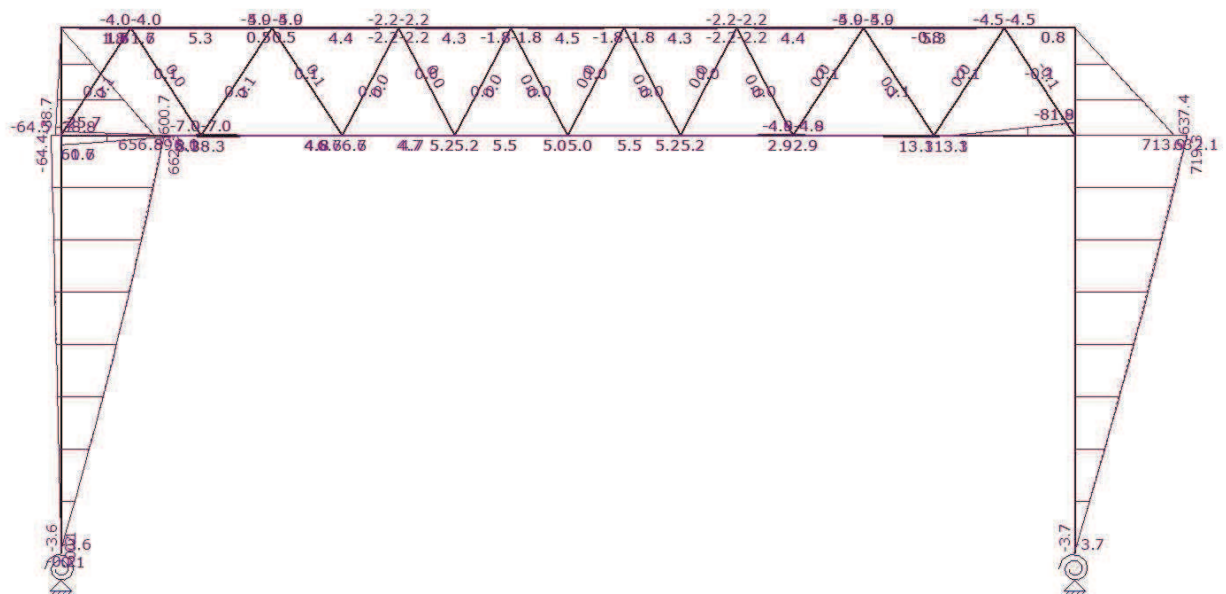
UITGANGSPUNTEN VAN DE ANALYSE

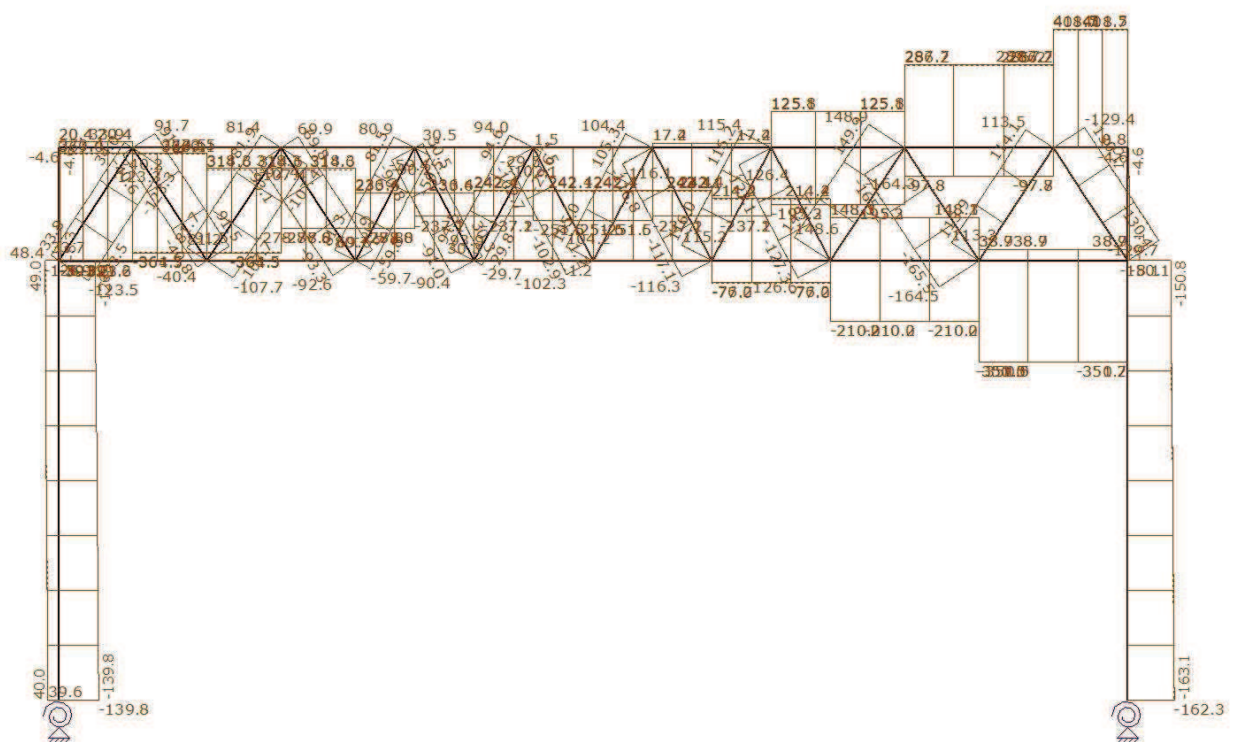
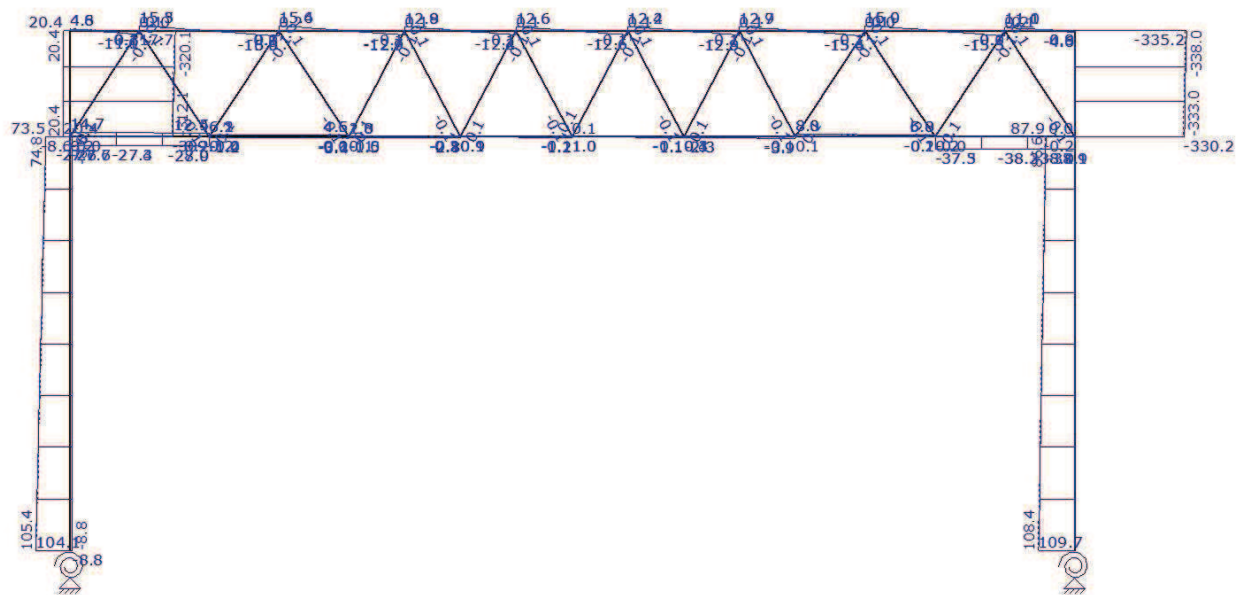
Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties





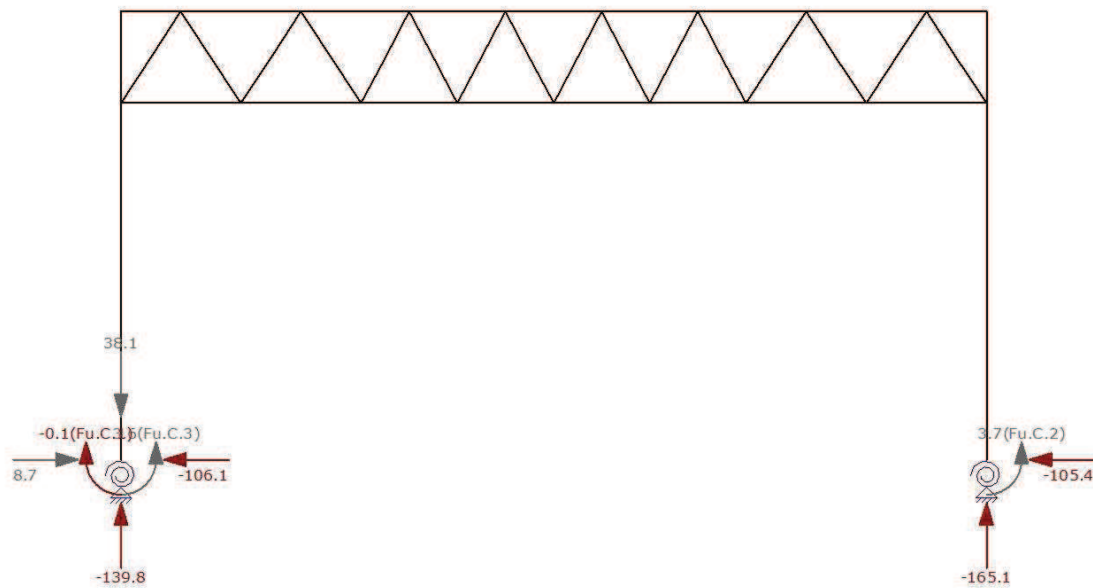
Portaal as A (ontvangst)	Novares Constructeurs	
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FU.C. STAAFKRACHTEN ANALYSE

Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S1	Fu.C.1	-25.71			8.32	1.850	0.000 T	38.90	14.73	14.73	12.52
	Fu.C.2	58.78			-6.13	2.269	0.000 T	373.49	-25.81	-26.66	-26.66
	Fu.C.3	61.60			-6.99	2.248	0.000 T	368.47	-27.56	-27.85	-27.85
	Fu.C.4	-13.26			3.92	1.844	0.000 T	19.32	8.09	8.09	5.65
	Fu.C.5	-8.84			2.61	1.844	0.000 T	12.87	5.39	5.39	3.77
S2	Fu.C.1	8.32			2.91	0.000	0.000 T	148.35	-1.16	-3.20	-3.20
	Fu.C.2	-6.13			6.70	1.067	0.000 T	318.28	6.23	6.23	4.10
	Fu.C.3	-6.99			6.41	1.210	0.000 T	301.12	6.20	6.20	4.58
	Fu.C.4	3.92	3.93	0.125	1.23	0.000	0.000 T	74.52	0.12	-2.28	-2.28
	Fu.C.5	2.61	2.62	0.125	0.82	0.000	0.000 T	49.67	0.08	-1.52	-1.52
S3	Fu.C.1	2.91			5.22	0.000	0.000 T	214.42	1.96	1.96	0.33
	Fu.C.2	6.70			2.79	0.000	0.000 T	236.40	-1.16	-2.76	-2.76
	Fu.C.3	6.41			2.24	0.000	0.000 T	211.98	-1.49	-2.69	-2.69
	Fu.C.4	1.23	2.52	1.600	2.46	0.000	0.000 T	108.02	1.58	1.58	-0.34
	Fu.C.5	0.82	1.68	1.600	1.64	0.000	0.000 T	72.00	1.05	1.05	-0.23
S4	Fu.C.1	5.22	5.51	0.900	4.99	0.000	0.000 T	242.39	0.68	-0.91	-0.91
	Fu.C.2	2.79	2.93	0.600	2.05	0.000	0.000 T	153.02	0.47	-1.21	-1.21
	Fu.C.3	2.24	2.30	0.400	1.53	0.000	0.000 T	125.62	0.28	-0.99	-0.99
	Fu.C.4	2.46	2.88	0.900	2.34	0.000	0.000 T	122.16	0.89	-1.02	-1.02
	Fu.C.5	1.64	1.92	0.900	1.56	0.000	0.000 T	81.42	0.60	-0.68	-0.68
S5	Fu.C.1	4.99	5.51	1.100	5.22	0.000	0.000 T	242.39	0.91	0.91	-0.68
	Fu.C.2	2.05	2.27	0.700	1.56	0.000	0.000 T	56.22	0.61	-1.11	-1.11
	Fu.C.3	1.53	1.65	0.600	1.01	0.000	0.000 T	29.02	0.39	-0.91	-0.91
	Fu.C.4	2.34	2.88	1.100	2.46	0.000	0.000 T	122.16	1.02	1.02	-0.89
	Fu.C.5	1.56	1.92	1.100	1.64	0.000	0.000 T	81.42	0.68	0.68	-0.60
S6	Fu.C.1	5.22			2.91	0.000	0.000 T	214.42	-0.33	-1.96	-1.96
	Fu.C.2	1.56			-4.62	0.624	0.000 D	-52.32	-2.23	-3.95	-3.95
	Fu.C.3	1.01			-4.88	0.415	0.000 D	-76.18	-2.30	-3.58	-3.58
	Fu.C.4	2.46	2.52	0.400	1.23	0.000	0.000 T	108.02	0.34	-1.58	-1.58
	Fu.C.5	1.64	1.68	0.400	0.82	0.000	0.000 T	72.00	0.23	-1.05	-1.05
S7	Fu.C.1	2.91			8.32	0.000	0.000 T	148.35	3.20	3.20	1.16
	Fu.C.2	-4.62			13.31	0.575	0.000 D	-193.88	8.27	8.27	5.99
	Fu.C.3	-4.88			12.42	0.646	0.000 D	-210.04	7.74	7.74	6.01
	Fu.C.4	1.23	3.93	2.375	3.92	0.000	0.000 T	74.52	2.28	2.28	-0.12
	Fu.C.5	0.82	2.62	2.375	2.61	0.000	0.000 T	49.67	1.52	1.52	-0.08
S8	Fu.C.1	8.32			-25.71	0.650	0.000 T	38.90	-12.52	-14.73	-14.73
	Fu.C.2	13.31			-81.94	0.354	0.000 D	-347.56	-37.48	-38.32	-38.07
	Fu.C.3	12.42			-78.84	0.343	0.000 D	-351.18	-36.14	-36.68	-36.22
	Fu.C.4	3.92			-13.26	0.656	0.000 T	19.32	-5.65	-8.09	-8.09
	Fu.C.5	2.61			-8.84	0.656	0.000 T	12.87	-3.77	-5.39	-5.39
S9	Fu.C.1	0.00	0.84	0.375	-4.04	0.732	0.000 T	20.37	4.58	-11.05	-11.05
	Fu.C.2	0.00	1.70	0.813	1.23	0.000	0.000 D	-392.14	4.18	4.18	-2.15
	Fu.C.3	0.00	1.78	0.938	1.63	0.000	0.000 D	-393.65	3.70	3.70	-1.06
	Fu.C.4	0.00	0.39	0.375	-1.78	0.742	0.000 T	10.18	2.08	-4.94	-4.94
	Fu.C.5	0.00	0.26	0.375	-1.19	0.742	0.000 T	6.79	1.39	-3.29	-3.29
S10	Fu.C.1	-4.04	5.29	1.250	-4.97	0.304	2.138 D	-97.84	15.30	-16.02	-16.02
	Fu.C.2	1.23	4.67	1.125	-0.02	2.497	0.000 D	-364.33	5.96	-6.91	-6.91
	Fu.C.3	1.63	4.12	1.125	0.46	0.000	0.000 D	-352.63	4.41	-5.29	-5.29
	Fu.C.4	-1.78	2.43	1.250	-2.14	0.296	2.153 D	-49.59	6.89	-7.17	-7.17
	Fu.C.5	-1.19	1.62	1.250	-1.43	0.296	2.153 D	-33.06	4.59	-4.78	-4.78
S11	Fu.C.1	-4.97	4.44	1.237	-2.18	0.386	2.062 D	-195.28	15.35	15.35	-12.88
	Fu.C.2	-0.02	3.09	1.125	-0.23	0.004	2.209 D	-278.85	5.62	-5.79	-5.79
	Fu.C.3	0.46	2.63	1.013	-0.04	2.242	0.000 D	-256.42	4.06	-4.49	-4.49
	Fu.C.4	-2.14	2.10	1.237	-0.84	0.366	2.090 D	-98.74	6.91	6.91	-5.76
	Fu.C.5	-1.43	1.40	1.237	-0.56	0.365	2.090 D	-65.82	4.61	4.61	-3.83
S12	Fu.C.1	-2.18	4.31	1.000	-1.80	0.189	1.840 D	-237.21	12.76	12.76	-12.37
	Fu.C.2	-0.23	2.30	1.000	-0.22	0.047	1.954 D	-203.14	5.04	5.04	-5.04
	Fu.C.3	-0.04	1.84	1.000	-0.07	0.010	1.981 D	-176.17	3.75	-3.79	-3.79
	Fu.C.4	-0.84	2.06	1.000	-0.67	0.161	1.869 D	-119.89	5.72	5.72	-5.55
	Fu.C.5	-0.56	1.37	1.000	-0.45	0.161	1.869 D	-79.92	3.81	3.81	-3.70
S13	Fu.C.1	-1.80	4.50	1.000	-1.80	0.157	1.843 D	-251.58	12.58	12.58	-12.58
	Fu.C.2	-0.22	1.91	0.900	-1.00	0.051	1.795 D	-112.67	4.63	-5.41	-5.41
	Fu.C.3	-0.07	1.44	0.900	-0.85	0.022	1.770 D	-84.26	3.36	-4.14	-4.14
	Fu.C.4	-0.67	2.15	1.000	-0.67	0.129	1.871 D	-127.17	5.64	5.64	-5.64
	Fu.C.5	-0.45	1.43	1.000	-0.45	0.128	1.872 D	-84.77	3.75	3.75	-3.75

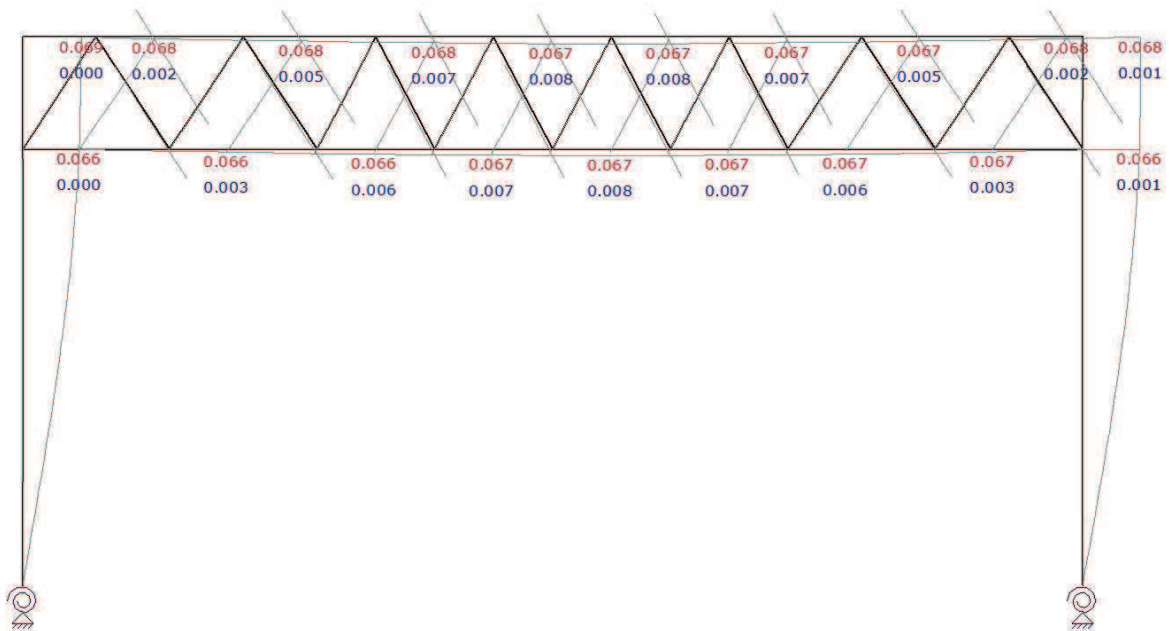
Portaal as A (ontvangst)			Novares Constructeurs								
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S14	Fu.C.1	-1.80	4.31	1.000	-2.18	0.160	1.811 D	-237.21	12.37	-12.76	-12.76
	Fu.C.2	-1.00	1.35	1.000	-1.29	0.236	1.707 D	-9.23	4.86	-5.15	-5.15
	Fu.C.3	-0.85	0.89	1.000	-1.11	0.275	1.656 T	17.37	3.62	-3.87	-3.87
	Fu.C.4	-0.67	2.06	1.000	-0.84	0.131	1.839 D	-119.89	5.55	-5.72	-5.72
	Fu.C.5	-0.45	1.37	1.000	-0.56	0.131	1.839 D	-79.92	3.70	-3.81	-3.81
S15	Fu.C.1	-2.18	4.44	1.013	-4.97	0.188	1.864 D	-195.28	12.88	-15.35	-15.35
	Fu.C.2	-1.29	0.71	0.900	-3.88	0.365	1.425 T	104.08	4.48	-6.78	-6.78
	Fu.C.3	-1.11	0.25	0.900	-3.41	0.487	1.220 T	125.77	3.20	-5.25	-5.25
	Fu.C.4	-0.84	2.10	1.013	-2.14	0.160	1.884 D	-98.74	5.76	-6.91	-6.91
	Fu.C.5	-0.56	1.40	1.013	-1.43	0.160	1.885 D	-65.82	3.83	-4.61	-4.61
S16	Fu.C.1	-4.97	5.29	1.250	-4.04	0.362	2.196 D	-97.84	16.02	16.02	-15.30
	Fu.C.2	-3.88	-0.28	1.250	-4.53	0.000	0.000 T	277.26	6.05	-6.57	-6.57
	Fu.C.3	-3.41	-0.80	1.125	-4.13	0.000	0.000 T	287.72	4.46	-5.05	-5.05
	Fu.C.4	-2.14	2.43	1.250	-1.78	0.347	2.204 D	-49.59	7.17	7.17	-6.89
	Fu.C.5	-1.43	1.62	1.250	-1.19	0.347	2.204 D	-33.06	4.78	4.78	-4.59
S17	Fu.C.1	-4.04	0.84	0.875	0.00	0.518	0.000 T	20.37	11.05	11.05	-4.58
	Fu.C.2	-4.53			0.00	0.000	0.000 T	411.47	6.82	6.82	0.47
	Fu.C.3	-4.13			0.00	0.000	0.000 T	408.44	5.71	5.71	0.93
	Fu.C.4	-1.78	0.39	0.875	0.00	0.508	0.000 T	10.18	4.94	4.94	-2.08
	Fu.C.5	-1.19	0.26	0.875	0.00	0.508	0.000 T	6.79	3.29	3.29	-1.39
S18	Fu.C.1	0.11			-64.40	0.012	0.000 D	-139.84	-8.78	-8.78	-8.61
	Fu.C.2	-3.63			656.59	0.035	0.000 T	34.44	104.71	104.71	73.84
	Fu.C.3	-3.63			662.28	0.035	0.000 T	48.95	105.36	105.36	74.76
	Fu.C.4	0.05			-32.59	0.012	0.000 D	-81.29	-4.43	-4.43	-4.38
	Fu.C.5	0.04			-21.74	0.012	0.000 D	-54.19	-2.95	-2.95	-2.93
S19	Fu.C.1	0.00	0.05	1.137	0.00	0.000	0.000 D	-123.50	0.10	0.10	-0.09
	Fu.C.2	0.00	0.04	1.137	0.00	0.000	0.000 T	20.39	0.08	-0.08	-0.08
	Fu.C.3	0.00	0.03	1.137	0.00	0.000	0.000 T	34.00	0.05	-0.06	-0.06
	Fu.C.4	0.00	0.06	1.137	0.00	0.000	0.000 D	-61.76	0.10	0.10	-0.09
	Fu.C.5	0.00	0.04	1.137	0.00	0.000	0.000 D	-41.17	0.06	0.06	-0.06
S20	Fu.C.1	-38.69			0.00	0.000	0.000 D	-8.14	20.37	20.37	20.36
	Fu.C.2	597.81			0.00	0.000	0.000 D	-8.26	-310.63	-318.64	-318.64
	Fu.C.3	600.68			0.00	0.000	0.000 D	-6.96	-312.14	-320.14	-320.14
	Fu.C.4	-19.34			0.00	0.000	0.000 D	-6.07	10.18	10.18	10.18
	Fu.C.5	-12.90			0.00	0.000	0.000 D	-4.04	6.79	6.79	6.79
S21	Fu.C.1	0.00	0.04	1.137	0.00	0.000	0.000 T	91.75	0.07	-0.08	-0.08
	Fu.C.2	0.00	0.05	1.137	0.00	0.000	0.000 D	-30.45	0.08	0.08	-0.08
	Fu.C.3	0.00	0.04	1.137	0.00	0.000	0.000 D	-40.80	0.06	0.06	-0.06
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 T	47.24	0.08	-0.08	-0.08
	Fu.C.5	0.00	0.03	1.137	0.00	0.000	0.000 T	31.49	0.06	-0.06	-0.06
S22	Fu.C.1	0.00	0.05	1.137	0.00	0.000	0.000 D	-107.67	0.10	0.10	-0.09
	Fu.C.2	0.00	0.04	1.137	0.00	0.000	0.000 T	70.23	0.07	-0.08	-0.08
	Fu.C.3	0.00	0.03	1.137	0.00	0.000	0.000 T	81.90	0.05	-0.06	-0.06
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 D	-53.46	0.10	0.10	-0.09
	Fu.C.5	0.00	0.04	1.137	0.00	0.000	0.000 D	-35.64	0.06	0.06	-0.06
S23	Fu.C.1	0.00	0.04	1.137	0.00	0.000	0.000 T	69.83	0.07	-0.08	-0.08
	Fu.C.2	0.00	0.05	1.137	0.00	0.000	0.000 D	-85.53	0.09	0.09	-0.08
	Fu.C.3	0.00	0.04	1.137	0.00	0.000	0.000 D	-93.31	0.07	0.07	-0.06
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 T	36.23	0.08	-0.09	-0.09
	Fu.C.5	0.00	0.03	1.137	0.00	0.000	0.000 T	24.15	0.06	-0.06	-0.06
S24	Fu.C.1	0.00	0.04	1.074	0.00	0.000	0.000 D	-59.75	0.07	0.07	-0.07
	Fu.C.2	0.00	0.03	1.074	0.00	0.000	0.000 T	75.15	0.06	-0.06	-0.06
	Fu.C.3	0.00	0.02	1.074	0.00	0.000	0.000 T	81.49	0.04	-0.05	-0.05
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 D	-29.49	0.07	0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 D	-19.65	0.05	0.05	-0.05
S25	Fu.C.1	0.00	0.04	1.074	0.00	0.000	0.000 D	-29.80	0.07	0.07	-0.06
	Fu.C.2	0.00	0.03	1.074	0.00	0.000	0.000 T	91.66	0.06	-0.06	-0.06
	Fu.C.3	0.00	0.02	1.074	0.00	0.000	0.000 T	94.63	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 D	-14.44	0.07	0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 D	-9.62	0.05	0.05	-0.05
S26	Fu.C.1	0.00	0.03	1.074	0.00	0.000	0.000 T	30.49	0.06	-0.06	-0.06
	Fu.C.2	0.00	0.04	1.074	0.00	0.000	0.000 D	-87.64	0.07	0.07	-0.07
	Fu.C.3	0.00	0.03	1.074	0.00	0.000	0.000 D	-90.99	0.05	0.05	-0.05
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 T	16.18	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.02	1.074	0.00	0.000	0.000 T	10.79	0.05	-0.05	-0.05
S27	Fu.C.1	0.00	0.03	1.074	0.00	0.000	0.000 T	1.30	0.06	-0.06	-0.06

Portaal as A (ontvangst)		Novares Constructeurs									
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S27	Fu.C.2	0.00	0.04	1.074	0.00	0.000	0.000 D	-102.82	0.07	0.07	-0.07
	Fu.C.3	0.00	0.03	1.074	0.00	0.000	0.000 D	-102.88	0.05	0.05	-0.05
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 T	1.45	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 T	0.97	0.05	-0.05	-0.05
S28	Fu.C.1	0.00	0.03	1.074	0.00	0.000	0.000 T	1.30	0.06	0.06	-0.06
	Fu.C.2	0.00	0.03	1.074	0.00	0.000	0.000 T	105.26	0.06	-0.06	-0.06
	Fu.C.3	0.00	0.02	1.074	0.00	0.000	0.000 T	104.74	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 T	1.45	0.07	0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 T	0.97	0.05	0.05	-0.05
S29	Fu.C.1	0.00	0.03	1.074	0.00	0.000	0.000 T	30.49	0.06	0.06	-0.06
	Fu.C.2	0.00	0.03	1.074	0.00	0.000	0.000 T	116.22	0.06	-0.06	-0.06
	Fu.C.3	0.00	0.02	1.074	0.00	0.000	0.000 T	112.40	0.04	-0.04	-0.04
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 T	16.18	0.07	0.07	-0.07
	Fu.C.5	0.00	0.02	1.074	0.00	0.000	0.000 T	10.79	0.05	0.05	-0.05
S30	Fu.C.1	0.00	0.04	1.074	0.00	0.000	0.000 D	-29.80	0.06	-0.07	-0.07
	Fu.C.2	0.00	0.04	1.074	0.00	0.000	0.000 D	-117.08	0.07	0.07	-0.07
	Fu.C.3	0.00	0.03	1.074	0.00	0.000	0.000 D	-113.65	0.06	0.06	-0.05
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 D	-14.44	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 D	-9.62	0.05	-0.05	-0.05
S31	Fu.C.1	0.00	0.04	1.137	0.00	0.000	0.000 T	69.83	0.08	0.08	-0.07
	Fu.C.2	0.00	0.04	1.137	0.00	0.000	0.000 T	149.91	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.03	1.137	0.00	0.000	0.000 T	141.56	0.05	-0.05	-0.05
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 T	36.23	0.09	0.09	-0.08
	Fu.C.5	0.00	0.03	1.137	0.00	0.000	0.000 T	24.15	0.06	0.06	-0.06
S32	Fu.C.1	0.00	0.04	1.074	0.00	0.000	0.000 D	-59.75	0.07	-0.07	-0.07
	Fu.C.2	0.00	0.04	1.074	0.00	0.000	0.000 D	-127.29	0.07	0.07	-0.07
	Fu.C.3	0.00	0.03	1.074	0.00	0.000	0.000 D	-120.52	0.06	0.06	-0.05
	Fu.C.4	0.00	0.04	1.074	0.00	0.000	0.000 D	-29.49	0.07	-0.07	-0.07
	Fu.C.5	0.00	0.03	1.074	0.00	0.000	0.000 D	-19.65	0.05	-0.05	-0.05
S33	Fu.C.1	0.00	0.04	1.137	0.00	0.000	0.000 T	91.75	0.08	0.08	-0.07
	Fu.C.2	0.00	0.04	1.137	0.00	0.000	0.000 T	114.10	0.07	-0.07	-0.07
	Fu.C.3	0.00	0.03	1.137	0.00	0.000	0.000 T	103.40	0.05	-0.06	-0.06
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 T	47.24	0.08	0.08	-0.08
	Fu.C.5	0.00	0.03	1.137	0.00	0.000	0.000 T	31.49	0.06	0.06	-0.06
S34	Fu.C.1	0.00	0.05	1.137	0.00	0.000	0.000 D	-107.67	0.09	-0.10	-0.10
	Fu.C.2	0.00	0.06	1.137	0.00	0.000	0.000 D	-165.47	0.10	0.10	-0.10
	Fu.C.3	0.00	0.04	1.137	0.00	0.000	0.000 D	-153.32	0.08	0.08	-0.07
	Fu.C.4	0.00	0.05	1.137	0.00	0.000	0.000 D	-53.46	0.09	-0.10	-0.10
	Fu.C.5	0.00	0.04	1.137	0.00	0.000	0.000 D	-35.64	0.06	-0.06	-0.06
S35	Fu.C.1	-0.11			64.40	0.012	0.000 D	-139.84	8.78	8.78	8.61
	Fu.C.2	-3.71			719.34	0.034	0.000 D	-163.14	108.42	108.42	86.59
	Fu.C.3	-3.69			710.48	0.035	0.000 D	-144.84	107.09	107.09	85.56
	Fu.C.4	-0.05			32.59	0.012	0.000 D	-81.29	4.43	4.43	4.38
	Fu.C.5	-0.04			21.74	0.012	0.000 D	-54.19	2.95	2.95	2.93
S36	Fu.C.1	38.69			0.00	0.000	0.000 D	-8.14	-20.37	-20.37	-20.36
	Fu.C.2	637.40			0.00	0.000	0.000 D	-4.12	-332.97	-337.97	-337.97
	Fu.C.3	631.64			0.00	0.000	0.000 D	-2.71	-329.94	-334.94	-334.94
	Fu.C.4	19.34			0.00	0.000	0.000 D	-6.07	-10.18	-10.18	-10.18
	Fu.C.5	12.90			0.00	0.000	0.000 D	-4.04	-6.79	-6.79	-6.79
S37	Fu.C.1	0.00	-0.05	1.137	0.00	0.000	0.000 D	-123.50	-0.10	-0.10	0.09
	Fu.C.2	0.00	-0.06	1.137	0.00	0.000	0.000 D	-130.37	-0.09	0.10	0.10
	Fu.C.3	0.00	-0.04	1.137	0.00	0.000	0.000 D	-116.46	-0.06	0.07	0.07
	Fu.C.4	0.00	-0.06	1.137	0.00	0.000	0.000 D	-61.76	-0.10	-0.10	0.09
	Fu.C.5	0.00	-0.04	1.137	0.00	0.000	0.000 D	-41.17	-0.06	-0.06	0.06
-	-	kNm	kNm	m	kNm	m	m -	kN	kN	kN	kN



FU.C. OPLEGREACTIES ANALYSE

B.C.	Oplegging	Knoop	X	Z	My
Fu.C.1	O1	K1	8.70	-139.85	-0.11
	O2	K2	-8.70	-139.85	0.11
	Som Reacties		0.00	-279.69	
	Som Lasten		0.00	279.69	
Fu.C.2	O1	K1	-105.09	20.10	3.63
	O2	K2	-105.38	-165.12	3.71
	Som Reacties		-210.47	-145.02	
	Som Lasten		210.47	145.02	
Fu.C.3	O1	K1	-106.07	38.08	3.63
	O2	K2	-104.40	-146.79	3.69
	Som Reacties		-210.47	-108.72	
	Som Lasten		210.47	108.72	
Fu.C.4	O1	K1	4.41	-81.29	-0.05
	O2	K2	-4.41	-81.29	0.05
	Som Reacties		0.00	-162.58	
	Som Lasten		0.00	162.58	
Fu.C.5	O1	K1	2.94	-54.19	-0.04
	O2	K2	-2.94	-54.19	0.04
	Som Reacties		0.00	-108.38	
	Som Lasten		0.00	108.38	
-	-	-	kN	kN	kNm



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Z	Yr
K1	Ka.C.(w1)	0.0000	0.0000	0.199e-03
	Ka.C.1	0.0000	0.0000	0.199e-03
	Ka.C.2	0.0000	0.0000	0.394e-03
	Ka.C.3	0.0000	0.0000	-12.042e-03
K2	Ka.C.(w1)	0.0000	0.0000	-0.199e-03
	Ka.C.1	0.0000	0.0000	-0.199e-03
	Ka.C.2	0.0000	0.0000	-0.394e-03
	Ka.C.3	0.0000	0.0000	-12.375e-03
K3	Ka.C.(w1)	-0.0003	0.0001	-0.290e-03
	Ka.C.1	-0.0003	0.0001	-0.290e-03
	Ka.C.2	-0.0005	0.0002	-0.574e-03
	Ka.C.3	0.0658	0.0003	-2.820e-03
K4	Ka.C.(w1)	-0.0002	0.0017	-0.718e-03
	Ka.C.1	-0.0002	0.0017	-0.718e-03
	Ka.C.2	-0.0005	0.0034	-1.422e-03
	Ka.C.3	0.0662	0.0032	-0.454e-03
K5	Ka.C.(w1)	-0.0002	0.0031	-0.402e-03
	Ka.C.1	-0.0002	0.0031	-0.402e-03
	Ka.C.2	-0.0004	0.0061	-0.799e-03
	Ka.C.3	0.0665	0.0044	-0.325e-03
K6	Ka.C.(w1)	-0.0001	0.0037	-0.224e-03
	Ka.C.1	-0.0001	0.0037	-0.224e-03
	Ka.C.2	-0.0002	0.0073	-0.443e-03
	Ka.C.3	0.0666	0.0046	0.082e-03
K7	Ka.C.(w1)	0.0000	0.0039	0.000e-03
	Ka.C.1	0.0000	0.0039	0.000e-03
	Ka.C.2	0.0000	0.0078	-0.000e-03
	Ka.C.3	0.0668	0.0042	0.326e-03
K8	Ka.C.(w1)	0.0001	0.0037	0.224e-03
	Ka.C.1	0.0001	0.0037	0.224e-03
	Ka.C.2	0.0002	0.0073	0.443e-03
	Ka.C.3	0.0668	0.0033	0.526e-03
K9	Ka.C.(w1)	0.0002	0.0031	0.402e-03
	Ka.C.1	0.0002	0.0031	0.402e-03
	Ka.C.2	0.0004	0.0061	0.799e-03

Portaal as A (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K9	Ka.C.3	0.0668	0.0023	0.469e-03
K10	Ka.C.(w1)	0.0002	0.0017	0.718e-03
	Ka.C.1	0.0002	0.0017	0.718e-03
	Ka.C.2	0.0005	0.0034	1.422e-03
	Ka.C.3	0.0666	0.0008	0.977e-03
K11	Ka.C.(w1)	0.0003	0.0001	0.290e-03
	Ka.C.1	0.0003	0.0001	0.290e-03
	Ka.C.2	0.0005	0.0002	0.574e-03
	Ka.C.3	0.0663	0.0005	-2.270e-03
K12	Ka.C.(w1)	0.0004	0.0001	-0.365e-03
	Ka.C.1	0.0004	0.0001	-0.365e-03
	Ka.C.2	0.0008	0.0002	-0.723e-03
	Ka.C.3	0.0686	0.0003	-0.757e-03
K13	Ka.C.(w1)	0.0004	0.0010	-0.723e-03
	Ka.C.1	0.0004	0.0010	-0.723e-03
	Ka.C.2	0.0008	0.0019	-1.449e-03
	Ka.C.3	0.0684	0.0019	-1.214e-03
K14	Ka.C.(w1)	0.0003	0.0025	-0.501e-03
	Ka.C.1	0.0003	0.0025	-0.501e-03
	Ka.C.2	0.0006	0.0049	-0.985e-03
	Ka.C.3	0.0679	0.0040	-0.489e-03
K15	Ka.C.(w1)	0.0002	0.0035	-0.318e-03
	Ka.C.1	0.0002	0.0035	-0.318e-03
	Ka.C.2	0.0004	0.0068	-0.627e-03
	Ka.C.3	0.0676	0.0046	-0.076e-03
K16	Ka.C.(w1)	0.0001	0.0039	-0.111e-03
	Ka.C.1	0.0001	0.0039	-0.111e-03
	Ka.C.2	0.0001	0.0077	-0.221e-03
	Ka.C.3	0.0673	0.0045	0.206e-03
K17	Ka.C.(w1)	-0.0001	0.0039	0.111e-03
	Ka.C.1	-0.0001	0.0039	0.111e-03
	Ka.C.2	-0.0001	0.0077	0.221e-03
	Ka.C.3	0.0672	0.0038	0.426e-03
K18	Ka.C.(w1)	-0.0002	0.0035	0.318e-03
	Ka.C.1	-0.0002	0.0035	0.318e-03
	Ka.C.2	-0.0004	0.0068	0.627e-03
	Ka.C.3	0.0672	0.0028	0.553e-03
K19	Ka.C.(w1)	-0.0003	0.0025	0.501e-03
	Ka.C.1	-0.0003	0.0025	0.501e-03
	Ka.C.2	-0.0006	0.0049	0.985e-03
	Ka.C.3	0.0673	0.0016	0.501e-03
K20	Ka.C.(w1)	-0.0004	0.0010	0.723e-03
	Ka.C.1	-0.0004	0.0010	0.723e-03
	Ka.C.2	-0.0008	0.0019	1.449e-03
	Ka.C.3	0.0676	0.0006	0.217e-03
K21	Ka.C.(w1)	-0.0004	0.0001	0.365e-03
	Ka.C.1	-0.0004	0.0001	0.365e-03
	Ka.C.2	-0.0008	0.0002	0.723e-03
	Ka.C.3	0.0678	0.0005	-0.043e-03
-	-	m	m	rad

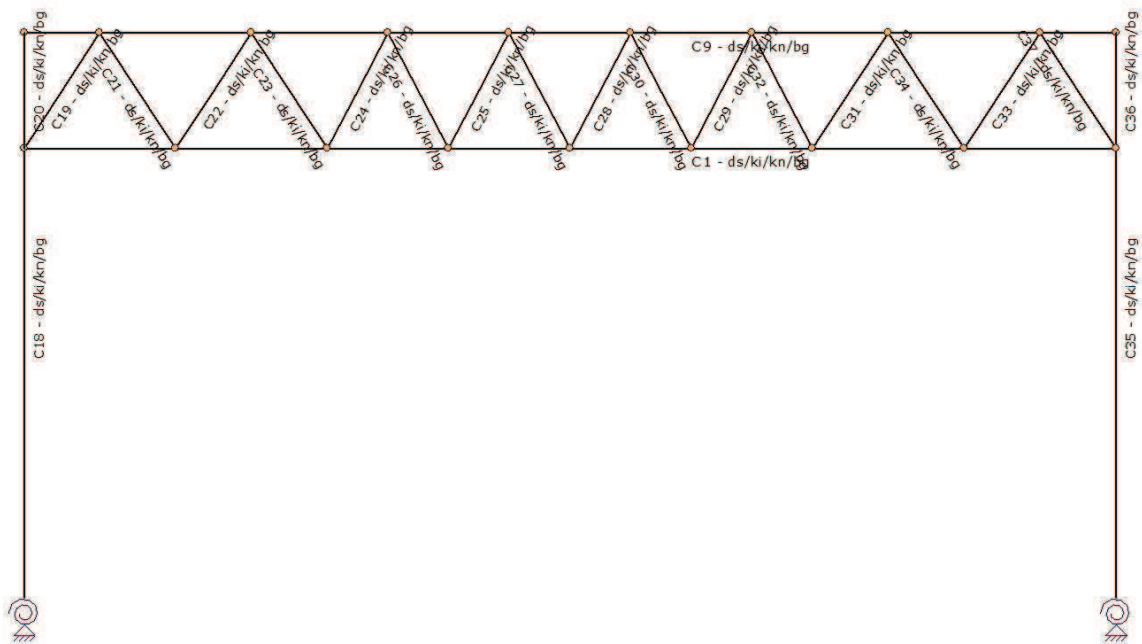
KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S1	Ka.C.2	-0,001	0,000	0.875	-0.0003	0,000	0,003
S1	Ka.C.3	0,066	0,000	1.000	0.0008	0,066	0,003
S2	Ka.C.2	0,000	0,003	1.250	0.0002	0,000	0,006
S3	Ka.C.3	0,066	0,004	1.000	0.0001	0,067	0,005
S4	Ka.C.2	0,000	0,007	1.000	0.0001	0,000	0,008
S5	Ka.C.2	0,000	0,008	1.000	0.0001	0,000	0,007
S6	Ka.C.2	0,000	0,007	1.000	0.0001	0,000	0,006
S6	Ka.C.3	0,067	0,003	1.500	0.0000	0,067	0,002
S7	Ka.C.2	0,000	0,006	1.375	0.0002	0,000	0,003
S8	Ka.C.3	0,067	0,001	1.500	-0.0011	0,066	0,001
S9	Ka.C.2	0,001	0,000	1.125	0.0000	0,001	0,002
S9	Ka.C.3	0,069	0,000	0.750	0.0000	0,068	0,002
S10	Ka.C.3	0,068	0,002	1.250	0.0003	0,068	0,004
S11	Ka.C.2	0,001	0,005	1.237	0.0002	0,000	0,007
S12	Ka.C.2	0,000	0,007	1.000	0.0001	0,000	0,008

Portaal as A (ontvangst)	Novares Constructeurs	
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Staaf	B.C.	Knoop Begin		Staaf		Knoop Eind	
		X	Z	Z'afst	Z'	X	Z
S13	Ka.C.2	0,000	0,008	1.000	0.0002	0,000	0,008
S14	Ka.C.2	0,000	0,008	1.000	0.0001	0,000	0,007
S15	Ka.C.2	0,000	0,007	1.125	0.0002	-0,001	0,005
S16	Ka.C.2	-0,001	0,005	1.250	0.0003	-0,001	0,002
S16	Ka.C.3	0,067	0,002	1.875	0.0000	0,068	0,001
S17	Ka.C.3	0,068	0,001	0.563	0.0000	0,068	0,001
S18	Ka.C.2	0,000	0,000	4.440	-0.0009	-0,001	0,000
S18	Ka.C.3	0,000	0,000	4.070	0.0088	0,066	0,000
S19	Ka.C.2	-0,001	0,000	1.251	0.0001	0,001	0,002
S20	Ka.C.2	-0,001	0,000	0.950	0.0000	0,001	0,000
S20	Ka.C.3	0,066	0,000	0.855	0.0005	0,069	0,000
S21	Ka.C.3	0,068	0,002	1.251	0.0001	0,066	0,003
S22	Ka.C.2	0,000	0,003	1.251	0.0001	0,001	0,005
S23	Ka.C.3	0,068	0,004	1.251	0.0001	0,066	0,004
S24	Ka.C.2	0,000	0,006	1.181	0.0000	0,000	0,007
S25	Ka.C.2	0,000	0,007	1.181	0.0000	0,000	0,008
S26	Ka.C.(w1)	0,000	0,003	1.181	0.0000	0,000	0,004
S26	Ka.C.1	0,000	0,003	1.181	0.0000	0,000	0,004
S27	Ka.C.(w1)	0,000	0,004	1.181	0.0000	0,000	0,004
S27	Ka.C.1	0,000	0,004	1.181	0.0000	0,000	0,004
S28	Ka.C.(w1)	0,000	0,004	1.181	0.0000	0,000	0,004
S28	Ka.C.1	0,000	0,004	1.181	0.0000	0,000	0,004
S29	Ka.C.(w1)	0,000	0,004	1.181	0.0000	0,000	0,003
S29	Ka.C.1	0,000	0,004	1.181	0.0000	0,000	0,003
S30	Ka.C.2	0,000	0,008	1.181	0.0000	0,000	0,007
S31	Ka.C.(w1)	0,000	0,003	1.251	0.0001	0,000	0,002
S31	Ka.C.1	0,000	0,003	1.251	0.0001	0,000	0,002
S32	Ka.C.2	0,000	0,007	1.181	0.0000	0,000	0,006
S33	Ka.C.(w1)	0,000	0,002	1.251	0.0001	0,000	0,001
S33	Ka.C.1	0,000	0,002	1.251	0.0001	0,000	0,001
S34	Ka.C.3	0,067	0,002	1.251	0.0001	0,067	0,001
S35	Ka.C.3	0,000	0,000	4.070	0.0096	0,066	0,001
S36	Ka.C.3	0,066	0,001	0.855	0.0005	0,068	0,001
S37	Ka.C.3	0,066	0,001	1.251	-0.0001	0,068	0,001
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staal/staven
C1	S1; S2; S3; S4; S5; S6; S7; S8
C9	S9; S10; S11; S12; S13; S14; S15; S16; S17
C18	S18
C19	S19
C20	S20
C21	S21
C22	S22
C23	S23
C24	S24
C25	S25
C26	S26
C27	S27
C28	S28
C29	S29
C30	S30
C31	S31
C32	S32
C33	S33
C34	S34
C35	S35
C36	S36
C37	S37

KNIKLENGTEGEGEVENS

Staal	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C1 - V1 (0.000-18.000)	P1	18.000	Cons. gesch.	18.000	1.00	Cons. gesch.	18.000	1.00
C9 - V1 (0.000-18.000)	P2	18.000	Handmatige Invoer	5.000	0.28	Handmatige Invoer	6.000	0.33
C18 - V1 (0.000-7.400)	P3	7.400	Ongeschoord	16.823	2.27	Cons. gesch.	7.400	1.00

Portaal as A (ontvangst)	Novares Constructeurs	
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Staaf	Profiel	Lokale Y-as			Lokale Z-as			
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C19 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
C20 - V1 (0.000-1.900)	P3	1.900	Ongeschoord	5.144	2.71	Cons. gesch.	1.900	1.00
C21 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
C22 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
C23 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
C24 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C25 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C26 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C27 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C30 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C32 - V1 (0.000-2.147)	P4	2.150	Cons. gesch.	2.147	1.00	Cons. gesch.	2.147	1.00
C34 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
C35 - V1 (0.000-7.400)	P3	7.400	Ongeschoord	16.823	2.27	Cons. gesch.	7.400	1.00
C36 - V1 (0.000-1.900)	P3	1.900	Ongeschoord	5.144	2.71	Cons. gesch.	1.900	1.00
C37 - V1 (0.000-2.274)	P4	2.270	Cons. gesch.	2.274	1.00	Cons. gesch.	2.274	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEGEVENS

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C1 - V1 (0.000-18.000)	P1	Gesteund	Gesteund			Centrum
C9 - V1 (0.000-18.000)	P2	Gesteund	Gesteund			Centrum
C18 - V1 (0.000-7.400)	P3	Gesteund	Gesteund			Centrum
C19 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C20 - V1 (0.000-1.900)	P3	Gesteund	Gesteund			Centrum
C21 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C22 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C23 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C24 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C25 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C26 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C27 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C28 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C29 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C30 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C31 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C32 - V1 (0.000-2.147)	P4	Gesteund	Gesteund			Centrum
C33 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C34 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
C35 - V1 (0.000-7.400)	P3	Gesteund	Gesteund			Centrum
C36 - V1 (0.000-1.900)	P3	Gesteund	Gesteund			Centrum
C37 - V1 (0.000-2.274)	P4	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

DOORBUIGINGGEGEVENS

Staaf	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C1 - V1 (0.000-18.000)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C9 - V1 (0.000-18.000)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C18 - V1 (0.000-7.400)	Kolom	Handmatig/h			3-Punt	H/100	Htot/0
C19 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C20 - V1 (0.000-1.900)	Kolom	Eén bouwlaag, industriële gebouw			3-Punt	H/150	N/B
C21 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C22 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C23 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C24 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C25 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250

Staaf	Constructietype	Toetsing	Zeeg Y'	Zeeg Z'	Zeegvorm	Eis U;eind	Eis U;bij
C26 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C27 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C28 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C29 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C30 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C31 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C32 - V1 (0.000-2.147)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C33 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C34 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
C35 - V1 (0.000-7.400)	Kolom	Handmatig/h			3-Punt	H/100	Htot/0
C36 - V1 (0.000-1.900)	Kolom	Eén bouwlaag, industriële gebouw			3-Punt	H/150	N/B
C37 - V1 (0.000-2.274)	Dak	Algemeen	0	0	3-Punt	L/250	L/250
-	-	-	mm	mm	-	-	-

STAALTOETS RESULTATEN MET PROFIELGEGEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C1-V1 (0.000-18.000)

KK250/10	Analyse	Staal S355H(EN10219-1)	fya(toegepast) = 355 N/mm2
h = 250,0 mm	A = 9,17e-03 m2	Wy;el = 685.5e-06 m3	Wy;pl = 811.1e-06 m3
b = 250,0 mm	Iy = 856.8e-07 m4	Wz;el = 685.5e-06 m3	Wz;pl = 811.1e-06 m3
tf = 10,0 mm	Iz = 856.8e-07 m4	Aw;y;el = 4.59e-03 m2	Aw;y;pl = 4.59e-03 m2
tw = 10,0 mm	Massa/m = 72,0 kg/m	Aw;z;el = 4.59e-03 m2	Aw;z;pl = 4.59e-03 m2
r = 20,0 mm		It = 138.2e-06 m4	Iwa = 123.4e-08 m6

Doorsnedetoetsing C1-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.2 op 18,000 m	Profielklasse = 1
N;Ed = -347,6 kN	My;Ed = -81,9 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 3.255,6 kN	MyRd = 287,9 kNm
	MzRd = 287,9 kNm
NEN-EN1993-1-1(6.12): UC = 0,28 < 1	

Kiptoetsing C1-V1 (0.000-18.000)

Equi. profiel: KK250/10			
Maatgevende combinatie: Fu.C.5		Instab. curve Kip:d	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt Fig. NB.32	M = -8,8kN/m	MBeta = -8,8	q = 0,2
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 18,000 m	lst = 18,000 m
Lsys = 18,000 m	Lg = 18,000 m	S = 0,152 m	Iwa = 1.2338e-06 m6
C1 = 2,30	C2 = 0,94 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.5) = 1,00	M;Ed = 2,6 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 18,000 m		UC(z) = 0,00
My;begin = -8,8 kNm	My;eind = -8,8 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C1-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.3			
N;Ed = -351,2 kN	Nb;Rd;y = 451,4 kN	Nb;Rd;z = 451,4 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 18,000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 18,000 m
Xy = 0,14		Knikcurve: C	
Xz = 0,14		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,78 < 1			

Buiging & Druk C1-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.3	Profielklasse = 1
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Portaal as A (ontvangst)	Novares Constructeurs	
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N;Ed = -351,2 kN	My;Ed = 2,6 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = -78,8 kNm	My;Psi = 61,6 kNm	My;s = 1,5 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,40	Cmz = 1,00	CmLT = 0,40	
Kyy = 0,649	Kyz = 0,973	Kzy = 0,389	Kzz = 1,622
Ksi;y = 0,14	Ksi;z = 0,14	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,96 < 1			

Doorbuigingstoetsing Z' C1-V1 (0.000-18.000)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 3,8 mm (x = 9,000 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 3,8 mm (x = 9,000 mm; Ka.C.2)	
w;tot; = 7,6 mm	
w;max = 7,6 mm	(w;2+w;3) = 3,8 mm
Limiet w;max = L/250 = 72,0 mm	Limiet (w;2+w;3) = L/250 = 72,0 mm
UC(w;max) = 0,1	UC(w;2+w;3) = 0,1
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,11<1	

Doorbuigingstoetsing Z" C1-V1 (0.000-18.000)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 3,8 mm (x = 9,000 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 3,8 mm (x = 9,000 mm; Ka.C.2)	
w;tot; = 7,6 mm	
w;max = 7,6 mm	(w;2+w;3) = 3,8 mm
Limiet w;max = L/250 = 72,0 mm	Limiet (w;2+w;3) = L/250 = 72,0 mm
UC(w;max) = 0,1	UC(w;2+w;3) = 0,1
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,11<1	

Profielgegevens staaf C9-V1 (0.000-18.000)

HE180B	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2	
h = 180,0 mm	A = 6,53e-03 m2	Wy;el = 425.7e-06 m3	Wy;pl = 481.4e-06 m3
b = 180,0 mm	Iy = 383.1e-07 m4	Wz;el = 151.4e-06 m3	Wz;pl = 231.0e-06 m3
tf = 14,0 mm	Iz = 136.3e-07 m4	Aw;y;el = 5.23e-03 m2	Aw;y;pl = 5.23e-03 m2
tw = 8,5 mm	Massa/m = 51,2 kg/m	Aw;z;el = 2.02e-03 m2	Aw;z;pl = 2.02e-03 m2
r = 15,0 mm		It = 421.6e-09 m4	Iwa = 937.5e-10 m6

Doorsnedetoetsing C9-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.2 op 16,750 m		Profielklasse = 1
N;Ed = 411,5 kN	Vy;Ed = 0,0 kN	My;Ed = -4,5 kNm
	Vz;Ed = 6,8 kN	Mz;Ed = 0,0 kNm
N;Rd = 1.533,4 kN	Vy;Rd = 710,0 kN	MyRd = 113,1 kNm
	Vz;Rd = 274,6 kN	MzRd = 54,3 kNm
NEN-EN1993-1-1(6.5): UC = 0,27 < 1		

Kiptoetsing C9-V1 (0.000-18.000)

Equi. profiel: HE180B		Instab. curve Kip:a	
Maatgevende combinatie: Fu.C.1			
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,005	b-eff(Eind) = 0,005
Tabel gebruikt NB 6.2	q = 0,1kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 18,000 m	lst = 18,000 m
Lsys = 18,000 m	Lg = 18,000 m	S = 0,760 m	Iwa = 9.3746e-08 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 3,58
Mcr = 62,1 kNm	kred = 1.0	Lam-rel = 1,35	Profielklasse 1
Chi;LT(Fu.C.1) = 0,44	M;Ed = 5,3 kNm		UC(y) = 0,11
Chi;LT,Z = 1,00	Ikip = 18,000 m		UC(z) = 0,00

My;begin = 0,0 kNm
 My;eind = 0,0 kNm
 NEN-EN1993-1-1(6.54): UC = 0,11 < 1

Stabiliteitstoetsing C9-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.2

N;Ed = -392,1 kN	Nb;Rd;y = 1.206,2 kN	Nb;Rd;z = 536,7 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 5,000 m
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 6,000 m
Xy = 0,79		Knikcurve: B	
Xz = 0,35		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,73 < 1			

Buiging & Druk C9-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.2	Kipgevoelig Ja	Profielklasse = 1
N;Ed = -392,1 kN	My;Ed = 5,3 kNm	Mz;Ed = 0,0 kNm
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 1,9 kNm
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95
Kyy = 1,103	Kyz = 1,214	Kzy = 0,896
Ksi;y = 0,79	Ksi;z = 0,35	Ksi;LT = 0,44
NEN-EN1993-1-1(6.61&6.62): UC = 0,81 < 1		Kzz = 2,023

Doorbuigingstoetsing Z' C9-V1 (0.000-18.000)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 3,9 mm (x = 9,000 mm; Ka.C.(w1))	w;2 = 0,0 mm
w;3 = 3,8 mm (x = 9,000 mm; Ka.C.2)	
w;tot; = 7,7 mm	
w;max = 7,7 mm	(w;2+w;3) = 3,8 mm
Limiet w;max = L/250 = 72,0 mm	Limiet (w;2+w;3) = L/250 = 72,0 mm
UC(w;max) = 0,1	UC(w;2+w;3) = 0,1
NEN-EN1993-1-1(6.61&6.62): UC = 0,81 < 1	

Doorbuigingstoetsing Z" C9-V1 (0.000-18.000)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 3,9 mm (x = 9,000 mm; Ka.C.(w1))	w;2 = 0,0 mm
w;3 = 3,8 mm (x = 9,000 mm; Ka.C.2)	
w;tot; = 7,7 mm	
w;max = 7,7 mm	(w;2+w;3) = 3,8 mm
Limiet w;max = L/250 = 72,0 mm	Limiet (w;2+w;3) = L/250 = 72,0 mm
UC(w;max) = 0,1	UC(w;2+w;3) = 0,1
NEN-EN1993-1-1(6.61&6.62): UC = 0,81 < 1	

Profielgegevens staaf C18-V1 (0.000-7.400)

HE500A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2
h = 490,0 mm	A = 19,75e-03 m2	Wy;el = 355.0e-05 m3
b = 300,0 mm	Iy = 869.7e-06 m4	Wy;pl = 394.9e-05 m3
tf = 23,0 mm	Iz = 103.7e-06 m4	Wz;el = 691.1e-06 m3
tw = 12,0 mm	Massa/m = 155,1 kg/m	Wz;pl = 105.9e-05 m3
r = 27,0 mm		Aw;y;el = 1.44e-02 m2
		Aw;y;pl = 1.44e-02 m2
		Aw;z;el = 7.47e-03 m2
		Aw;z;pl = 7.47e-03 m2
		It = 309.3e-08 m4
		Iwa = 564.3e-08 m6

Doorsnedetoetsing C18-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.3 op 7,400 m	Profielklasse = 1
N;Ed = 49,0 kN	My;Ed = 662,3 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 4.642,1 kN	MyRd = 928,0 kNm
	MzRd = 248,8 kNm
NEN-EN1993-1-1(6.12): UC = 0,71 < 1	

Kiptoetsing C18-V1 (0.000-7.400)

Equi. profiel: HE500A

Maatgevende combinatie: Fu.C.3

Instab. curve Kip:a

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,043

b-eff(Eind) = 0,030

Tabel gebruikt Fig. NB.32

M = 662,3kN/m

MBeta = -3,6

q = 4,1

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 7,400 m

lst = 7,400 m

Lsys = 7,400 m

Lg = 7,400 m

S = 2,178 m

Iwa = 5.6431e-06 m6

C1 = 1,71

C2 = 0,03 (tabel)

C2(toegepast) = 0,00

C = 7,30

Mcr = 2.301,5 kNm

kred = 1.0

Lam-rel = 0,63

Profielklasse 1

Chi;LT(Fu.C.3) = 0,88

M;Ed = 662,3 kNm

UC(y) = 0,81

Chi;LT,Z = 1,00

Ikip = 7,400 m

UC(z) = 0,00

My;begin = -3,6 kNm

My;eind = 662,3 kNm

NEN-EN1993-1-1(6.54): UC = 0,81 < 1

Stabiliteitstoetsing C18-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.1

N;Ed = -139,8 kN

Nb;Rd;y = 3.544,8 kN

Nb;Rd;z = 2.518,9 kN

Methode Y = Ongeschoord

Ca(y) = 5,000

Cb(y) = 0,250

Lknik Y = 16,823 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7,400 m

Xy = 0,76

Knikcurve: A

Xz = 0,54

Knikcurve: B

NEN-EN1993-1-1(6.46): UC = 0,06 < 1

Buiging & Druk C18-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.1

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -139,8 kN

My;Ed = 662,3 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = -64,4 kNm

My;Psi = 0,1 kNm

My;s = -32,3 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,60

Cmz = 0,90

CmLT = 0,90

Kyy = 0,617

Kyz = 0,582

Kzy = 0,991

Kzz = 0,970

Ksi;y = 0,76

Ksi;z = 0,54

Ksi;LT = 0,88

NEN-EN1993-1-1(6.61&6.62): UC = 0,13 < 1

Doorbuigingstoetsing X C18-V1 (0.000-7.400)

Constructietype : Kolom

Toets type: Handmatig/h

u;i;3 = 65,8 mm (Ka.C.3)

u;3 = 0,4 mm (Ka.C.1)

Limiet u;i;max = H/100 = 74,0 mm

Limiet u;max = Htot/0 = 0,0 mm

UC(u;i;max) = 0,9

UC(u;max) = 0,0

NEN-EN1993-1-1(6.61&6.62): UC = 0,89 < 1

Profielgegevens staaf C19-V1 (0.000-2.274)

KK90/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90,0 mm

A = 1,33e-03 m2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

b = 90,0 mm

Iy = 161.9e-08 m4

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

tf = 4,0 mm

Iz = 161.9e-08 m4

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

tw = 4,0 mm

Massa/m = 10,5 kg/m

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

r = 4,0 mm

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C19-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1 op 0,000 m

Profielklasse = 1

N;Ed = -123,5 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

MyRd = 10,0 kNm

Vz;Rd = 90,6 kN

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.9): UC = 0,39 < 1

Kiptoetsing C19-V1 (0.000-2.274)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,1kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,274 m

lst = 2,274 m

Lsys = 2,274 m

Lg = 2,274 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,274 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C19-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1

N;Ed = -123,5 kN

Nb;Rd;y = 228,2 kN

Nb;Rd;z = 228,2 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,274 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,274 m

Xy = 0,73

Knikcurve: C

Xz = 0,73

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,54 < 1

Buiging & Druk C19-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1

N;Ed = -123,5 kN

My;Ed = 0,0 kNm

Profielklasse = 1

Delta;My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,1 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,205

Kyz = 0,761

Kzy = 0,723

Kzz = 1,268

Ksi;y = 0,73

Ksi;z = 0,73

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,55 < 1

Doorbuigingstoetsing Z' C19-V1 (0.000-2.274)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.2)

w;tot; = 0,1 mm

(w;2+w;3) = 0,0 mm

w;max = 0,1 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

UC(w;2+w;3) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Doorbuigingstoetsing Z" C19-V1 (0.000-2.274)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.2)

w;tot; = 0,1 mm

(w;2+w;3) = 0,0 mm

w;max = 0,1 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

UC(w;2+w;3) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Profielgegevens staaf C20-V1 (0.000-1.900)

HE500A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 490,0 mm

A = 19,75e-03 m2

Wy;el = 355.0e-05 m3

Wy;pl = 394.9e-05 m3

Portaal as A (ontvangst)	Novares Constructeurs	
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b = 300,0 mm	ly = 869.7e-06 m4	Wz;el = 691.1e-06 m3	Wz;pl = 105.9e-05 m3
tf = 23,0 mm	lz = 103.7e-06 m4	Aw;y;el = 1.44e-02 m2	Aw;y;pl = 1.44e-02 m2
tw = 12,0 mm	Massa/m = 155,1 kg/m	Aw;z;el = 7.47e-03 m2	Aw;z;pl = 7.47e-03 m2
r = 27,0 mm		It = 309.3e-08 m4	Iwa = 564.3e-08 m6

Doorsnedetoetsing C20-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.3 op 0,000 m

N;Ed = -7,0 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = -312,1 kN	My;Ed = 600,7 kNm
N;Rd = 4.642,1 kN	Vy;Rd = 1.957,3 kN	Mz;Ed = 0,0 kNm
	Vz;Rd = 1.013,8 kN	MyRd = 928,0 kNm
		MzRd = 248,8 kNm

NEN-EN1993-1-1(6.12): UC = 0,65 < 1

Kiptoetsing C20-V1 (0.000-1.900)

Equi. profiel: HE500A

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:a

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund Beperk. eind: Gesteund

Tabel gebruikt Fig. NB.32 M = -12,9kN/m

Bovenflens maatgevend Xb;lst = 0,000 m

Lsys = 1,900 m Lg = 1,900 m

C1 = 1,80 C2 = 0,00 (tabel)

Mcr = 25.980,9 kNm kred = 1.0

Chi;LT(Fu.C.5) = 1,00 M;Ed = 0,0 kNm

Chi;LT,Z = 1,00 lkip = 1,900 m

My;begin = -12,9 kNm My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip NVT, i.v.m. geen buiging

b-eff(Begin) = 0,000

MBeta = 0,0

Xe;lst = 1,900 m

S = 2,178 m

C2(toegepast) = 0,00

Lam-rel = 0,20

b-eff(Eind) = 0,002

q = 0,0

lst = 1,900 m

Iwa = 5.6431e-06 m6

C = 21,17

Profielklasse 1

UC(y) = 0,00

UC(z) = 0,00

Stabiliteitstoetsing C20-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.3

N;Ed = -7,0 kN Nb;Rd;y = 4.579,2 kN

Methode Y = Ongeschoord Ca(y) = 0,566

Methode Z = Cons. gesch. Ca(z) = N/B

Xy = 0,99

Xz = 0,97

NEN-EN1993-1-1(6.46): UC = 0,00 < 1

Nb;Rd;z = 4.510,6 kN

Cb(y) = 5,000

Cb(z) = N/B

Knikcurve: A

Knikcurve: B

Lknik Y = 5,144 m

Lknik Z = 1,900 m

Buiging & Druk C20-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.3

N;Ed = -7,0 kN

Kipgevoelig Ja

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My = 600,7 kNm

Mz = 0,0 kNm

Cmy = 0,60

Kyy = 0,603

Ksi;y = 0,99

NEN-EN1993-1-1(6.61&6.62): UC = 0,57 < 1

My;Psi = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmz = 0,90

Kyz = 0,540

Ksi;z = 0,97

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 302,2 kNm

Mz;s = 0,0 kNm

CmLT = 0,90

Kzy = 0,879

Ksi;LT = 1,00

Kzz = 0,900

Doorbuigingstoetsing X C20-V1 (0.000-1.900)

Constructietype : Kolom

u;i;3 = 2,7 mm (Ka.C.3)

Limiet u;i;max = H/150 = 12,7 mm

UC(u;i;max) = 0,2

NEN-EN1990/NB A1.4.2: UC = 0,22<1

Toets type: Eén bouwlaag, industrieel gebouw

Limiet u;i;max = N/B = 0,0 mm

Profielgegevens staaf C21-V1 (0.000-2.274)

KK90/4

h = 90,0 mm

b = 90,0 mm

Analyse

A = 1,33e-03 m2

ly = 161.9e-08 m4

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 359.8e-07 m3

Wz;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

Wz;pl = 425.8e-07 m3

Portaal as A (ontvangst)	Novares Constructeurs	
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tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C21-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1 op 0,000 m	Profielklasse = 1
N;Ed = 91,7 kN	My;Ed = 0,0 kNm
Vy;Ed = 0,0 kN	Mz;Ed = 0,0 kNm
Vz;Ed = 0,1 kN	MyRd = 10,0 kNm
N;Rd = 313,7 kN	MzRd = 10,0 kNm
Vy;Rd = 90,6 kN	
Vz;Rd = 90,6 kN	

NEN-EN1993-1-1(6.5): UC = 0,29 < 1

Kiptoetsing C21-V1 (0.000-2.274)

Equi. profiel: KK90/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.5	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	b-eff(Begin) = 0,000
Tabel gebruikt NB 6.2	= 0,0
Bovenflens maatgevend	Xe;lst = 2,274 m
Lsys = 2,274 m	S = 0,055 m
C1 = 1,13	C2(toegepast) = 0,00
Mcr = 0,0 kNm	Lam-rel = 0,00
Chi;LT(Fu.C.5) = 1,00	
Chi;LT,Z = 1,00	
My;begin = 0,0 kNm	
My;eind = 0,0 kNm	
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)	

b-eff(Eind) = 0,000
lst = 2,274 m
Iwa = 2.9939e-09 m6
C = 0,00
Profielklasse 1
UC(y) = 0,00
UC(z) = 0,00

Stabiliteitstoetsing C21-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.3	
N;Ed = -40,8 kN	Nb;Rd;y = 228,2 kN
Methode Y = Cons. gesch.	Ca(y) = 0,000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0,73	Knikcurve: C
Xz = 0,73	Knikcurve: C
NEN-EN1993-1-1(6.46): UC = 0,18 < 1	

Nb;Rd;z = 228,2 kN
Cb(y) = 0,000
Cb(z) = N/B
Lknik Y = 2,274 m
Lknik Z = 2,274 m

Buiging & Druk C21-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.3	Profielklasse = 1
N;Ed = -40,8 kN	Mz;Ed = 0,0 kNm
My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm
Delta;My;Ed = 0,0 kNm	My;s = 0,0 kNm
My;Psi = 0,0 kNm	Mz;s = 0,0 kNm
Mz;Psi = 0,0 kNm	CmLT = 0,95
Cmy = 0,95	Kzy = 0,620
Kyy = 1,034	Ksi;LT = 1,00
Ksi;y = 0,73	
Ksi;z = 0,73	
NEN-EN1993-1-1(6.61&6.62): UC = 0,18 < 1	

Kzz = 1,089

Doorbuigingstoetsing Z' C21-V1 (0.000-2.274)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	w;2 = 0,0 mm
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN1990/NB A1.4.2: UC = 0,01 < 1	

Doorbuigingstoetsing Z" C21-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

UC(w;2+w;3) = 0,0

Profielgegevens staaf C22-V1 (0.000-2.274)

KK90/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90,0 mm

A = 1,33e-03 m2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

b = 90,0 mm

Iy = 161.9e-08 m4

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

tf = 4,0 mm

Iz = 161.9e-08 m4

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

tw = 4,0 mm

Massa/m = 10,5 kg/m

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

r = 4,0 mm

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C22-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1 op 0,000 m

Profielklasse = 1

N;Ed = -107,7 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

MyRd = 10,0 kNm

Vz;Rd = 90,6 kN

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.9): UC = 0,34 < 1

Kipptoetsing C22-V1 (0.000-2.274)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,1kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,274 m

Ist = 2,274 m

Lsys = 2,274 m

Lg = 2,274 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,274 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C22-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1

N;Ed = -107,7 kN

Nb;Rd;y = 228,2 kN

Nb;Rd;z = 228,2 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,274 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,274 m

Xy = 0,73

Knikcurve: C

Xz = 0,73

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,47 < 1

Buiging & Druk C22-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -107,7 kN

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,1 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,172

Kyz = 0,740

Kzy = 0,703

Kzz = 1,234

Ksi;y = 0,73

Ksi;z = 0,73

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,48 < 1

Doorbuigingstoetsing Z' C22-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.2)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

UC(w;2+w;3) = 0,0

Doorbuigingstoetsing Z" C22-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.2)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

UC(w;2+w;3) = 0,0

Profielgegevens staaf C23-V1 (0.000-2.274)

KK90/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90,0 mm

A = 1,33e-03 m2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

b = 90,0 mm

Iy = 161.9e-08 m4

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

tf = 4,0 mm

Iz = 161.9e-08 m4

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

tw = 4,0 mm

Massa/m = 10,5 kg/m

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

r = 4,0 mm

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C23-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.3 op 2,274 m

Profielklasse = 1

N;Ed = -93,3 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = -0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

MyRd = 10,0 kNm

Vz;Rd = 90,6 kN

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.9): UC = 0,30 < 1

Kiptoetsing C23-V1 (0.000-2.274)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,274 m

lst = 2,274 m

Lsys = 2,274 m

Lg = 2,274 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,274 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C23-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.3

N;Ed = -93,3 kN

Nb;Rd;y = 228,2 kN

Nb;Rd;z = 228,2 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,274 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,274 m

Xy = 0,73
Xz = 0,73
NEN-EN1993-1-1(6.46): UC = 0,41 < 1

Knikcurve: C
Knikcurve: C

Buiging & Druk C23-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.3

N;Ed = -93,3 kN

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

Kyy = 1,142

Kyz = 0,722

Ksi;y = 0,73

Ksi;z = 0,73

NEN-EN1993-1-1(6.61&6.62): UC = 0,41 < 1

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 0,0 kNm

Mz;s = 0,0 kNm

CmLT = 0,95

Kzy = 0,685

Ksi;LT = 1,00

Kzz = 1,203

Doorbuigingstoetsing Z' C23-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0,0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

UC(w;2+w;3) = 0,0

Doorbuigingstoetsing Z" C23-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0,0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

UC(w;2+w;3) = 0,0

Profielgegevens staaf C24-V1 (0.000-2.147)

KK90/4

Analyse

h = 90,0 mm

A = 1,33e-03 m2

b = 90,0 mm

Iy = 161.9e-08 m4

tf = 4,0 mm

Iz = 161.9e-08 m4

tw = 4,0 mm

Massa/m = 10,5 kg/m

r = 4,0 mm

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C24-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3 op 2,147 m

N;Ed = 81,5 kN

Vy;Ed = 0,0 kN

Vz;Ed = 0,0 kN

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

Vz;Rd = 90,6 kN

Profielklasse = 1

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

MyRd = 10,0 kNm

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.5): UC = 0,26 < 1

Kiptoetsing C24-V1 (0.000-2.147)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Portaal as A (ontvangst)	Novares Constructeurs	
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Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 2,147 m	lst = 2,147 m
Lsys = 2,147 m	Lg = 2,147 m	S = 0,055 m	lwa = 2.9939e-09 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	lkip = 2,147 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C24-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.1

N;Ed = -59,8 kN	Nb;Rd;y = 235,7 kN	Nb;Rd;z = 235,7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 2,147 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2,147 m
Xy = 0,75		Knikcurve: C	
Xz = 0,75		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,25 < 1			

Buiging & Druk C24-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.1

N;Ed = -59,8 kN	My;Ed = 0,0 kNm	Delta;My;Ed = 0,0 kNm	Profielklasse = 1
		Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,060	Kyz = 0,669	Kzy = 0,636	Kzz = 1,116
Ksi;y = 0,75	Ksi;z = 0,75	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,26 < 1			

Doorbuigingstoetsing Z' C24-V1 (0.000-2.147)

Constructietype : Dak

w;c = 0,0 mm	Toets type: Algemeen
w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))	Zeegvorm 3-Punt
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.2)	w;2 = 0.0 mm
w;tot; = 0,0 mm	
w;max = 0,0 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,00<1	

Doorbuigingstoetsing Z" C24-V1 (0.000-2.147)

Constructietype : Dak

w;c = 0,0 mm	Toets type: Algemeen
w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))	Zeegvorm 3-Punt
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.2)	w;2 = 0.0 mm
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C25-V1 (0.000-2.147)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	lwa = 299.4e-11 m6

Doorsnedetoetsing C25-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3 op 2,147 m

Profielklasse = 1

Portaal as A (ontvangst)	Novares Constructeurs	
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N;Ed = 94,6 kN	Vy;Ed = 0,0 kN	My;Ed = 0,0 kNm
	Vz;Ed = 0,0 kN	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN	MyRd = 10,0 kNm
	Vz;Rd = 90,6 kN	MzRd = 10,0 kNm

NEN-EN1993-1-1(6.5): UC = 0,30 < 1

Kiptoetsing C25-V1 (0.000-2.147)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,147 m

lst = 2,147 m

Lsys = 2,147 m

Lg = 2,147 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

lkip = 2,147 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C25-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.1

N;Ed = -29,8 kN

Nb;Rd;y = 235,7 kN

Nb;Rd;z = 235,7 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,147 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,147 m

Xy = 0,75

Knikcurve: C

Xz = 0,75

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,13 < 1

Buiging & Druk C25-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.1

Profielklasse = 1

N;Ed = -29,8 kN

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,005

Kyz = 0,635

Kzy = 0,603

Kzz = 1,058

Ksi;y = 0,75

Ksi;z = 0,75

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,13 < 1

Doorbuigingstoetsing Z' C25-V1 (0.000-2.147)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,074 mm; Ka.C.2)

w;tot; = 0,0 mm

w;max = 0,0 mm

(w;2+w;3) = 0,0 mm

Limiet w;max = L/250 = 8,6 mm

Limiet (w;2+w;3) = L/250 = 8,6 mm

UC(w;max) = 0,0

UC(w;2+w;3) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,00<1

Doorbuigingstoetsing Z" C25-V1 (0.000-2.147)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,074 mm; Ka.C.2)

w;tot; = 0,1 mm

w;max = 0,1 mm

(w;2+w;3) = 0,0 mm

Limiet $w; \max = L/250 = 8,6 \text{ mm}$

$UC(w; \max) = 0,0$

NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0,01 < 1$

Limiet $(w; 2+w; 3) = L/250 = 8,6 \text{ mm}$

$UC(w; 2+w; 3) = 0,0$

Profielgegevens staaf C26-V1 (0.000-2.147)

KK90/4 Analyse
 $h = 90,0 \text{ mm}$ $A = 1,33e-03 \text{ m}^2$
 $b = 90,0 \text{ mm}$ $I_y = 161.9e-08 \text{ m}^4$
 $t_f = 4,0 \text{ mm}$ $I_z = 161.9e-08 \text{ m}^4$
 $t_w = 4,0 \text{ mm}$ $\text{Massa/m} = 10,5 \text{ kg/m}$
 $r = 4,0 \text{ mm}$

Staal S235H(EN10219-1) $f_y(\text{toegepast}) = 235 \text{ N/mm}^2$
 $W_y; el = 359.8e-07 \text{ m}^3$ $W_y; pl = 425.8e-07 \text{ m}^3$
 $W_z; el = 359.8e-07 \text{ m}^3$ $W_z; pl = 425.8e-07 \text{ m}^3$
 $Aw; y; el = 6.67e-04 \text{ m}^2$ $Aw; y; pl = 6.67e-04 \text{ m}^2$
 $Aw; z; el = 6.67e-04 \text{ m}^2$ $Aw; z; pl = 6.67e-04 \text{ m}^2$
 $I_t = 254.4e-08 \text{ m}^4$ $I_{wa} = 299.4e-11 \text{ m}^6$

Doorsnedetoetsing C26-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3 op 2,147 m

$N; Ed = -91,0 \text{ kN}$ $V_y; Ed = 0,0 \text{ kN}$
 $V_z; Ed = -0,1 \text{ kN}$
 $N; Rd = 313,7 \text{ kN}$ $V_y; Rd = 90,6 \text{ kN}$
 $V_z; Rd = 90,6 \text{ kN}$

Profielklasse = 1
 $M_y; Ed = 0,0 \text{ kNm}$
 $M_z; Ed = 0,0 \text{ kNm}$
 $M_y; Rd = 10,0 \text{ kNm}$
 $M_z; Rd = 10,0 \text{ kNm}$

NEN-EN1993-1-1(6.9): $UC = 0,29 < 1$

Kipstoetsing C26-V1 (0.000-2.147)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund Beperk. eind: Gesteund
 $q = 0,0 \text{ kN/m}$
Tabel gebruikt NB 6.2
 $X_b; l_{st} = 0,000 \text{ m}$
 $L_{sys} = 2,147 \text{ m}$ $L_g = 2,147 \text{ m}$
 $C1 = 1,13$ $C2 = 0,45$ (tabel)
 $M_{cr} = 0,0 \text{ kNm}$ $k_{red} = 1,0$
 $Ch; LT(Fu.C.5) = 1,00$ $M; Ed = 0,0 \text{ kNm}$
 $Ch; LT, Z = 1,00$ $I_{kip} = 2,147 \text{ m}$
 $M_y; begin = 0,0 \text{ kNm}$ $M_y; eind = 0,0 \text{ kNm}$

Instab. curve Kip:d

$b_{eff}(\text{Begin}) = 0,000$ $b_{eff}(\text{Eind}) = 0,000$
 $= 0,0$
 $X_e; l_{st} = 2,147 \text{ m}$ $l_{st} = 2,147 \text{ m}$
 $S = 0,055 \text{ m}$ $I_{wa} = 2.9939e-09 \text{ m}^6$
 $C2(\text{toegepast}) = 0,00$ $C = 0,00$
 $Lam_{rel} = 0,00$ $\text{Profielklasse} = 1$
 $UC(y) = 0,00$
 $UC(z) = 0,00$

NEN-EN1993-1-1(6.54): $UC = 0,00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C26-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3

$N; Ed = -91,0 \text{ kN}$ $N_b; Rd; y = 235,7 \text{ kN}$
Methode Y = Cons. gesch. $Ca(y) = 0,000$
Methode Z = Cons. gesch. $Ca(z) = N/B$
 $X_y = 0,75$
 $X_z = 0,75$

$N_b; Rd; z = 235,7 \text{ kN}$
 $C_b(y) = 0,000$ $L_{knik Y} = 2,147 \text{ m}$
 $C_b(z) = N/B$ $L_{knik Z} = 2,147 \text{ m}$
Knikcurve: C
Knikcurve: C

NEN-EN1993-1-1(6.46): $UC = 0,39 < 1$

Buiging & Druk C26-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3

$N; Ed = -91,0 \text{ kN}$ $M_y; Ed = 0,0 \text{ kNm}$
 $\Delta; M_y; Ed = 0,0 \text{ kNm}$
 $M_y = 0,0 \text{ kNm}$ $M_y; Psi = 0,0 \text{ kNm}$
 $M_z = 0,0 \text{ kNm}$ $M_z; Psi = 0,0 \text{ kNm}$
 $C_{my} = 0,95$ $C_{mz} = 1,00$
 $K_{yy} = 1,117$ $K_{yz} = 0,706$
 $K_{si; y} = 0,75$ $K_{si; z} = 0,75$

Profielklasse = 1
 $M_z; Ed = 0,0 \text{ kNm}$
 $\Delta; M_z; Ed = 0,0 \text{ kNm}$
 $M_y; s = 0,0 \text{ kNm}$
 $M_z; s = 0,0 \text{ kNm}$
 $C_{mLT} = 0,95$
 $K_{zy} = 0,670$ $K_{zz} = 1,176$
 $K_{si; LT} = 1,00$

NEN-EN1993-1-1(6.61&6.62): $UC = 0,39 < 1$

Doorbuigingstoetsing Z' C26-V1 (0.000-2.147)

Constructietype : Dak

$w; c = 0,0 \text{ mm}$

$w; 1 = 0,0 \text{ mm}$ ($x = 1,074 \text{ mm}$; Ka.C.(w1))

Toets type: Algemeen

Zeegvorm 3-Punt

$w; 2 = 0,0 \text{ mm}$

$w_3 = 0,0 \text{ mm}$ ($x = 1,074 \text{ mm}$; $Ka.C.3$)
 $w_{tot} = 0,0 \text{ mm}$
 $w_{max} = 0,0 \text{ mm}$
 $\text{Limiet } w_{max} = L/250 = 8,6 \text{ mm}$
 $UC(w_{max}) = 0,0$
 NEN-EN1990/NB A1.4.2: $UC = 0,00 < 1$

$(w;2+w;3) = 0,0 \text{ mm}$
 $\text{Limiet } (w;2+w;3) = L/250 = 8,6 \text{ mm}$
 $\text{UC}(w;2+w;3) = 0,0$

Doorbuigingstoetsing Z" C26-V1 (0.000-2.147)

Constructietype : Dak
 $w;c = 0,0 \text{ mm}$
 $w;1 = 0,1 \text{ mm}$ ($x = 1,074 \text{ mm}$; $Ka.C.(w1)$)
 $w;3 = 0,0 \text{ mm}$ ($x = 1,074 \text{ mm}$; $Ka.C.3$)
 $w;tot; = 0,1 \text{ mm}$
 $w;max = 0,1 \text{ mm}$
 $Limiet\ w;max = L/250 = 8,6 \text{ mm}$
 $UC(w;max) = 0,0$
 NEN-EN1990/NB A1.4.2: $UC = 0,01 < 1$

Toets type: Algemeen
Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$

$(w;2+w;3) = 0,0 \text{ mm}$
Limiet $(w;2+w;3) = L/250 = 8,6 \text{ mm}$
 $UC(w;2+w;3) = 0.0$

Profielgegevens staaf C27-V1 (0.000-2.147)

KK90/4	Analyse
h = 90,0 mm	A = 1,33e-03 m ²
b = 90,0 mm	I _y = 161.9e-08 m ⁴
tf = 4,0 mm	I _z = 161.9e-08 m ⁴
tw = 4,0 mm	Massa/m = 10,5 kg/m
r = 4,0 mm	

Staal	S235H(EN10219-1)	$f_{yA}(\text{toegepast}) = 235 \text{ N/mm}^2$
Wy;el	= 359.8e-07 m ³	Wy;pl = 425.8e-07 m ³
Wz;el	= 359.8e-07 m ³	Wz;pl = 425.8e-07 m ³
Aw;y;el	= 6.67e-04 m ²	Aw;y;pl = 6.67e-04 m ²
Aw;z;el	= 6.67e-04 m ²	Aw;z;pl = 6.67e-04 m ²
It	= 254.4e-08 m ⁴	Iwa = 299.4e-11 m ⁶

Doorsnedetoetsing C27-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.3 op 2,147 m

N;Ed = -102,9 kN	Vy;Ed = 0,0 kN
	Vz;Ed = -0,1 kN
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN
	Vz;Rd = 90,6 kN

Profielklasse = 1
 $M_y;E_d = 0,0 \text{ kNm}$
 $M_z;E_d = 0,0 \text{ kNm}$
 $M_yR_d = 10,0 \text{ kNm}$
 $M_zR_d = 10,0 \text{ kNm}$

NEN-EN1993-1-1(6.9): $UC = 0,33 < 1$

Kiptoetsing C27-V1 (0.000-2.147)

Equi. profiel: KK90/4
Maatgevende combinatie: Fu.C.5
Aangrijphoogte van de last: 0,000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	$q = 0,0 \text{ kN/m}$
Bovenflens maatgevend	$X_b; l_{st} = 0,000 \text{ m}$
$L_{sys} = 2,147 \text{ m}$	$L_g = 2,147 \text{ m}$
$C1 = 1,13$	$C2 = 0,45 \text{ (tabel)}$
$M_{cr} = 0,0 \text{ kNm}$	$k_{red} = 1.0$
$\chi_i; L_T(F_u.C.5) = 1,00$	$M; E_d = 0,0 \text{ kNm}$
$\chi_i; L_T, Z = 1,00$	$l_{kip} = 2,147 \text{ m}$
$M_y; \text{begin} = 0,0 \text{ kNm}$	$M_y; \text{eind} = 0,0 \text{ kNm}$

b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
= 0,0	
Xe;lst = 2,147 m	lst = 2,147 m
S = 0,055 m	lwa = 2.9939e-09 m6
C2(toegepast) = 0,00	C = 0,00
Lam-rel = 0,00	Profielklasse 1
	UC(y) = 0,00
	UC(z) = 0,00

NEN-EN1993-1-1(6.54): $UC = 0,00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C27-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2

N;Ed = -102,8 kN	Nb;Rd;y = 235,7 kN
Methode Y = Cons. gesch.	Ca(y) = 0,000
Methode Z = Cons. gesch.	Ca(z) = N/B
Xy = 0,75	
Xz = 0,75	
NEN-EN1993-1-1(6.46): UC = 0,44 < 1	

Nb;Rd;z = 235,7 kN
Cb(y) = 0,000 Lknik Y = 2,147 m
Cb(z) = N/B Lknik Z = 2,147 m
Knikcurve: C
Knikcurve: C

Buiging & Druk C27-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2

Profielklasse = 1

Portaal as A (ontvangst)	Novares Constructeurs	
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N;Ed = -102,8 kN	My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,139	Kyz = 0,719	Kzy = 0,683	Kzz = 1,199
Ksi;y = 0,75	Ksi;z = 0,75	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,44 < 1			

Doorbuigingstoetsing Z' C27-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,0 mm	
w;max = 0,0 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C27-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C28-V1 (0.000-2.147)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C28-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2 op 1,932 m		Profielklasse = 1
N;Ed = 105,2 kN	Vy;Ed = 0,0 kN	My;Ed = 0,0 kNm
	Vz;Ed = 0,0 kN	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN	MyRd = 10,0 kNm
	Vz;Rd = 90,6 kN	MzRd = 10,0 kNm
NEN-EN1993-1-1(6.5): UC = 0,34 < 1		

Kiptoetsing C28-V1 (0.000-2.147)

Equi. profiel: KK90/4		Instab. curve Kip:d
Maatgevende combinatie: Fu.C.5		
Aangrijphoogte van de last: 0,000 m vanaf hart profiel		
Kipsteun bovenflens: N.v.t.		
Kipsteun onderflens: N.v.t.		
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0
Bovenflens maatgevend	Xb;lst = 0,000 m	lst = 2,147 m
Lsys = 2,147 m	Lg = 2,147 m	Iwa = 2.9939e-09 m6
C1 = 1,13	C2 = 0,45 (tabel)	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm	Profielklasse 1
Chi;LT,Z = 1,00	Ikip = 2,147 m	UC(y) = 0,00
		UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Z' C28-V1 (0.000-2.147)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,074 mm; Ka.C.1)

w;tot; = 0,0 mm

w;max = 0,0 mm

Limiet w;max = L/250 = 8,6 mm

UC(w;max) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,00<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 8,6 mm

UC(w;2+w;3) = 0,0

Doorbuigingstoetsing Z" C28-V1 (0.000-2.147)

Constructietype : Dak

w;c = 0,0 mm

w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))

w;3 = 0,0 mm (x = 1,074 mm; Ka.C.1)

w;tot; = 0,1 mm

w;max = 0,1 mm

Limiet w;max = L/250 = 8,6 mm

UC(w;max) = 0,0

NEN-EN|NEN-EN1990/NB A1.4.2: UC = 0,01<1

Toets type: Algemeen

Zeegvorm 3-Punt

w;2 = 0.0 mm

(w;2+w;3) = 0,0 mm

Limiet (w;2+w;3) = L/250 = 8,6 mm

UC(w;2+w;3) = 0,0

Profielgegevens staaf C29-V1 (0.000-2.147)

KK90/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90,0 mm

A = 1,33e-03 m2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

b = 90,0 mm

Iy = 161.9e-08 m4

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

tf = 4,0 mm

Iz = 161.9e-08 m4

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

tw = 4,0 mm

Massa/m = 10,5 kg/m

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

r = 4,0 mm

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C29-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2 op 1,932 m

Profielklasse = 1

N;Ed = 116,2 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

MyRd = 10,0 kNm

Vz;Rd = 90,6 kN

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.5): UC = 0,37 < 1

Kiptoetsing C29-V1 (0.000-2.147)

Equi. profiel: KK90/4

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,147 m

lst = 2,147 m

Lsys = 2,147 m

Lg = 2,147 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,147 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Z' C29-V1 (0.000-2.147)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))

w;2 = 0.0 mm

$w_3 = 0,0 \text{ mm}$ ($x = 1,074 \text{ mm}$; Ka.C.1)
 $w_{\text{tot}} = 0,0 \text{ mm}$
 $w_{\text{max}} = 0,0 \text{ mm}$
 $\text{Limiet } w_{\text{max}} = L/250 = 8,6 \text{ mm}$
 $UC(w_{\text{max}}) = 0,0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0,00 < 1$

$$(w;2+w;3) = 0,0 \text{ mm}$$

$$\text{Limiet } (w;2+w;3) = L/250 = 8,6 \text{ mm}$$

$$\text{UC}(w;2+w;3) = 0,0$$

Doorbuigingstoetsing Z" C29-V1 (0.000-2.147)

Constructietype : Dak
 $w;c = 0,0 \text{ mm}$
 $w_1;1 = 0,1 \text{ mm}$ ($x = 1,074 \text{ mm}$; Ka.C.(w_1))
 $w_3;3 = 0,0 \text{ mm}$ ($x = 1,074 \text{ mm}$; Ka.C.1)
 $w_{tot}; = 0,1 \text{ mm}$
 $w_{max}; = 0,1 \text{ mm}$
 $Limiet\ w_{max} = L/250 = 8,6 \text{ mm}$
 $UC(w_{max}) = 0,0$
 NEN-EN|NEN-EN1990/NB A1.4.2: $UC = 0,01 < 1$

Toets type: Algemeen
 Zeegvorm 3-Punt
 $w;2 = 0.0 \text{ mm}$

 $(w;2+w;3) = 0,0 \text{ mm}$
 Limiet $(w;2+w;3) = L/250 = 8,6 \text{ mm}$
 $UC(w;2+w;3) = 0,0$

Profielgegevens staaf C30-V1 (0.000-2.147)

KK90/4	Analyse
h = 90,0 mm	A = 1,33e-03 m2
b = 90,0 mm	ly = 161.9e-08 m4
tf = 4,0 mm	lz = 161.9e-08 m4
tw = 4,0 mm	Massa/m = 10,5 kg/m
r = 4,0 mm	

Staal	S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
Wy;el = 359.8e-07 m3		Wy;pl = 425.8e-07 m3
Wz;el = 359.8e-07 m3		Wz;pl = 425.8e-07 m3
Aw;y;el = 6.67e-04 m2		Aw;y;pl = 6.67e-04 m2
Aw;z;el = 6.67e-04 m2		Aw;z;pl = 6.67e-04 m2
It = 254.4e-08 m4		Iwa = 299.4e-11 m6

Doorsnedetoetsing C30-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2 op 1,932 m

N;Ed = -117,1 kN	Vy;Ed = 0,0 kN
	Vz;Ed = -0,1 kN
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN
	Vz;Rd = 90,6 kN

Profilklasse = 1
 $M_{y;Ed} = 0,0 \text{ kNm}$
 $M_{z;Ed} = 0,0 \text{ kNm}$
 $M_{yRd} = 10,0 \text{ kNm}$
 $M_{zRd} = 10,0 \text{ kNm}$

NEN-EN1993-1-1(6.9): $UC = 0,37 < 1$

Kiptoetsing C30-V1 (0.000-2.147)

Equi. profiel: KK90/4
Maatgevende combinatie: Fu.C.5
Aangrijphoogte van de last: 0,000 m vanaf hart profiel
Kipsteun bovenflens: N.v.t.
Kipsteun onderflens: N.v.t.

Instab. curve Kip:d

Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	$q = 0,0 \text{ kN/m}$
Bovenflens maatgevend	$X_b; l_{st} = 0,000 \text{ m}$
$L_{sys} = 2,147 \text{ m}$	$L_g = 2,147 \text{ m}$
$C1 = 1,13$	$C2 = 0,45 \text{ (tabel)}$
$M_{cr} = 0,0 \text{ kNm}$	$k_{red} = 1.0$
$\chi_i; LT(F_u.C.5) = 1,00$	$M; E_d = 0,0 \text{ kNm}$
$\chi_i; LT, Z = 1,00$	$I_{kip} = 2,147 \text{ m}$
$M_y; \text{begin} = 0,0 \text{ kNm}$	$M_y; \text{eind} = 0,0 \text{ kNm}$

b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
= 0,0	
Xe;lst = 2,147 m	lst = 2,147 m
S = 0,055 m	lwa = 2.9939e-09 m6
C2(toegepast) = 0,00	C = 0,00
Lam-rel = 0,00	Profielklasse 1
	UC(y) = 0,00
	UC(z) = 0,00

NEN-EN1993-1-1(6.54): $UC = 0,00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C30-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2

N _i ;E _d = -117,1 kN	Nb;R _d ;y = 235,7 kN
Methode Y = Cons. gesch.	Ca(y) = 0,000
Methode Z = Cons. gesch.	Ca(z) = N/B
X _y = 0,75	
X _z = 0,75	
NEN-EN1993-1-1(6.46): UC = 0.50 < 1	

Nb;Rd;z = 235,7 kN
Cb(y) = 0,000 Lknik Y = 2,147 m
Cb(z) = N/B Lknik Z = 2,147 m
Knikcurve: C
Knikcurve: C

Buiging & Druk C30-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2

Profielklasse = 1

N;Ed = -117,1 kN	My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,165	Kyz = 0,736	Kzy = 0,699	Kzz = 1,227
Ksi;y = 0,75	Ksi;z = 0,75	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,50 < 1			

Doorbuigingstoetsing Z' C30-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,0 mm	
w;max = 0,0 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C30-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C31-V1 (0.000-2.274)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C31-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2 op 2,047 m		Profielklasse = 1
N;Ed = 149,9 kN	Vy;Ed = 0,0 kN	My;Ed = 0,0 kNm
	Vz;Ed = -0,1 kN	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN	MyRd = 10,0 kNm
	Vz;Rd = 90,6 kN	MzRd = 10,0 kNm
NEN-EN1993-1-1(6.5): UC = 0,48 < 1		

Kiptoetsing C31-V1 (0.000-2.274)

Equi. profiel: KK90/4		Instab. curve Kip:d	
Maatgevende combinatie: Fu.C.5			
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 2,274 m	lst = 2,274 m
Lsys = 2,274 m	Lg = 2,274 m	S = 0,055 m	Iwa = 2.9939e-09 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 2,274 m		UC(z) = 0,00

My;begin = 0,0 kNm My;eind = 0,0 kNm
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Doorbuigingstoetsing Z' C31-V1 (0.000-2.274)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.1)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C31-V1 (0.000-2.274)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.1)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C32-V1 (0.000-2.147)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C32-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2 op 1,932 m	Profielklasse = 1
N;Ed = -127,3 kN	My;Ed = 0,0 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	MyRd = 10,0 kNm
	MzRd = 10,0 kNm
NEN-EN1993-1-1(6.9): UC = 0,41 < 1	

Kiptoetsing C32-V1 (0.000-2.147)

Equi. profiel: KK90/4		Instab. curve Kip:d
Maatgevende combinatie: Fu.C.5		
Aangrijphoogte van de last: 0,000 m vanaf hart profiel		
Kipsteun bovenflens: N.v.t.		
Kipsteun onderflens: N.v.t.		
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0
Bovenflens maatgevend	Xb;lst = 0,000 m	l = 2,147 m
Lsys = 2,147 m	Lg = 2,147 m	S = 0,055 m
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm	
Chi;LT,Z = 1,00	Ikip = 2,147 m	
My;begin = 0,0 kNm	My;eind = 0,0 kNm	
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)		

Stabiliteitstoetsing C32-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2		
N;Ed = -127,3 kN	Nb;Rd;y = 235,7 kN	Nb;Rd;z = 235,7 kN
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000
		Lknik Y = 2,147 m

Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2,147 m
Xy = 0,75		Knikcurve: C	
Xz = 0,75		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,54 < 1			

Buiging & Druk C32-V1 (0.000-2.147)

Maatgevende combinatie: Fu.C.2		Profielklasse = 1	
N;Ed = -127,3 kN	My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,184	Kyz = 0,748	Kzy = 0,710	Kzz = 1,246
Ksi;y = 0,75	Ksi;z = 0,75	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,54 < 1			

Doorbuigingstoetsing Z' C32-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,0 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0,0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,0 mm	
w;max = 0,0 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C32-V1 (0.000-2.147)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,074 mm; Ka.C.(w1))	w;2 = 0,0 mm
w;3 = 0,0 mm (x = 1,074 mm; Ka.C.3)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 8,6 mm	Limiet (w;2+w;3) = L/250 = 8,6 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C33-V1 (0.000-2.274)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C33-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2 op 2,047 m		Profielklasse = 1
N;Ed = 114,1 kN	Vy;Ed = 0,0 kN	My;Ed = 0,0 kNm
	Vz;Ed = -0,1 kN	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	Vy;Rd = 90,6 kN	MyRd = 10,0 kNm
	Vz;Rd = 90,6 kN	MzRd = 10,0 kNm
NEN-EN1993-1-1(6.5): UC = 0,36 < 1		

Kiptoetsing C33-V1 (0.000-2.274)

Equi. profiel: KK90/4		
Maatgevende combinatie: Fu.C.5		Instab. curve Kip:d
Aangrijphoogte van de last: 0,000 m vanaf hart profiel		
Kipsteun bovenflens: N.v.t.		
Kipsteun onderflens: N.v.t.		
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000
		b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 2,274 m	lst = 2,274 m
Lsys = 2,274 m	Lg = 2,274 m	S = 0,055 m	Iwa = 2.9939e-09 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	lkip = 2,274 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Doorbuigingstoetsing Z' C33-V1 (0.000-2.274)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.1)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C33-V1 (0.000-2.274)

Constructietype : Dak	Toets type: Algemeen
w;c = 0,0 mm	Zeegvorm 3-Punt
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	w;2 = 0.0 mm
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.1)	
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C34-V1 (0.000-2.274)

KK90/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 90,0 mm	A = 1,33e-03 m2	Wy;el = 359.8e-07 m3	Wy;pl = 425.8e-07 m3
b = 90,0 mm	Iy = 161.9e-08 m4	Wz;el = 359.8e-07 m3	Wz;pl = 425.8e-07 m3
tf = 4,0 mm	Iz = 161.9e-08 m4	Aw;y;el = 6.67e-04 m2	Aw;y;pl = 6.67e-04 m2
tw = 4,0 mm	Massa/m = 10,5 kg/m	Aw;z;el = 6.67e-04 m2	Aw;z;pl = 6.67e-04 m2
r = 4,0 mm		It = 254.4e-08 m4	Iwa = 299.4e-11 m6

Doorsnedetoetsing C34-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2 op 2,047 m	Profielklasse = 1
N;Ed = -165,4 kN	My;Ed = 0,0 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 313,7 kN	MyRd = 10,0 kNm
	MzRd = 10,0 kNm
NEN-EN1993-1-1(6.9): UC = 0,53 < 1	

Kiptoetsing C34-V1 (0.000-2.274)

Equi. profiel: KK90/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.5	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	Beperk. eind: Gesteund
Tabel gebruikt NB 6.2	q = 0,1kN/m
Bovenflens maatgevend	Xb;lst = 0,000 m
Lsys = 2,274 m	Lg = 2,274 m
C1 = 1,13	C2 = 0,45 (tabel)
Mcr = 0,0 kNm	kred = 1.0
Chi;LT(Fu.C.5) = 1,00	M;Ed = 0,0 kNm
Chi;LT,Z = 1,00	lkip = 2,274 m
	b-eff(Begin) = 0,000
	= 0,0
	Xe;lst = 2,274 m
	S = 0,055 m
	C2(toegepast) = 0,00
	Lam-rel = 0,00
	b-eff(Eind) = 0,000
	lst = 2,274 m
	Iwa = 2.9939e-09 m6
	C = 0,00
	Profielklasse 1
	UC(y) = 0,00
	UC(z) = 0,00

My;begin = 0,0 kNm My;eind = 0,0 kNm
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C34-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2

N;Ed = -165,5 kN	Nb;Rd;y = 228,2 kN	Nb;Rd;z = 228,2 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 2,274 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 2,274 m
Xy = 0,73		Knikcurve: C	
Xz = 0,73		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,73 < 1			

Buiging & Druk C34-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2

N;Ed = -165,5 kN	My;Ed = 0,0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,1 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,291	Kyz = 0,815	Kzy = 0,775	Kzz = 1,359
Ksi;y = 0,73	Ksi;z = 0,73	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,73 < 1			

Doorbuigingstoetsing Z' C34-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm	Toets type: Algemeen
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	Zeegvorm 3-Punt
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)	w;2 = 0,0 mm
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Doorbuigingstoetsing Z" C34-V1 (0.000-2.274)

Constructietype : Dak

w;c = 0,0 mm	Toets type: Algemeen
w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))	Zeegvorm 3-Punt
w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)	w;2 = 0,0 mm
w;tot; = 0,1 mm	
w;max = 0,1 mm	(w;2+w;3) = 0,0 mm
Limiet w;max = L/250 = 9,1 mm	Limiet (w;2+w;3) = L/250 = 9,1 mm
UC(w;max) = 0,0	UC(w;2+w;3) = 0,0
NEN-EN NEN-EN1990/NB A1.4.2: UC = 0,01<1	

Profielgegevens staaf C35-V1 (0.000-7.400)

HE500A	Analyse	Staal S235 fyd(toegepast) = 235 N/mm2
h = 490,0 mm	A = 19,75e-03 m2	Wy;el = 355.0e-05 m3
b = 300,0 mm	Iy = 869.7e-06 m4	Wy;pl = 394.9e-05 m3
tf = 23,0 mm	Iz = 103.7e-06 m4	Wz;el = 691.1e-06 m3
tw = 12,0 mm	Massa/m = 155,1 kg/m	Wz;pl = 105.9e-05 m3
r = 27,0 mm		Aw;y;el = 1.44e-02 m2
		Aw;y;pl = 1.44e-02 m2
		Aw;z;el = 7.47e-03 m2
		Aw;z;pl = 7.47e-03 m2
		It = 309.3e-08 m4
		Iwa = 564.3e-08 m6

Doorsnedetoetsing C35-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.2 op 7,400 m

N;Ed = -150,8 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = 86,6 kN	My;Ed = 719,3 kNm
		Mz;Ed = 0,0 kNm
N;Rd = 4.642,1 kN	Vy;Rd = 1.957,3 kN	MyRd = 928,0 kNm
	Vz;Rd = 1.013,8 kN	MzRd = 248,8 kNm

NEN-EN1993-1-1(6.12): UC = 0,78 < 1

Kiptoetsing C35-V1 (0.000-7.400)

Equi. profiel: HE500A

Maatgevende combinatie: Fu.C.2

Instab. curve Kip:a

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,044

b-eff(Eind) = 0,035

Tabel gebruikt Fig. NB.32

M = 719,3kN/m

MBeta = -3,7

q = 3,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 7,400 m

lst = 7,400 m

Lsys = 7,400 m

Lg = 7,400 m

S = 2,178 m

Iwa = 5.6431e-06 m6

C1 = 1,74

C2 = 0,02 (tabel)

C2(toegepast) = 0,00

C = 7,45

Mcr = 2.346,3 kNm

kred = 1.0

Lam-rel = 0,63

Profielklasse 1

Chi;LT(Fu.C.2) = 0,88

M;Ed = 719,3 kNm

UC(y) = 0,88

Chi;LT,Z = 1,00

Ikip = 7,400 m

UC(z) = 0,00

My;begin = -3,7 kNm

My;eind = 719,3 kNm

NEN-EN1993-1-1(6.54): UC = 0,88 < 1

Stabiliteitstoetsing C35-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.2

N;Ed = -163,1 kN

Nb;Rd;y = 3.544,8 kN

Nb;Rd;z = 2.518,9 kN

Methode Y = Ongeschoord

Ca(y) = 5,000

Cb(y) = 0,250

Lknik Y = 16,823 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 7,400 m

Xy = 0,76

Knikcurve: A

Xz = 0,54

Knikcurve: B

NEN-EN1993-1-1(6.46): UC = 0,06 < 1

Buiging & Druk C35-V1 (0.000-7.400)

Maatgevende combinatie: Fu.C.2

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -163,1 kN

My;Ed = 719,3 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 719,3 kNm

My;Psi = -3,7 kNm

My;s = 378,1 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,62

Cmz = 0,90

CmLT = 0,90

Kyy = 0,639

Kyz = 0,589

Kzy = 0,990

Kzz = 0,982

Ksi;y = 0,76

Ksi;z = 0,54

Ksi;LT = 0,88

NEN-EN1993-1-1(6.61&6.62): UC = 0,94 < 1

Doorbuigingstoetsing X C35-V1 (0.000-7.400)

Constructietype : Kolom

Toets type: Handmatig/h

u;i;3 = 66,3 mm (Ka.C.3)

u;3 = 0,4 mm (Ka.C.1)

Limiet u;i;max = H/100 = 74,0 mm

Limiet u;max = Htot/0 = 0,0 mm

UC(u;i;max) = 0,9

UC(u;max) = 0,0

NEN-EN1993-1-1(6.61&6.62): UC = 0,90 < 1

Profielgegevens staaf C36-V1 (0.000-1.900)

HE500A

Analyse

Staal S235 fyd(toegepast) = 235 N/mm2

h = 490,0 mm

A = 19,75e-03 m2

Wy;el = 355.0e-05 m3

Wy;pl = 394.9e-05 m3

b = 300,0 mm

Iy = 869.7e-06 m4

Wz;el = 691.1e-06 m3

Wz;pl = 105.9e-05 m3

tf = 23,0 mm

Iz = 103.7e-06 m4

Aw;y;el = 1.44e-02 m2

Aw;y;pl = 1.44e-02 m2

tw = 12,0 mm

Massa/m = 155,1 kg/m

Aw;z;el = 7.47e-03 m2

Aw;z;pl = 7.47e-03 m2

r = 27,0 mm

It = 309.3e-08 m4

Iwa = 564.3e-08 m6

Doorsnedetoetsing C36-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.2 op 0,000 m

Profielklasse = 1

N;Ed = -4,1 kN

Vy;Ed = 0,0 kN

My;Ed = 637,4 kNm

Vz;Ed = -333,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 4.642,1 kN

Vy;Rd = 1.957,3 kN

MyRd = 928,0 kNm

Vz;Rd = 1.013,8 kN

MzRd = 248,8 kNm

NEN-EN1993-1-1(6.12): UC = 0,69 < 1

Kiptoetsing C36-V1 (0.000-1.900)

Equi. profiel: HE500A

Maatgevende combinatie: Fu.C.5

Instab. curve Kip:a

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,002

Tabel gebruikt Fig. NB.32

M = 12,9kN/m

MBeta = 0,0

q = 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,900 m

lst = 1,900 m

Lsys = 1,900 m

Lg = 1,900 m

S = 2,178 m

Iwa = 5.6431e-06 m6

C1 = 1,80

C2 = 0,00 (tabel)

C2(toegepast) = 0,00

C = 21,17

Mcr = 25.980,9 kNm

kred = 1.0

Lam-rel = 0,20

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 12,9 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 1,900 m

UC(z) = 0,00

My;begin = 12,9 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B, ivm Lambda;LT <= 0.4

Stabiliteitstoetsing C36-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.2

N;Ed = -4,1 kN

Nb;Rd;y = 4.579,2 kN

Nb;Rd;z = 4.510,6 kN

Methode Y = Ongeschoord

Ca(y) = 0,566

Cb(y) = 5,000

Lknik Y = 5,144 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,900 m

Xy = 0,99

Knikcurve: A

Xz = 0,97

Knikcurve: B

NEN-EN1993-1-1(6.46): UC = 0,00 < 1

Buiging & Druk C36-V1 (0.000-1.900)

Maatgevende combinatie: Fu.C.2

Kipgevoelig Ja

Profielklasse = 1

N;Ed = -4,1 kN

My;Ed = 12,9 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 637,4 kNm

My;Psi = 0,0 kNm

My;s = 319,9 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,60

Cmz = 0,90

CmLT = 0,90

Kyy = 0,602

Kyz = 0,540

Kzy = 0,879

Kzz = 0,900

Ksi;y = 0,99

Ksi;z = 0,97

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,60 < 1

Doorbuigingstoetsing X C36-V1 (0.000-1.900)

Constructietype : Kolom

Toets type: Eén bouwlaag, industrieel gebouw

u;i;3 = 1,5 mm (Ka.C.3)

Limiet u;i;max = H/150 = 12,7 mm

Limiet u;i;max = N/B = 0,0 mm

UC(u;i;max) = 0,1

NEN-EN1990/NB A1.4.2: UC = 0,12 < 1

Profielgegevens staaf C37-V1 (0.000-2.274)

KK90/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 90,0 mm

A = 1,33e-03 m2

Wy;el = 359.8e-07 m3

Wy;pl = 425.8e-07 m3

b = 90,0 mm

Iy = 161.9e-08 m4

Wz;el = 359.8e-07 m3

Wz;pl = 425.8e-07 m3

tf = 4,0 mm

Iz = 161.9e-08 m4

Aw;y;el = 6.67e-04 m2

Aw;y;pl = 6.67e-04 m2

tw = 4,0 mm

Massa/m = 10,5 kg/m

Aw;z;el = 6.67e-04 m2

Aw;z;pl = 6.67e-04 m2

r = 4,0 mm

It = 254.4e-08 m4

Iwa = 299.4e-11 m6

Doorsnedetoetsing C37-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2 op 0,000 m

Profielklasse = 1

N;Ed = -130,4 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = -0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 313,7 kN

Vy;Rd = 90,6 kN

MyRd = 10,0 kNm

Vz;Rd = 90,6 kN

MzRd = 10,0 kNm

NEN-EN1993-1-1(6.9): UC = 0,42 < 1

Kiptoetsing C37-V1 (0.000-2.274)

Equi. profiel: KK90/4

Portaal as A (ontvangst)	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.5

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Instab. curve Kip:d

Tabel gebruikt NB 6.2

q = 0,1kN/m

b-eff(Begin) = 0,000
= 0,0

b-eff(Eind) = 0,000

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,274 m

lst = 2,274 m

Lsys = 2,274 m

Lg = 2,274 m

S = 0,055 m

Iwa = 2.9939e-09 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.5) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,274 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip NVT, i.v.m. geen buiging

Stabiliteitstoetsing C37-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2

N;Ed = -130,4 kN

Nb;Rd;y = 228,2 kN

Nb;Rd;z = 228,2 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,274 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,274 m

Xy = 0,73

Knikcurve: C

Xz = 0,73

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,57 < 1

Buiging & Druk C37-V1 (0.000-2.274)

Maatgevende combinatie: Fu.C.2

N;Ed = -130,4 kN

My;Ed = 0,0 kNm

Profielklasse = 1

Delta;My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = -0,1 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,219

Kyz = 0,770

Kzy = 0,731

Kzz = 1,283

Ksi;y = 0,73

Ksi;z = 0,73

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,58 < 1

Doorbuigingstoetsing Z' C37-V1 (0.000-2.274)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = -0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)

w;tot; = -0,1 mm

(w;2+w;3) = 0,0 mm

w;max = -0,1 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

UC(w;2+w;3) = 0,0

NEN-EN1990/NB A1.4.2: UC = 0,01<1

Doorbuigingstoetsing Z" C37-V1 (0.000-2.274)

Constructietype : Dak

Toets type: Algemeen

w;c = 0,0 mm

Zeegvorm 3-Punt

w;1 = 0,1 mm (x = 1,137 mm; Ka.C.(w1))

w;2 = 0,0 mm

w;3 = 0,0 mm (x = 1,137 mm; Ka.C.3)

w;tot; = 0,1 mm

(w;2+w;3) = 0,0 mm

w;max = 0,1 mm

Limiet (w;2+w;3) = L/250 = 9,1 mm

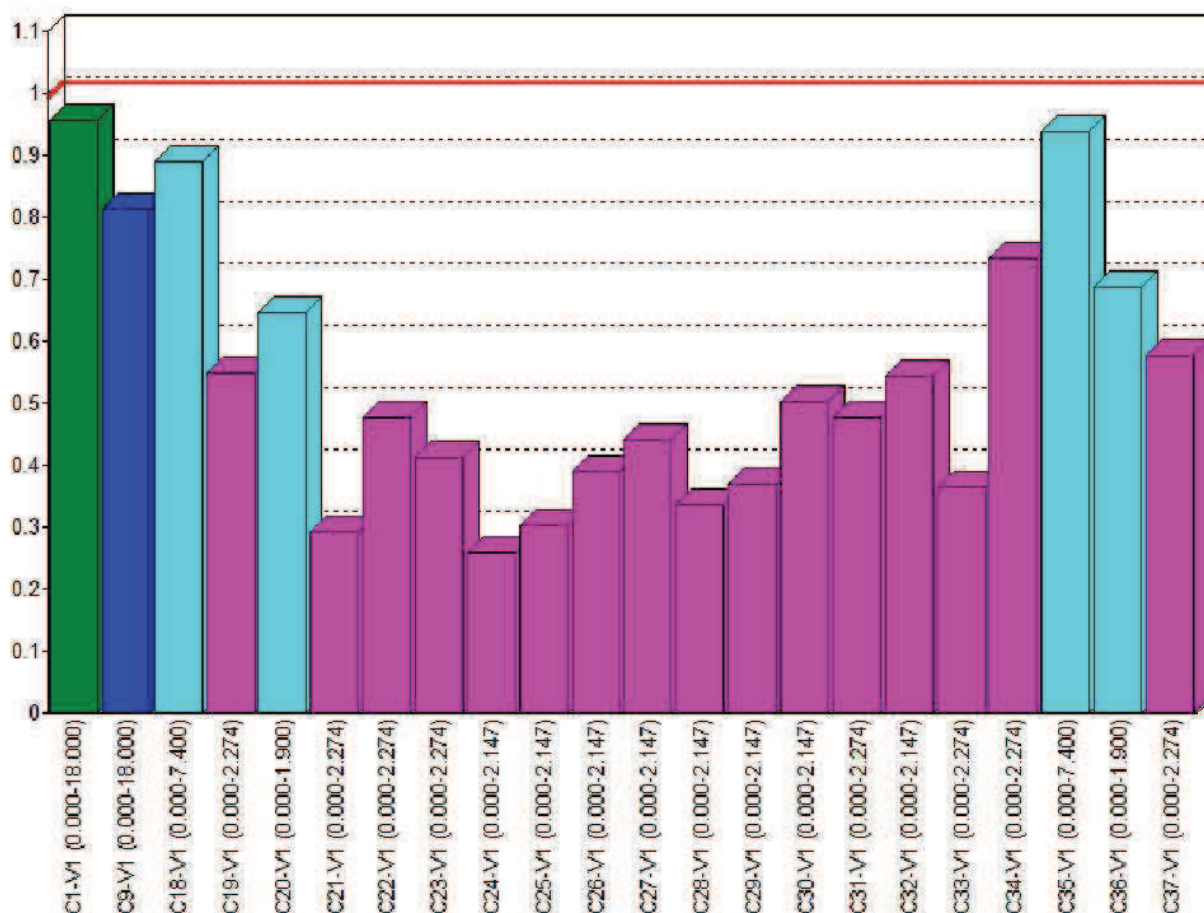
Limiet w;max = L/250 = 9,1 mm

UC(w;max) = 0,0

UC(w;2+w;3) = 0,0

NEN-EN1990/NB A1.4.2: UC = 0,01<1

AFB. STAAL UC DIAGRAM



UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C1-V1 (0.000-18.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0,28
C1-V1 (0.000-18.000)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,78
C1-V1 (0.000-18.000)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,78
C1-V1 (0.000-18.000)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,96
C1-V1 (0.000-18.000)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C1-V1 (0.000-18.000)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,11
C9-V1 (0.000-18.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0,27
C9-V1 (0.000-18.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,33
C9-V1 (0.000-18.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,73
C9-V1 (0.000-18.000)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,81
C9-V1 (0.000-18.000)	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0,11
C9-V1 (0.000-18.000)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,11
C18-V1 (0.000-7.400)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0,71
C18-V1 (0.000-7.400)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,04
C18-V1 (0.000-7.400)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,06
C18-V1 (0.000-7.400)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,13
C18-V1 (0.000-7.400)	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0,81
C18-V1 (0.000-7.400)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,89
C19-V1 (0.000-2.274)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,39
C19-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,54
C19-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,54
C19-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,55
C19-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00

Portaal as A (ontvangst)	Novares Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C19-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C20-V1 (0.000-1.900)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0,65
C20-V1 (0.000-1.900)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,00
C20-V1 (0.000-1.900)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,00
C20-V1 (0.000-1.900)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,57
C20-V1 (0.000-1.900)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C20-V1 (0.000-1.900)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,22
C21-V1 (0.000-2.274)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,29
C21-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,18
C21-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,18
C21-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,18
C21-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C21-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C22-V1 (0.000-2.274)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,34
C22-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,47
C22-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,47
C22-V1 (0.000-2.274)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,48
C22-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C22-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C23-V1 (0.000-2.274)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0,30
C23-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,41
C23-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,41
C23-V1 (0.000-2.274)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,41
C23-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C23-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C24-V1 (0.000-2.147)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.5)	0,26
C24-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,25
C24-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,25
C24-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,26
C24-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C24-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C25-V1 (0.000-2.147)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.5)	0,30
C25-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,13
C25-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,13
C25-V1 (0.000-2.147)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,13
C25-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C25-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.2	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C26-V1 (0.000-2.147)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0,29
C26-V1 (0.000-2.147)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,39
C26-V1 (0.000-2.147)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,39
C26-V1 (0.000-2.147)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,39
C26-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C26-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C27-V1 (0.000-2.147)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0,33
C27-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,44
C27-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,44
C27-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,44
C27-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C27-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C28-V1 (0.000-2.147)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0,34
C28-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C28-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C29-V1 (0.000-2.147)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0,37
C29-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C29-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C30-V1 (0.000-2.147)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.9)	0,37
C30-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,50

Portaal as A (ontvangst)	Novares Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C30-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,50
C30-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,50
C30-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C30-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C31-V1 (0.000-2.274)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0,48
C31-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C31-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C32-V1 (0.000-2.147)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.9)	0,41
C32-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,54
C32-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,54
C32-V1 (0.000-2.147)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,54
C32-V1 (0.000-2.147)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C32-V1 (0.000-2.147)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C33-V1 (0.000-2.274)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.5)	0,36
C33-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C33-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C34-V1 (0.000-2.274)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.9)	0,53
C34-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,73
C34-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,73
C34-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,73
C34-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C34-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01
C35-V1 (0.000-7.400)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0,78
C35-V1 (0.000-7.400)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,05
C35-V1 (0.000-7.400)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,06
C35-V1 (0.000-7.400)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,94
C35-V1 (0.000-7.400)	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0,88
C35-V1 (0.000-7.400)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,90
C36-V1 (0.000-1.900)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0,69
C36-V1 (0.000-1.900)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,00
C36-V1 (0.000-1.900)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,00
C36-V1 (0.000-1.900)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,60
C36-V1 (0.000-1.900)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C36-V1 (0.000-1.900)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,12
C37-V1 (0.000-2.274)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.9)	0,42
C37-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,57
C37-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,57
C37-V1 (0.000-2.274)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,58
C37-V1 (0.000-2.274)	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0,00
C37-V1 (0.000-2.274)	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0,01

GEWICHT STAALCONSTRUCTIE

Staaft	Profiel	Lsys	Massa
C9-V1 (0.000-18.000)	HE180B	18,000	922,003
Subtotaal:	HE180B	18,000	922,003
C18-V1 (0.000-7.400)	HE500A	7,400	1.147,497
C20-V1 (0.000-1.900)	HE500A	1,900	294,628
C35-V1 (0.000-7.400)	HE500A	7,400	1.147,497
C36-V1 (0.000-1.900)	HE500A	1,900	294,628
Subtotaal:	HE500A	18,600	2.884,249
C1-V1 (0.000-18.000)	KK250/10	18,000	1.295,833
Subtotaal:	KK250/10	18,000	1.295,833
C19-V1 (0.000-2.274)	KK90/4	2,274	23,831
C21-V1 (0.000-2.274)	KK90/4	2,274	23,831
C22-V1 (0.000-2.274)	KK90/4	2,274	23,831
C23-V1 (0.000-2.274)	KK90/4	2,274	23,831
C24-V1 (0.000-2.147)	KK90/4	2,147	22,498
C25-V1 (0.000-2.147)	KK90/4	2,147	22,498

Portaal as A (ontvangst)		Novares Constructeurs	
C26-V1 (0.000-2.147)	KK90/4	2,147	22,498
C27-V1 (0.000-2.147)	KK90/4	2,147	22,498
C28-V1 (0.000-2.147)	KK90/4	2,147	22,498
C29-V1 (0.000-2.147)	KK90/4	2,147	22,498
C30-V1 (0.000-2.147)	KK90/4	2,147	22,498
C31-V1 (0.000-2.274)	KK90/4	2,274	23,831
C32-V1 (0.000-2.147)	KK90/4	2,147	22,498
C33-V1 (0.000-2.274)	KK90/4	2,274	23,831
C34-V1 (0.000-2.274)	KK90/4	2,274	23,831
C37-V1 (0.000-2.274)	KK90/4	2,274	23,831
Subtotaal:	KK90/4	35,371	370,625
Totaal:		89,971 m	5.472,711 kg

SV1 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding		
Kolom	HE500A	(b = 300, h = 490, Ft = 23.0, Wt = 12.0)	
Materiaal	S235		
Raamwerk	Statisch bepaald		
Horizontale stijfheid	Geschoord raamwerk		
Milieu	Niet corrosief		
Laskwaliteit	S235		

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	324	536	20.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	170 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand	Afstand	Totale afstand
Randafstand boutrij 1	76	76	Steek boutrijen 1 - 2	192
Steek boutrijen 2 - 3	192	460		268
	mm	mm	mm	mm

FUNDERING

Hoogte	400.00 mm	voegdikte	30.00 mm
d1	384.00 mm	b1	596.00 mm
d2	784.00 mm	b2	784.00 mm
d	2000.00 mm	b	2000.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K1	N;3;Ed	139.85 kN	M;3;Ed	0.11 kNm	V;3;Ed	8.70 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		138.90 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K1	N;3;Ed	-20.10 kN	M;3;Ed	-3.63 kNm	V;3;Ed	105.09 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		111.96 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

Portaal as A (ontvangst)	Novares Constructeurs	
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BELASTINGEN

Fu.C.3; Knoop K1	N;3;Ed	-38.08 kN	M;3;Ed	-3.63 kNm	V;3;Ed	106.07 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		110.93 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K1	N;3;Ed	81.29 kN	M;3;Ed	0.05 kNm	V;3;Ed	4.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		127.19 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.5; Knoop K1	N;3;Ed	54.19 kN	M;3;Ed	0.04 kNm	V;3;Ed	2.94 kN
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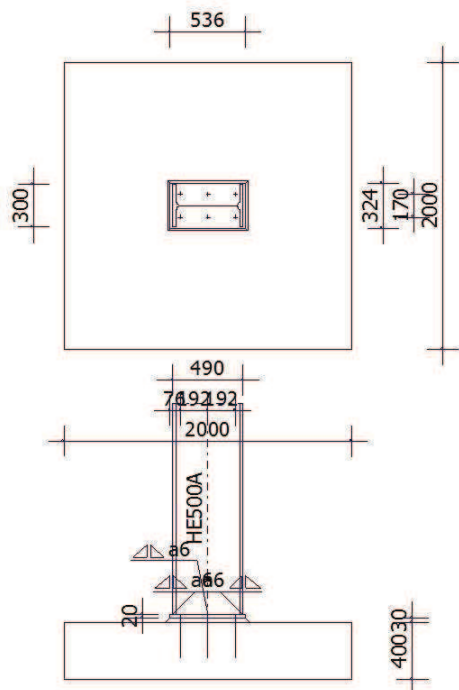
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		121.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K1	Ok
Fu.C.2; Knoop K1	Ok
Fu.C.3; Knoop K1	Ok
Fu.C.4; Knoop K1	Ok
Fu.C.5; Knoop K1	Ok

SV1 TEKENING



Verbindingsgegevens

Kolom: HE500A

Kopplaat: 536x324x20 mm

Bouten: M16, Kwaliteit 4.6, Afstand 170

Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 76

Steek: 192, 192

SV2 (NEN-EN 1993-1-8:2009/NB:2011)

ALGEMEEN

Verbindings type	Voetplaatverbinding
Kolom	HE500A (b = 300, h = 490, Ft = 23.0, Wt = 12.0)
Materiaal	S235
Raamwerk	Statisch bepaald
Horizontale stijfheid	Geschoord raamwerk
Milieu	Niet corrosief
Laskwaliteit	S235

VERBINDINGSONDERDELEN

	Breedte	Hoogte	Dikte	Las (h)
Plaat	324	536	20.0	6
	mm	mm	mm	mm

ANKERS: M16

Sterkte	4.6 (Gerold)			
Afstand	170 mm			
d;g;nom	18 mm			
	Afstand	Totale afstand	Afstand	Totale afstand
Randafstand boutrij 1	76	76	192	268
Steek boutrijen 2 - 3	192	460		
	mm	mm	mm	mm

FUNDING

Hoogte	400.00 mm	voegdikte	30.00 mm
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Portaal as A (ontvangst)	Novares Constructeurs	
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d1	384.00 mm	b1	596.00 mm
d2	784.00 mm	b2	784.00 mm
d	2000.00 mm	b	2000.00 mm
Materiaal	C20/25		

BELASTINGEN

Fu.C.1; Knoop K2	N;3;Ed	139.85 kN	M;3;Ed	-0.11 kNm	V;3;Ed	8.70 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		138.90 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.2; Knoop K2	N;3;Ed	165.12 kN	M;3;Ed	-3.71 kNm	V;3;Ed	105.38 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		143.95 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.3; Knoop K2	N;3;Ed	146.79 kN	M;3;Ed	-3.69 kNm	V;3;Ed	104.40 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		140.29 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.4; Knoop K2	N;3;Ed	81.29 kN	M;3;Ed	-0.05 kNm	V;3;Ed	4.41 kN
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BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		127.19 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

BELASTINGEN

Fu.C.5; Knoop K2	N;3;Ed	54.19 kN	M;3;Ed	-0.04 kNm	V;3;Ed	2.94 kN
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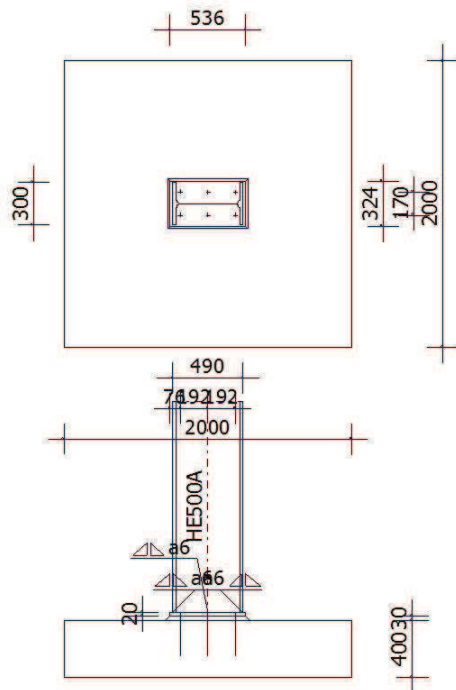
BOUTGRENSWEERSTAND NEN-EN1993-1-8 TABEL 3.4

Stuikweerstand	F;b;Rd	Kopplaat; t = 20 mm	230.40 kN
Dwarskrachtcapaciteit (voor alle bouten)	F;v;Rd		121.77 kN
Trekcapaciteit	min(F;t;Rd, B;p;Rd)		45.22 kN

OVERZICHT CONTROLES PER BELASTINGSGEVAL

Fu.C.1; Knoop K2	Ok
Fu.C.2; Knoop K2	Ok
Fu.C.3; Knoop K2	Ok
Fu.C.4; Knoop K2	Ok
Fu.C.5; Knoop K2	Ok

SV2 TEKENING



Verbindingsgegevens

Kolom: HE500A

Kopplaat: 536x324x20 mm

Bouten: M16, Kwaliteit 4.6, Afstand 170

Maatvoering bout 1 t.o.v bovenzijde kopplaat

Randafstand: 76

Steek: 192, 192

Bijlage J		Novares Constructeurs	
Poeren			
Projectnaam		Projectnummer	16-447
Omschrijving		Constructeur	
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\fundering.mxf		

Poer I'

poer I' (NEN-EN1992-1-1+C2:2010/NB:2011)

POERFUNDERING

ALGEMEEN

Breedte	b	2400 mm	Lengte	l	2400 mm
Dikte	h	500 mm			
Kolombreedte	kx	300 mm	Kolomhoogte	ky	300 mm
Gamma;f,g;gunstig	-	0.90 -	Betrouwbaarheidsklasse	-	RC2 -
Psi	-	1.00 -			

Belastingscategorie: Handmatige invoer(vloer)

BELASTINGEN

VERTICAAL

Combinatie factoren				
-	Fu.C.1	Fu.C.2	Ka.C.1	
Eigen gewicht	1.20	1.35	1.00	
Permanente belasting	1.20	1.35	1.00	
Nuttige belasting	1.50	1.50	1.00	
-	Fu.C.1	Fu.C.2	Ka.C.1	
Eigen gewicht	86.51	97.20	72.00	
Permanente belasting	666.23	748.58	554.50	
Nuttige belasting	514.27	514.27	342.85	
Reken belasting	1267.01	1360.05	969.35	
-	kN	kN	kN	

HORIZONTAAL

Combinatie factoren				
-	Fu.C.1	Fu.C.2	Ka.C.1	
Permanente belasting	1.20	1.35	1.00	
Nuttige belasting	1.50	1.50	1.00	
-	Fu.C.1	Fu.C.2	Ka.C.1	
Permanente belasting	-	-	-	
Nuttige belasting	-	-	-	
Reken belasting	-	-	-	
-	kN	kN	kN	

GRONDSPANNINGEN UITERSTE GRENSTOESTAND

Max. vert. belasting	F;z;Ed;max	1360.05 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Arm	a;vert	0.00 mm	Max. moment	MEd;max	0.00 kNm
Weerstandsmoment	W	2.30400 m³	Oppervlak	A	5.7600 m²
Max. gronddruk	Sigma;max	236.12 kN/m²			

KANTELEN UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	563.85 kN	Arm	a;hor	1200.00 mm
Max. hor. belasting	F;x;Ed;max	0.00 kN	Arm	a;vert	0.00 mm
Max. kantelmoment	MEd;max	0.00 kNm	Stabiliteitsmoment	MEd;min	0.00 kNm
Veiligheidscoefficient	-	0.00 -			

MEd;min: 0.00 > 0.00 kNm Ok

AFSCHUIVING UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	563.85 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
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Bijlage J			Novares Constructeurs		
Wrijvingscoefficient	f;s	0.60 -	Max. wrijv. kracht	F;Ed;f,max	0.00 kN
Veiligheidscoefficient	-	0.00 -			
F;Ed;f,max:	0.00	>	0.00 kN		Ok

WAPENINGSDETAILS

PROFIELGEGEVENS: R1500X500

Breedte	s;y	1500 mm	Hoogte	h	500 mm
Betonkwaliteit		C20/25 -		f;cd	13.3 N/mm²
				f;ctm	2.21 N/mm²
Staalkwaliteit		B500A -		f;yd	435 N/mm²
Wap. diameter	-	8 mm	Beugels	-	R8-300 -

DEKKING

		Boven	Onder
-			
Constructieklasse		S4	S4 -
Milieuklasse		XC2	XC2 -
Nabewerkt		Nee	Nee -
Meetnauwkeurigheid		Normaal	Normaal -
Minimale dekking	Cmin	30	30 mm
Dekkingsafwijking	Delta Cafw	5	5 mm
Nominale dekking	Cnom	35	35 mm
Toegepaste dekking	Ctoe	35	35 mm

KRACHTEN

Buigend moment	M'Ed	316.21 kNm	Moment (BGT)	MRep	225.37 kNm
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LANGSWAPENING (LIGGER)

Benodigde wap.	As,ben	1680 mm²	Verhouding wap.	w0	0.25 %
Hoogte drukzone	Xu	48.71 mm	Nuttige hoogte	d	451.73 mm
Xu/d	kx	0.108 -	Kx,max	Kx,max	0.535 -

WAPENINGSVOORSTELLEN

Omschrijving	As,toe	As,ben	Mu	W;k	W,max	Sigma;s	As,min	D,max	S,max	Dekki
R11-150+R10-150	1736	1680	326.14	0.34	0.30	300.5	561	8.7	124.4	
R12-150+R10-150	1916	1682	358.12	0.30	0.30	273.6	561	9.9	158.0	
R12-150+R11-150	2081	1683	387.09	0.27	0.30	253.1	559	11.5	183.6	
-	mm²	mm²	kNm	mm	mm	N/mm²	mm²	mm	mm	

In bovenstaande tabel zijn staaf-/netcombinaties weergegeven die voldoen aan:

-de sterkte-eis $Mu \geq M'Ed$

-eisen met betrekking tot onderlinge staafafstanden

-de toetsing scheurvorming

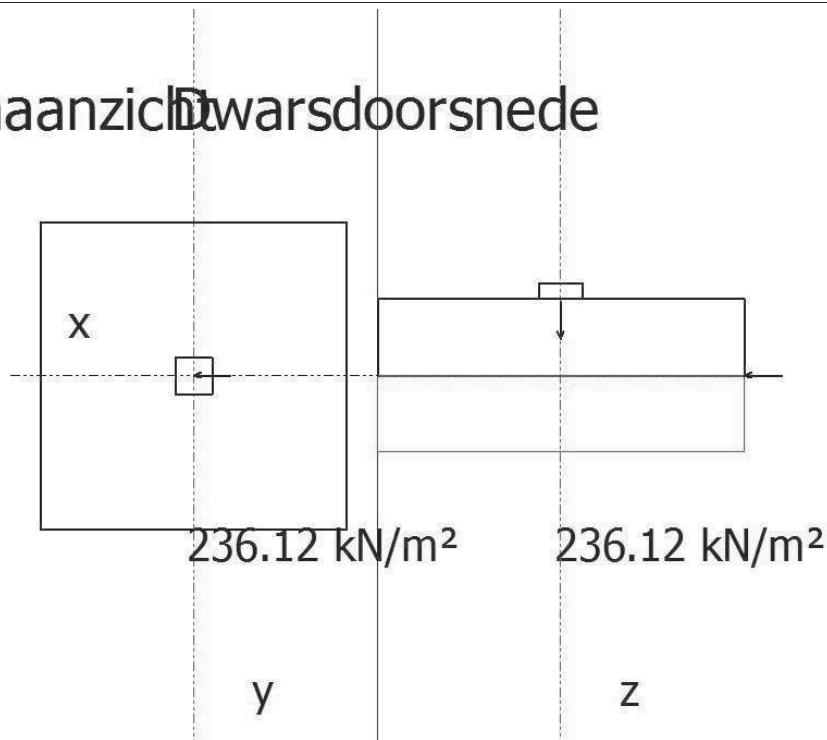
PONSDWARSWAPENING

Effectieve plaatdikte	d	457.0 mm			
Verhouding wapening	w0z	0.28 %	Verhouding wapening	w0y	0.28 %
Breedte lastgebied	C1	300 mm	Diepte lastgebied	C2	300 mm

Perimeter	rContY	rContZ	VEd	ui	Beta	vEd	vRd;c	vRd;max	vRd;s	Asw / sr
u0	150	150	1262.85	1200	1.15	2.65	-	2.94	-	-
u1	1064	1064	446.98	6943	1.15	0.16	0.34	2.94	0.00	0.0
-	mm	mm	kN	mm	-	N/mm²	N/mm²	N/mm²	N/mm²	mm²/mm
vEd:	0.16	<	2.94 N/mm²	NEN-EN1992-1-1#6.4.3(2)(a)					Ok	
vEd:	0.16	<	0.34 N/mm²	NEN-EN1992-1-1#6.4.3(2)(b)					Ok	

POER I' DWARSDOORSNEDE TEKENING

Bovenaanzicht Dwarsdoorsnede



Poer C

poer C (NEN-EN1992-1-1+C2:2010/NB:2011)

POERFUNDERING

ALGEMEEN

Breedte	b	1800 mm	Lengte	l	1800 mm
Dikte	h	400 mm			
Kolombreedte	kx	200 mm	Kolomhoogte	ky	200 mm
Gamma;f,g;gunstig	-	0.90 -	Betrouwbaarheidsklasse	-	RC2 -
Psi	-	1.00 -			

Belastingcategorie: Handmatige invoer(vloer)

BELASTINGEN

VERTICAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	1.20	1.35	1.00
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	38.93	43.74	32.40
Permanente belasting	256.70	288.43	213.65
Nuttige belasting	153.15	153.15	102.10
Reken belasting	448.78	485.32	348.15
-	kN	kN	kN

HORIZONTAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00

Bijlage J	Novares Constructeurs	
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-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	-	-	-
Nuttige belasting	-	-	-
Reken belasting	-	-	-
-	kN	kN	kN

GRONDSPANNINGEN UITERSTE GRENSTOESTAND

Max. vert. belasting	F;z;Ed;max	485.32 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Arm	a;vert	0.00 mm	Max. moment	MEd;max	0.00 kNm
Weerstandsmoment	W	0.97200 m³	Oppervlak	A	3.2400 m²
Max. gronddruk	Sigma;max	149.79 kN/m²			

KANTELEN UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	221.44 kN	Arm	a;hor	900.00 mm
Max. hor. belasting	F;x;Ed;max	0.00 kN	Arm	a;vert	0.00 mm
Max. kantelmoment	MEd;max	0.00 kNm	Stabiliteitsmoment	MEd;min	0.00 kNm
Veiligheidscoefficient	-	0.00 -			

MEd;min: 0.00 > 0.00 kNm Ok

AFSCHUIVING UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	221.44 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Wrijvingscoefficient	f;s	0.60 -	Max. wrijv. kracht	F;Ed;f;max	0.00 kN
Veiligheidscoefficient	-	0.00 -			

F;Ed;f;max: 0.00 > 0.00 kN Ok

WAPENINGSDETAILS

PROFIELGEGEVENS: R1100X400

Breedte	s;y	1100 mm	Hoogte	h	400 mm
Betonkwaliteit		C20/25 -		f;cd	13.3 N/mm²
				f;ctm	2.21 N/mm²
Staalkwaliteit		B500A -		f;yd	435 N/mm²
Wap. diameter	-	8 mm	Beugels	-	R8-300 -

DEKKING

-		Boven	Onder
Constructieklasse		S4	S4 -
Milieuklasse		XC2	XC2 -
Nabewerkt		Nee	Nee -
Meetnauwkeurigheid		Normaal	Normaal -
Minimale dekking	Cmin	30	30 mm
Dekkingsafwijking	Delta Cafw	5	5 mm
Nominale dekking	Cnom	35	35 mm
Toegepaste dekking	Ctoe	35	35 mm

KRACHTEN

Buigend moment	M'Ed	83.72 kNm	Moment (BGT)	MRep	60.06 kNm
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LANGSWAPENING (LIGGER)

Benodigde wap.	As,ben	559 mm²	Verhouding wap.	w0	0.14 %
Hoogte drukzone	Xu	22.11 mm	Nuttige hoogte	d	352.81 mm
Xu/d	kx	0.063 -	Kx;max	Kx;max	0.535 -

WAPENINGSVOORSTELLEN

Omschrijving	As,toe	As,ben	Mu	W;k	W;max	Sigma;s	As;min	D;max	S;max	Dekki
R9-200+R7.5-200	593	559	88.60	0.40	0.30	294.7	356	7.3	131.6	
R7.5-150+R7-150	606	558	90.68	0.35	0.30	288.0	356	7.6	140.1	
R10-250+R9-250	625	560	93.17	0.41	0.30	280.2	356	7.7	149.7	
R9-200+R8-200	626	560	93.43	0.37	0.30	279.5	356	7.8	150.7	

Bijlage J	Novares Constructeurs								
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R8-150+R7-150	651	559	97.12	0.32	0.30	268.9	356	8.5	163.9
R8-150+R7.5-150	693	559	103.13	0.30	0.30	253.2	356	9.5	183.5
R11-150	697	562	103.26	0.38	0.30	252.9	356	9.2	183.9
R11-250+R9-250	698	561	103.55	0.35	0.30	252.2	356	9.4	184.8
R10-200+R8-200	708	560	105.19	0.32	0.30	248.2	356	9.7	189.7
R11-250+R10-250	764	561	112.89	0.31	0.30	231.3	356	11.3	210.9
-	mm ²	mm ²	kNm	mm	mm	N/mm ²	mm ²	mm	mm

In bovenstaande tabel zijn staaf-/netcombinaties weergegeven die voldoen aan:

-de sterkte-eis $M_u \geq M'_{Ed}$

-eisen met betrekking tot onderlinge staafafstanden

-de toetsing scheurvorming

PONSDWARSWAPENING

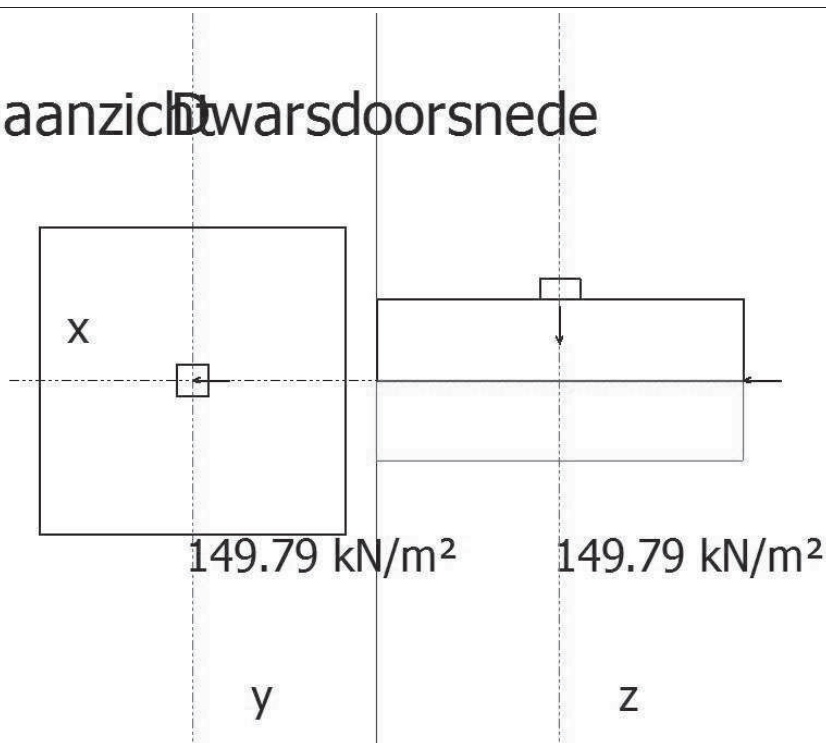
Effectieve plaatdikte	d	357.0	mm						
Verhouding wapening	w0z	0.16	%	Verhouding wapening	w0y	0.16	%		
Breedte lastgebied	C1	200	mm	Diepte lastgebied	C2	200	mm		

Perimeter	rContY	rContZ	VEd	ui	Beta	vEd	vRd;c	vRd;max	vRd;s	Asw / sr
u0	100	100	441.58	800	1.15	1.78	-	2.94	-	-
u1	814	814	145.45	5286	1.15	0.09	0.36	2.94	0.00	0.0
-	mm	mm	kN	mm	-	N/mm ²	N/mm ²	N/mm ²	N/mm ²	mm ² /mm

vEd:	0.09	<	2.94 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(a)	Ok
vEd:	0.09	<	0.36 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(b)	Ok

POER C DWARSDOORSNEDE TEKENING

Bovenaanzicht Dwarsdoorsnede



Poer I

Poer I (NEN-EN1992-1-1+C2:2010/NB:2011)

POERFUNDERING

ALGEMEEN

Bijlage J	Novares Constructeurs	
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Breedte	b	2400 mm	Lengte	l	2400 mm
Dikte	h	400 mm			
Kolombreedte	kx	400 mm	Kolomhoogte	ky	200 mm
Gamma;f,g;gunstig	-	0.90 -	Betrouwbaarheidsklasse	-	RC2 -
Psi	-	1.00 -			
Belastingscategorie: Handmatige invoer(vloer)					

BELASTINGEN

VERTICAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	1.20	1.35	1.00
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	69.21	77.76	57.60
Permanente belasting	414.88	466.16	345.30
Nuttige belasting	306.30	306.30	204.20
Reken belasting	790.38	850.22	607.10
-	kN	kN	kN

HORIZONTAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00
-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	-	-	-
Nuttige belasting	-	-	-
Reken belasting	-	-	-
-	kN	kN	kN

GRONDSPANNINGEN UITERSTE GRENSTOESTAND

Max. vert. belasting	F;z;Ed;max	850.22 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Arm	a;vert	0.00 mm	Max. moment	MEd;max	0.00 kNm
Weerstandsmoment	W	2.30400 m³	Oppervlak	A	5.7600 m²
Max. gronddruk	Sigma;max	147.61 kN/m²			

KANTELEN UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	362.61 kN	Arm	a;hor	1200.00 mm
Max. hor. belasting	F;x;Ed;max	0.00 kN	Arm	a;vert	0.00 mm
Max. kantelmoment	MEd;max	0.00 kNm	Stabiliteitsmoment	MEd;min	0.00 kNm
Veiligheidscoefficient	-	0.00 -			

MEd;min: 0.00 > 0.00 kNm Ok

AFSCHUIVING UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	362.61 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Wrijvingscoefficient	f;s	0.60 -	Max. wrijv. kracht	F;Ed;f;max	0.00 kN
Veiligheidscoefficient	-	0.00 -			

F;Ed;f;max: 0.00 > 0.00 kN Ok

WAPENINGSDETAILS

PROFIELGEGEVENS: R1400X400

Breedte	s;y	1400 mm	Hoogte	h	400 mm
Betonkwaliteit		C20/25 -		f;cd	13.3 N/mm²
				f;ctm	2.21 N/mm²
Staalkwaliteit		B500A -		f;yd	435 N/mm²
Wap. diameter	-	8 mm	Beugels	-	R8-300 -

DEKKING

		Boven	Onder
Constructieklasse		S4	S4 -
Milieuklasse		XC2	XC2 -
Nabewerkt		Nee	Nee -
Meetnauwkeurigheid		Normaal	Normaal -
Minimale dekking	Cmin	30	30 mm
Dekkingsafwijking	Delta Cafw	5	5 mm
Nominale dekking	Cnom	35	35 mm
Toegepaste dekking	Ctoe	35	35 mm

KRACHTEN

Buigend moment	M'Ed	191.30 kNm	Moment (BGT)	MRep	136.60 kNm
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LANGSWAPENING (LIGGER)

Benodigde wap.	As,ben	1308 mm ²	Verhouding wap.	w0	0.27 %
Hoogte drukzone	Xu	40.62 mm	Nuttige hoogte	d	352.22 mm
Xu/d	kx	0.115 -	Kx;max	Kx;max	0.535 -

WAPENINGSVOORSTELLEN

Omschrijving	As,toe	As,ben	Mu	W;k	W;max	Sigma;s	As;min	D;max	S;max	Dekki
R10-150+R9-150	1327	1308	193.94	0.33	0.30	306.2	451	6.8	117.2	
R12-200+R10-200	1341	1311	195.51	0.36	0.30	303.8	451	6.8	120.3	
R12-200+R11-200	1457	1312	211.34	0.32	0.30	281.0	451	7.5	148.7	
R11-150+R9-150	1481	1309	215.04	0.29	0.30	276.2	451	7.8	154.8	
R11-150+R10-150	1620	1310	233.96	0.26	0.30	253.8	451	9.2	182.7	
R12-150+R10-150	1789	1311	256.48	0.23	0.30	231.6	451	11.2	210.5	
R12-150+R11-150	1943	1312	276.83	0.21	0.30	214.5	451	13.6	231.8	
-	mm ²	mm ²	kNm	mm	mm	N/mm ²	mm ²	mm	mm	

In bovenstaande tabel zijn staaf-/netcombinaties weergegeven die voldoen aan:

-de sterkte-eis $Mu \geq M'Ed$

-eisen met betrekking tot onderlinge staafafstanden

-de toetsing scheurvorming

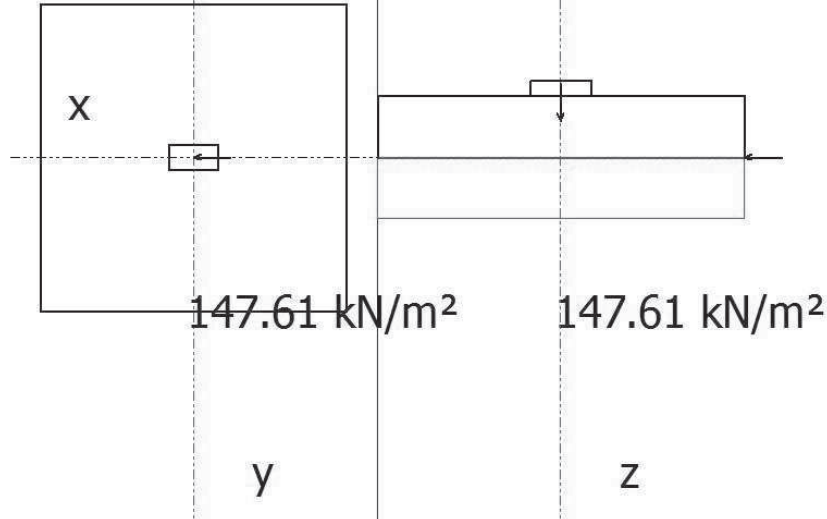
PONSDWARSWAPENING

Effectieve plaatdikte	d	357.0 mm								
Verhouding wapening	w0z	0.31 %		Verhouding wapening	w0y			0.31 %		
Breedte lastgebied	C1	400 mm		Diepte lastgebied	C2			200 mm		

Perimeter	rContY	rContZ	VEd	ui	Beta	vEd	vRd;c	vRd;max	vRd;s	Asw / sr
u0	200	100	772.46	1200	1.15	2.07	-	2.94	-	-
u1	914	814	442.77	5686	1.15	0.25	0.36	2.94	0.00	0.0
-	mm	mm	kN	mm	-	N/mm ²	N/mm ²	N/mm ²	N/mm ²	mm ² /mm
vEd:	0.25	<	2.94 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(a)					Ok	
vEd:	0.25	<	0.36 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(b)					Ok	

POER I DWARSDOORSNEDE TEKENING

Bovenaanzicht Dwarsdoorsnede



Poer A

poer A (NEN-EN1992-1-1+C2:2010/NB:2011)

POERFUNDERING

ALGEMEEN

Breedte	b	1400 mm	Lengte	l	1400 mm
Dikte	h	400 mm			
Kolombreedte	kx	400 mm	Kolomhoogte	ky	200 mm
Gamma;f,g;gunstig	-	0.90 -	Betrouwbaarheidsklasse	-	RC2 -
Psi	-	1.00 -			

Belastingscategorie: Handmatige invoer(vloer)

BELASTINGEN

VERTICAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	1.20	1.35	1.00
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00
-	Fu.C.1	Fu.C.2	Ka.C.1
Eigen gewicht	23.55	26.46	19.60
Permanente belasting	64.58	72.56	53.75
Nuttige belasting	53.40	53.40	35.60
Reken belasting	141.53	152.42	108.95
-	kN	kN	kN

HORIZONTAAL

Combinatie factoren			
-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	1.20	1.35	1.00
Nuttige belasting	1.50	1.50	1.00

Bijlage J	Novares Constructeurs	
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-	Fu.C.1	Fu.C.2	Ka.C.1
Permanente belasting	-	-	-
Nuttige belasting	-	-	-
Reken belasting	-	-	-
-	kN	kN	kN

GRONDSPANNINGEN UITERSTE GRENSTOESTAND

Max. vert. belasting	F;z;Ed;max	152.42 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Arm	a;vert	0.00 mm	Max. moment	MEd;max	0.00 kNm
Weerstandsmoment	W	0.45733 m³	Oppervlak	A	1.9600 m²
Max. gronddruk	Sigma;max	77.77 kN/m²			

KANTELEN UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	66.02 kN	Arm	a;hor	700.00 mm
Max. hor. belasting	F;x;Ed;max	0.00 kN	Arm	a;vert	0.00 mm
Max. kantelmoment	MEd;max	0.00 kNm	Stabiliteitsmoment	MEd;min	0.00 kNm
Veiligheidscoefficient	-	0.00 -			

MEd;min: 0.00 > 0.00 kNm Ok

AFSCHUIVING UITERSTE GRENSTOESTAND

Min. vert. belasting	F;z;Ed;min	66.02 kN	Max. hor. belasting	F;x;Ed;max	0.00 kN
Wrijvingscoefficient	f;s	0.60 -	Max. wrijv. kracht	F;Ed;f;max	0.00 kN
Veiligheidscoefficient	-	0.00 -			

F;Ed;f;max: 0.00 > 0.00 kN Ok

WAPENINGSDETAILS

PROFIELGEGEVENS: R1400X400

Breedte	b	1400 mm	Hoogte	h	400 mm
Betonkwaliteit		C20/25 -		f;cd	13.3 N/mm²
				f;ctm	2.21 N/mm²
Staalkwaliteit		B500A -		f;yd	435 N/mm²
Wap. diameter	-	8 mm	Beugels	-	R8-300 -

DEKKING

-		Boven	Onder
Constructieklasse		S4	S4 -
Milieuklasse		XC2	XC2 -
Nabewerkt		Nee	Nee -
Meetnauwkeurigheid		Normaal	Normaal -
Minimale dekking	Cmin	30	30 mm
Dekkingsafwijking	Delta Cafw	5	5 mm
Nominale dekking	Cnom	35	35 mm
Toegepaste dekking	Ctoe	35	35 mm

KRACHTEN

Buigend moment	M'Ed	26.67 kNm	Moment (BGT)	MRep	19.07 kNm
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LANGSWAPENING (GEDRONGEN LIGGER)

Benodigde wap.	As,ben	205 mm²	Afstand nulpunten	l;ov	700.00 mm
l;ov / h	-	1.75 -	Hoogte drukzone	Xu	6.35 mm
Inw. hefboomsarm	z	300.00 mm	Maximale hefboomsarm	z;max	320.00 mm

WAPENINGSVOORSTELLEN

Omschrijving	As,toe	As,ben	Mu	W;k	W;max	Sigma;s	As;min	D;max	S;max	Dekki
R7-200	269	205	35.14	0.61	0.30	235.9	456	11.1	205.1	
R8-250	281	205	36.72	0.63	0.30	225.8	456	12.5	217.8	
R7.5-200	309	205	40.34	0.50	0.30	205.5	456	15.5	243.1	
R8-200	352	205	45.89	0.42	0.30	180.6	456	18.4	274.2	

Bijlage J			Novares Constructeurs						
R9-250	356	205	46.47	0.45	0.30	178.4	456	18.5	277.0
R7-150	359	205	46.85	0.36	0.30	176.9	456	19.0	278.8
R7.5-150	412	205	53.78	0.30	0.30	154.1	456	20.9	300.0
R10-250	440	205	57.37	0.34	0.30	144.5	456	20.3	300.0
R9-200	445	205	58.09	0.30	0.30	142.7	456	20.5	300.0
R7.5-250+R7-250	463	205	60.38	0.24	0.30	137.3	456	20.9	300.0
-	mm ²	mm ²	kNm	mm	mm	N/mm ²	mm ²	mm	mm

In bovenstaande tabel zijn staaf-/netcombinaties weergegeven die voldoen aan:

-de sterkte-eis $M_u \geq M'_{Ed}$

-eisen met betrekking tot onderlinge staafafstanden

-de toetsing scheurvorming

PONSDWARSWAPENING

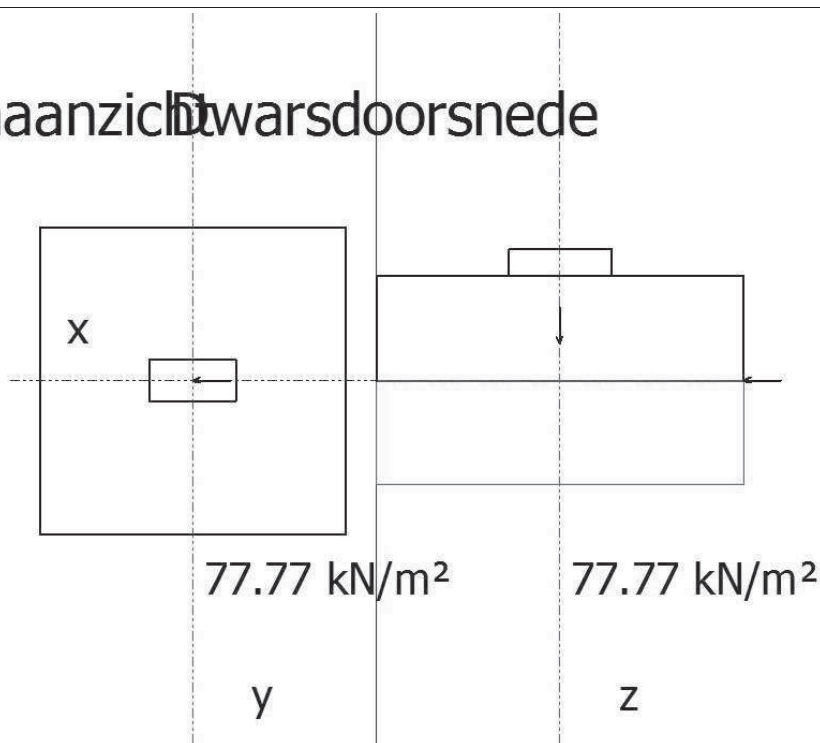
Effectieve plaatdikte	d	357.0	mm						
Verhouding wapening	w0z	0.07	%	Verhouding wapening	w0y	0.07	%		
Breedte lastgebied	C1	400	mm	Diepte lastgebied	C2	200	mm		

Perimeter	rContY	rContZ	VEd	ui	Beta	vEd	vRd;c	vRd;max	vRd;s	Asw / sr
u0	200	100	125.96	1200	1.15	0.34	-	2.94	-	-
u1	914	814	-32.03	5686	1.15	-0.02	0.36	2.94	0.00	0.0
-	mm	mm	kN	mm	-	N/mm ²	N/mm ²	N/mm ²	N/mm ²	mm ² /mm

vEd:	-0.02	<	2.94 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(a)		Ok
vEd:	-0.02	<	0.36 N/mm ²	NEN-EN1992-1-1#6.4.3(2)(b)		Ok

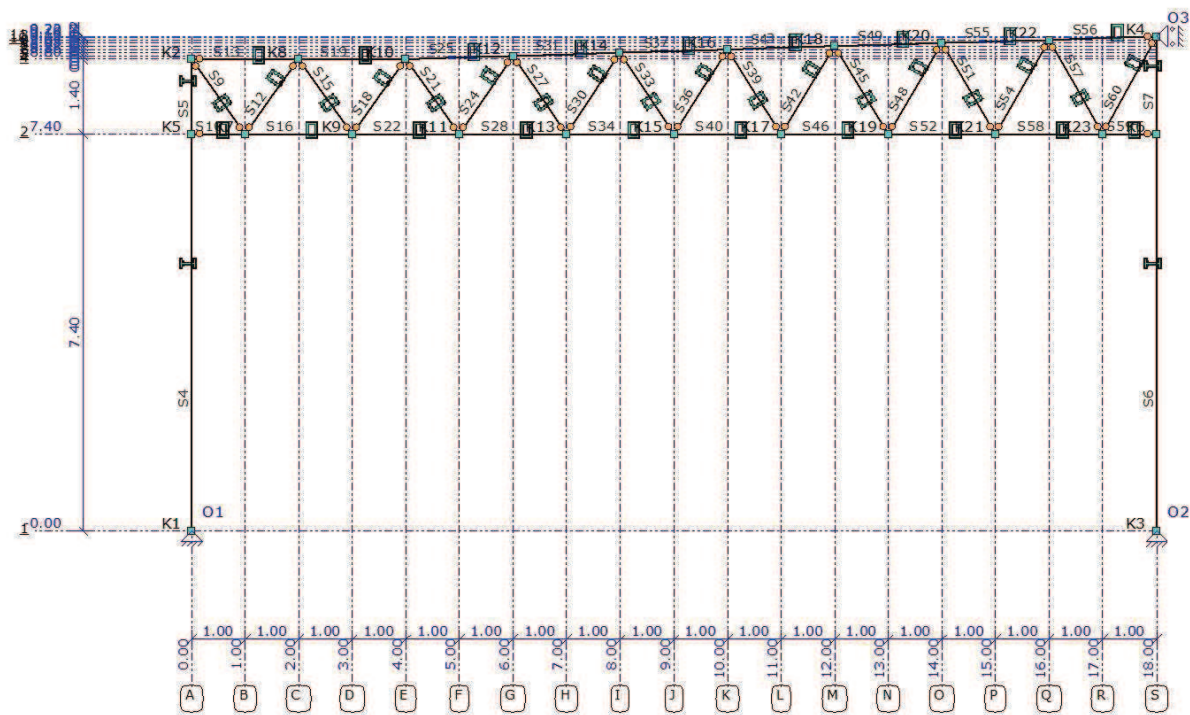
POER A DWARSDOORSNEDE TEKENING

Bovenaanzicht Dwarsdoorsnede



Spant as WW (ontvangst)		Novares Constructeurs	
Bijlage K			
Projectnaam		Projectnummer	
Omschrijving		Constructeur	D. van Vegchel
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	W:\Projecten\2016\16-447\Constructeur\uitbreiding\def\portaal\spant WW.mxf		

AFB. GEOMETRIE RAAMWERK



STAVEN

Staat	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S4	K1	NVM	NVM	K5	P3	0,000	0,000	0,000	-7,400	7,400
S5	K5	NVM	NVM	K2	P3	0,000	-7,400	0,000	-8,800	1,400
S6	K3	NVM	NVM	K6	P3	18,000	0,000	18,000	-7,400	7,400
S7	K6	NVM	NVM	K4	P3	18,000	-7,400	18,000	-9,220	1,820
S9	K2	NV-	NV-	K7	P4	0,000	-8,800	1,000	-7,400	1,720
S10	K5	NV-	NVM	K7	P1	0,000	-7,400	1,000	-7,400	1,000
S12	K7	NV-	NV-	K8	P4	1,000	-7,400	2,000	-8,800	1,720
S13	K2	NV-	NVM	K8	P2	0,000	-8,800	2,000	-8,800	2,000
S15	K8	NV-	NV-	K9	P4	2,000	-8,800	3,000	-7,400	1,720
S16	K7	NVM	NVM	K9	P1	1,000	-7,400	3,000	-7,400	2,000
S18	K9	NV-	NV-	K10	P4	3,000	-7,400	4,000	-8,800	1,720
S19	K8	NVM	NVM	K10	P2	2,000	-8,800	4,000	-8,800	2,000
S21	K10	NV-	NV-	K11	P4	4,000	-8,800	5,000	-7,400	1,720
S22	K9	NVM	NVM	K11	P1	3,000	-7,400	5,000	-7,400	2,000
S24	K11	NV-	NV-	K12	P4	5,000	-7,400	6,000	-8,860	1,770
S25	K10	NVM	NVM	K12	P2	4,000	-8,800	6,000	-8,860	2,001
S27	K12	NV-	NV-	K13	P4	6,000	-8,860	7,000	-7,400	1,770
S28	K11	NVM	NVM	K13	P1	5,000	-7,400	7,000	-7,400	2,000
S30	K13	NV-	NV-	K14	P4	7,000	-7,400	8,000	-8,920	1,819
S31	K12	NVM	NVM	K14	P2	6,000	-8,860	8,000	-8,920	2,001
S33	K14	NV-	NV-	K15	P4	8,000	-8,920	9,000	-7,400	1,819
S34	K13	NVM	NVM	K15	P1	7,000	-7,400	9,000	-7,400	2,000
S36	K15	NV-	NV-	K16	P4	9,000	-7,400	10,000	-8,980	1,870
S37	K14	NVM	NVM	K16	P2	8,000	-8,920	10,000	-8,980	2,001
S39	K16	NV-	NV-	K17	P4	10,000	-8,980	11,000	-7,400	1,870
S40	K15	NVM	NVM	K17	P1	9,000	-7,400	11,000	-7,400	2,000
S42	K17	NV-	NV-	K18	P4	11,000	-7,400	12,000	-9,040	1,921
S43	K16	NVM	NVM	K18	P2	10,000	-8,980	12,000	-9,040	2,001
S45	K18	NV-	NV-	K19	P4	12,000	-9,040	13,000	-7,400	1,921
S46	K17	NVM	NVM	K19	P1	11,000	-7,400	13,000	-7,400	2,000
S48	K19	NV-	NV-	K20	P4	13,000	-7,400	14,000	-9,100	1,972

Spant as WW (ontvangst)	Novares Constructeurs	
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Staaf	Knoop B	B	Scharnier E	Knoop E	Profiel	X-B	Z-B	X-E	Z-E	Lengte
S49	K18	NVM	NVM	K20	P2	12,000	-9,040	14,000	-9,100	2,001
S51	K20	NV-	NV-	K21	P4	14,000	-9,100	15,000	-7,400	1,972
S52	K19	NVM	NVM	K21	P1	13,000	-7,400	15,000	-7,400	2,000
S54	K21	NV-	NV-	K22	P4	15,000	-7,400	16,000	-9,160	2,024
S55	K20	NVM	NVM	K22	P2	14,000	-9,100	16,000	-9,160	2,001
S56	K22	NVM	NV-	K4	P2	16,000	-9,160	18,000	-9,220	2,001
S57	K22	NV-	NV-	K23	P4	16,000	-9,160	17,000	-7,400	2,024
S58	K21	NVM	NVM	K23	P1	15,000	-7,400	17,000	-7,400	2,000
S59	K23	NVM	NV-	K6	P1	17,000	-7,400	18,000	-7,400	1,000
S60	K23	NV-	NV-	K4	P4	17,000	-7,400	18,000	-9,220	2,077
-	-	-	-	-	-	m	m	m	m	m

PROFIELEN

Profiel	Profielnaam	Oppervlakte	ly Materiaal	Hoek
P1	KK150/6.3	3.4850e-03	1.1737e-05 S235H(EN10219-1)	0
P2	KW140/5	2.6624e-03	8.0117e-06 S235H(EN10210-1)	0
P3	HE180A	4.5251e-03	2.5103e-05 S235	0
P4	KK60/4	8.5480e-04	4.3551e-07 S235H(EN10219-1)	0
-	-	m2	m4 -	°

MATERIALEN

Materiaal	Dichtheid	E-Modulus	Uitzettingcoëff
S235H(EN10219-1)	78.50	2.1000e+08	12.0000e-06
S235	78.50	2.1000e+08	12.0000e-06
S235H(EN 10210-1)	78.50	2.1000e+08	12.0000e-06
-	kN/m3	kN/m2	Cm

OPLEGGINGEN

Oplegging	Knoop	X	Z	Yr	HoekYr
O1	K1	vast	vast	vrij	0
O2	K3	vast	vast	vrij	0
O3	K4	vast	vrij	vrij	0
-	-	kN/m	kN/m	kNmrad	°

GEWICHTSBEREKENING

Index	Staven	Berekening	Waarde Eenheden
Lsys1	Belastingen en vervormingen	NEN-EN1991	
Height1	Systeemmaat	5.00	5,00 [m]
Width1	Totale hoogte van constructie	9.22	9,22 [m]
LR1	Totale breedte van constructie	18.00	18,00 [m]
	Permanente Belasting	NEN-EN1991-1-1:2011/NB:2011	
Pp1	Plat Dak (S13,S19)		
q1	Stalen dak + windvb	.73	0,73 [kN/m²]
LR2	Permanente Belasting	Pp1*Lsys1	3,65 [kN/m]
	Opgelegde belastingen	NEN-EN1991-1-1:2011/NB:2011	
qk1	S13,S19		
q2	Opgelegde belastingen (qk)	NEN-EN1991-1-1#6.3(Cat=H)	1,00 [kN/m²]
	Opgelegde belastingen (q) (Lsys=5.00)	qk1 * Min(5.0, Lsys1)	5,00 [kN/m]
qk2	S25,S31,S37,S43,S49,S55-S56		
q3	Opgelegde belastingen (qk)	NEN-EN1991-1-1#6.3(Cat=H, Hoek=2)	1,00 [kN/m²]
LR3	Opgelegde belastingen (q) (Lsys=5.00)	qk2 * Min(5.0, Lsys1)	5,00 [kN/m]
	Windbelasting van Links + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height2	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width2	Gemiddelde breedte (b)	25.00	25,00 [m]
Width3	Constructie diepte (d)	18.00	18,00 [m]
A1	Belast oppervlak (A)	230.50	230,50 [m²]
Co1	Orthografie factor (C0)	1.00	1,00
CsCd1	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width2,h=Height2,Terein=Onbebouwd,Regio=3,C0=Co1)	0,85
Cfr1	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe1	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D,hd=0.51)	0,80
Cpi1	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe1,Openingen=0.00,Over=True)	0,20

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR3			
Z1	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp1	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z1,Terrein=Onbebo uwd,Regio=3,C0=Co1)	0,68 [kN/m²]
q4	Wrijving; Verdeelde element belasting (q)	(Cfr1*Qp1) * Lsys1	0,03 [kN/m]
q5	Interne druk; Verdeelde element belasting (q)	(Cpi1*Qp1) * Lsys1	0,68 [kN/m]
Cpe2	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
q6	Vertikale wand S4; Verdeelde element belasting (q)	(Qp1*Cpe2*CsCd1) * Lsys1	2,32 [kN/m]
Cpe3	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
C1	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe2-Cpe3) * 0.85	1,11
q7	Vertikale wand S4; Verdeelde element belasting (q)	(Qp1*(Cpe3+C1)*CsCd1) * Lsys1	1,75 [kN/m]
q8	Vertikale wand S6; Verdeelde element belasting (q)	(Qp1*Cpe3*CsCd1) * Lsys1	-1,45 [kN/m]
q9	Vertikale wand S6; Verdeelde element belasting (q)	(Qp1*(Cpe2-C1)*CsCd1) * Lsys1	-0,88 [kN/m]
Cpe4	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1,20
q10	Plat dak S13; Verdeelde element belasting (q)	(Qp1*Cpe4*CsCd1) * Lsys1	-3,48 [kN/m]
Cpe5	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0,70
q11	Plat dak S13; Verdeelde element belasting (q)	(Qp1*Cpe5*CsCd1) * Lsys1	-2,03 [kN/m]
Cpe6	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q12	Plat dak S37; Verdeelde element belasting (q)	(Qp1*Cpe6*CsCd1) * Lsys1	0,58 [kN/m]
LR4			
	Windbelasting van Links + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height3	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width4	Gemiddelde breedte (b)	25.00	25,00 [m]
Width5	Constructie diepte (d)	18.00	18,00 [m]
A2	Belast oppervlak (A)	230.50	230,50 [m²]
Co2	Orthografie factor (C0)	1.00	1,00
CsCd2	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width4,h=Height3,T errein=Onbebouwd,Regio=3,C0=Co2)	0,85
Cfr2	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe7	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
Cpi2	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe7,Openingen= 0.00,Over=True)	0,20
Z2	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp2	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z2,Terrein=Onbebo uwd,Regio=3,C0=Co2)	0,68 [kN/m²]
q13	Wrijving; Verdeelde element belasting (q)	(Cfr2*Qp2) * Lsys1	0,03 [kN/m]
q14	Interne druk; Verdeelde element belasting (q)	(Cpi2*Qp2) * Lsys1	0,68 [kN/m]
Cpe8	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51,Eerst=False)	0,80
q15	Vertikale wand S4; Verdeelde element belasting (q)	(Qp2*Cpe8*CsCd2) * Lsys1	2,32 [kN/m]
Cpe9	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51,Eerst=False)	-0,50
C2	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe8-Cpe9) * 0.85	1,11
q16	Vertikale wand S4; Verdeelde element belasting (q)	(Qp2*(Cpe9+C2)*CsCd2) * Lsys1	1,75 [kN/m]
q17	Vertikale wand S6; Verdeelde element belasting (q)	(Qp2*Cpe9*CsCd2) * Lsys1	-1,45 [kN/m]
q18	Vertikale wand S6; Verdeelde element belasting (q)	(Qp2*(Cpe8-C2)*CsCd2) * Lsys1	-0,88 [kN/m]
Cpe10	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1,20
q19	Plat dak S13; Verdeelde element belasting (q)	(Qp2*Cpe10*CsCd2) * Lsys1	-3,48 [kN/m]
Cpe11	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0,70
q20	Plat dak S13; Verdeelde element belasting (q)	(Qp2*Cpe11*CsCd2) * Lsys1	-2,03 [kN/m]
Cpe12	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0,20
q21	Plat dak S37; Verdeelde element belasting (q)	(Qp2*Cpe12*CsCd2) * Lsys1	-0,58 [kN/m]
LR5			
	Windbelasting van Links + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height4	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width6	Gemiddelde breedte (b)	25.00	25,00 [m]
Width7	Constructie diepte (d)	18.00	18,00 [m]
A3	Belast oppervlak (A)	230.50	230,50 [m²]
Co3	Orthografie factor (C0)	1.00	1,00
CsCd3	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width6,h=Height4,T errein=Onbebouwd,Regio=3,C0=Co3)	0,85
Cfr3	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe13	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
Cpi3	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe13,Openingen =0.00,Over=False)	-0,30

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR5			
Z3	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp3	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z3,Terrein=Onbebo uwd,Regio=3,C0=Co3)	0,68 [kN/m²]
q22	Wrijving; Verdeelde element belasting (q)	(Cfr3*Qp3) * Lsys1	0,03 [kN/m]
q23	Interne druk; Verdeelde element belasting (q)	(Cpi3*Qp3) * Lsys1	-1,02 [kN/m]
Cpe14	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
q24	Vertikale wand S4; Verdeelde element belasting (q)	(Qp3*Cpe14*CsCd3) * Lsys1	2,32 [kN/m]
Cpe15	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
C3	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe14-Cpe15) * 0.85	1,11
q25	Vertikale wand S4; Verdeelde element belasting (q)	(Qp3*(Cpe15+C3)*CsCd3) * Lsys1	1,75 [kN/m]
q26	Vertikale wand S6; Verdeelde element belasting (q)	(Qp3*Cpe15*CsCd3) * Lsys1	-1,45 [kN/m]
q27	Vertikale wand S6; Verdeelde element belasting (q)	(Qp3*(Cpe14-C3)*CsCd3) * Lsys1	-0,88 [kN/m]
Cpe16	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1,20
q28	Plat dak S13; Verdeelde element belasting (q)	(Qp3*Cpe16*CsCd3) * Lsys1	-3,48 [kN/m]
Cpe17	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0,70
q29	Plat dak S13; Verdeelde element belasting (q)	(Qp3*Cpe17*CsCd3) * Lsys1	-2,03 [kN/m]
Cpe18	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q30	Plat dak S37; Verdeelde element belasting (q)	(Qp3*Cpe18*CsCd3) * Lsys1	0,58 [kN/m]
LR6			
	Windbelasting van Links + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height5	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width8	Gemiddelde breedte (b)	25.00	25,00 [m]
Width9	Constructie diepte (d)	18.00	18,00 [m]
A4	Belast oppervlak (A)	230.50	230,50 [m²]
Co4	Orthografie factor (C0)	1.00	1,00
CsCd4	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width8,h=Height5,T errein=Onbebouwd,Regio=3,C0=Co4)	0,85
Cfr4	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe19	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
Cpi4	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe19,Openingen =0.00,Over=False)	-0,30
Z4	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp4	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z4,Terrein=Onbebo uwd,Regio=3,C0=Co4)	0,68 [kN/m²]
q31	Wrijving; Verdeelde element belasting (q)	(Cfr4*Qp4) * Lsys1	0,03 [kN/m]
q32	Interne druk; Verdeelde element belasting (q)	(Cpi4*Qp4) * Lsys1	-1,02 [kN/m]
Cpe20	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51,Eerst=False)	0,80
q33	Vertikale wand S4; Verdeelde element belasting (q)	(Qp4*Cpe20*CsCd4) * Lsys1	2,32 [kN/m]
Cpe21	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51,Eerst=False)	-0,50
C4	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe20-Cpe21) * 0.85	1,11
q34	Vertikale wand S4; Verdeelde element belasting (q)	(Qp4*(Cpe21+C4)*CsCd4) * Lsys1	1,75 [kN/m]
q35	Vertikale wand S6; Verdeelde element belasting (q)	(Qp4*Cpe21*CsCd4) * Lsys1	-1,45 [kN/m]
q36	Vertikale wand S6; Verdeelde element belasting (q)	(Qp4*(Cpe20-C4)*CsCd4) * Lsys1	-0,88 [kN/m]
Cpe22	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1,20
q37	Plat dak S13; Verdeelde element belasting (q)	(Qp4*Cpe22*CsCd4) * Lsys1	-3,48 [kN/m]
Cpe23	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0,70
q38	Plat dak S13; Verdeelde element belasting (q)	(Qp4*Cpe23*CsCd4) * Lsys1	-2,03 [kN/m]
Cpe24	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0,20
q39	Plat dak S37; Verdeelde element belasting (q)	(Qp4*Cpe24*CsCd4) * Lsys1	-0,58 [kN/m]
LR7			
	Windbelasting van Rechts + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height6	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width10	Gemiddelde breedte (b)	25.00	25,00 [m]
Width11	Constructie diepte (d)	18.00	18,00 [m]
A5	Belast oppervlak (A)	230.50	230,50 [m²]
Co5	Orthografie factor (C0)	1.00	1,00
CsCd5	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width10,h=Height6, Terrein=Onbebouwd,Regio=3,C0=Co5)	0,85
Cfr5	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe25	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80

Spant as WW (ontvangst)		Novares Constructeurs	
Index	Staven	Berekening	Waarde Eenheden
LR7			
Cpi5	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe25,Openingen=0.00,Over=True)	0,20
Z5	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp5	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z5,Terrein=Onbebo uwd,Regio=3,C0=Co5)	0,68 [kN/m²]
q40	Wrijving; Verdeelde element belasting (q)	(Cfr5*Qp5) * Lsys1	0,03 [kN/m]
q41	Interne druk; Verdeelde element belasting (q)	(Cpi5*Qp5) * Lsys1	0,68 [kN/m]
Cpe26	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
q42	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*Cpe26*CsCd5) * Lsys1	-1,45 [kN/m]
Cpe27	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
C5	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe27-Cpe26) * 0.85	1,11
q43	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*(Cpe27-C5)*CsCd5) * Lsys1	-0,88 [kN/m]
q44	Vertikale wand S4; Verdeelde element belasting (q)	(Qp5*(Cpe26+C5)*CsCd5) * Lsys1	1,75 [kN/m]
q45	Vertikale wand S6; Verdeelde element belasting (q)	(Qp5*Cpe27*CsCd5) * Lsys1	2,32 [kN/m]
Cpe28	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q46	Plat dak S13; Verdeelde element belasting (q)	(Qp5*Cpe28*CsCd5) * Lsys1	0,58 [kN/m]
Cpe29	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0,70
q47	Plat dak S37; Verdeelde element belasting (q)	(Qp5*Cpe29*CsCd5) * Lsys1	-2,03 [kN/m]
Cpe30	Plat dak S56; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1,20
q48	Plat dak S56; Verdeelde element belasting (q)	(Qp5*Cpe30*CsCd5) * Lsys1	-3,48 [kN/m]
LR8			
Height7	Windbelasting van Rechts + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Width12	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width13	Gemiddelde breedte (b)	25.00	25,00 [m]
A6	Constructie diepte (d)	18.00	18,00 [m]
Co6	Belast oppervlak (A)	230.50	230,50 [m²]
CsCd6	Orthografie factor (C0)	1.00	1,00
Cfr6	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width12,h=Height7, Terrein=Onbebouwd,Regio=3,C0=Co6)	0,85
Cpe31	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpi6	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
Cpi6	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe31,Openingen=0.00,Over=True)	0,20
Z6	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp6	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z6,Terrein=Onbebo uwd,Regio=3,C0=Co6)	0,68 [kN/m²]
q49	Wrijving; Verdeelde element belasting (q)	(Cfr6*Qp6) * Lsys1	0,03 [kN/m]
q50	Interne druk; Verdeelde element belasting (q)	(Cpi6*Qp6) * Lsys1	0,68 [kN/m]
Cpe32	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51,Eerst=False)	-0,50
q51	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*Cpe32*CsCd6) * Lsys1	-1,45 [kN/m]
Cpe33	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51,Eerst=False)	0,80
C6	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe33-Cpe32) * 0.85	1,11
q52	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*(Cpe33-C6)*CsCd6) * Lsys1	-0,88 [kN/m]
q53	Vertikale wand S4; Verdeelde element belasting (q)	(Qp6*(Cpe32+C6)*CsCd6) * Lsys1	1,75 [kN/m]
q54	Vertikale wand S6; Verdeelde element belasting (q)	(Qp6*Cpe33*CsCd6) * Lsys1	2,32 [kN/m]
Cpe34	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0,20
q55	Plat dak S13; Verdeelde element belasting (q)	(Qp6*Cpe34*CsCd6) * Lsys1	-0,58 [kN/m]
Cpe35	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0,70
q56	Plat dak S37; Verdeelde element belasting (q)	(Qp6*Cpe35*CsCd6) * Lsys1	-2,03 [kN/m]
Cpe36	Plat dak S56; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1,20
q57	Plat dak S56; Verdeelde element belasting (q)	(Qp6*Cpe36*CsCd6) * Lsys1	-3,48 [kN/m]
LR9			
Height8	Windbelasting van Rechts + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Width14	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width15	Gemiddelde breedte (b)	25.00	25,00 [m]
A7	Constructie diepte (d)	18.00	18,00 [m]
Co7	Belast oppervlak (A)	230.50	230,50 [m²]
CsCd7	Orthografie factor (C0)	1.00	1,00
Cfr7	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width14,h=Height8, Terrein=Onbebouwd,Regio=3,C0=Co7)	0,85
Cpe37	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe37	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR9			
Cpi7	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe37,Openingen=0.00,Over=False)	-0,30
Z7	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp7	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z7,Terrein=Onbebo uwd,Regio=3,C0=Co7)	0,68 [kN/m²]
q58	Wrijving; Verdeelde element belasting (q)	(Cfr7*Qp7) * Lsys1	0,03 [kN/m]
q59	Interne druk; Verdeelde element belasting (q)	(Cpi7*Qp7) * Lsys1	-1,02 [kN/m]
Cpe38	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
q60	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*Cpe38*CsCd7) * Lsys1	-1,45 [kN/m]
Cpe39	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51)	0,80
C7	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe39-Cpe38) * 0.85	1,11
q61	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*(Cpe39-C7)*CsCd7) * Lsys1	-0,88 [kN/m]
q62	Vertikale wand S4; Verdeelde element belasting (q)	(Qp7*(Cpe38+C7)*CsCd7) * Lsys1	1,75 [kN/m]
q63	Vertikale wand S6; Verdeelde element belasting (q)	(Qp7*Cpe39*CsCd7) * Lsys1	2,32 [kN/m]
Cpe40	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q64	Plat dak S13; Verdeelde element belasting (q)	(Qp7*Cpe40*CsCd7) * Lsys1	0,58 [kN/m]
Cpe41	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H)	-0,70
q65	Plat dak S37; Verdeelde element belasting (q)	(Qp7*Cpe41*CsCd7) * Lsys1	-2,03 [kN/m]
Cpe42	Plat dak S56; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G)	-1,20
q66	Plat dak S56; Verdeelde element belasting (q)	(Qp7*Cpe42*CsCd7) * Lsys1	-3,48 [kN/m]
LR10			
	Windbelasting van Rechts + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height9	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width16	Gemiddelde breedte (b)	25.00	25,00 [m]
Width17	Constructie diepte (d)	18.00	18,00 [m]
A8	Belast oppervlak (A)	230.50	230,50 [m²]
Co8	Orthografie factor (C0)	1.00	1,00
CsCd8	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width16,h=Height9, Terrein=Onbebouwd,Regio=3,C0=Co8)	0,85
Cfr8	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe43	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51)	-0,50
Cpi8	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe43,Openingen =0.00,Over=False)	-0,30
Z8	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp8	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z8,Terrein=Onbebo uwd,Regio=3,C0=Co8)	0,68 [kN/m²]
q67	Wrijving; Verdeelde element belasting (q)	(Cfr8*Qp8) * Lsys1	0,03 [kN/m]
q68	Interne druk; Verdeelde element belasting (q)	(Cpi8*Qp8) * Lsys1	-1,02 [kN/m]
Cpe44	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=E, hd=0.51,Eerst=False)	-0,50
q69	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*Cpe44*CsCd8) * Lsys1	-1,45 [kN/m]
Cpe45	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=D, hd=0.51,Eerst=False)	0,80
C8	Vertikale wand S4; Druk coefficient (Cpe) incl. correlatiefactor	(Cpe45-Cpe44) * 0.85	1,11
q70	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*(Cpe45-C8)*CsCd8) * Lsys1	-0,88 [kN/m]
q71	Vertikale wand S4; Verdeelde element belasting (q)	(Qp8*(Cpe44+C8)*CsCd8) * Lsys1	1,75 [kN/m]
q72	Vertikale wand S6; Verdeelde element belasting (q)	(Qp8*Cpe45*CsCd8) * Lsys1	2,32 [kN/m]
Cpe46	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Ee rst=False)	-0,20
q73	Plat dak S13; Verdeelde element belasting (q)	(Qp8*Cpe46*CsCd8) * Lsys1	-0,58 [kN/m]
Cpe47	Plat dak S37; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=H,E erst=False)	-0,70
q74	Plat dak S37; Verdeelde element belasting (q)	(Qp8*Cpe47*CsCd8) * Lsys1	-2,03 [kN/m]
Cpe48	Plat dak S56; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=G,E erst=False)	-1,20
q75	Plat dak S56; Verdeelde element belasting (q)	(Qp8*Cpe48*CsCd8) * Lsys1	-3,48 [kN/m]
LR11			
	Windbelasting van Voren + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Height10	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width18	Gemiddelde breedte (b)	18.00	18,00 [m]
Width19	Constructie diepte (d)	18.00	18,00 [m]
A9	Belast oppervlak (A)	165.96	165,96 [m²]
Co9	Orthografie factor (C0)	1.00	1,00
CsCd9	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width18,h=Height1 0,Terrein=Onbebouwd,Regio=3,C0=Co9)	0,85
Cfr9	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR11			
Cpe49	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi9	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe49,Openingen=0.00,Over=True)	0,20
Z9	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp9	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z9,Terrein=Onbebo uwd,Regio=3,C0=Co9)	0,68 [kN/m²]
q76	Wrijving; Verdeelde element belasting (q)	(Cfr9*Qp9) * Lsys1	0,03 [kN/m]
q77	Interne druk; Verdeelde element belasting (q)	(Cpi9*Qp9) * Lsys1	0,68 [kN/m]
Cpe50	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
q78	Vertikale wand S4; Verdeelde element belasting (q)	(Qp9*Cpe50*CsCd9) * Lsys1	-2,32 [kN/m]
Cpe51	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=l)	0,20
q79	Plat dak S13; Verdeelde element belasting (q)	(Qp9*Cpe51*CsCd9) * Lsys1	0,58 [kN/m]
LR12			
	Windbelasting van Voren + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height11	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width20	Gemiddelde breedte (b)	18.00	18,00 [m]
Width21	Constructie diepte (d)	18.00	18,00 [m]
A10	Belast oppervlak (A)	165.96	165,96 [m²]
Co10	Orthografie factor (C0)	1.00	1,00
CsCd10	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width20,h=Height1 1,Terrein=Onbebouwd,Regio=3,C0=Co10)	0,85
Cfr10	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe52	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi10	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe52,Openingen=0.00,Over=True)	0,20
Z10	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp10	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z10,Terrein=Onbeb ouwd,Regio=3,C0=Co10)	0,68 [kN/m²]
q80	Wrijving; Verdeelde element belasting (q)	(Cfr10*Qp10) * Lsys1	0,03 [kN/m]
q81	Interne druk; Verdeelde element belasting (q)	(Cpi10*Qp10) * Lsys1	0,68 [kN/m]
Cpe53	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51,Eerst=False)	-0,80
q82	Vertikale wand S4; Verdeelde element belasting (q)	(Qp10*Cpe53*CsCd10) * Lsys1	-2,32 [kN/m]
Cpe54	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=l,Ee rst=False)	-0,20
q83	Plat dak S13; Verdeelde element belasting (q)	(Qp10*Cpe54*CsCd10) * Lsys1	-0,58 [kN/m]
LR13			
	Windbelasting van Voren + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height12	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width22	Gemiddelde breedte (b)	18.00	18,00 [m]
Width23	Constructie diepte (d)	18.00	18,00 [m]
A11	Belast oppervlak (A)	165.96	165,96 [m²]
Co11	Orthografie factor (C0)	1.00	1,00
CsCd11	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width22,h=Height1 2,Terrein=Onbebouwd,Regio=3,C0=Co11)	0,85
Cfr11	Wrijvingscoefficient (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe55	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi11	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe55,Openingen=0.00,Over=False)	-0,30
Z11	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp11	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z11,Terrein=Onbeb ouwd,Regio=3,C0=Co11)	0,68 [kN/m²]
q84	Wrijving; Verdeelde element belasting (q)	(Cfr11*Qp11) * Lsys1	0,03 [kN/m]
q85	Interne druk; Verdeelde element belasting (q)	(Cpi11*Qp11) * Lsys1	-1,02 [kN/m]
Cpe56	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
q86	Vertikale wand S4; Verdeelde element belasting (q)	(Qp11*Cpe56*CsCd11) * Lsys1	-2,32 [kN/m]
Cpe57	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=l)	0,20
q87	Plat dak S13; Verdeelde element belasting (q)	(Qp11*Cpe57*CsCd11) * Lsys1	0,58 [kN/m]
LR14			
	Windbelasting van Voren + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height13	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width24	Gemiddelde breedte (b)	18.00	18,00 [m]

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR14			
Width25	Constructie diepte (d)	18.00	18,00 [m]
A12	Belast oppervlak (A)	165.96	165,96 [m²]
Co12	Orthografie factor (C0)	1.00	1,00
CsCd12	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width24,h=Height13,Terrein=Onbebouwd,Regio=3,C0=Co12)	0,85
Cfr12	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe58	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi12	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe58,Openingen=0.00,Over=False)	-0,30
Z12	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp12	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z12,Terrein=Onbebouwd,Regio=3,C0=Co12)	0,68 [kN/m²]
q88	Wrijving; Verdeelde element belasting (q)	(Cfr12*Qp12) * Lsys1	0,03 [kN/m]
q89	Interne druk; Verdeelde element belasting (q)	(Cpi12*Qp12) * Lsys1	-1,02 [kN/m]
Cpe59	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51,Eerst=False)	-0,80
q90	Vertikale wand S4; Verdeelde element belasting (q)	(Qp12*Cpe59*CsCd12) * Lsys1	-2,32 [kN/m]
Cpe60	Plat dak S13; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0,20
q91	Plat dak S13; Verdeelde element belasting (q)	(Qp12*Cpe60*CsCd12) * Lsys1	-0,58 [kN/m]
LR15			
Height14	Windbelasting van Achteren + Overdruk	NEN-EN1991-1-4:2011/NB:2011	
Width26	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width27	Gemiddelde breedte (b)	18.00	18,00 [m]
A13	Constructie diepte (d)	18.00	18,00 [m]
Co13	Belast oppervlak (A)	165.96	165,96 [m²]
CsCd13	Orthografie factor (C0)	1.00	1,00
Cfr13	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width26,h=Height14,Terrein=Onbebouwd,Regio=3,C0=Co13)	0,85
Cpe61	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpi13	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi13	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe61,Openingen=0.00,Over=True)	0,20
Z13	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp13	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z13,Terrein=Onbebouwd,Regio=3,C0=Co13)	0,68 [kN/m²]
q92	Wrijving; Verdeelde element belasting (q)	(Cfr13*Qp13) * Lsys1	0,03 [kN/m]
q93	Interne druk; Verdeelde element belasting (q)	(Cpi13*Qp13) * Lsys1	0,68 [kN/m]
Cpe62	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
q94	Vertikale wand S4; Verdeelde element belasting (q)	(Qp13*Cpe62*CsCd13) * Lsys1	-2,32 [kN/m]
Cpe63	Plat dak S13; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q95	Plat dak S13; Verdeelde element belasting (q)	(Qp13*Cpe63*CsCd13) * Lsys1	0,58 [kN/m]
LR16			
Height15	Windbelasting van Achteren + Overdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Width28	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width29	Gemiddelde breedte (b)	18.00	18,00 [m]
A14	Constructie diepte (d)	18.00	18,00 [m]
Co14	Belast oppervlak (A)	165.96	165,96 [m²]
CsCd14	Orthografie factor (C0)	1.00	1,00
Cfr14	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width28,h=Height15,Terrein=Onbebouwd,Regio=3,C0=Co14)	0,85
Cpe64	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpi14	Uitwendige druk; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi14	Interne druk; Druk coëfficiënt (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe64,Openingen=0.00,Over=True)	0,20
Z14	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18, K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp14	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z14,Terrein=Onbebouwd,Regio=3,C0=Co14)	0,68 [kN/m²]
q96	Wrijving; Verdeelde element belasting (q)	(Cfr14*Qp14) * Lsys1	0,03 [kN/m]
q97	Interne druk; Verdeelde element belasting (q)	(Cpi14*Qp14) * Lsys1	0,68 [kN/m]
Cpe65	Vertikale wand S4; Druk coëfficiënt (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51,Eerst=False)	-0,80
q98	Vertikale wand S4; Verdeelde element belasting (q)	(Qp14*Cpe65*CsCd14) * Lsys1	-2,32 [kN/m]

Spant as WW (ontvangst)	Novares Constructeurs	
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Index	Staven	Berekening	Waarde Eenheden
LR16			
Cpe66	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0,20
q99	Plat dak S13; Verdeelde element belasting (q)	(Qp14*Cpe66*CsCd14) * Lsys1	-0,58 [kN/m]
LR17			
	Windbelasting van Achteren + Onderdruk	NEN-EN1991-1-4:2011/NB:2011	
Height16	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width30	Gemiddelde breedte (b)	18.00	18,00 [m]
Width31	Constructie diepte (d)	18.00	18,00 [m]
A15	Belast oppervlak (A)	165.96	165,96 [m²]
Co15	Orthografie factor (C0)	1.00	1,00
CsCd15	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width30,h=Height16,Terrein=Onbebouwd,Regio=3,C0=Co15)	0,85
Cfr15	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe67	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi15	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe67,Openingen=0.00,Over=False)	-0,30
Z15	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp15	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z15,Terrein=Onbebouwd,Regio=3,C0=Co15)	0,68 [kN/m²]
q100	Wrijving; Verdeelde element belasting (q)	(Cfr15*Qp15) * Lsys1	0,03 [kN/m]
q101	Interne druk; Verdeelde element belasting (q)	(Cpi15*Qp15) * Lsys1	-1,02 [kN/m]
Cpe68	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
q102	Vertikale wand S4; Verdeelde element belasting (q)	(Qp15*Cpe68*CsCd15) * Lsys1	-2,32 [kN/m]
Cpe69	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I)	0,20
q103	Plat dak S13; Verdeelde element belasting (q)	(Qp15*Cpe69*CsCd15) * Lsys1	0,58 [kN/m]
LR18			
	Windbelasting van Achteren + Onderdruk (2e Cpe)	NEN-EN1991-1-4:2011/NB:2011	
Height17	Totale hoogte (incl. gedeelte boven de grond) (h)	9.22	9,22 [m]
Width32	Gemiddelde breedte (b)	18.00	18,00 [m]
Width33	Constructie diepte (d)	18.00	18,00 [m]
A16	Belast oppervlak (A)	165.96	165,96 [m²]
Co16	Orthografie factor (C0)	1.00	1,00
CsCd16	Constructie factor (CsCd)	NEN-EN1991-1-4#6(b=Width32,h=Height17,Terrein=Onbebouwd,Regio=3,C0=Co16)	0,85
Cfr16	Wrijvingscoëfficiënt (Cfr)	EN1991-1-4#7.5(Oppervlak=Glad)	0,01
Cpe70	Uitwendige druk; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51)	-0,80
Cpi16	Interne druk; Druk coefficient (Cpi)	EN1991-1-4#7.2.9(Cpe=Cpe70,Openingen=0.00,Over=False)	-0,30
Z16	z=h; (h<=b) voor knopen: K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16,K17,K18,K19,K20,K21,K22,K23	9.22	9,22 [m]
Qp16	Pieksnelheids druk (Qp voor referentieperiode 50)	NEN-EN1991-1-4#4(Z=Z16,Terrein=Onbebouwd,Regio=3,C0=Co16)	0,68 [kN/m²]
q104	Wrijving; Verdeelde element belasting (q)	(Cfr16*Qp16) * Lsys1	0,03 [kN/m]
q105	Interne druk; Verdeelde element belasting (q)	(Cpi16*Qp16) * Lsys1	-1,02 [kN/m]
Cpe71	Vertikale wand S4; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Wand,Zone=B,hd=0.51,Eerst=False)	-0,80
q106	Vertikale wand S4; Verdeelde element belasting (q)	(Qp16*Cpe71*CsCd16) * Lsys1	-2,32 [kN/m]
Cpe72	Plat dak S13; Druk coefficient (Cpe)	NEN-EN1991-1-4#7.2(Dak=Plat,Zone=I,Eerst=False)	-0,20
q107	Plat dak S13; Verdeelde element belasting (q)	(Qp16*Cpe72*CsCd16) * Lsys1	-0,58 [kN/m]
LR19			
	Sneeuwbelasting	NEN-EN1991-1-3:2011/NB:2011	
Sk1	Karakteristiek waarde van de sneeuwlast op de grond (Sk)	NEN-EN1991-1-3#4.1(Zone=1)	0,70 [kN/m²]
Ce1	De milieucoëfficiënt (Ce)	NEN-EN1991-1-3#5.2.7()	1,00
Ct1	De thermische coëfficiënt (Ct)	NEN-EN1991-1-3#5.2.8()	1,00
Mu1	Plat dak, Mu1 Hoek: 0.00; S13 Mu1; Sneeuwbelasting coefficient (Mu)	EN1991-1-3#5.3(Dak=Plat,Mu=Mu1,Sk=Sk1)	0,80
q108	Verdeelde element belasting (q)	(Sk1*Ce1*Ct1*Mu1) * Lsys1	2,80 [kN/m]
Mu2	Plat dak, Mu1 Hoek: 1.72; S25 Mu1; Sneeuwbelasting coefficient (Mu)	EN1991-1-3#5.3(Dak=Plat,Hoek=1.72,Mu=Mu1,Sk=Sk1)	0,80
q109	Verdeelde element belasting (q)	(Sk1*Ce1*Ct1*Mu2) * Lsys1	2,80 [kN/m]

Spant as WW (ontvangst)	Novares Constructeurs	
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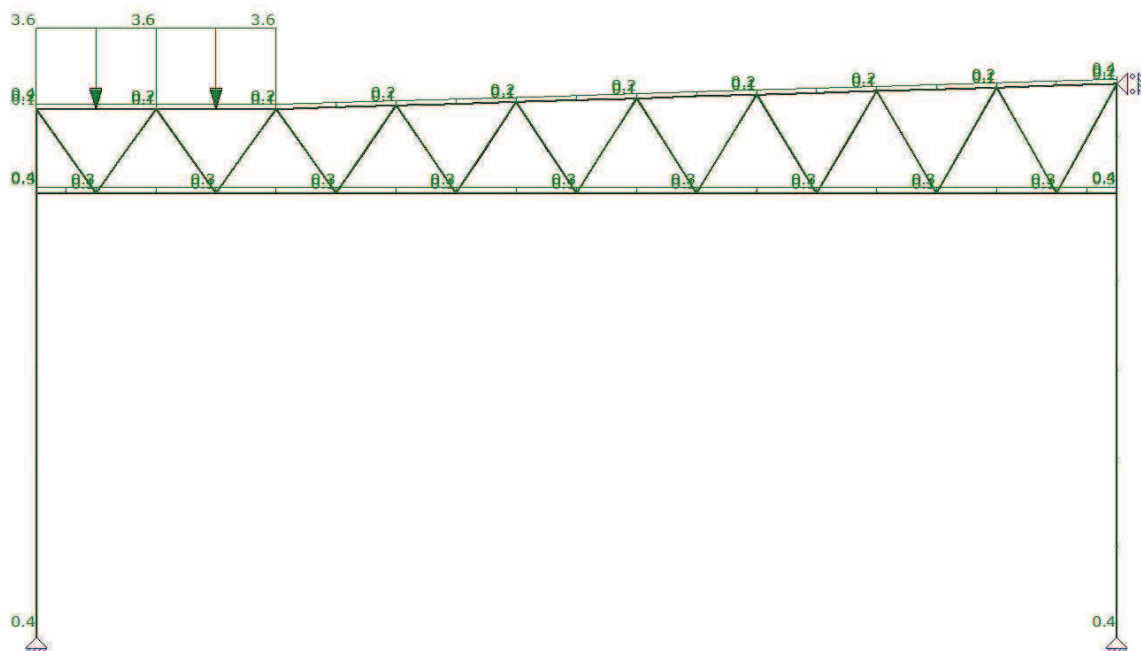
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.1	Permanente Belasting	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	2	1				1,00
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	2	3				1,00
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	2	5				1,00
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	3	7				1,00
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	4	9				1,00
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	5	11				1,00
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	6	13				1,00
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	7	15				1,00
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	Verdeelde veranderlijke belasting		Cat. H) Ontoegankelijke daken	8	17				1,00
B.G.11	Windbelasting van Links + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.15	Windbelasting van Links + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.19	Windbelasting van Rechts + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.23	Windbelasting van Rechts + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.27	Windbelasting van Voren + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.29	Windbelasting van Voren + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.31	Windbelasting van Achteren + Overdruk	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	Windbelasting	+		N.v.t.	N.v.t.		0.20		1,00
B.G.33	Windbelasting van Achteren + Onderdruk	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	Windbelasting	-		N.v.t.	N.v.t.		0.20		1,00

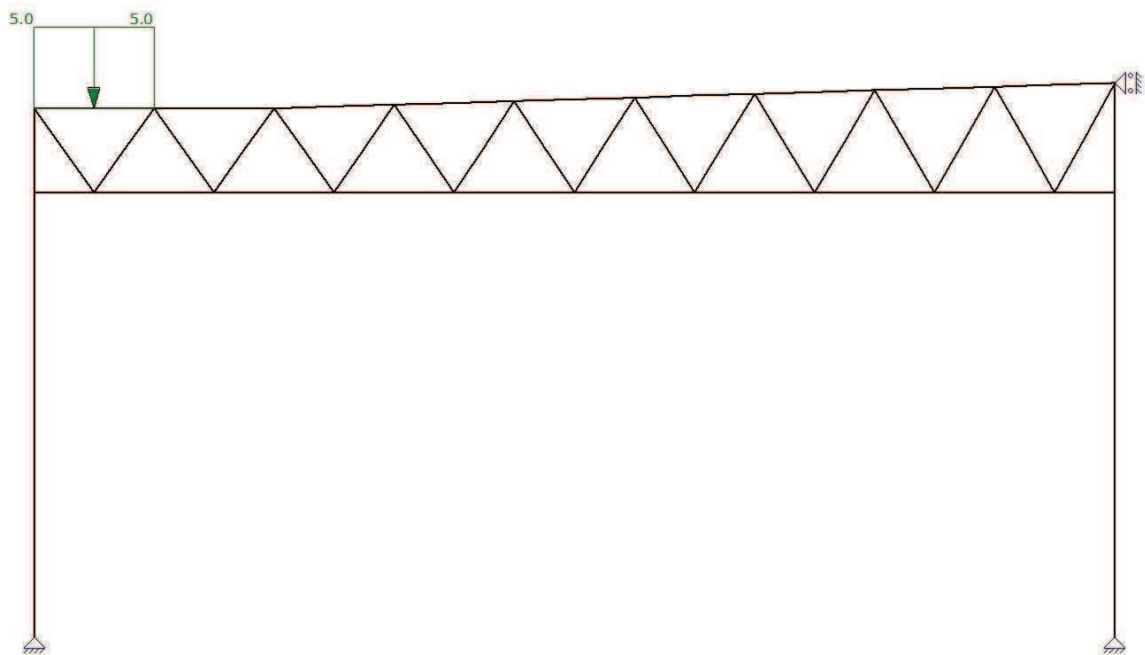
Spant as WW (ontvangst)	Novares Constructeurs	
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Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob
B.G.35	Sneeuwbelasting 1	Sneeuwbelasting	-		N.v.t.	N.v.t.		0.20		1,00
B.G.36	Kniklengte (Assymetrisch)	Kniklengte			N.v.t.	N.v.t.				
B.G.37	Kniklengte (Symmetrisch)	Kniklengte			N.v.t.	N.v.t.				

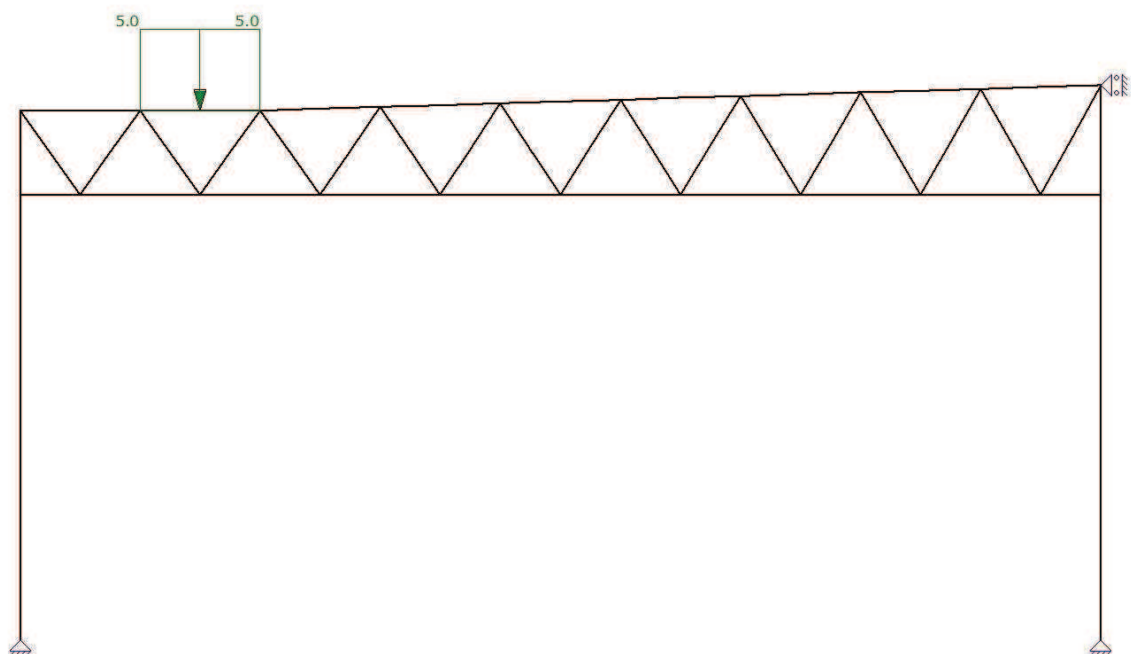
AFB. LASTEN B.G.1 PERMANENTE BELASTING



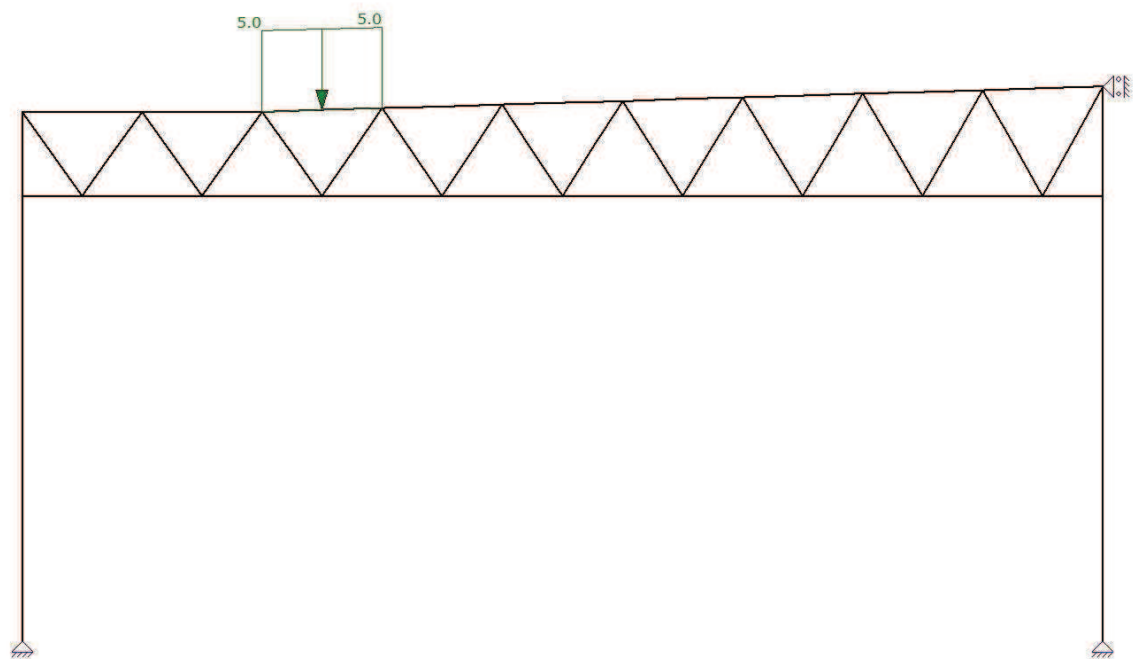
AFB. LASTEN B.G.2 OPGELEGDE BELASTINGEN. VLOER 2, VELD 1



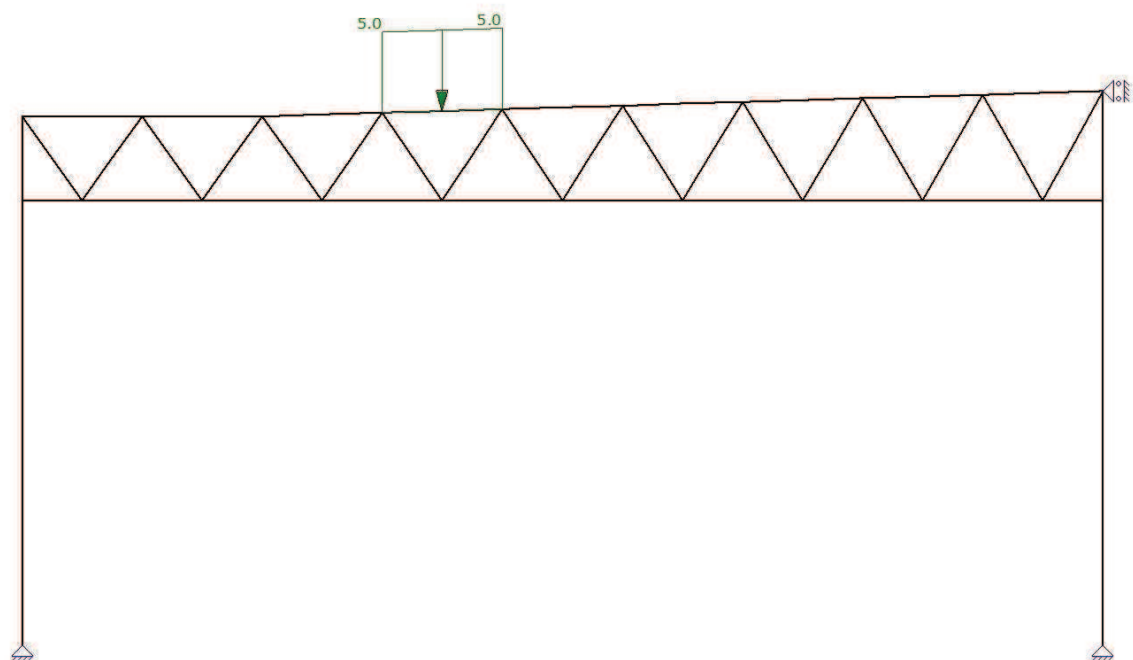
AFB. LASTEN B.G.3 OPGELEGDE BELASTINGEN. VLOER 2, VELD 3



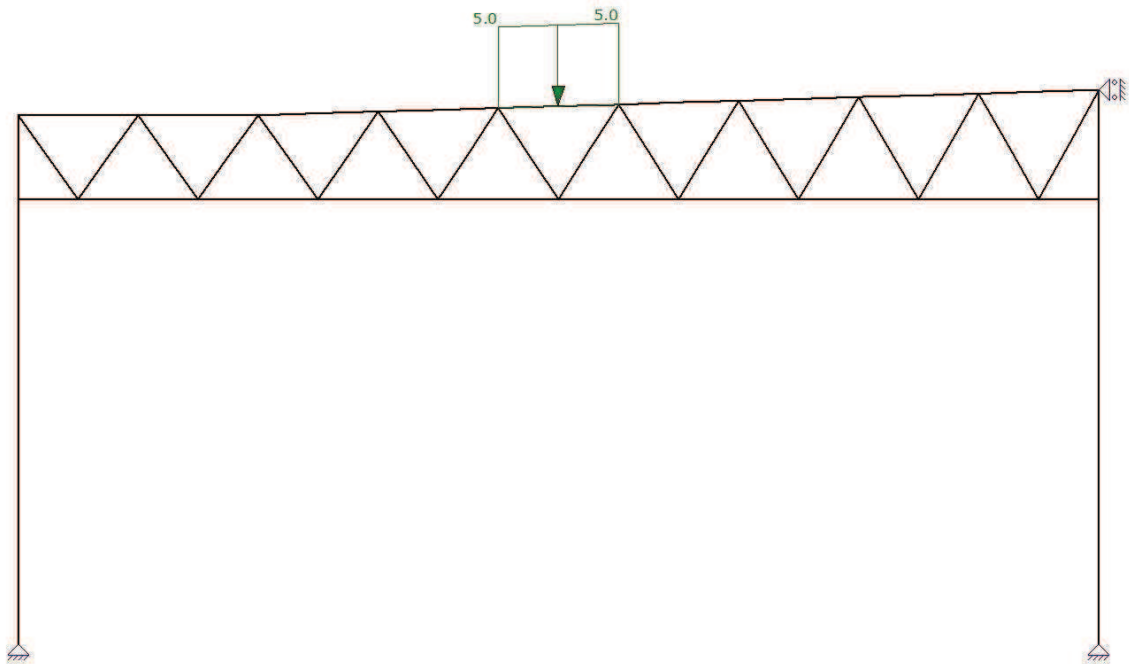
AFB. LASTEN B.G.4 OPGELEGDE BELASTINGEN. VLOER 2, VELD 5



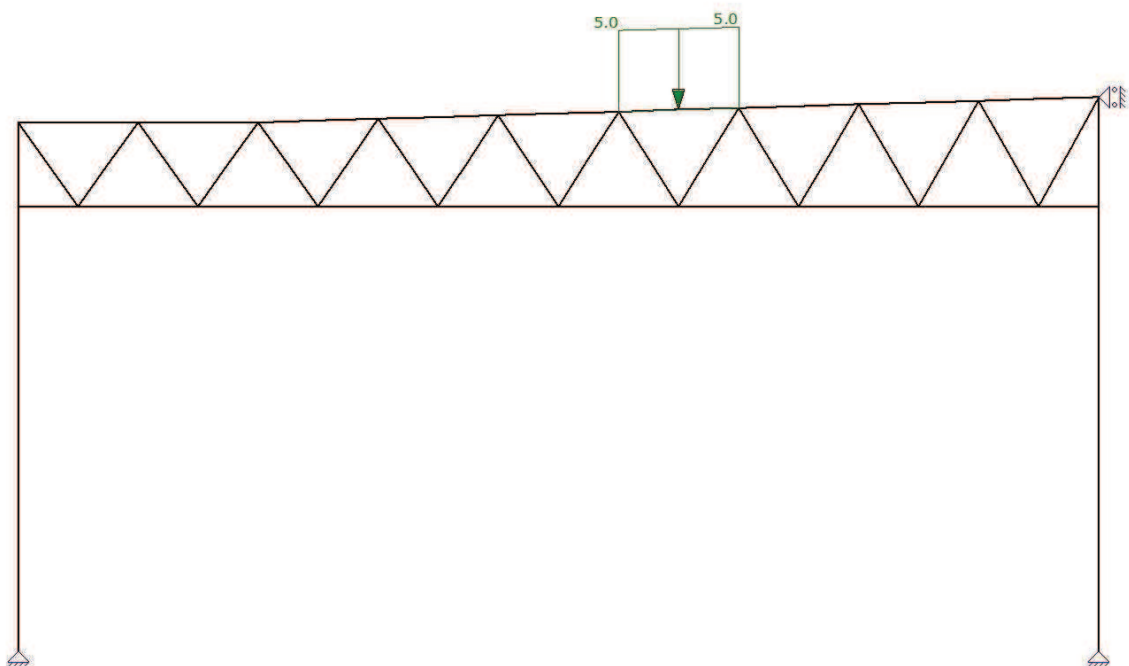
AFB. LASTEN B.G.5 OPGELEGDE BELASTINGEN. VLOER 3, VELD 7



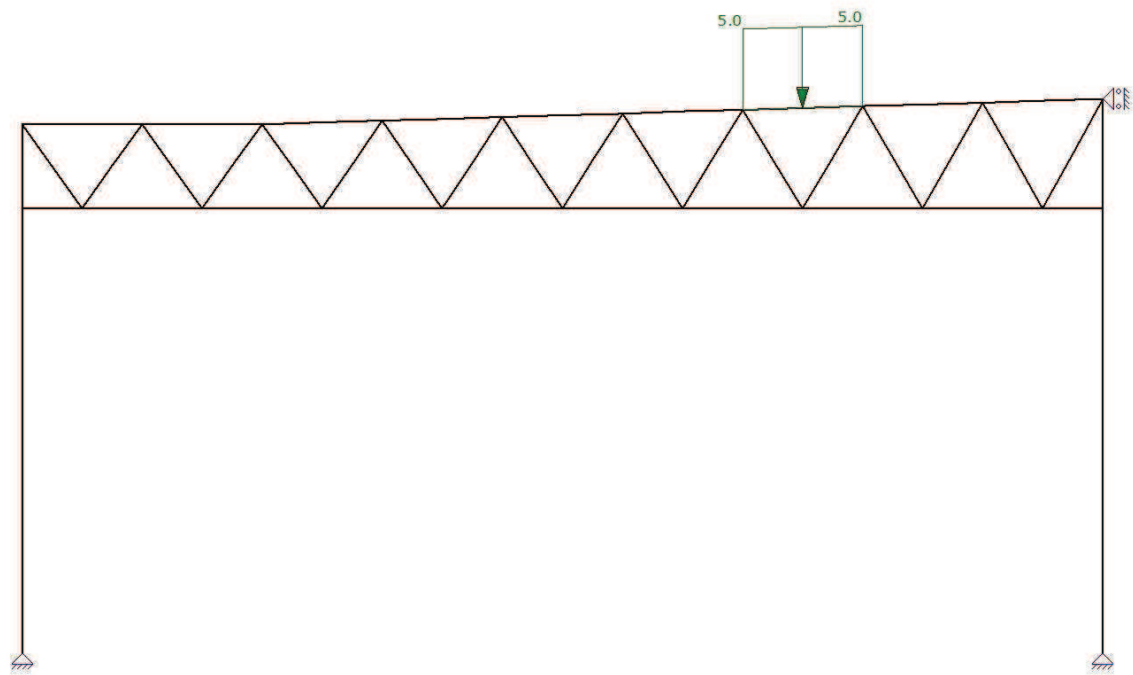
AFB. LASTEN B.G.6 OPGELEGDE BELASTINGEN. VLOER 4, VELD 9



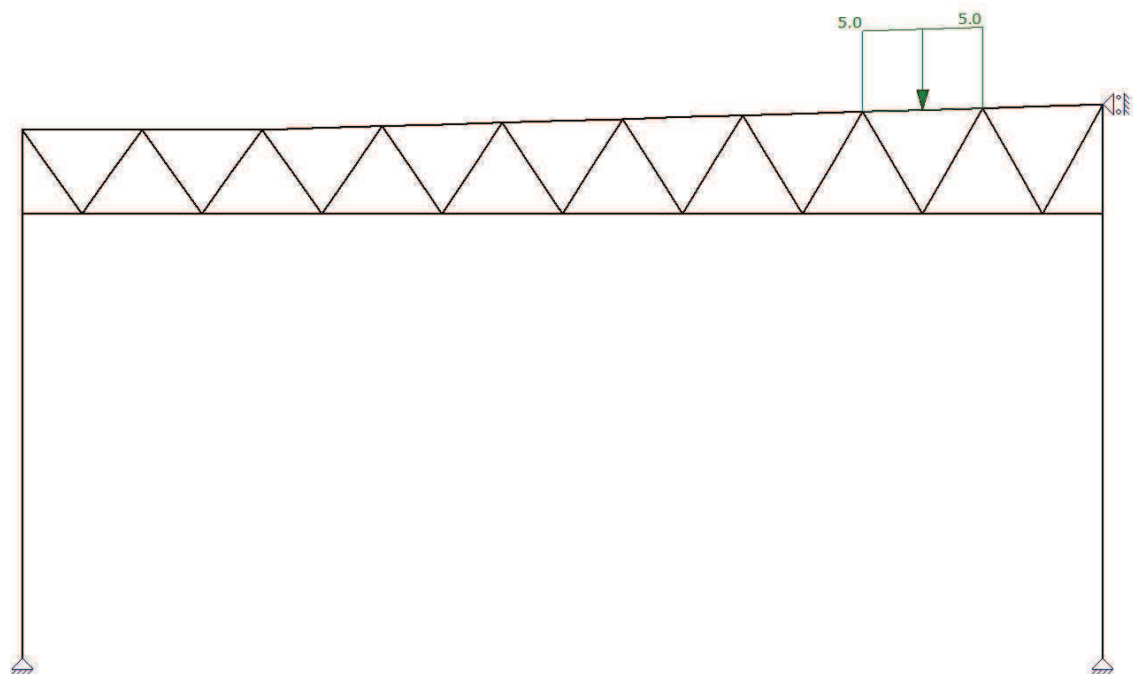
AFB. LASTEN B.G.7 OPGELEGDE BELASTINGEN. VLOER 5, VELD 11



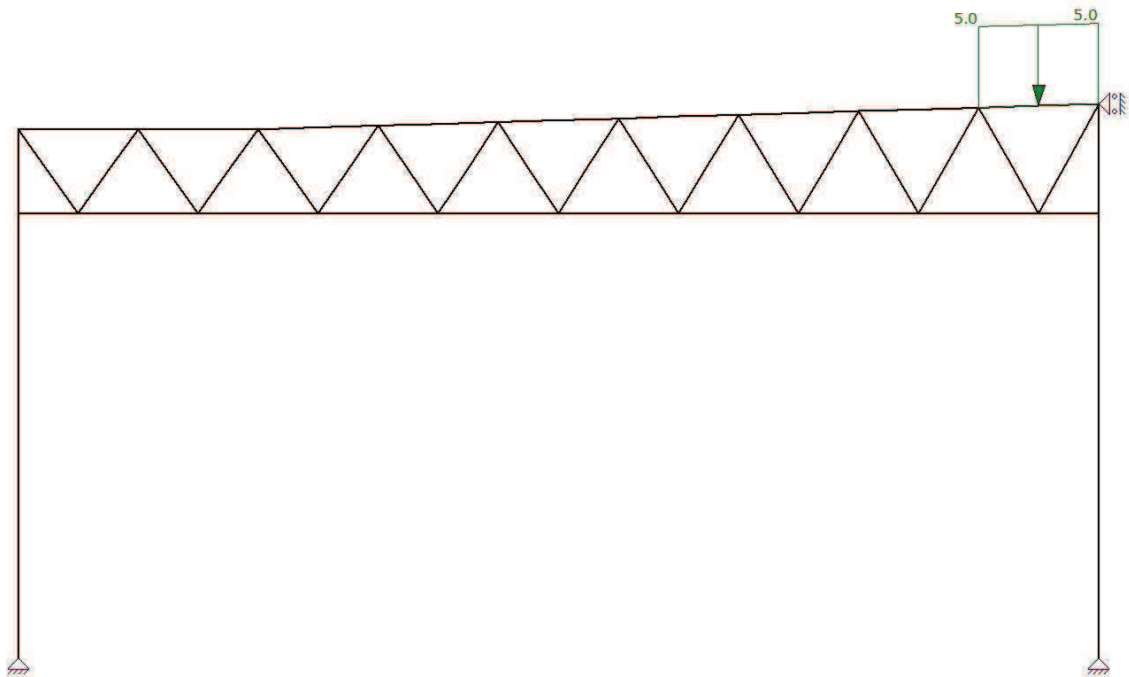
AFB. LASTEN B.G.8 OPGELEGDE BELASTINGEN. VLOER 6, VELD 13



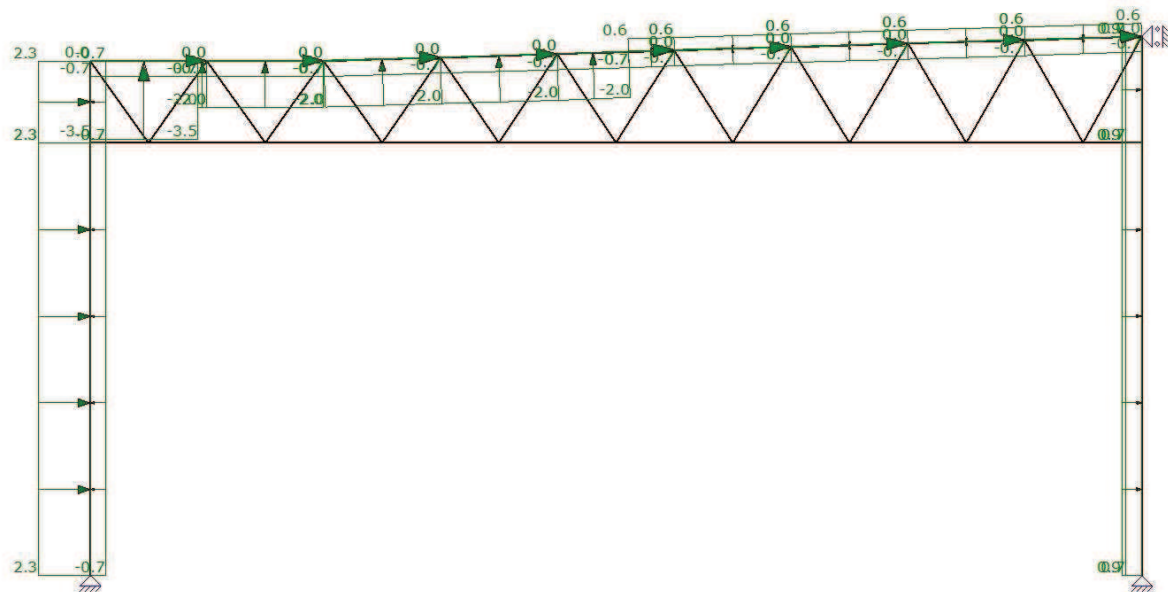
AFB. LASTEN B.G.9 OPGELEGDE BELASTINGEN. VLOER 7, VELD 15



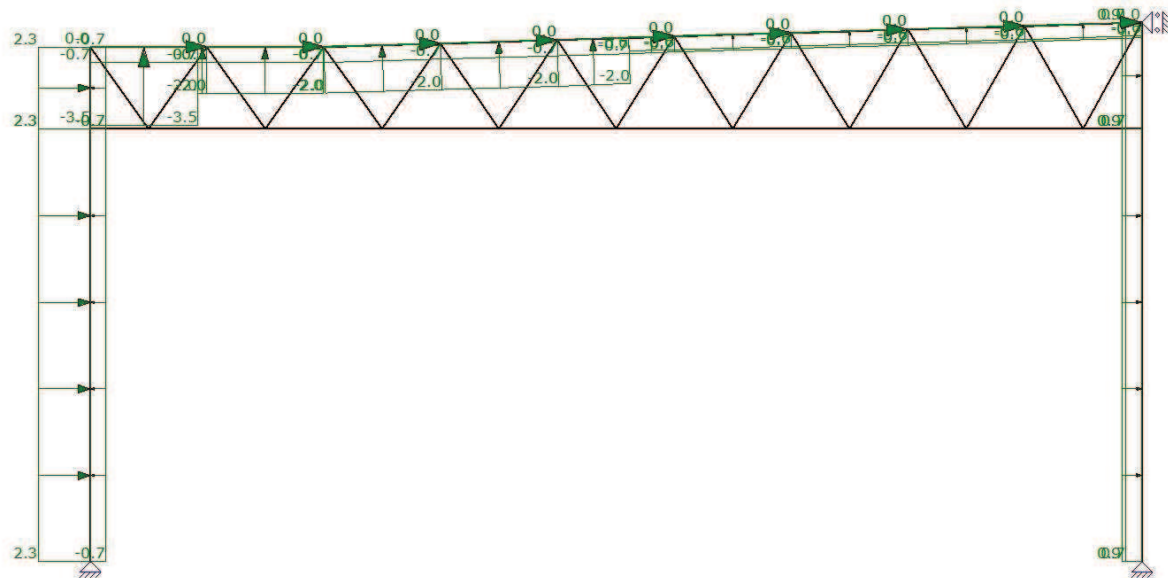
AFB. LASTEN B.G.10 OPGELEGDE BELASTINGEN. VLOER 8, VELD 17



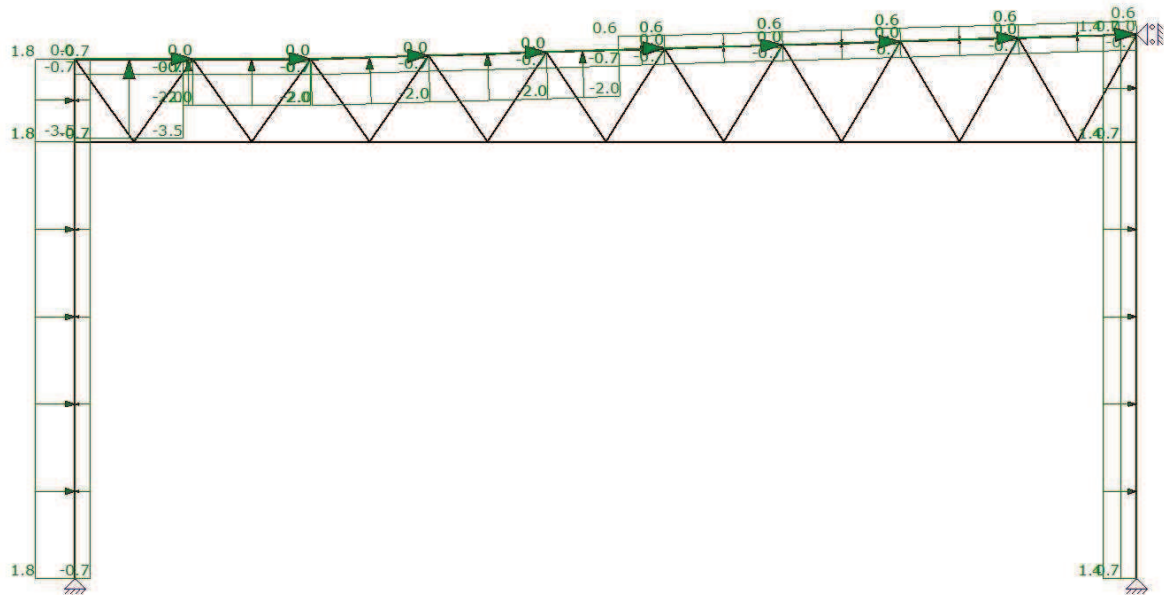
AFB. LASTEN B.G.11 WINDBELASTING VAN LINKS + OVERDRUK



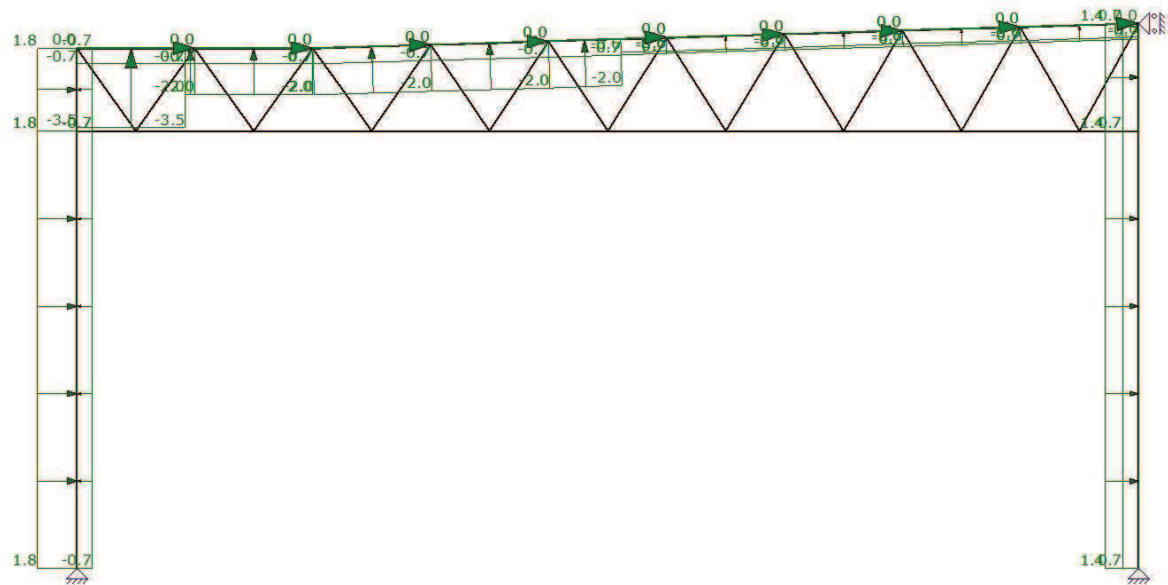
AFB. LASTEN B.G.12 WINDBELASTING VAN LINKS + OVERDRUK (2E CPE)



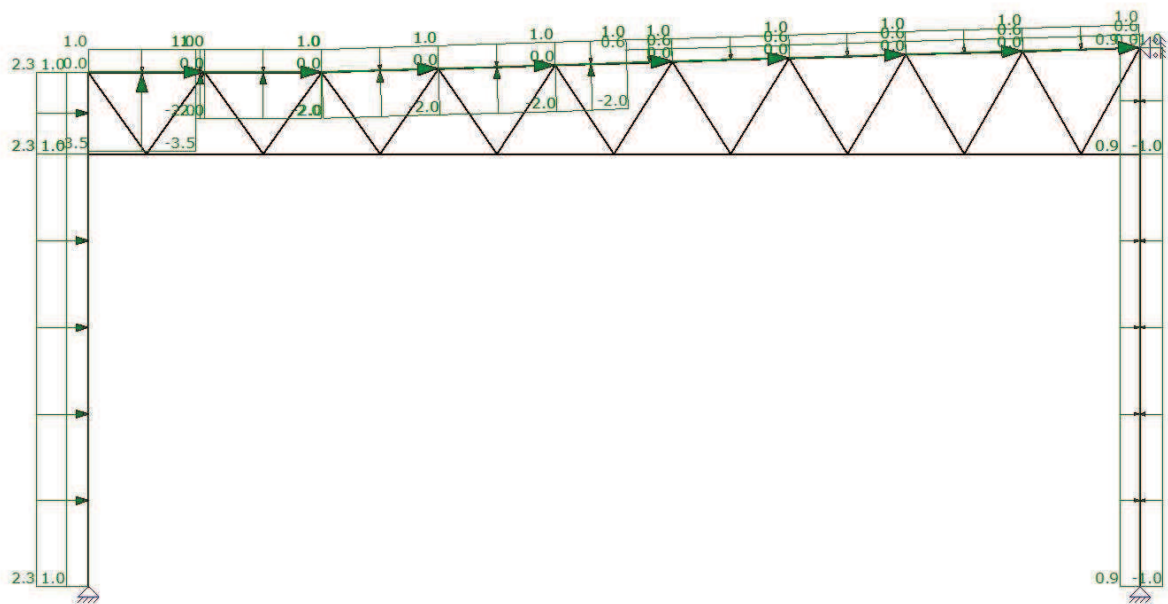
AFB. LASTEN B.G.13 WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



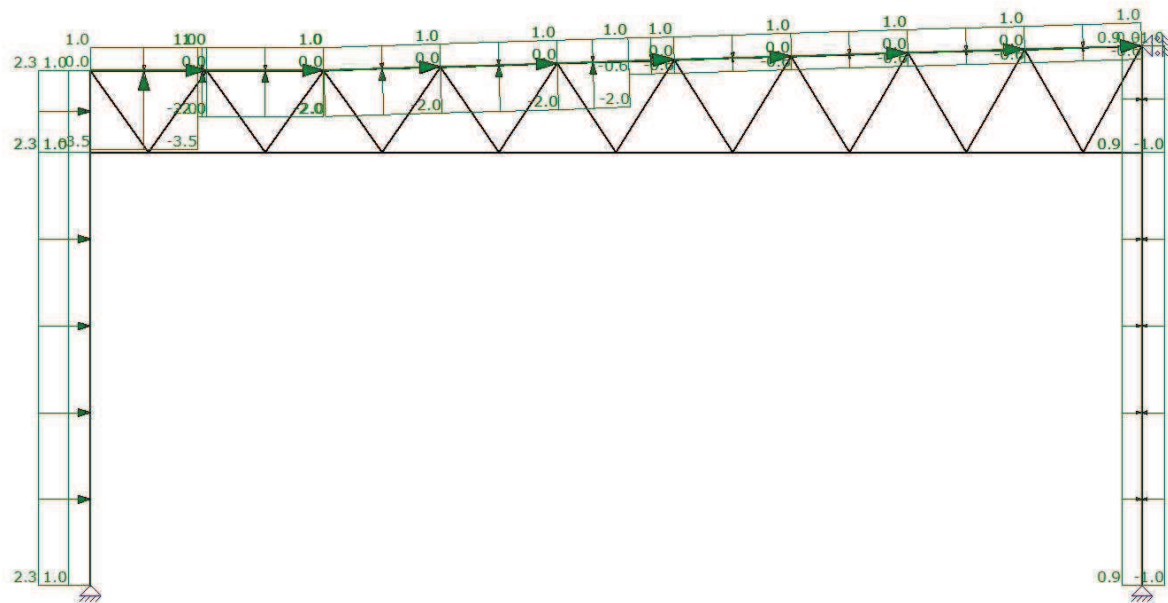
AFB. LASTEN B.G.14 WINDBELASTING VAN LINKS + OVERDRUK (2E CORR. FACTOR)



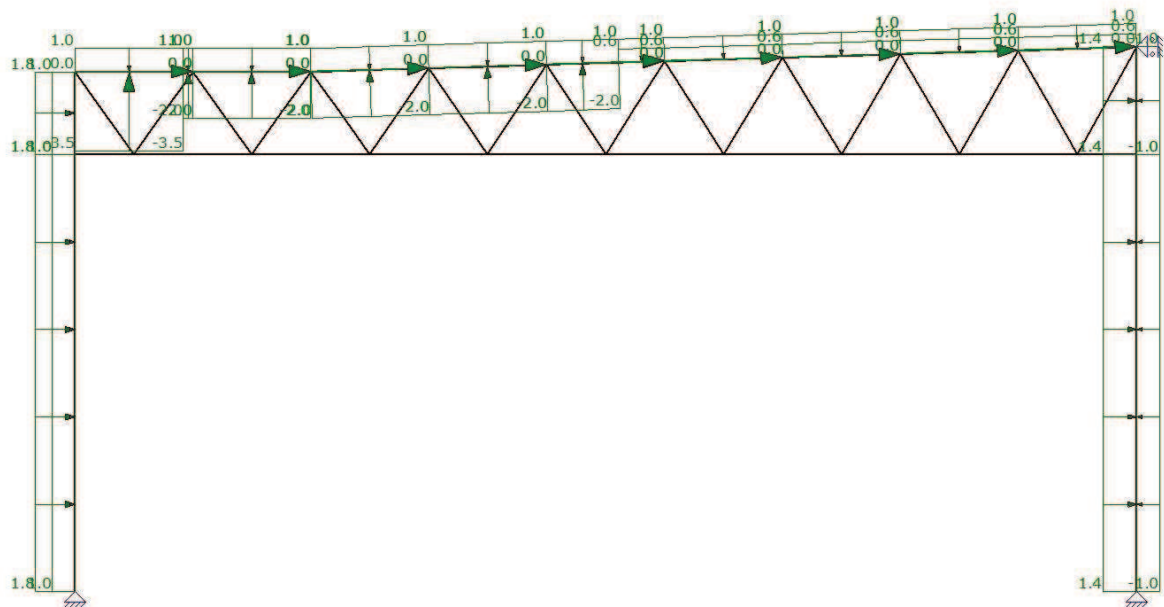
AFB. LASTEN B.G.15 WINDBELASTING VAN LINKS + ONDERDRUK



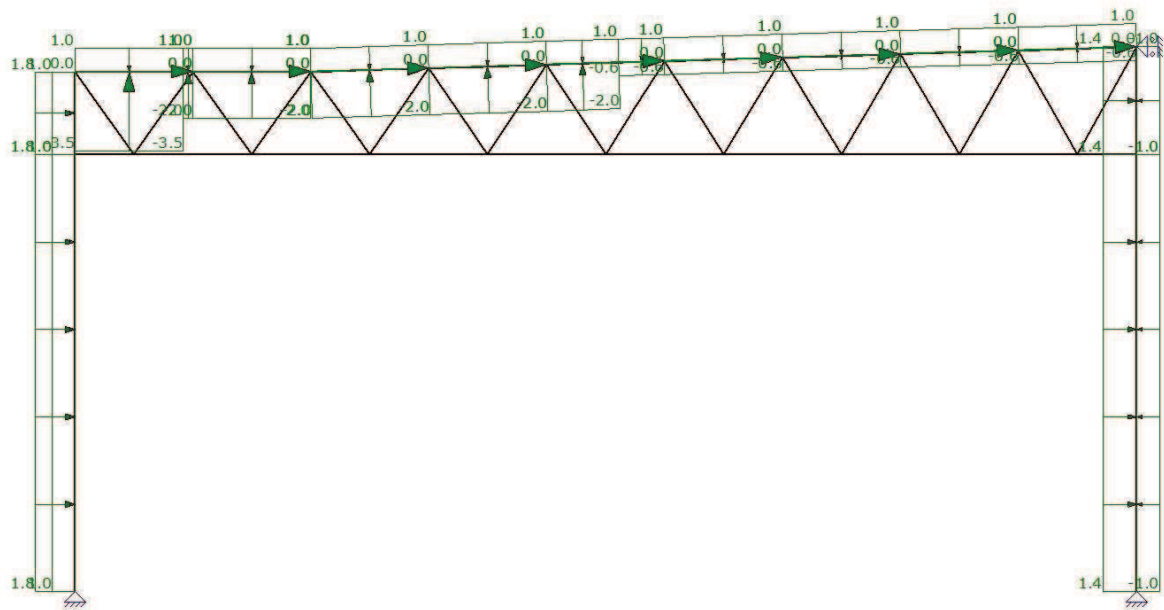
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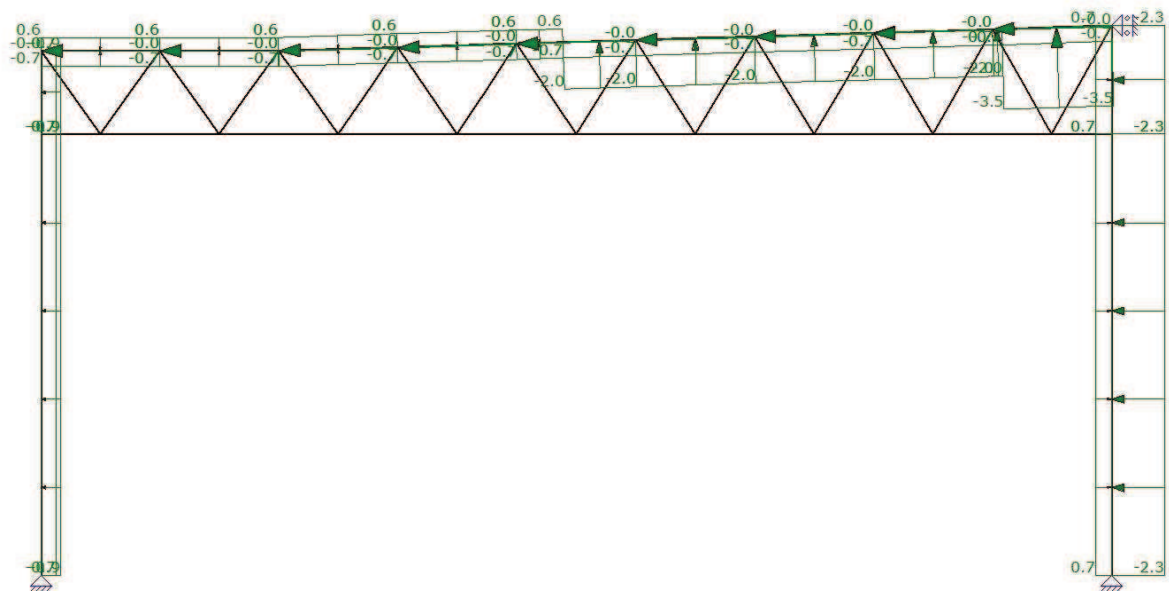
AFB. LASTEN B.G.17 WINDBELASTING VAN LINKS + ONDERDRUK (2E CORR. FACTOR)



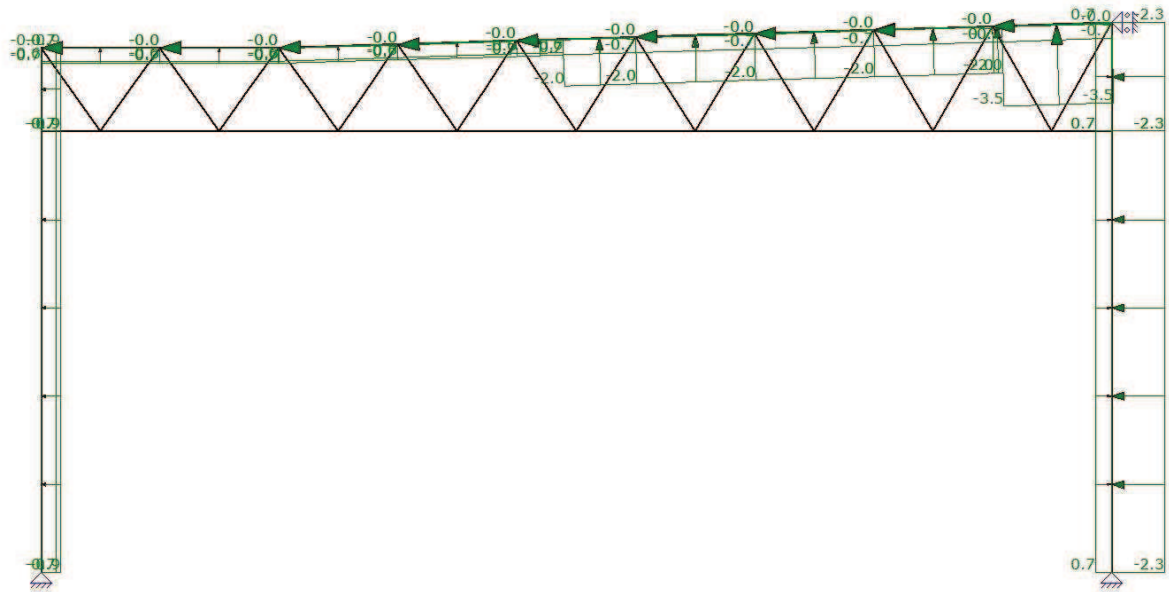
AFB. LASTEN B.G.18 WINDBELASTING VAN LINKS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



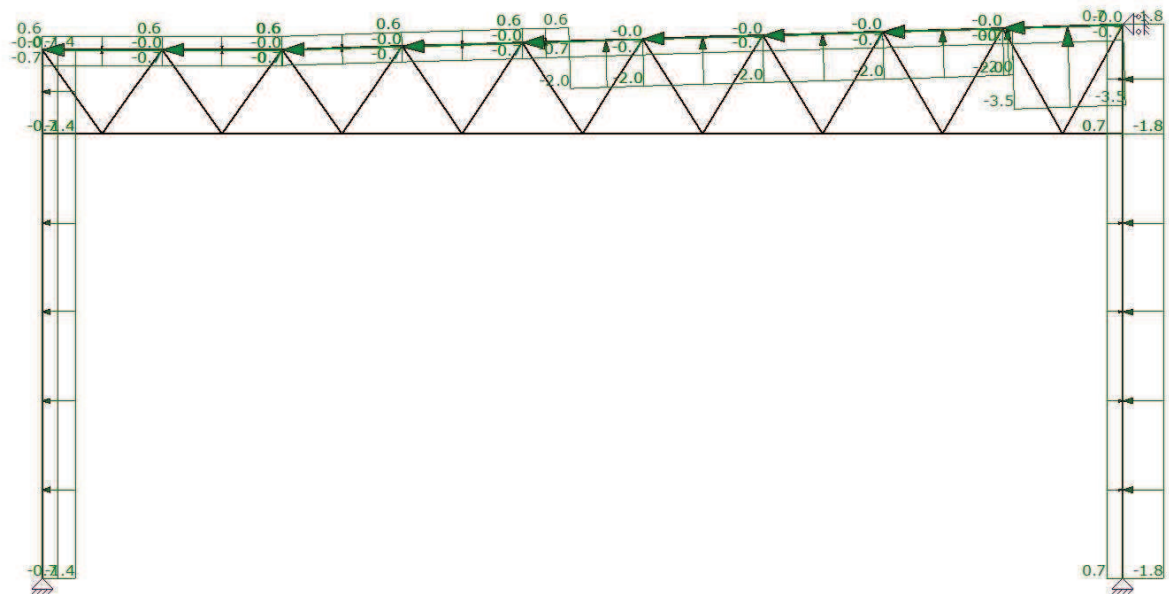
AFB. LASTEN B.G.19 WINDBELASTING VAN RECHTS + OVERDRUK



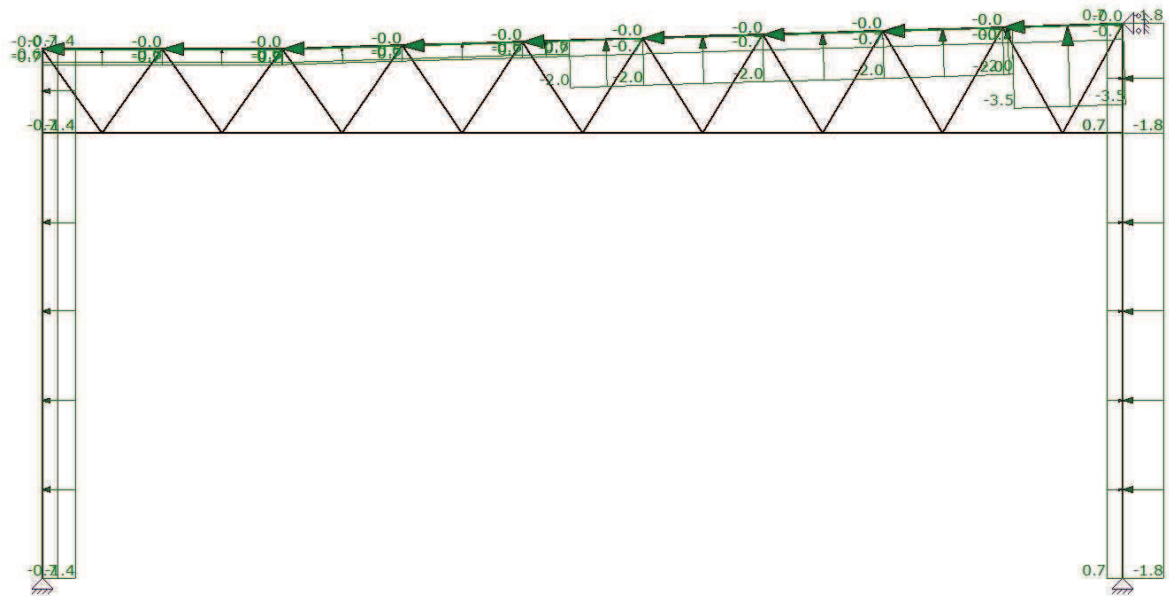
AFB. LASTEN B.G.20 WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE)



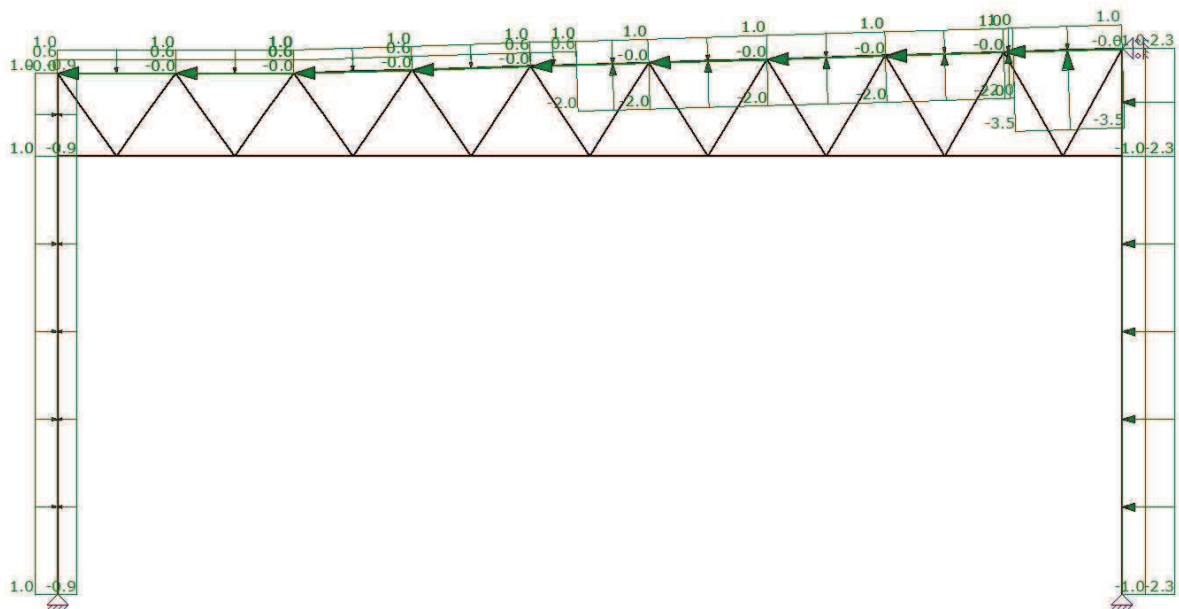
AFB. LASTEN B.G.21 WINDBELASTING VAN RECHTS + OVERDRUK (2E CORR. FACTOR)



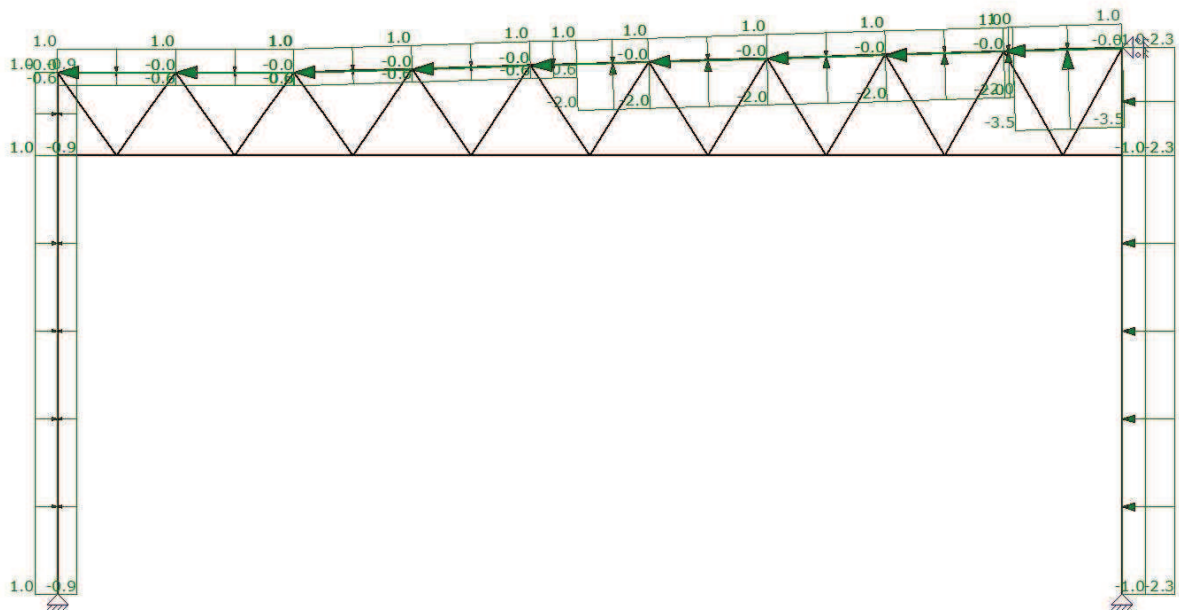
AFB. LASTEN B.G.22 WINDBELASTING VAN RECHTS + OVERDRUK (2E CPE) (2E CORR. FACTOR)



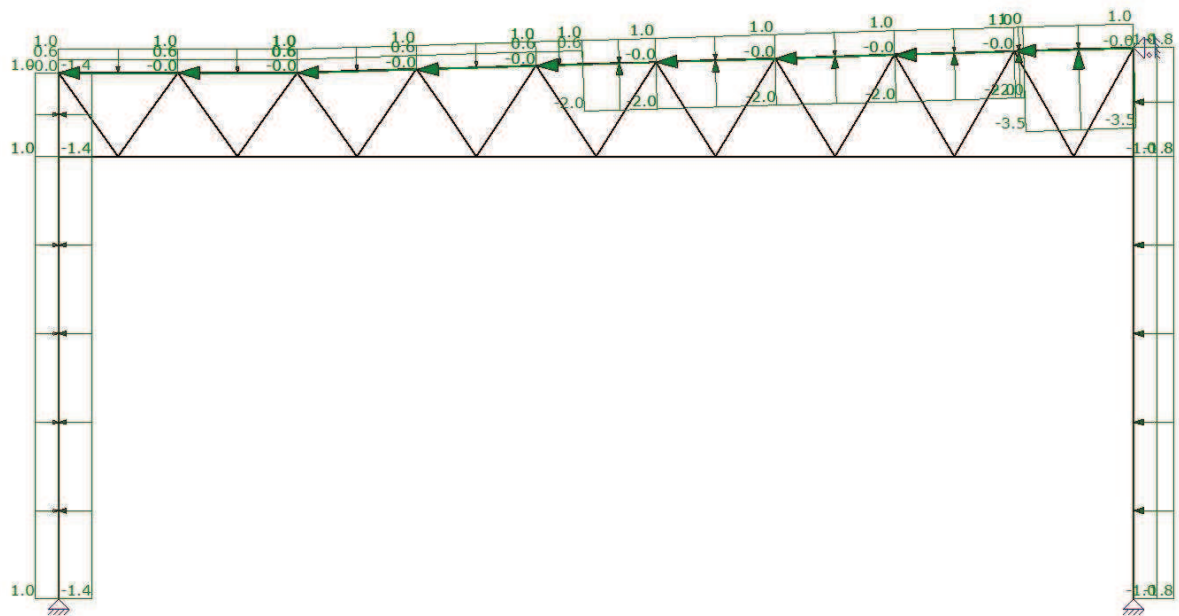
AFB. LASTEN B.G.23 WINDBELASTING VAN RECHTS + ONDERDRUK



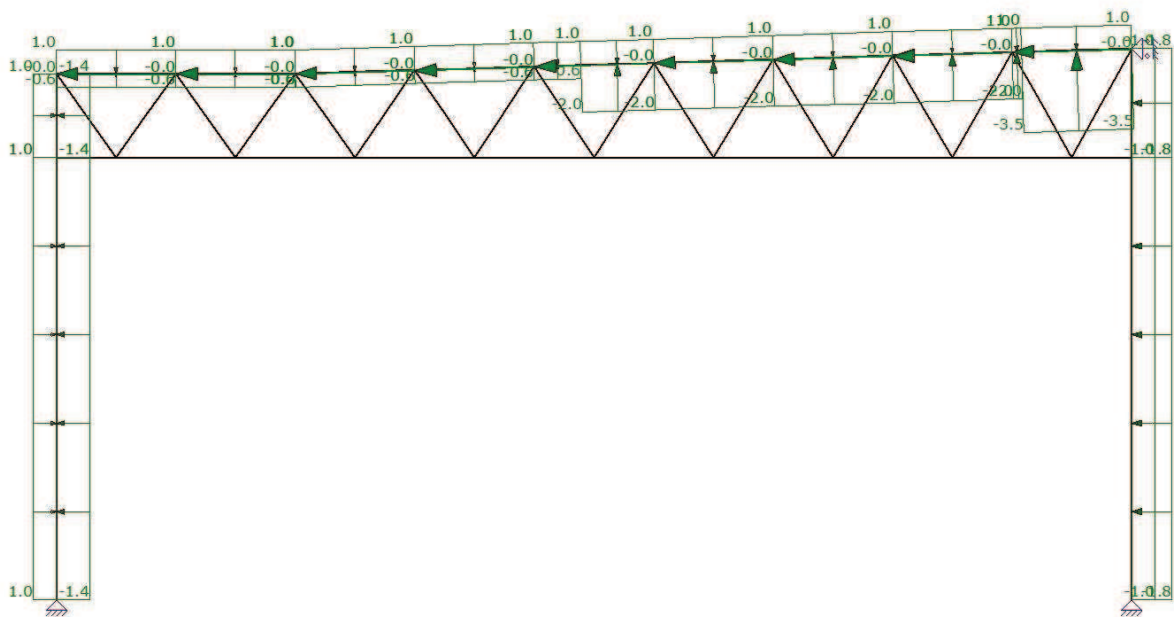
AFB. LASTEN B.G.24 WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE)



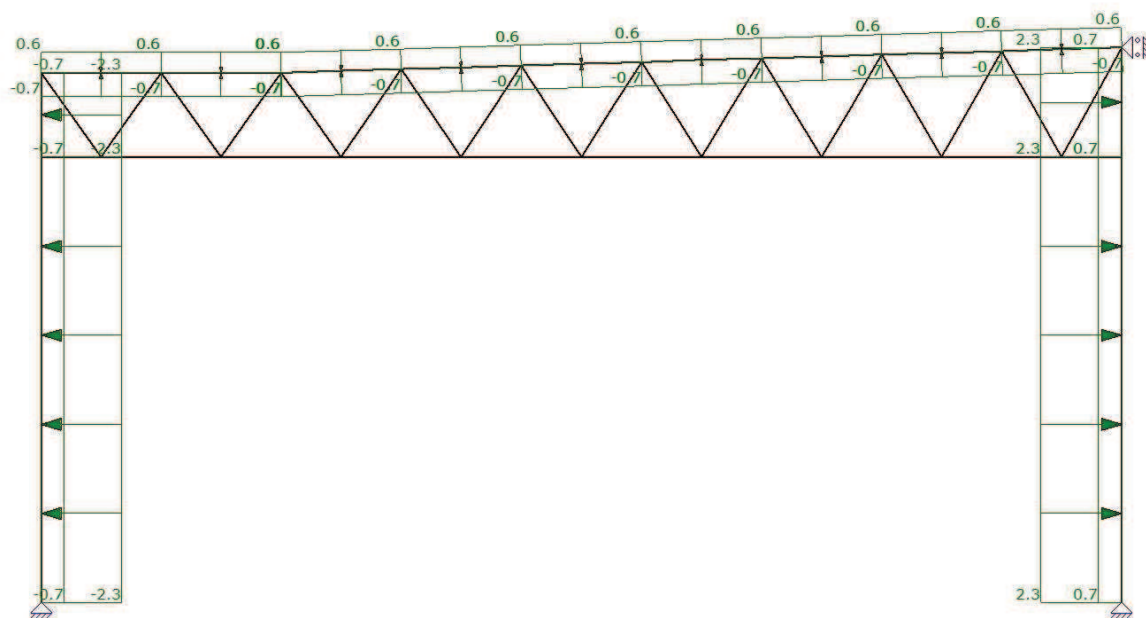
AFB. LASTEN B.G.25 WINDBELASTING VAN RECHTS + ONDERDRUK (2E CORR. FACTOR)



AFB. LASTEN B.G.26 WINDBELASTING VAN RECHTS + ONDERDRUK (2E CPE) (2E CORR. FACTOR)



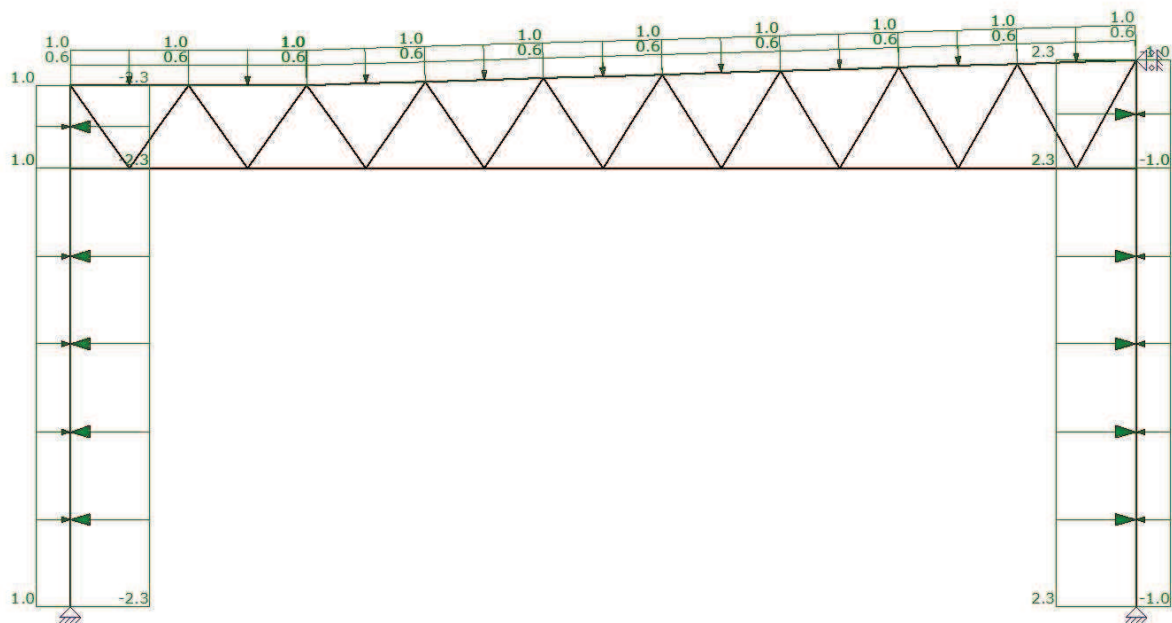
AFB. LASTEN B.G.27 WINDBELASTING VAN VOREN + OVERDRUK



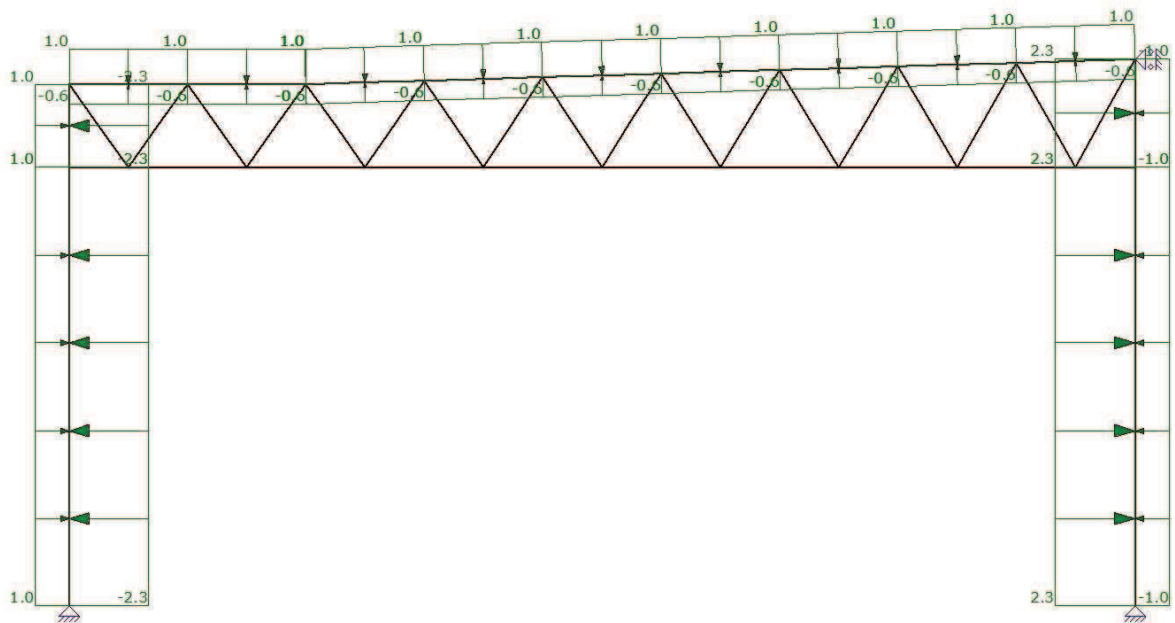
AFB. LASTEN B.G.28 WINDBELASTING VAN VOREN + OVERDRUK (2E CPE)



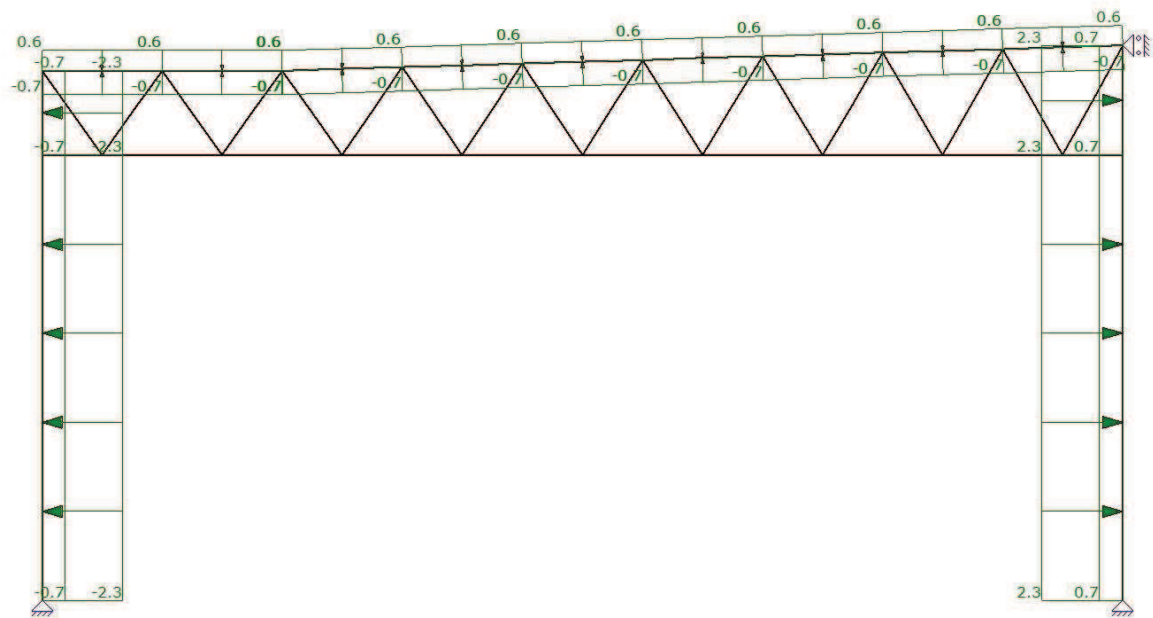
AFB. LASTEN B.G.29 WINDBELASTING VAN VOREN + ONDERDRUK



AFB. LASTEN B.G.30 WINDBELASTING VAN VOREN + ONDERDRUK (2E CPE)



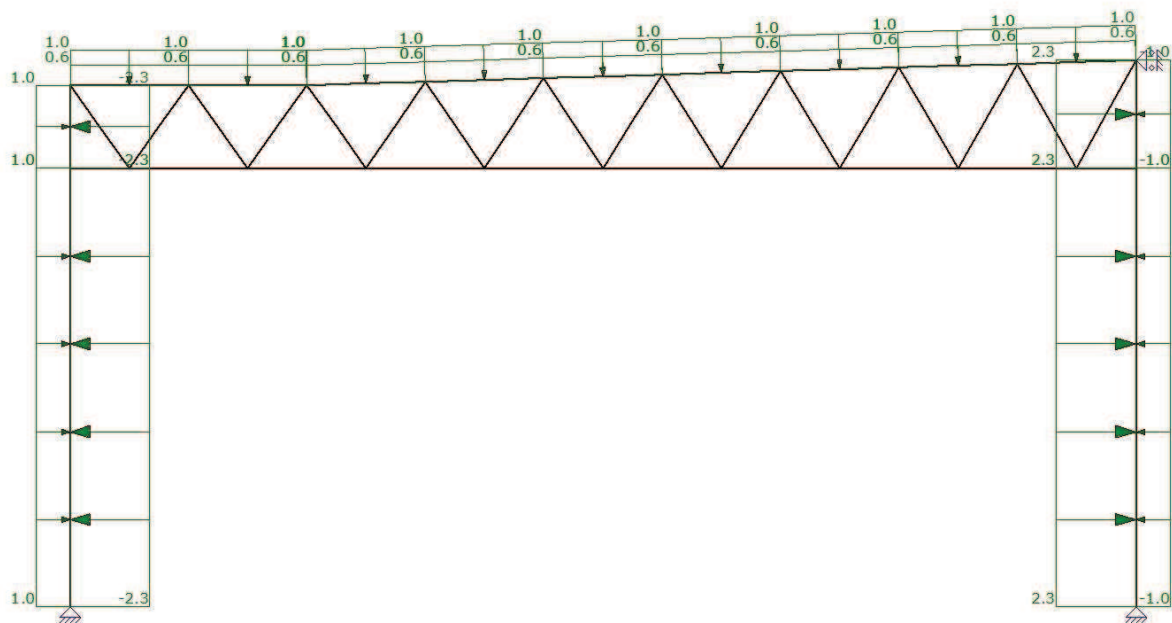
AFB. LASTEN B.G.31 WINDBELASTING VAN ACHTEREN + OVERDRUK



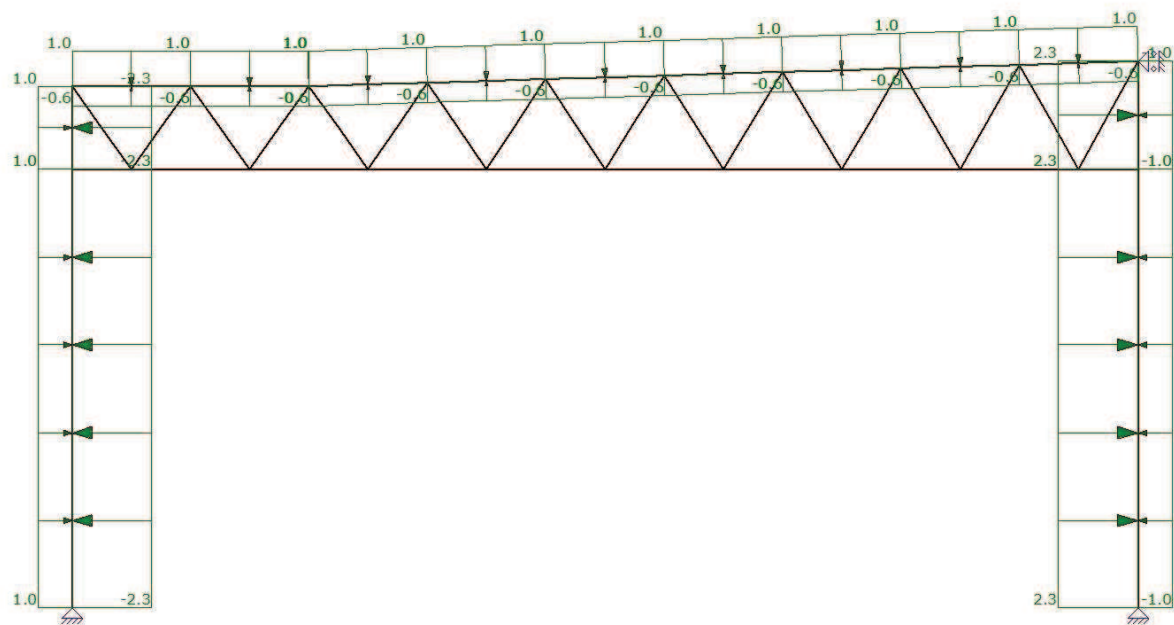
AFB. LASTEN B.G.32 WINDBELASTING VAN ACHTEREN + OVERDRUK (2E CPE)



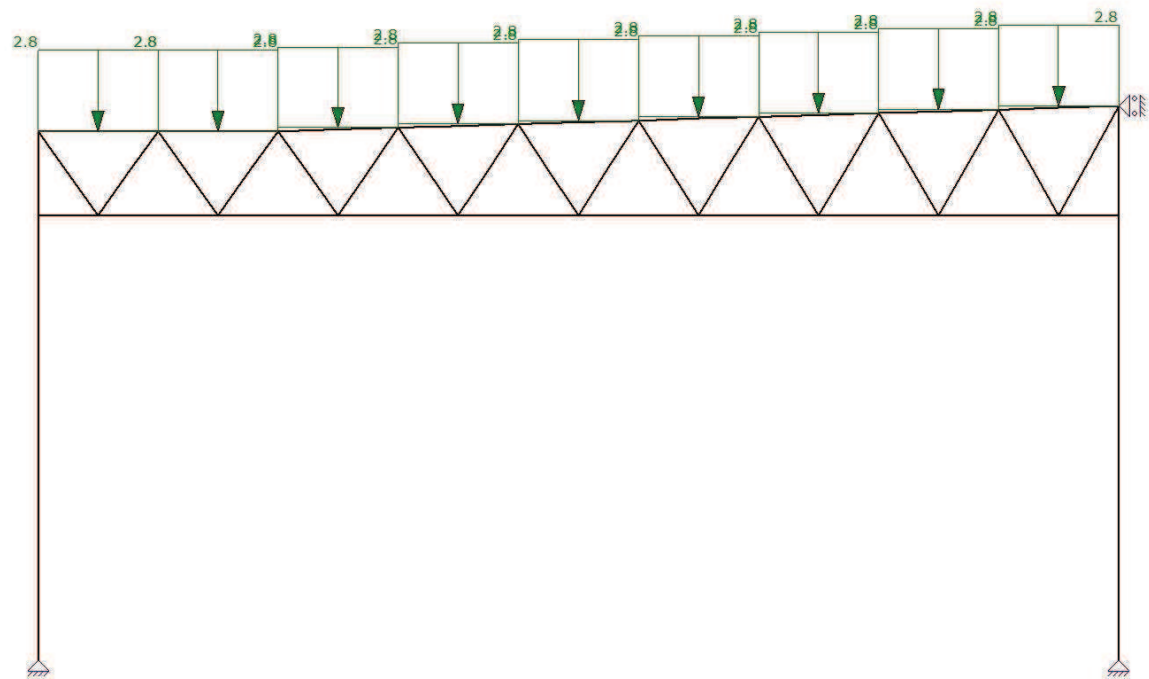
AFB. LASTEN B.G.33 WINDBELASTING VAN ACHTEREN + ONDERDRUK



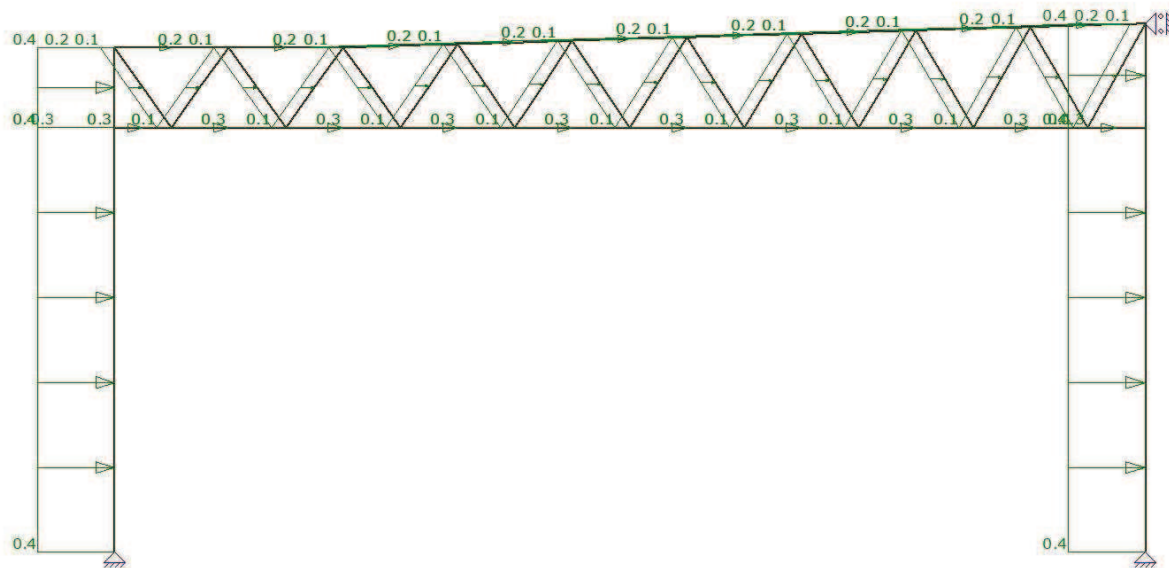
AFB. LASTEN B.G.34 WINDBELASTING VAN ACHTEREN + ONDERDRUK (2E CPE)



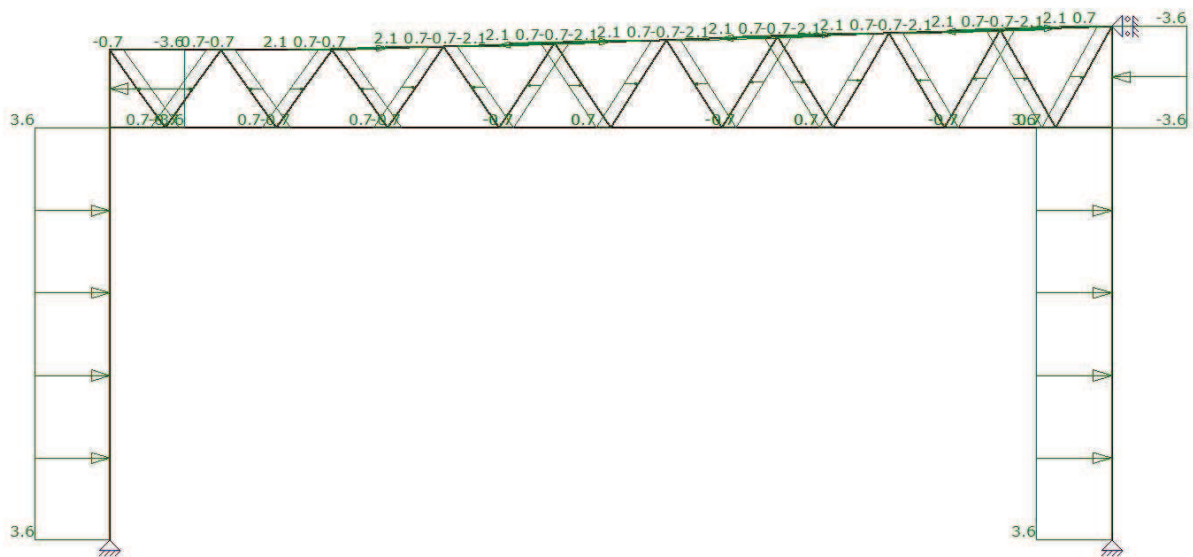
AFB. LASTEN B.G.35 SNEEUWBELASTING 1



AFB. LASTEN B.G.36 KNIKLENGTE (ASYMMETRISCH)



AFB. LASTEN B.G.37 KNIKLENGTE (SYMMETRISCH)



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5	Fu.C.6	Fu.C.7	Fu.C.8
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	1.50	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	1.50	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	1.50	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	1.50	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	1.50	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	1.50	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	1.50	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	1.50	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	1.50	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	1.50	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	1.50	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	1.50	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	1.50	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	1.50	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	1.50	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	1.50
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.9	Fu.C.10	Fu.C.11	Fu.C.12	Fu.C.13	Fu.C.14	Fu.C.15	Fu.C.16
B.G.1	Permanente Belasting	1.20	0.90	0.90	0.90	0.90	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	1.50	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	1.50	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	1.50	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	1.50	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	1.50	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	1.50	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	1.50	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	1.50
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.17	Fu.C.18	Fu.C.19	Fu.C.20	Fu.C.21	Fu.C.22	Fu.C.23	Fu.C.24
B.G.1	Permanente Belasting	1.20	0.90	0.90	1.20	1.20	0.90	0.90	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	1.50	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	1.50	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	1.50	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	1.50	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	1.50	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	1.50	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	1.50	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	1.50
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.25	Fu.C.26	Fu.C.27	Fu.C.28	Fu.C.29	Fu.C.30	Fu.C.31	Fu.C.32
B.G.1	Permanente Belasting	1.20	1.20	1.35	0.90	1.20	1.20	1.20	1.20
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	1.50	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	1.50	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	1.50	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	1.50	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	1.50
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	1.50	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	1.50	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fu.C.33	Fu.C.34	Fu.C.35	Fu.C.36	Fu.C.37			
B.G.1	Permanente Belasting	1.20	1.20	1.20	1.20	1.20			
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	1.50			
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	1.50			
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	1.50			
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-			
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-			
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	1.50	-	-	-	-			
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	1.50	-	-	-			
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	1.50	-	-			
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	1.50	-			
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-			
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-			
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-			
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-			
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-			
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-			
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-			
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-			
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-			
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-			
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-			
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-			
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-			
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-			
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-			
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-			
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-			
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-			
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-			
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-			
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-			
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-			
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-			
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-			
B.G.35	Sneeuwbelasting 1	-	-	-	-	-			

Spant as WW (ontvangst)	Novares Constructeurs	
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B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3	Ka.C.4	Ka.C.5	Ka.C.6	Ka.C.7
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	1.00	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	1.00	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	1.00	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	1.00	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	1.00	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	1.00	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	1.00
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.8	Ka.C.9	Ka.C.10	Ka.C.11	Ka.C.12	Ka.C.13	Ka.C.14	Ka.C.15
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	1.00	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	1.00	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	1.00	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	1.00	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	1.00	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	1.00	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	1.00	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	1.00	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	1.00	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	1.00
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.16	Ka.C.17	Ka.C.18	Ka.C.19	Ka.C.20	Ka.C.21	Ka.C.22	Ka.C.23
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	1.00	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	1.00	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	1.00	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	1.00	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	1.00	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	1.00	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	1.00	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	1.00
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.24	Ka.C.25	Ka.C.26	Ka.C.27	Ka.C.28	Ka.C.29	Ka.C.30	Ka.C.31
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
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B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	1.00	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	1.00	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	1.00	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	1.00	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	1.00	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	1.00	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	1.00	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	1.00
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Ka.C.32	Ka.C.33	Ka.C.34	Ka.C.35				
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00				
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-				
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-				
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-				
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-				
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-				
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-				
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-				
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-				
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-				
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-				
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-				
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-				
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-				
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-				
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-				
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-				
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-				
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-				
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-				
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-				

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-				
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-				
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-				
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-				
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-				
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-				
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-				
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	1.00	-	-	-				
B.G.33	Windbelasting van Achteren + Onderdruk	-	1.00	-	-				
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	1.00	-				
B.G.35	Sneeuwbelasting 1	-	-	-	1.00				
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-				
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-				

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1	Fr.C.2	Fr.C.3	Fr.C.4	Fr.C.5	Fr.C.6	Fr.C.7
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	0.20	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	0.20	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	0.20	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	0.20	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	0.20	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	0.20
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.8	Fr.C.9	Fr.C.10	Fr.C.11	Fr.C.12	Fr.C.13	Fr.C.14	Fr.C.15
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
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B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	0.20	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	0.20	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	0.20	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	0.20	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	0.20	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	0.20	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	0.20	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	0.20
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	-	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	-	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	-	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.16	Fr.C.17	Fr.C.18	Fr.C.19	Fr.C.20	Fr.C.21	Fr.C.22	Fr.C.23
B.G.1	Permanente Belasting	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-	-	-	-	-	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-	-	-	-	-	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-	-	-	-	-	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-	-	-	-	-	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-	-	-	-	-	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-	-	-	-	-	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-	-	-	-	-	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-	-	-	-	-	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-	-	-	-	-	-
B.G.11	Windbelasting van Links + Overdruk	-	-	-	-	-	-	-	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.15	Windbelasting van Links + Onderdruk	-	-	-	-	-	-	-	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-	-	-	-	-	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-	-	-	-	-	-
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-	-	-	-	-	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	0.20	-	-	-	-	-	-	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	0.20	-	-	-	-	-	-
B.G.27	Windbelasting van Voren + Overdruk	-	-	0.20	-	-	-	-	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-	0.20	-	-	-	-

Spant as WW (ontvangst)		Novares Constructeurs							
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-	-	0.20	-	-	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-	-	-	0.20	-	-
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-	-	-	-	0.20	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-	-	-	-	-	0.20
B.G.33	Windbelasting van Achteren + Onderdruk	-	-	-	-	-	-	-	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	-	-	-	-	-	-	-
B.G.35	Sneeuwbelasting 1	-	-	-	-	-	-	-	-
B.G.36	Kniklengte (Assymetrisch)	-	-	-	-	-	-	-	-
B.G.37	Kniklengte (Symmetrisch)	-	-	-	-	-	-	-	-
B.G.	Omschrijving	Fr.C.24	Fr.C.25	Fr.C.26					
B.G.1	Permanente Belasting	1.00	1.00	1.00					
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-	-	-					
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-	-	-					
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-	-	-					
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-	-	-					
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-	-	-					
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-	-	-					
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-	-	-					
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-	-	-					
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-	-	-					
B.G.11	Windbelasting van Links + Overdruk	-	-	-					
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-	-	-					
B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-	-	-					
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-	-	-					
B.G.15	Windbelasting van Links + Onderdruk	-	-	-					
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-	-	-					
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-	-	-					
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-					
B.G.19	Windbelasting van Rechts + Overdruk	-	-	-					
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-	-	-					
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-	-	-					
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-	-	-					
B.G.23	Windbelasting van Rechts + Onderdruk	-	-	-					
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-	-	-					
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-	-	-					
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-	-	-					
B.G.27	Windbelasting van Voren + Overdruk	-	-	-					
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-	-	-					
B.G.29	Windbelasting van Voren + Onderdruk	-	-	-					
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-	-	-					
B.G.31	Windbelasting van Achteren + Overdruk	-	-	-					
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-	-	-					
B.G.33	Windbelasting van Achteren + Onderdruk	0.20	-	-					
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-	0.20	-					
B.G.35	Sneeuwbelasting 1	-	-	0.20					
B.G.36	Kniklengte (Assymetrisch)	-	-	-					
B.G.37	Kniklengte (Symmetrisch)	-	-	-					

QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanente Belasting	1.00
B.G.2	Opgelegde belastingen. Vloer 2, Veld 1	-
B.G.3	Opgelegde belastingen. Vloer 2, Veld 3	-
B.G.4	Opgelegde belastingen. Vloer 2, Veld 5	-
B.G.5	Opgelegde belastingen. Vloer 3, Veld 7	-
B.G.6	Opgelegde belastingen. Vloer 4, Veld 9	-
B.G.7	Opgelegde belastingen. Vloer 5, Veld 11	-
B.G.8	Opgelegde belastingen. Vloer 6, Veld 13	-
B.G.9	Opgelegde belastingen. Vloer 7, Veld 15	-
B.G.10	Opgelegde belastingen. Vloer 8, Veld 17	-
B.G.11	Windbelasting van Links + Overdruk	-
B.G.12	Windbelasting van Links + Overdruk (2e Cpe)	-

B.G.13	Windbelasting van Links + Overdruk (2e corr. factor)	-
B.G.14	Windbelasting van Links + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.15	Windbelasting van Links + Onderdruk	-
B.G.16	Windbelasting van Links + Onderdruk (2e Cpe)	-
B.G.17	Windbelasting van Links + Onderdruk (2e corr. factor)	-
B.G.18	Windbelasting van Links + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.19	Windbelasting van Rechts + Overdruk	-
B.G.20	Windbelasting van Rechts + Overdruk (2e Cpe)	-
B.G.21	Windbelasting van Rechts + Overdruk (2e corr. factor)	-
B.G.22	Windbelasting van Rechts + Overdruk (2e Cpe) (2e corr. factor)	-
B.G.23	Windbelasting van Rechts + Onderdruk	-
B.G.24	Windbelasting van Rechts + Onderdruk (2e Cpe)	-
B.G.25	Windbelasting van Rechts + Onderdruk (2e corr. factor)	-
B.G.26	Windbelasting van Rechts + Onderdruk (2e Cpe) (2e corr. factor)	-
B.G.27	Windbelasting van Voren + Overdruk	-
B.G.28	Windbelasting van Voren + Overdruk (2e Cpe)	-
B.G.29	Windbelasting van Voren + Onderdruk	-
B.G.30	Windbelasting van Voren + Onderdruk (2e Cpe)	-
B.G.31	Windbelasting van Achteren + Overdruk	-
B.G.32	Windbelasting van Achteren + Overdruk (2e Cpe)	-
B.G.33	Windbelasting van Achteren + Onderdruk	-
B.G.34	Windbelasting van Achteren + Onderdruk (2e Cpe)	-
B.G.35	Sneeuwbelasting 1	-
B.G.36	Kniklengte (Assymetrisch)	-
B.G.37	Kniklengte (Symmetrisch)	-

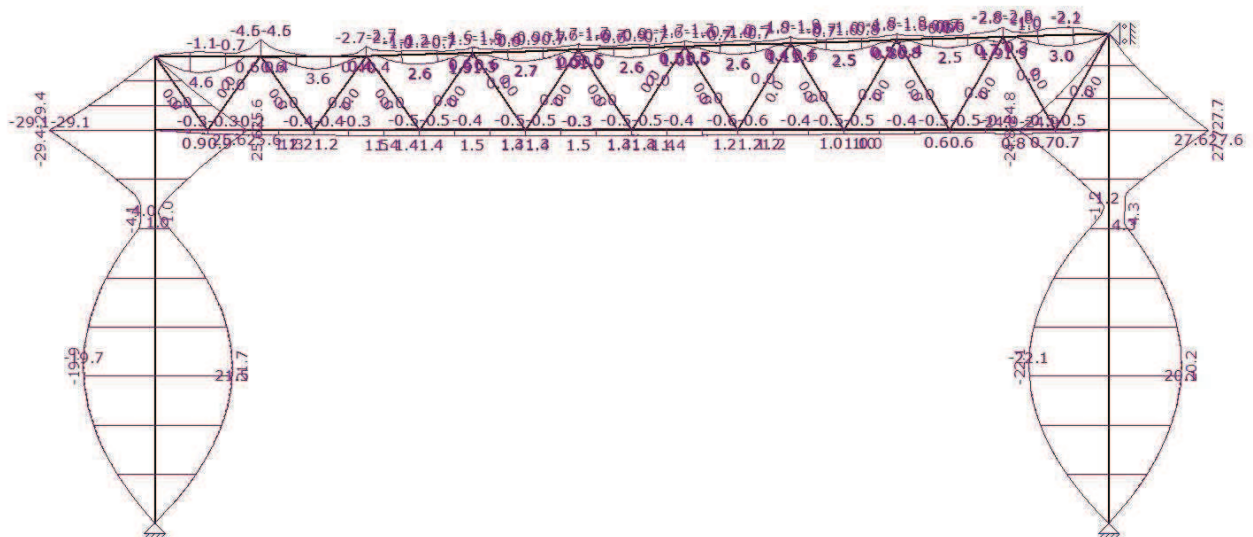
UITGANGSPUNTEN VAN DE ANALYSE

Geavanceerde Analyse

GNL analyse (P-delta + N-kracht correctie)

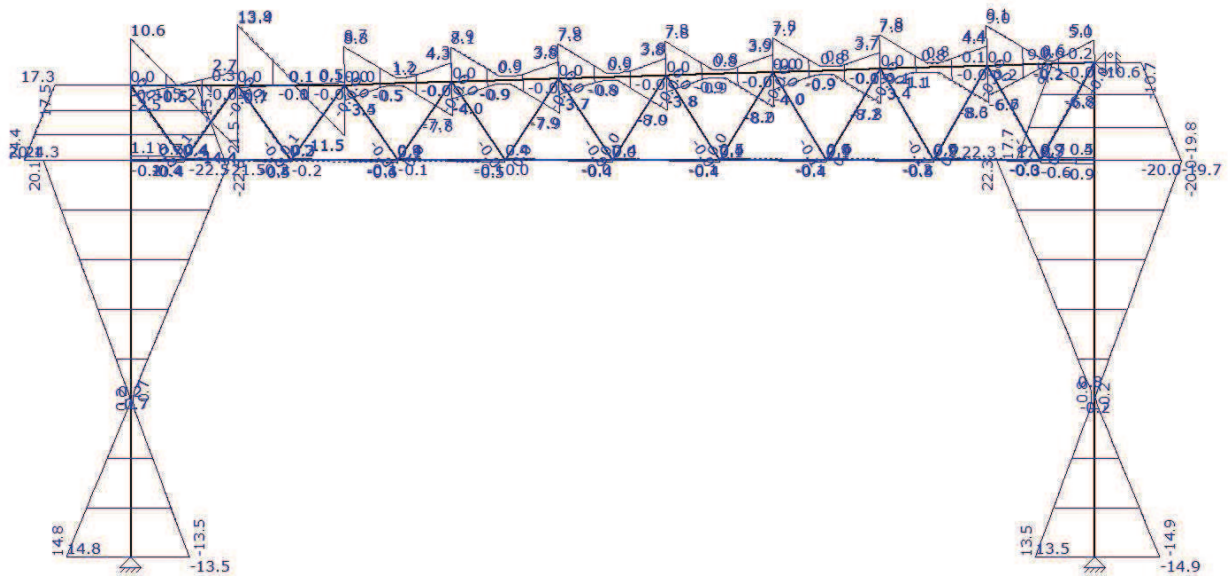
AFB. FU.C. MOMENT (MY) OMHULLENDE

Fundamenteel Belastingscombinaties



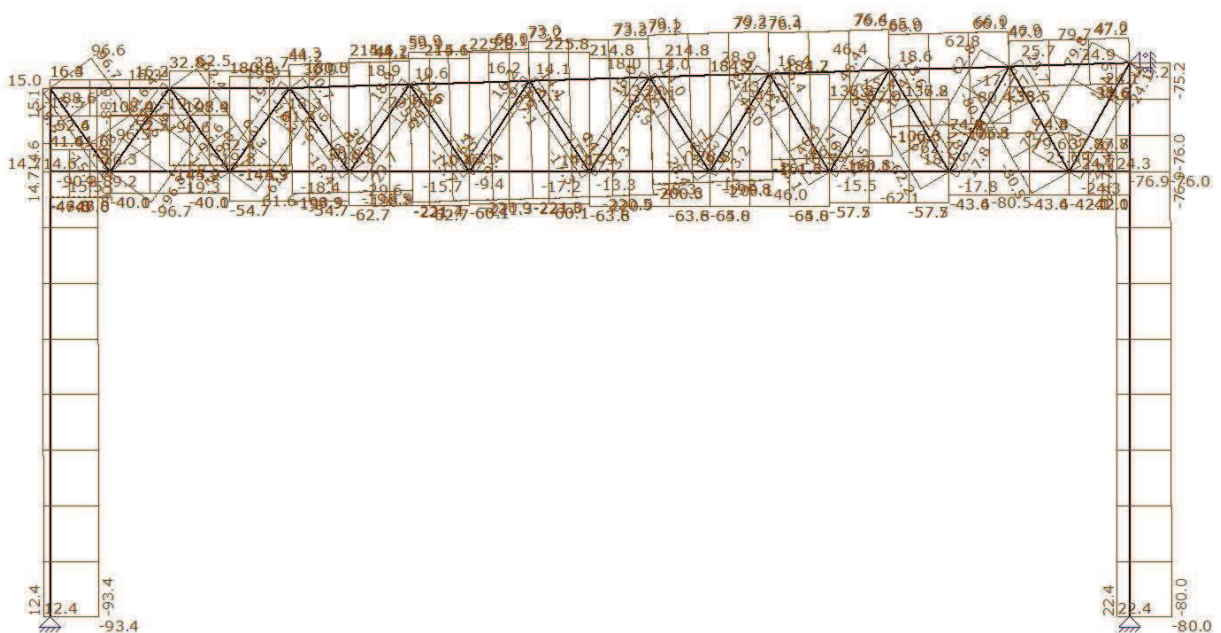
AFB. FU.C. DWARSKRACHT (VZ) OMHULLENDE

Fundamenteel Belastingscombinaties



AFB. FU.C. NORMAALKRACHT (NX) OMHULLENDE

Fundamenteel Belastingscombinaties



FU.C. STAAFKRACHTEN ANALYSE

Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S4	Fu.C.1	0.00			-4.92	0.000	0.000 D	-93.37	-0.78	-0.78	-0.46
	Fu.C.2	0.00	10.82	2.960	-13.08	0.000	0.000 T	11.01	7.28	-10.83	-10.83
	Fu.C.3	0.00	10.95	2.960	-12.65	0.000	0.000 T	14.74	7.32	-10.77	-10.77
	Fu.C.4	0.00	7.16	2.960	-8.37	0.000	0.000 T	11.01	4.79	-7.07	-7.07
	Fu.C.5	0.00	7.30	2.960	-7.95	0.000	0.000 T	14.73	4.83	-7.00	-7.00

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S4	Fu.C.6	0.00	21.56	2.960	-29.36	0.000	0.000 D	-20.81	14.78	-22.59	-22.59
	Fu.C.7	0.00	21.67	2.960	-28.92	0.000	0.000 D	-17.09	14.80	-22.52	-22.52
	Fu.C.8	0.00	17.83	2.960	-24.59	0.000	0.000 D	-20.85	12.25	-18.79	-18.79
	Fu.C.9	0.00	17.95	2.960	-24.15	0.000	0.000 D	-17.12	12.28	-18.72	-18.72
	Fu.C.10	0.00	-9.91	2.960	13.91	0.000	0.000 D	-4.49	-6.83	10.58	10.58
	Fu.C.11	0.00	-9.61	2.960	14.42	0.000	0.000 T	9.41	-6.72	10.63	10.63
	Fu.C.12	0.00	-13.59	2.960	18.66	0.000	0.000 D	-4.45	-9.34	14.36	14.36
	Fu.C.13	0.00	-13.27	2.960	19.15	0.000	0.000 T	9.44	-9.20	14.41	14.41
	Fu.C.14	0.00	0.57	2.220	-2.11	0.000	0.000 D	-34.05	0.49	-1.05	-1.05
	Fu.C.15	0.00	0.77	2.590	-1.55	0.000	0.000 D	-22.49	0.57	-0.98	-0.98
	Fu.C.16	0.00	-3.22	2.960	2.70	0.000	0.000 D	-34.03	-2.05	2.76	2.76
	Fu.C.17	0.00	-2.96	2.960	3.24	0.000	0.000 D	-22.48	-1.96	2.82	2.82
	Fu.C.18	0.00	-19.95	2.960	24.81	0.000	0.000 D	-17.83	-13.46	20.08	20.08
	Fu.C.19	0.00	-19.36	2.960	25.64	0.000	0.000 D	-2.18	-13.21	20.13	20.13
	Fu.C.20	0.00	-9.60	2.960	8.91	0.000	0.000 D	-47.47	-6.19	8.51	8.51
	Fu.C.21	0.00	-9.10	2.960	9.80	0.000	0.000 D	-31.81	-6.00	8.58	8.58
	Fu.C.22	0.00	-19.95	2.960	24.81	0.000	0.000 D	-17.83	-13.46	20.08	20.08
	Fu.C.23	0.00	-19.36	2.960	25.64	0.000	0.000 D	-2.18	-13.21	20.13	20.13
	Fu.C.24	0.00	-9.60	2.960	8.91	0.000	0.000 D	-47.47	-6.19	8.51	8.51
	Fu.C.25	0.00	-9.10	2.960	9.80	0.000	0.000 D	-31.81	-6.00	8.58	8.58
	Fu.C.26	0.00			-3.17	0.000	0.000 D	-63.66	-0.48	-0.48	-0.34
	Fu.C.27	0.00			-0.94	0.000	0.000 D	-29.07	-0.13	-0.13	-0.12
	Fu.C.28	0.00			-0.63	0.000	0.000 D	-19.38	-0.09	-0.09	-0.08
	Fu.C.29	0.00			-1.70	0.000	0.000 D	-50.89	-0.25	-0.25	-0.19
	Fu.C.30	0.00			-1.35	0.000	0.000 D	-38.38	-0.19	-0.19	-0.16
	Fu.C.31	0.00			-1.57	0.000	0.000 D	-35.04	-0.22	-0.22	-0.19
	Fu.C.32	0.00			-1.53	0.000	0.000 D	-33.37	-0.22	-0.22	-0.19
	Fu.C.33	0.00			-1.43	0.000	0.000 D	-31.70	-0.20	-0.20	-0.17
	Fu.C.34	0.00			-1.28	0.000	0.000 D	-30.03	-0.18	-0.18	-0.16
	Fu.C.35	0.00			-1.11	0.000	0.000 D	-28.36	-0.16	-0.16	-0.14
	Fu.C.36	0.00			-0.94	0.000	0.000 D	-26.70	-0.13	-0.13	-0.12
	Fu.C.37	0.00			-2.20	0.000	0.000 D	-63.39	-0.33	-0.33	-0.24
S5	Fu.C.1	-4.92			0.00	0.000	0.000 D	-89.16	3.49	3.55	3.55
	Fu.C.2	-13.08			0.00	0.000	0.000 T	11.34	11.08	11.08	7.62
	Fu.C.3	-12.65			0.00	0.000	0.000 T	15.04	10.77	10.77	7.31
	Fu.C.4	-8.37			0.00	0.000	0.000 T	11.37	7.11	7.11	4.85
	Fu.C.5	-7.95			0.00	0.000	0.000 T	15.07	6.81	6.81	4.55
	Fu.C.6	-29.36			0.00	0.000	0.000 D	-17.73	24.44	24.44	17.48
	Fu.C.7	-28.92			0.00	0.000	0.000 D	-14.02	24.14	24.14	17.16
	Fu.C.8	-24.59			0.00	0.000	0.000 D	-17.68	20.45	20.45	14.66
	Fu.C.9	-24.15			0.00	0.000	0.000 D	-13.97	20.14	20.14	14.35
	Fu.C.10	13.91			0.00	0.000	0.000 D	-1.91	-11.58	-11.58	-8.29
	Fu.C.11	14.42			0.00	0.000	0.000 T	9.98	-11.96	-11.96	-8.65
	Fu.C.12	18.66			0.00	0.000	0.000 D	-1.88	-15.57	-15.57	-11.09
	Fu.C.13	19.15			0.00	0.000	0.000 T	10.02	-15.93	-15.93	-11.43
	Fu.C.14	-2.11			0.00	0.000	0.000 D	-30.38	1.65	1.65	1.37
	Fu.C.15	-1.55			0.00	0.000	0.000 D	-18.95	1.25	1.25	0.96
	Fu.C.16	2.70			0.00	0.000	0.000 D	-30.34	-2.37	-2.37	-1.49
	Fu.C.17	3.24			0.00	0.000	0.000 D	-18.91	-2.76	-2.76	-1.87
	Fu.C.18	24.81			0.00	0.000	0.000 D	-15.18	-20.85	-20.85	-14.59
	Fu.C.19	25.64			0.00	0.000	0.000 T	0.81	-21.47	-21.47	-15.16
	Fu.C.20	8.91			0.00	0.000	0.000 D	-43.66	-7.69	-7.69	-5.02
	Fu.C.21	9.80			0.00	0.000	0.000 D	-28.16	-8.34	-8.34	-5.65
	Fu.C.22	24.81			0.00	0.000	0.000 D	-15.18	-20.85	-20.85	-14.59
	Fu.C.23	25.64			0.00	0.000	0.000 T	0.81	-21.47	-21.47	-15.16
	Fu.C.24	8.91			0.00	0.000	0.000 D	-43.66	-7.69	-7.69	-5.02
	Fu.C.25	9.80			0.00	0.000	0.000 D	-28.16	-8.34	-8.34	-5.65
	Fu.C.26	-3.17			0.00	0.000	0.000 D	-59.74	2.25	2.27	2.27
	Fu.C.27	-0.94			0.00	0.000	0.000 D	-25.08	0.67	0.67	0.67
	Fu.C.28	-0.63			0.00	0.000	0.000 D	-16.72	0.45	0.45	0.45
	Fu.C.29	-1.70			0.00	0.000	0.000 D	-47.07	1.21	1.22	1.22
	Fu.C.30	-1.35			0.00	0.000	0.000 D	-34.65	0.96	0.97	0.97
	Fu.C.31	-1.57			0.00	0.000	0.000 D	-31.42	1.12	1.12	1.12
	Fu.C.32	-1.53			0.00	0.000	0.000 D	-29.77	1.09	1.10	1.10
	Fu.C.33	-1.43			0.00	0.000	0.000 D	-28.11	1.02	1.02	1.02
	Fu.C.34	-1.28			0.00	0.000	0.000 D	-26.45	0.91	0.92	0.92

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S5	Fu.C.35	-1.11			0.00	0.000	0.000 D	-24.79	0.79	0.80	0.80
	Fu.C.36	-0.94			0.00	0.000	0.000 D	-23.15	0.67	0.67	0.67
	Fu.C.37	-2.20			0.00	0.000	0.000 D	-59.40	1.56	1.58	1.58
S6	Fu.C.1	0.00			5.24	0.000	0.000 D	-80.05	0.82	0.82	0.52
	Fu.C.2	0.00	10.13	2.960	-13.15	0.000	0.000 T	7.91	6.89	-10.46	-10.46
	Fu.C.3	0.00	9.83	2.960	-13.66	0.000	0.000 T	19.46	6.77	-10.51	-10.51
	Fu.C.4	0.00	13.86	2.960	-17.71	0.000	0.000 T	7.92	9.40	-14.21	-14.21
	Fu.C.5	0.00	13.54	2.960	-18.20	0.000	0.000 T	19.47	9.27	-14.25	-14.25
	Fu.C.6	0.00	-0.48	2.220	2.39	0.000	0.000 D	-20.58	-0.45	1.09	1.09
	Fu.C.7	0.00	-0.66	2.590	1.83	0.000	0.000 D	-9.03	-0.53	1.02	1.02
	Fu.C.8	0.00	3.40	3.330	-2.22	0.000	0.000 D	-20.59	2.10	-2.69	-2.69
	Fu.C.9	0.00	3.12	2.960	-2.76	0.000	0.000 D	-9.04	2.01	-2.74	-2.74
	Fu.C.10	0.00	-11.18	2.960	11.93	0.000	0.000 T	21.02	-7.38	10.65	10.65
	Fu.C.11	0.00	-11.35	2.960	11.40	0.000	0.000 T	24.74	-7.43	10.56	10.56
	Fu.C.12	0.00	-7.48	2.960	7.41	0.000	0.000 T	20.99	-4.89	6.91	6.91
	Fu.C.13	0.00	-7.65	2.960	6.89	0.000	0.000 T	24.71	-4.94	6.83	6.83
	Fu.C.14	0.00	-21.99	2.960	27.69	0.000	0.000 D	-7.38	-14.88	22.32	22.32
	Fu.C.15	0.00	-22.14	2.960	27.16	0.000	0.000 D	-3.66	-14.92	22.23	22.23
	Fu.C.16	0.00	-18.23	2.960	23.12	0.000	0.000 D	-7.44	-12.35	18.56	18.56
	Fu.C.17	0.00	-18.38	2.960	22.59	0.000	0.000 D	-3.72	-12.39	18.48	18.48
	Fu.C.18	0.00	20.17	2.960	-23.84	0.000	0.000 D	-7.91	13.51	-19.91	-19.91
	Fu.C.19	0.00	19.54	2.960	-24.77	0.000	0.000 T	10.07	13.25	-19.98	-19.98
	Fu.C.20	0.00	9.71	2.960	-8.39	0.000	0.000 D	-34.13	6.21	-8.41	-8.41
	Fu.C.21	0.00	9.16	2.960	-9.38	0.000	0.000 D	-18.48	6.00	-8.50	-8.50
	Fu.C.22	0.00	20.17	2.960	-23.84	0.000	0.000 D	-7.91	13.51	-19.91	-19.91
	Fu.C.23	0.00	19.54	2.960	-24.77	0.000	0.000 T	10.07	13.25	-19.98	-19.98
	Fu.C.24	0.00	9.71	2.960	-8.39	0.000	0.000 D	-34.13	6.21	-8.41	-8.41
	Fu.C.25	0.00	9.16	2.960	-9.38	0.000	0.000 D	-18.48	6.00	-8.50	-8.50
	Fu.C.26	0.00			3.30	0.000	0.000 D	-50.31	0.49	0.49	0.38
	Fu.C.27	0.00			0.84	0.000	0.000 D	-14.04	0.12	0.12	0.11
	Fu.C.28	0.00			0.56	0.000	0.000 D	-9.36	0.08	0.08	0.07
	Fu.C.29	0.00			1.45	0.000	0.000 D	-17.49	0.20	0.20	0.19
	Fu.C.30	0.00			1.12	0.000	0.000 D	-14.98	0.16	0.16	0.15
	Fu.C.31	0.00			1.46	0.000	0.000 D	-18.33	0.20	0.20	0.19
	Fu.C.32	0.00			1.53	0.000	0.000 D	-20.00	0.21	0.21	0.20
	Fu.C.33	0.00			1.52	0.000	0.000 D	-21.68	0.21	0.21	0.19
	Fu.C.34	0.00			1.42	0.000	0.000 D	-23.35	0.20	0.20	0.18
	Fu.C.35	0.00			1.23	0.000	0.000 D	-25.01	0.17	0.17	0.15
	Fu.C.36	0.00			0.92	0.000	0.000 D	-26.67	0.13	0.13	0.11
	Fu.C.37	0.00			1.82	0.000	0.000 D	-19.98	0.25	0.25	0.23
S7	Fu.C.1	5.24			0.00	0.000	0.000 D	-75.99	-2.84	-2.91	-2.91
	Fu.C.2	-13.15			0.00	0.000	0.000 T	8.65	9.38	9.38	5.08
	Fu.C.3	-13.66			0.00	0.000	0.000 T	20.06	9.67	9.67	5.36
	Fu.C.4	-17.71			0.00	0.000	0.000 T	8.66	12.65	12.65	6.81
	Fu.C.5	-18.20			0.00	0.000	0.000 T	20.07	12.94	12.94	7.07
	Fu.C.6	2.39			0.00	0.000	0.000 D	-17.01	-1.50	-1.50	-1.13
	Fu.C.7	1.83			0.00	0.000	0.000 D	-5.59	-1.19	-1.19	-0.82
	Fu.C.8	-2.22			0.00	0.000	0.000 D	-16.99	1.79	1.79	0.64
	Fu.C.9	-2.76			0.00	0.000	0.000 D	-5.58	2.09	2.09	0.93
	Fu.C.10	11.93			0.00	0.000	0.000 T	21.20	-8.81	-8.81	-4.31
	Fu.C.11	11.40			0.00	0.000	0.000 T	24.89	-8.53	-8.53	-4.02
	Fu.C.12	7.41			0.00	0.000	0.000 T	21.19	-5.55	-5.55	-2.60
	Fu.C.13	6.89			0.00	0.000	0.000 T	24.89	-5.27	-5.27	-2.32
	Fu.C.14	27.69			0.00	0.000	0.000 D	-4.57	-19.77	-19.77	-10.66
	Fu.C.15	27.16			0.00	0.000	0.000 D	-0.87	-19.48	-19.48	-10.36
	Fu.C.16	23.12			0.00	0.000	0.000 D	-4.55	-16.48	-16.48	-8.92
	Fu.C.17	22.59			0.00	0.000	0.000 D	-0.85	-16.20	-16.20	-8.62
	Fu.C.18	-23.84			0.00	0.000	0.000 D	-5.48	17.19	17.19	9.01
	Fu.C.19	-24.77			0.00	0.000	0.000 T	10.62	17.73	17.73	9.50
	Fu.C.20	-8.39			0.00	0.000	0.000 D	-30.54	6.35	6.35	2.85
	Fu.C.21	-9.38			0.00	0.000	0.000 D	-15.06	6.91	6.91	3.39
	Fu.C.22	-23.84			0.00	0.000	0.000 D	-5.48	17.19	17.19	9.01
	Fu.C.23	-24.77			0.00	0.000	0.000 T	10.62	17.73	17.73	9.50
	Fu.C.24	-8.39			0.00	0.000	0.000 D	-30.54	6.35	6.35	2.85
	Fu.C.25	-9.38			0.00	0.000	0.000 D	-15.06	6.91	6.91	3.39
	Fu.C.26	3.30			0.00	0.000	0.000 D	-46.57	-1.80	-1.83	-1.83

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S7	Fu.C.27	0.84			0.00	0.000	0.000 D	-10.29	-0.46	-0.46	-0.46
	Fu.C.28	0.56			0.00	0.000	0.000 D	-6.86	-0.31	-0.31	-0.31
	Fu.C.29	1.45			0.00	0.000	0.000 D	-14.11	-0.80	-0.80	-0.80
	Fu.C.30	1.12			0.00	0.000	0.000 D	-11.63	-0.61	-0.62	-0.62
	Fu.C.31	1.46			0.00	0.000	0.000 D	-14.95	-0.80	-0.80	-0.80
	Fu.C.32	1.53			0.00	0.000	0.000 D	-16.61	-0.84	-0.84	-0.84
	Fu.C.33	1.52			0.00	0.000	0.000 D	-18.26	-0.83	-0.84	-0.84
	Fu.C.34	1.42			0.00	0.000	0.000 D	-19.97	-0.78	-0.78	-0.78
	Fu.C.35	1.23			0.00	0.000	0.000 D	-21.48	-0.67	-0.68	-0.68
	Fu.C.36	0.92			0.00	0.000	0.000 D	-23.09	-0.50	-0.50	-0.50
S9	Fu.C.37	1.82			0.00	0.000	0.000 D	-16.59	-1.00	-1.00	-1.00
	Fu.C.1	0.00	0.01	0.860	0.00	0.000	0.000 T	96.69	0.02	-0.05	-0.05
	Fu.C.2	0.00	0.01	0.860	0.00	0.000	0.000 D	-10.98	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.860	0.00	0.000	0.000 D	-15.52	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.860	0.00	0.000	0.000 D	-11.02	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.860	0.00	0.000	0.000 D	-15.56	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.860	0.00	0.000	0.000 T	20.31	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.860	0.00	0.000	0.000 T	15.77	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.860	0.00	0.000	0.000 T	20.26	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.860	0.00	0.000	0.000 T	15.72	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.860	0.00	0.000	0.000 D	-1.59	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.860	0.00	0.000	0.000 D	-13.87	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.860	0.00	0.000	0.000 D	-1.65	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.860	0.00	0.000	0.000 D	-13.92	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.860	0.00	0.000	0.000 T	29.63	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.860	0.00	0.000	0.000 T	17.33	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.860	0.00	0.000	0.000 T	29.56	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.860	0.00	0.000	0.000 T	17.27	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.860	0.00	0.000	0.000 T	14.70	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.860	0.00	0.000	0.000 D	-2.65	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.860	0.00	0.000	0.000 T	45.87	0.03	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.860	0.00	0.000	0.000 T	28.58	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.860	0.00	0.000	0.000 T	14.70	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.860	0.00	0.000	0.000 D	-2.65	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.860	0.00	0.000	0.000 T	45.87	0.03	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.860	0.00	0.000	0.000 T	28.58	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.01	0.860	0.00	0.000	0.000 T	63.86	0.03	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.860	0.00	0.000	0.000 T	24.85	0.04	-0.04	-0.04
	Fu.C.28	0.00	0.01	0.860	0.00	0.000	0.000 T	16.56	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.860	0.00	0.000	0.000 T	44.17	0.03	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.860	0.00	0.000	0.000 T	38.07	0.03	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.860	0.00	0.000	0.000 T	33.32	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.860	0.00	0.000	0.000 T	31.24	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.860	0.00	0.000	0.000 T	29.21	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.860	0.00	0.000	0.000 T	27.17	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.860	0.00	0.000	0.000 T	25.15	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.860	0.00	0.000	0.000 T	23.13	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.01	0.860	0.00	0.000	0.000 T	60.13	0.03	-0.04	-0.04
S10	Fu.C.1	0.00			0.89	0.000	0.000 D	-3.93	1.06	1.06	0.73
	Fu.C.2	0.00			-0.23	0.000	0.000 D	-21.92	-0.11	-0.36	-0.36
	Fu.C.3	0.00			-0.26	0.000	0.000 D	-21.55	-0.14	-0.38	-0.38
	Fu.C.4	0.00			-0.21	0.000	0.000 D	-14.18	-0.08	-0.33	-0.33
	Fu.C.5	0.00			-0.23	0.000	0.000 D	-13.82	-0.11	-0.36	-0.36
	Fu.C.6	0.00	0.03	0.400	-0.03	0.000	0.000 D	-47.01	0.14	-0.19	-0.19
	Fu.C.7	0.00	0.02	0.350	-0.05	0.000	0.000 D	-46.64	0.11	-0.22	-0.22
	Fu.C.8	0.00	0.04	0.500	0.00	0.000	0.000 D	-39.22	0.16	-0.17	-0.17
	Fu.C.9	0.00	0.03	0.400	-0.03	0.000	0.000 D	-38.85	0.14	-0.19	-0.19
	Fu.C.10	0.00			0.14	0.000	0.000 T	22.16	0.26	0.26	0.01
	Fu.C.11	0.00	0.04	0.550	0.01	0.000	0.000 T	22.60	0.14	0.14	-0.11
	Fu.C.12	0.00			0.16	0.000	0.000 T	29.93	0.29	0.29	0.04
	Fu.C.13	0.00	0.05	0.650	0.04	0.000	0.000 T	30.34	0.16	0.16	-0.08
	Fu.C.14	0.00			0.34	0.000	0.000 D	-2.70	0.51	0.51	0.18
	Fu.C.15	0.00			0.22	0.000	0.000 D	-2.23	0.38	0.38	0.05
	Fu.C.16	0.00			0.37	0.000	0.000 T	5.13	0.53	0.53	0.20
	Fu.C.17	0.00			0.24	0.000	0.000 T	5.58	0.41	0.41	0.08
	Fu.C.18	0.00			0.29	0.000	0.000 T	40.91	0.41	0.41	0.17

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S10	Fu.C.19	0.00			0.14	0.000	0.000 T	41.59	0.26	0.26	0.02
	Fu.C.20	0.00			0.50	0.000	0.000 T	16.19	0.66	0.66	0.33
	Fu.C.21	0.00			0.35	0.000	0.000 T	16.91	0.51	0.51	0.18
	Fu.C.22	0.00			0.29	0.000	0.000 T	40.91	0.41	0.41	0.17
	Fu.C.23	0.00			0.14	0.000	0.000 T	41.59	0.26	0.26	0.02
	Fu.C.24	0.00			0.50	0.000	0.000 T	16.19	0.66	0.66	0.33
	Fu.C.25	0.00			0.35	0.000	0.000 T	16.91	0.51	0.51	0.18
	Fu.C.26	0.00			0.60	0.000	0.000 D	-2.58	0.76	0.76	0.44
	Fu.C.27	0.00			0.26	0.000	0.000 D	-0.78	0.44	0.44	0.07
	Fu.C.28	0.00			0.17	0.000	0.000 D	-0.53	0.29	0.29	0.05
	Fu.C.29	0.00			0.49	0.000	0.000 D	-1.40	0.66	0.66	0.33
	Fu.C.30	0.00			0.41	0.000	0.000 D	-1.12	0.57	0.57	0.24
	Fu.C.31	0.00			0.30	0.000	0.000 D	-1.31	0.47	0.47	0.14
	Fu.C.32	0.00			0.27	0.000	0.000 D	-1.28	0.44	0.44	0.11
	Fu.C.33	0.00			0.27	0.000	0.000 D	-1.19	0.43	0.43	0.10
	Fu.C.34	0.00			0.26	0.000	0.000 D	-1.07	0.42	0.42	0.09
	Fu.C.35	0.00			0.24	0.000	0.000 D	-0.93	0.41	0.41	0.08
S12	Fu.C.36	0.00			0.23	0.000	0.000 D	-0.79	0.40	0.40	0.07
	Fu.C.37	0.00			0.68	0.000	0.000 D	-1.79	0.84	0.84	0.51
	Fu.C.1	0.00	0.03	0.860	0.00	0.000	0.000 D	-96.76	0.07	0.07	-0.04
	Fu.C.2	0.00	0.01	0.860	0.00	0.000	0.000 T	11.79	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.860	0.00	0.000	0.000 T	16.35	0.03	0.03	-0.03
	Fu.C.4	0.00	0.01	0.860	0.00	0.000	0.000 T	11.81	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.860	0.00	0.000	0.000 T	16.37	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.860	0.00	0.000	0.000 D	-19.49	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.860	0.00	0.000	0.000 D	-14.93	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.860	0.00	0.000	0.000 D	-19.46	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.860	0.00	0.000	0.000 D	-14.90	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.860	0.00	0.000	0.000 T	1.96	0.03	0.03	-0.03
	Fu.C.11	0.00	0.01	0.860	0.00	0.000	0.000 T	14.37	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.860	0.00	0.000	0.000 T	1.99	0.03	0.03	-0.03
	Fu.C.13	0.00	0.01	0.860	0.00	0.000	0.000 T	14.39	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.860	0.00	0.000	0.000 D	-29.25	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.860	0.00	0.000	0.000 D	-16.83	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.860	0.00	0.000	0.000 D	-29.21	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.860	0.00	0.000	0.000 D	-16.80	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.860	0.00	0.000	0.000 D	-14.48	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.860	0.00	0.000	0.000 T	3.01	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	0.860	0.00	0.000	0.000 D	-45.63	0.05	0.05	-0.04
	Fu.C.21	0.00	0.02	0.860	0.00	0.000	0.000 D	-28.20	0.05	0.05	-0.04
	Fu.C.22	0.00	0.01	0.860	0.00	0.000	0.000 D	-14.48	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.860	0.00	0.000	0.000 T	3.01	0.03	-0.03	-0.03
	Fu.C.24	0.00	0.02	0.860	0.00	0.000	0.000 D	-45.63	0.05	0.05	-0.04
	Fu.C.25	0.00	0.02	0.860	0.00	0.000	0.000 D	-28.20	0.05	0.05	-0.04
	Fu.C.26	0.00	0.02	0.860	0.00	0.000	0.000 D	-63.68	0.06	0.06	-0.04
	Fu.C.27	0.00	0.02	0.860	0.00	0.000	0.000 D	-24.28	0.05	0.05	-0.05
	Fu.C.28	0.00	0.01	0.860	0.00	0.000	0.000 D	-16.19	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.860	0.00	0.000	0.000 D	-43.95	0.05	0.05	-0.04
	Fu.C.30	0.00	0.02	0.860	0.00	0.000	0.000 D	-37.70	0.05	0.05	-0.04
	Fu.C.31	0.00	0.02	0.860	0.00	0.000	0.000 D	-32.91	0.05	0.05	-0.04
	Fu.C.32	0.00	0.02	0.860	0.00	0.000	0.000 D	-30.76	0.05	0.05	-0.04
	Fu.C.33	0.00	0.02	0.860	0.00	0.000	0.000 D	-28.74	0.05	0.05	-0.04
	Fu.C.34	0.00	0.02	0.860	0.00	0.000	0.000 D	-26.69	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.860	0.00	0.000	0.000 D	-24.65	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.860	0.00	0.000	0.000 D	-22.63	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.860	0.00	0.000	0.000 D	-60.04	0.05	0.05	-0.04
S13	Fu.C.1	0.00	4.07	0.800	-4.50	0.000	0.000 D	-52.70	9.98	-14.42	-14.42
	Fu.C.2	0.00	-1.12	0.900	0.53	0.000	0.000 T	13.98	-2.48	2.71	2.71
	Fu.C.3	0.00	-1.12	0.900	0.51	0.000	0.000 T	16.32	-2.49	2.70	2.70
	Fu.C.4	0.00	-1.11	0.900	0.55	0.000	0.000 T	11.24	-2.47	2.72	2.72
	Fu.C.5	0.00	-1.11	0.900	0.54	0.000	0.000 T	13.58	-2.48	2.71	2.71
	Fu.C.6	0.00	0.14	0.500	-0.89	0.000	0.000 T	5.69	0.52	-1.73	-1.73
	Fu.C.7	0.00	0.14	0.500	-0.91	0.000	0.000 T	8.02	0.51	-1.73	-1.73
	Fu.C.8	0.00	0.15	0.600	-0.87	0.000	0.000 T	2.91	0.53	-1.71	-1.71
	Fu.C.9	0.00	0.14	0.500	-0.89	0.000	0.000 T	5.23	0.52	-1.72	-1.72
	Fu.C.10	0.00	1.06	0.800	-1.34	0.000	0.000 D	-7.39	2.65	-3.99	-3.99

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S13	Fu.C.11	0.00	0.47	0.800	-0.71	0.000	0.000 D	-0.62	1.22	-1.93	-1.93
	Fu.C.12	0.00	1.07	0.800	-1.32	0.000	0.000 D	-10.16	2.67	-3.98	-3.98
	Fu.C.13	0.00	0.48	0.800	-0.69	0.000	0.000 D	-3.37	1.24	-1.92	-1.92
	Fu.C.14	0.00	2.28	0.800	-2.77	0.000	0.000 D	-15.82	5.67	-8.43	-8.43
	Fu.C.15	0.00	1.69	0.800	-2.14	0.000	0.000 D	-9.08	4.24	-6.37	-6.37
	Fu.C.16	0.00	2.29	0.800	-2.75	0.000	0.000 D	-18.62	5.69	-8.42	-8.42
	Fu.C.17	0.00	1.70	0.800	-2.12	0.000	0.000 D	-11.87	4.25	-6.36	-6.36
	Fu.C.18	0.00	1.11	0.800	-1.22	0.000	0.000 D	-23.10	2.72	-3.93	-3.93
	Fu.C.19	0.00	0.52	0.800	-0.61	0.000	0.000 D	-13.65	1.28	-1.89	-1.89
	Fu.C.20	0.00	2.33	0.800	-2.65	0.000	0.000 D	-31.64	5.75	-8.38	-8.38
	Fu.C.21	0.00	1.74	0.800	-2.04	0.000	0.000 D	-22.23	4.30	-6.33	-6.33
	Fu.C.22	0.00	1.11	0.800	-1.22	0.000	0.000 D	-23.10	2.72	-3.93	-3.93
	Fu.C.23	0.00	0.52	0.800	-0.61	0.000	0.000 D	-13.65	1.28	-1.89	-1.89
	Fu.C.24	0.00	2.33	0.800	-2.65	0.000	0.000 D	-31.64	5.75	-8.38	-8.38
	Fu.C.25	0.00	1.74	0.800	-2.04	0.000	0.000 D	-22.23	4.30	-6.33	-6.33
	Fu.C.26	0.00	2.93	0.800	-3.33	0.000	0.000 D	-34.85	7.21	-10.52	-10.52
	Fu.C.27	0.00	1.67	0.800	-2.09	0.000	0.000 D	-13.74	4.18	-6.26	-6.26
	Fu.C.28	0.00	1.11	0.800	-1.39	0.000	0.000 D	-9.16	2.78	-4.17	-4.17
	Fu.C.29	0.00	4.57	0.900	-3.24	0.000	0.000 D	-24.44	10.56	-13.79	-13.79
	Fu.C.30	0.00	1.01	0.700	-3.16	0.000	0.000 D	-21.14	3.06	-6.21	-6.21
	Fu.C.31	0.00	1.47	0.800	-1.90	0.000	0.000 D	-18.22	3.70	-5.59	-5.59
	Fu.C.32	0.00	1.51	0.800	-1.80	0.000	0.000 D	-17.04	3.75	-5.54	-5.54
	Fu.C.33	0.00	1.50	0.800	-1.84	0.000	0.000 D	-15.93	3.73	-5.56	-5.56
	Fu.C.34	0.00	1.49	0.800	-1.84	0.000	0.000 D	-14.85	3.73	-5.56	-5.56
	Fu.C.35	0.00	1.49	0.800	-1.85	0.000	0.000 D	-13.79	3.72	-5.56	-5.56
	Fu.C.36	0.00	1.49	0.800	-1.85	0.000	0.000 D	-12.74	3.72	-5.57	-5.57
	Fu.C.37	0.00	4.03	0.800	-4.55	0.000	0.000 D	-33.37	9.91	-14.43	-14.43
S15	Fu.C.1	0.00	0.01	0.860	0.00	0.000	0.000 T	62.44	0.03	-0.04	-0.04
	Fu.C.2	0.00	0.01	0.860	0.00	0.000	0.000 D	-7.77	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.860	0.00	0.000	0.000 D	-12.32	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.860	0.00	0.000	0.000 D	-7.78	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.860	0.00	0.000	0.000 D	-12.33	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.860	0.00	0.000	0.000 T	12.99	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.860	0.00	0.000	0.000 T	8.44	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.860	0.00	0.000	0.000 T	12.98	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.860	0.00	0.000	0.000 T	8.43	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.860	0.00	0.000	0.000 D	-11.62	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.860	0.00	0.000	0.000 D	-19.21	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.860	0.00	0.000	0.000 D	-11.63	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.860	0.00	0.000	0.000 D	-19.22	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.860	0.00	0.000	0.000 T	9.06	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.860	0.00	0.000	0.000 T	1.46	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.860	0.00	0.000	0.000 T	9.04	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.860	0.00	0.000	0.000 T	1.44	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.860	0.00	0.000	0.000 T	4.84	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.860	0.00	0.000	0.000 D	-7.84	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.860	0.00	0.000	0.000 T	25.46	0.04	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.860	0.00	0.000	0.000 T	12.85	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.860	0.00	0.000	0.000 T	4.84	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.860	0.00	0.000	0.000 D	-7.84	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.860	0.00	0.000	0.000 T	25.46	0.04	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.860	0.00	0.000	0.000 T	12.85	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.860	0.00	0.000	0.000 T	38.51	0.03	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.860	0.00	0.000	0.000 T	9.07	0.04	-0.04	-0.04
	Fu.C.28	0.00	0.01	0.860	0.00	0.000	0.000 T	6.05	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.860	0.00	0.000	0.000 T	19.98	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.860	0.00	0.000	0.000 T	14.17	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.860	0.00	0.000	0.000 T	19.01	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.860	0.00	0.000	0.000 T	17.28	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.860	0.00	0.000	0.000 T	15.16	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.860	0.00	0.000	0.000 T	13.14	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.860	0.00	0.000	0.000 T	11.11	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.860	0.00	0.000	0.000 T	9.08	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	0.860	0.00	0.000	0.000 T	26.08	0.04	-0.04	-0.04
S16	Fu.C.1	0.89	1.25	1.600	1.23	0.000	0.000 T	108.43	0.43	0.43	-0.13
	Fu.C.2	-0.23	-0.15	0.800	-0.32	0.000	0.000 D	-35.10	0.20	-0.29	-0.29

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S16	Fu.C.3	-0.26	-0.18	0.800	-0.36	0.000	0.000 D	-40.02	0.19	-0.30	-0.30
	Fu.C.4	-0.21	-0.12	0.800	-0.29	0.000	0.000 D	-27.40	0.20	-0.29	-0.29
	Fu.C.5	-0.23	-0.16	0.800	-0.33	0.000	0.000 D	-32.33	0.19	-0.30	-0.30
	Fu.C.6	-0.03	0.14	1.000	-0.02	0.000	0.000 D	-23.94	0.34	0.34	-0.32
	Fu.C.7	-0.05	0.11	1.000	-0.06	0.000	0.000 D	-28.86	0.33	-0.33	-0.33
	Fu.C.8	0.00	0.17	1.000	0.01	0.000	0.000 D	-16.20	0.34	0.34	-0.32
	Fu.C.9	-0.03	0.14	1.000	-0.03	0.000	0.000 D	-21.12	0.33	-0.33	-0.33
	Fu.C.10	0.14	0.23	0.900	0.07	0.000	0.000 T	20.15	0.21	-0.28	-0.28
	Fu.C.11	0.01	0.08	0.800	-0.11	0.000	0.000 T	6.24	0.19	-0.30	-0.30
	Fu.C.12	0.16	0.26	0.900	0.10	0.000	0.000 T	27.86	0.21	-0.27	-0.27
	Fu.C.13	0.04	0.11	0.800	-0.08	0.000	0.000 T	13.94	0.19	-0.30	-0.30
	Fu.C.14	0.34	0.52	1.100	0.38	0.000	0.000 T	31.46	0.34	0.34	-0.31
	Fu.C.15	0.22	0.37	1.000	0.20	0.000	0.000 T	17.56	0.32	-0.33	-0.33
	Fu.C.16	0.37	0.55	1.100	0.41	0.000	0.000 T	39.22	0.34	0.34	-0.30
	Fu.C.17	0.24	0.40	1.000	0.23	0.000	0.000 T	25.31	0.32	-0.33	-0.33
	Fu.C.18	0.29	0.42	1.000	0.31	0.000	0.000 T	57.82	0.24	0.24	-0.23
	Fu.C.19	0.14	0.23	0.900	0.08	0.000	0.000 T	38.35	0.21	-0.27	-0.27
	Fu.C.20	0.50	0.72	1.200	0.62	0.000	0.000 T	69.30	0.37	0.37	-0.26
	Fu.C.21	0.35	0.53	1.100	0.39	0.000	0.000 T	49.85	0.34	0.34	-0.30
	Fu.C.22	0.29	0.42	1.000	0.31	0.000	0.000 T	57.82	0.24	0.24	-0.23
	Fu.C.23	0.14	0.23	0.900	0.08	0.000	0.000 T	38.35	0.21	-0.27	-0.27
	Fu.C.24	0.50	0.72	1.200	0.62	0.000	0.000 T	69.30	0.37	0.37	-0.26
	Fu.C.25	0.35	0.53	1.100	0.39	0.000	0.000 T	49.85	0.34	0.34	-0.30
	Fu.C.26	0.60	0.86	1.300	0.79	0.000	0.000 T	71.47	0.39	0.39	-0.22
	Fu.C.27	0.26	0.44	1.000	0.26	0.000	0.000 T	27.70	0.37	0.37	-0.36
	Fu.C.28	0.17	0.29	1.000	0.18	0.000	0.000 T	18.46	0.25	0.25	-0.24
	Fu.C.29	0.49	0.69	1.100	0.56	0.000	0.000 T	49.75	0.35	0.35	-0.29
	Fu.C.30	0.41	0.65	1.200	0.55	0.000	0.000 T	42.86	0.39	0.39	-0.25
	Fu.C.31	0.30	0.47	1.000	0.32	0.000	0.000 T	37.12	0.33	0.33	-0.32
	Fu.C.32	0.27	0.47	1.100	0.34	0.000	0.000 T	34.69	0.35	0.35	-0.29
	Fu.C.33	0.27	0.45	1.100	0.30	0.000	0.000 T	32.43	0.34	0.34	-0.31
	Fu.C.34	0.26	0.43	1.000	0.29	0.000	0.000 T	30.17	0.34	0.34	-0.31
	Fu.C.35	0.24	0.42	1.000	0.26	0.000	0.000 T	27.95	0.33	0.33	-0.32
	Fu.C.36	0.23	0.40	1.000	0.24	0.000	0.000 T	25.74	0.33	0.33	-0.32
	Fu.C.37	0.68	0.95	1.300	0.88	0.000	0.000 T	67.99	0.40	0.40	-0.21
S18	Fu.C.1	0.00	0.02	0.860	0.00	0.000	0.000 D	-61.71	0.06	0.06	-0.04
	Fu.C.2	0.00	0.01	0.860	0.00	0.000	0.000 T	8.50	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.860	0.00	0.000	0.000 T	13.04	0.03	0.03	-0.03
	Fu.C.4	0.00	0.01	0.860	0.00	0.000	0.000 T	8.51	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.860	0.00	0.000	0.000 T	13.05	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.860	0.00	0.000	0.000 D	-12.03	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.860	0.00	0.000	0.000 D	-7.48	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.860	0.00	0.000	0.000 D	-12.02	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.860	0.00	0.000	0.000 D	-7.48	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.860	0.00	0.000	0.000 T	12.28	0.03	0.03	-0.03
	Fu.C.11	0.00	0.01	0.860	0.00	0.000	0.000 T	19.89	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.860	0.00	0.000	0.000 T	12.29	0.03	0.03	-0.03
	Fu.C.13	0.00	0.01	0.860	0.00	0.000	0.000 T	19.90	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.860	0.00	0.000	0.000 D	-8.19	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.860	0.00	0.000	0.000 D	-0.56	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.860	0.00	0.000	0.000 D	-8.18	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.860	0.00	0.000	0.000 D	-0.55	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.860	0.00	0.000	0.000 D	-4.19	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.860	0.00	0.000	0.000 T	8.52	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	0.860	0.00	0.000	0.000 D	-24.61	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.860	0.00	0.000	0.000 D	-11.97	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.860	0.00	0.000	0.000 D	-4.19	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.860	0.00	0.000	0.000 T	8.52	0.03	-0.03	-0.03
	Fu.C.24	0.00	0.02	0.860	0.00	0.000	0.000 D	-24.61	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.860	0.00	0.000	0.000 D	-11.97	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.860	0.00	0.000	0.000 D	-37.68	0.05	0.05	-0.04
	Fu.C.27	0.00	0.02	0.860	0.00	0.000	0.000 D	-8.05	0.05	0.05	-0.05
	Fu.C.28	0.00	0.01	0.860	0.00	0.000	0.000 D	-5.37	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.860	0.00	0.000	0.000 D	-19.09	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.860	0.00	0.000	0.000 D	-13.44	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.860	0.00	0.000	0.000 D	-18.02	0.04	0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S18	Fu.C.32	0.00	0.02	0.860	0.00	0.000	0.000 D	-16.40	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.860	0.00	0.000	0.000 D	-14.24	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	0.860	0.00	0.000	0.000 D	-12.24	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.860	0.00	0.000	0.000 D	-10.20	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.860	0.00	0.000	0.000 D	-8.18	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.860	0.00	0.000	0.000 D	-25.37	0.04	0.04	-0.04
S19	Fu.C.1	-4.50	2.93	1.100	-2.06	0.000	0.000 D	-145.25	13.43	13.43	-11.00
	Fu.C.2	0.53	0.16	1.100	0.40	0.000	0.000 T	25.20	-0.67	-0.67	0.53
	Fu.C.3	0.51	0.13	1.100	0.35	0.000	0.000 T	32.83	-0.68	-0.68	0.52
	Fu.C.4	0.55	0.18	1.100	0.42	0.000	0.000 T	22.47	-0.67	-0.67	0.53
	Fu.C.5	0.54	0.15	1.100	0.37	0.000	0.000 T	30.10	-0.68	-0.68	0.52
	Fu.C.6	-0.89	0.98	1.100	-0.30	0.000	0.000 D	-13.33	3.43	3.43	-2.84
	Fu.C.7	-0.91	0.95	1.100	-0.35	0.000	0.000 D	-5.71	3.41	3.41	-2.85
	Fu.C.8	-0.87	1.00	1.100	-0.28	0.000	0.000 D	-16.10	3.43	3.43	-2.84
	Fu.C.9	-0.89	0.97	1.100	-0.33	0.000	0.000 D	-8.47	3.41	3.41	-2.85
	Fu.C.10	-1.34	0.80	1.100	-0.44	0.000	0.000 T	0.66	3.77	3.77	-2.87
	Fu.C.11	-0.71	0.44	1.200	-0.05	0.000	0.000 T	19.06	1.91	1.91	-1.25
	Fu.C.12	-1.32	0.82	1.100	-0.42	0.000	0.000 D	-2.19	3.77	3.77	-2.87
	Fu.C.13	-0.69	0.46	1.200	-0.03	0.000	0.000 T	16.33	1.91	1.91	-1.25
	Fu.C.14	-2.77	1.62	1.100	-1.15	0.000	0.000 D	-37.93	7.86	7.86	-6.25
	Fu.C.15	-2.14	1.25	1.100	-0.75	0.000	0.000 D	-19.54	6.00	6.00	-4.62
	Fu.C.16	-2.75	1.64	1.100	-1.13	0.000	0.000 D	-40.70	7.86	7.86	-6.25
	Fu.C.17	-2.12	1.27	1.100	-0.73	0.000	0.000 D	-22.30	6.00	6.00	-4.62
	Fu.C.18	-1.22	0.97	1.100	-0.25	0.000	0.000 D	-34.29	3.81	3.81	-2.84
	Fu.C.19	-0.61	0.58	1.200	0.11	0.000	0.000 D	-7.39	1.94	1.94	-1.22
	Fu.C.20	-2.65	1.79	1.100	-0.95	0.000	0.000 D	-72.91	7.91	7.91	-6.23
	Fu.C.21	-2.04	1.39	1.100	-0.60	0.000	0.000 D	-46.03	6.03	6.03	-4.60
	Fu.C.22	-1.22	0.97	1.100	-0.25	0.000	0.000 D	-34.29	3.81	3.81	-2.84
	Fu.C.23	-0.61	0.58	1.200	0.11	0.000	0.000 D	-7.39	1.94	1.94	-1.22
	Fu.C.24	-2.65	1.79	1.100	-0.95	0.000	0.000 D	-72.91	7.91	7.91	-6.23
	Fu.C.25	-2.04	1.39	1.100	-0.60	0.000	0.000 D	-46.03	6.03	6.03	-4.60
	Fu.C.26	-3.33	2.16	1.100	-1.37	0.000	0.000 D	-94.21	9.85	9.85	-7.90
	Fu.C.27	-2.09	1.34	1.100	-0.57	0.000	0.000 D	-33.06	5.97	5.97	-4.46
	Fu.C.28	-1.39	0.89	1.100	-0.38	0.000	0.000 D	-22.03	3.98	3.98	-2.97
	Fu.C.29	-3.24	0.13	1.200	-1.33	0.000	0.000 D	-61.55	5.56	5.56	-3.66
	Fu.C.30	-3.16	3.59	1.100	-1.87	0.000	0.000 D	-51.24	12.83	12.83	-11.55
	Fu.C.31	-1.90	1.46	1.200	-0.02	0.000	0.000 D	-48.34	5.59	5.59	-3.72
	Fu.C.32	-1.80	1.22	1.100	-0.51	0.000	0.000 D	-44.90	5.29	5.29	-4.00
	Fu.C.33	-1.84	1.25	1.200	-0.41	0.000	0.000 D	-41.39	5.36	5.36	-3.94
	Fu.C.34	-1.84	1.22	1.100	-0.46	0.000	0.000 D	-37.94	5.33	5.33	-3.96
	Fu.C.35	-1.85	1.21	1.100	-0.47	0.000	0.000 D	-34.52	5.33	5.33	-3.96
	Fu.C.36	-1.85	1.20	1.100	-0.50	0.000	0.000 D	-31.11	5.32	5.32	-3.97
	Fu.C.37	-4.55	2.51	1.100	-2.70	0.000	0.000 D	-83.39	13.08	13.08	-11.25
S21	Fu.C.1	0.00	0.02	0.860	0.00	0.000	0.000 T	30.75	0.03	-0.04	-0.04
	Fu.C.2	0.00	0.01	0.860	0.00	0.000	0.000 D	-2.58	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.860	0.00	0.000	0.000 D	-6.67	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.860	0.00	0.000	0.000 D	-2.68	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.860	0.00	0.000	0.000 D	-6.77	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.860	0.00	0.000	0.000 T	8.41	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.860	0.00	0.000	0.000 T	4.32	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.860	0.00	0.000	0.000 T	8.30	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.860	0.00	0.000	0.000 T	4.21	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.860	0.00	0.000	0.000 D	-15.60	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.860	0.00	0.000	0.000 D	-18.25	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.860	0.00	0.000	0.000 D	-15.71	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.860	0.00	0.000	0.000 D	-18.36	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.860	0.00	0.000	0.000 D	-4.82	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.860	0.00	0.000	0.000 D	-7.46	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.860	0.00	0.000	0.000 D	-4.93	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.860	0.00	0.000	0.000 D	-7.57	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.860	0.00	0.000	0.000 D	-1.20	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.860	0.00	0.000	0.000 D	-8.31	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	0.860	0.00	0.000	0.000 T	9.70	0.04	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.860	0.00	0.000	0.000 T	2.60	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.860	0.00	0.000	0.000 D	-1.20	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.860	0.00	0.000	0.000 D	-8.31	0.03	-0.03	-0.03

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S21	Fu.C.24	0.00	0.02	0.860	0.00	0.000	0.000 T	9.70	0.04	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.860	0.00	0.000	0.000 T	2.60	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.860	0.00	0.000	0.000 T	17.29	0.04	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.860	0.00	0.000	0.000 T	0.15	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.01	0.860	0.00	0.000	0.000 T	0.10	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.860	0.00	0.000	0.000 T	2.05	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.860	0.00	0.000	0.000 D	-4.92	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.860	0.00	0.000	0.000 T	11.25	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.860	0.00	0.000	0.000 T	8.10	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.860	0.00	0.000	0.000 T	6.59	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.860	0.00	0.000	0.000 T	4.68	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.860	0.00	0.000	0.000 T	2.87	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.860	0.00	0.000	0.000 T	1.05	0.04	-0.04	-0.04
S22	Fu.C.37	0.00	0.02	0.860	0.00	0.000	0.000 D	-3.02	0.04	0.04	-0.04
	Fu.C.1	1.23	1.44	1.400	1.40	0.000	0.000 T	180.51	0.29	0.29	-0.17
	Fu.C.2	-0.32	-0.23	0.800	-0.40	0.000	0.000 D	-44.51	0.20	-0.28	-0.28
	Fu.C.3	-0.36	-0.29	0.800	-0.47	0.000	0.000 D	-54.71	0.18	-0.29	-0.29
	Fu.C.4	-0.29	-0.21	0.800	-0.37	0.000	0.000 D	-36.82	0.20	-0.28	-0.28
	Fu.C.5	-0.33	-0.26	0.800	-0.44	0.000	0.000 D	-47.03	0.18	-0.30	-0.30
	Fu.C.6	-0.02	0.14	1.000	-0.03	0.000	0.000 D	-9.47	0.32	-0.34	-0.34
	Fu.C.7	-0.06	0.08	0.900	-0.10	0.000	0.000 D	-19.67	0.31	-0.35	-0.35
	Fu.C.8	0.01	0.17	1.000	0.00	0.000	0.000 D	-1.73	0.32	-0.34	-0.34
	Fu.C.9	-0.03	0.11	0.900	-0.08	0.000	0.000 D	-11.94	0.31	-0.35	-0.35
	Fu.C.10	0.07	0.12	0.600	-0.11	0.000	0.000 T	6.31	0.15	-0.34	-0.34
	Fu.C.11	-0.11	-0.07	0.600	-0.32	0.000	0.000 D	-16.45	0.14	-0.35	-0.35
	Fu.C.12	0.10	0.15	0.600	-0.08	0.000	0.000 T	14.01	0.15	-0.34	-0.34
	Fu.C.13	-0.08	-0.04	0.600	-0.29	0.000	0.000 D	-8.76	0.14	-0.35	-0.35
	Fu.C.14	0.38	0.48	0.800	0.26	0.000	0.000 T	41.42	0.26	-0.38	-0.38
	Fu.C.15	0.20	0.30	0.800	0.05	0.000	0.000 T	18.67	0.25	-0.40	-0.40
	Fu.C.16	0.41	0.51	0.800	0.29	0.000	0.000 T	49.16	0.26	-0.38	-0.38
	Fu.C.17	0.23	0.33	0.800	0.08	0.000	0.000 T	26.40	0.25	-0.40	-0.40
	Fu.C.18	0.31	0.39	0.800	0.22	0.000	0.000 T	63.02	0.19	-0.28	-0.28
	Fu.C.19	0.08	0.14	0.700	-0.06	0.000	0.000 T	28.90	0.17	-0.32	-0.32
	Fu.C.20	0.62	0.76	1.000	0.60	0.000	0.000 T	98.33	0.29	-0.32	-0.32
	Fu.C.21	0.39	0.51	0.900	0.31	0.000	0.000 T	64.20	0.27	-0.36	-0.36
	Fu.C.22	0.31	0.39	0.800	0.22	0.000	0.000 T	63.02	0.19	-0.28	-0.28
	Fu.C.23	0.08	0.14	0.700	-0.06	0.000	0.000 T	28.90	0.17	-0.32	-0.32
	Fu.C.24	0.62	0.76	1.000	0.60	0.000	0.000 T	98.33	0.29	-0.32	-0.32
	Fu.C.25	0.39	0.51	0.900	0.31	0.000	0.000 T	64.20	0.27	-0.36	-0.36
	Fu.C.26	0.79	0.96	1.100	0.83	0.000	0.000 T	115.68	0.30	0.30	-0.28
	Fu.C.27	0.26	0.39	0.800	0.15	0.000	0.000 T	37.57	0.31	-0.42	-0.42
	Fu.C.28	0.18	0.26	0.800	0.10	0.000	0.000 T	25.04	0.21	-0.28	-0.28
	Fu.C.29	0.56	0.71	1.000	0.54	0.000	0.000 T	72.39	0.30	-0.32	-0.32
	Fu.C.30	0.55	0.62	0.700	0.34	0.000	0.000 T	58.84	0.21	-0.43	-0.43
	Fu.C.31	0.32	0.51	1.100	0.38	0.000	0.000 T	58.58	0.35	0.35	-0.29
	Fu.C.32	0.34	0.46	0.900	0.26	0.000	0.000 T	54.20	0.28	-0.36	-0.36
	Fu.C.33	0.30	0.44	0.900	0.26	0.000	0.000 T	49.45	0.30	-0.34	-0.34
	Fu.C.34	0.29	0.41	0.900	0.21	0.000	0.000 T	44.85	0.28	-0.36	-0.36
	Fu.C.35	0.26	0.39	0.900	0.18	0.000	0.000 T	40.26	0.28	-0.36	-0.36
	Fu.C.36	0.24	0.36	0.900	0.15	0.000	0.000 T	35.71	0.28	-0.37	-0.37
	Fu.C.37	0.88	0.97	0.800	0.75	0.000	0.000 T	97.82	0.22	-0.37	-0.37
S24	Fu.C.1	0.00	0.02	0.885	0.00	0.000	0.000 D	-29.73	0.05	0.05	-0.04
	Fu.C.2	0.00	0.01	0.885	0.00	0.000	0.000 T	3.29	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.885	0.00	0.000	0.000 T	7.32	0.03	0.03	-0.03
	Fu.C.4	0.00	0.01	0.885	0.00	0.000	0.000 T	3.39	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.885	0.00	0.000	0.000 T	7.43	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.885	0.00	0.000	0.000 D	-7.33	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.885	0.00	0.000	0.000 D	-3.29	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.885	0.00	0.000	0.000 D	-7.23	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.885	0.00	0.000	0.000 D	-3.18	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.885	0.00	0.000	0.000 T	16.16	0.03	0.03	-0.03
	Fu.C.11	0.00	0.01	0.885	0.00	0.000	0.000 T	18.79	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.885	0.00	0.000	0.000 T	16.27	0.03	0.03	-0.03
	Fu.C.13	0.00	0.01	0.885	0.00	0.000	0.000 T	18.90	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.885	0.00	0.000	0.000 T	5.72	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.885	0.00	0.000	0.000 T	8.36	0.04	0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S24	Fu.C.16	0.00	0.02	0.885	0.00	0.000	0.000 T	5.83	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.885	0.00	0.000	0.000 T	8.47	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.885	0.00	0.000	0.000 T	1.91	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.885	0.00	0.000	0.000 T	8.97	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.885	0.00	0.000	0.000 D	-8.69	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.885	0.00	0.000	0.000 D	-1.61	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.885	0.00	0.000	0.000 T	1.91	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.885	0.00	0.000	0.000 T	8.97	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.885	0.00	0.000	0.000 D	-8.69	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.885	0.00	0.000	0.000 D	-1.61	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.885	0.00	0.000	0.000 D	-16.24	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	0.885	0.00	0.000	0.000 T	1.08	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.01	0.885	0.00	0.000	0.000 T	0.72	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.885	0.00	0.000	0.000 D	-1.21	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.885	0.00	0.000	0.000 T	5.81	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.885	0.00	0.000	0.000 D	-10.13	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	0.885	0.00	0.000	0.000 D	-6.96	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.885	0.00	0.000	0.000 D	-5.57	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	0.885	0.00	0.000	0.000 D	-3.64	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.885	0.00	0.000	0.000 D	-1.86	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.885	0.00	0.000	0.000 T	0.06	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.885	0.00	0.000	0.000 T	3.75	0.04	-0.04	-0.04
S25	Fu.C.1	-2.06	2.14	1.000	-1.58	0.000	0.000 D	-199.27	8.11	8.11	-7.60
	Fu.C.2	0.40	-1.14	0.900	1.24	0.000	0.000 T	31.61	-3.45	4.30	4.30
	Fu.C.3	0.35	-1.19	0.900	1.18	0.000	0.000 T	44.26	-3.45	4.29	4.29
	Fu.C.4	0.42	-1.12	0.900	1.26	0.000	0.000 T	28.94	-3.45	4.30	4.30
	Fu.C.5	0.37	-1.17	0.900	1.20	0.000	0.000 T	41.59	-3.45	4.29	4.29
	Fu.C.6	-0.30	-0.55	0.600	0.66	0.000	0.000 D	-25.22	-0.78	1.74	1.74
	Fu.C.7	-0.35	-0.59	0.600	0.60	0.000	0.000 D	-12.57	-0.79	1.73	1.73
	Fu.C.8	-0.28	-0.53	0.600	0.68	0.000	0.000 D	-27.92	-0.79	1.74	1.74
	Fu.C.9	-0.33	-0.57	0.600	0.62	0.000	0.000 D	-15.27	-0.79	1.73	1.73
	Fu.C.10	-0.44			-0.04	0.000	0.000 T	16.93	0.24	0.24	0.17
	Fu.C.11	-0.05	-0.67	0.900	0.45	0.000	0.000 T	41.36	-1.44	1.95	1.95
	Fu.C.12	-0.42			-0.02	0.000	0.000 T	14.26	0.24	0.24	0.17
	Fu.C.13	-0.03	-0.65	0.900	0.47	0.000	0.000 T	38.69	-1.45	1.95	1.95
	Fu.C.14	-1.15	0.46	1.100	-0.63	0.000	0.000 D	-39.90	2.92	2.92	-2.40
	Fu.C.15	-0.75	0.07	1.301	-0.14	0.000	0.000 D	-15.47	1.22	1.22	-0.61
	Fu.C.16	-1.13	0.48	1.100	-0.61	0.000	0.000 D	-42.60	2.92	2.92	-2.40
	Fu.C.17	-0.73	0.08	1.301	-0.12	0.000	0.000 D	-18.17	1.22	1.22	-0.61
	Fu.C.18	-0.25			0.27	0.000	0.000 D	-36.05	0.29	0.29	0.22
	Fu.C.19	0.11	-0.49	0.800	0.67	0.000	0.000 T	2.40	-1.42	1.99	1.99
	Fu.C.20	-0.95	0.72	1.100	-0.32	0.000	0.000 D	-92.93	2.99	2.99	-2.36
	Fu.C.21	-0.60	0.27	1.401	0.08	0.000	0.000 D	-54.50	1.26	1.26	-0.58
	Fu.C.22	-0.25			0.27	0.000	0.000 D	-36.05	0.29	0.29	0.22
	Fu.C.23	0.11	-0.49	0.800	0.67	0.000	0.000 T	2.40	-1.42	1.99	1.99
	Fu.C.24	-0.95	0.72	1.100	-0.32	0.000	0.000 D	-92.93	2.99	2.99	-2.36
	Fu.C.25	-0.60	0.27	1.401	0.08	0.000	0.000 D	-54.50	1.26	1.26	-0.58
	Fu.C.26	-1.37	1.19	1.100	-0.78	0.000	0.000 D	-126.30	4.78	4.78	-4.19
	Fu.C.27	-0.57			0.22	0.000	0.000 D	-37.79	0.67	0.67	0.11
	Fu.C.28	-0.38			0.15	0.000	0.000 D	-25.19	0.45	0.45	0.07
	Fu.C.29	-1.33	2.63	1.000	-1.24	0.000	0.000 D	-74.04	7.86	7.86	-7.77
	Fu.C.30	-1.87			0.64	0.000	0.000 D	-56.26	1.48	1.48	1.01
	Fu.C.31	-0.02			-1.13	0.000	0.000 D	-65.31	-0.31	-0.78	-0.78
	Fu.C.32	-0.51			0.67	0.000	0.000 D	-59.13	0.84	0.84	0.33
	Fu.C.33	-0.41			0.19	0.000	0.000 D	-53.48	0.55	0.55	0.05
	Fu.C.34	-0.46			0.28	0.000	0.000 D	-47.75	0.62	0.62	0.12
	Fu.C.35	-0.47			0.23	0.000	0.000 D	-42.09	0.60	0.60	0.10
	Fu.C.36	-0.50			0.21	0.000	0.000 D	-36.44	0.60	0.60	0.10
	Fu.C.37	-2.70	2.22	1.100	-0.80	0.000	0.000 D	-96.69	8.74	8.74	-6.87
S27	Fu.C.1	0.00	0.02	0.885	0.00	0.000	0.000 T	10.02	0.04	-0.04	-0.04
	Fu.C.2	0.00	0.01	0.885	0.00	0.000	0.000 T	6.66	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.885	0.00	0.000	0.000 T	2.77	0.03	0.03	-0.03
	Fu.C.4	0.00	0.01	0.885	0.00	0.000	0.000 T	6.57	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.885	0.00	0.000	0.000 T	2.67	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.885	0.00	0.000	0.000 T	10.58	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.885	0.00	0.000	0.000 T	6.69	0.04	-0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S27	Fu.C.8	0.00	0.02	0.885	0.00	0.000	0.000 T	10.48	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.885	0.00	0.000	0.000 T	6.59	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.885	0.00	0.000	0.000 D	-15.59	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.885	0.00	0.000	0.000 D	-13.82	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.885	0.00	0.000	0.000 D	-15.69	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.885	0.00	0.000	0.000 D	-13.92	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.885	0.00	0.000	0.000 D	-11.77	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.885	0.00	0.000	0.000 D	-10.00	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.885	0.00	0.000	0.000 D	-11.88	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.885	0.00	0.000	0.000 D	-10.11	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.885	0.00	0.000	0.000 D	-1.66	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.885	0.00	0.000	0.000 D	-4.24	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	0.885	0.00	0.000	0.000 T	2.28	0.04	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.885	0.00	0.000	0.000 D	-0.42	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.885	0.00	0.000	0.000 D	-1.66	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.885	0.00	0.000	0.000 D	-4.24	0.03	-0.03	-0.03
	Fu.C.24	0.00	0.02	0.885	0.00	0.000	0.000 T	2.28	0.04	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.885	0.00	0.000	0.000 D	-0.42	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.885	0.00	0.000	0.000 T	5.17	0.04	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.885	0.00	0.000	0.000 D	-1.31	0.05	0.05	-0.05
	Fu.C.28	0.00	0.01	0.885	0.00	0.000	0.000 D	-0.87	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.885	0.00	0.000	0.000 D	-9.66	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.885	0.00	0.000	0.000 D	-4.47	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.885	0.00	0.000	0.000 D	-0.65	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	0.885	0.00	0.000	0.000 T	7.78	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.885	0.00	0.000	0.000 T	4.74	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.885	0.00	0.000	0.000 T	3.33	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.885	0.00	0.000	0.000 T	1.52	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.885	0.00	0.000	0.000 D	-0.30	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	0.885	0.00	0.000	0.000 D	-12.97	0.04	0.04	-0.04
S28	Fu.C.1	1.40	1.49	1.000	1.38	0.000	0.000 T	215.10	0.18	-0.23	-0.23
	Fu.C.2	-0.40	-0.29	0.900	-0.43	0.000	0.000 D	-47.82	0.23	-0.25	-0.25
	Fu.C.3	-0.47	-0.37	0.900	-0.51	0.000	0.000 D	-62.68	0.22	-0.26	-0.26
	Fu.C.4	-0.37	-0.27	0.900	-0.40	0.000	0.000 D	-40.24	0.23	-0.26	-0.26
	Fu.C.5	-0.44	-0.34	0.900	-0.48	0.000	0.000 D	-55.11	0.22	-0.26	-0.26
	Fu.C.6	-0.03	0.12	1.000	-0.05	0.000	0.000 D	-0.50	0.32	-0.34	-0.34
	Fu.C.7	-0.10	0.04	1.000	-0.13	0.000	0.000 D	-15.37	0.31	-0.34	-0.34
	Fu.C.8	0.00	0.15	1.000	-0.03	0.000	0.000 T	7.11	0.32	-0.34	-0.34
	Fu.C.9	-0.08	0.07	1.000	-0.11	0.000	0.000 D	-7.76	0.31	-0.35	-0.35
	Fu.C.10	-0.11	-0.04	0.800	-0.22	0.000	0.000 D	-11.84	0.19	-0.30	-0.30
	Fu.C.11	-0.32	-0.24	0.800	-0.42	0.000	0.000 D	-37.62	0.19	-0.29	-0.29
	Fu.C.12	-0.08	-0.01	0.800	-0.20	0.000	0.000 D	-4.27	0.19	-0.30	-0.30
	Fu.C.13	-0.29	-0.21	0.800	-0.39	0.000	0.000 D	-30.06	0.19	-0.30	-0.30
	Fu.C.14	0.26	0.37	0.800	0.16	0.000	0.000 T	35.46	0.27	-0.38	-0.38
	Fu.C.15	0.05	0.17	0.900	-0.04	0.000	0.000 T	9.67	0.28	-0.38	-0.38
	Fu.C.16	0.29	0.40	0.800	0.18	0.000	0.000 T	43.07	0.27	-0.38	-0.38
	Fu.C.17	0.08	0.20	0.800	-0.02	0.000	0.000 T	17.28	0.28	-0.38	-0.38
	Fu.C.18	0.22	0.31	0.900	0.16	0.000	0.000 T	61.29	0.21	-0.27	-0.27
	Fu.C.19	-0.06	0.03	0.900	-0.14	0.000	0.000 T	19.05	0.21	-0.28	-0.28
	Fu.C.20	0.60	0.72	0.900	0.54	0.000	0.000 T	108.82	0.27	-0.33	-0.33
	Fu.C.21	0.31	0.44	0.900	0.24	0.000	0.000 T	66.56	0.29	-0.35	-0.35
	Fu.C.22	0.22	0.31	0.900	0.16	0.000	0.000 T	61.29	0.21	-0.27	-0.27
	Fu.C.23	-0.06	0.03	0.900	-0.14	0.000	0.000 T	19.05	0.21	-0.28	-0.28
	Fu.C.24	0.60	0.72	0.900	0.54	0.000	0.000 T	108.82	0.27	-0.33	-0.33
	Fu.C.25	0.31	0.44	0.900	0.24	0.000	0.000 T	66.56	0.29	-0.35	-0.35
	Fu.C.26	0.83	0.96	0.900	0.80	0.000	0.000 T	134.84	0.26	-0.31	-0.31
	Fu.C.27	0.15	0.30	0.900	0.08	0.000	0.000 T	37.05	0.33	-0.40	-0.40
	Fu.C.28	0.10	0.20	0.900	0.06	0.000	0.000 T	24.70	0.22	-0.27	-0.27
	Fu.C.29	0.54	0.61	0.700	0.34	0.000	0.000 T	74.21	0.21	-0.42	-0.42
	Fu.C.30	0.34	0.41	0.700	0.14	0.000	0.000 T	52.76	0.22	-0.42	-0.42
	Fu.C.31	0.38	0.59	1.200	0.48	0.000	0.000 T	70.77	0.37	0.37	-0.26
	Fu.C.32	0.26	0.45	1.100	0.31	0.000	0.000 T	62.78	0.35	0.35	-0.29
	Fu.C.33	0.26	0.39	0.900	0.19	0.000	0.000 T	56.36	0.28	-0.36	-0.36
	Fu.C.34	0.21	0.36	1.000	0.18	0.000	0.000 T	49.56	0.31	-0.34	-0.34
	Fu.C.35	0.18	0.32	0.900	0.13	0.000	0.000 T	42.92	0.30	-0.35	-0.35
	Fu.C.36	0.15	0.29	0.900	0.09	0.000	0.000 T	36.28	0.30	-0.35	-0.35

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S28	Fu.C.37	0.75	0.77	0.400	0.40	0.000	0.000 T	94.01	0.13	-0.48	-0.48
S30	Fu.C.1	0.00	0.02	0.910	0.00	0.000	0.000 D	-9.23	0.04	0.04	-0.04
	Fu.C.2	0.00	0.01	0.910	0.00	0.000	0.000 D	-5.77	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.910	0.00	0.000	0.000 D	-1.96	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.910	0.00	0.000	0.000 D	-5.67	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.910	0.00	0.000	0.000 D	-1.85	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.910	0.00	0.000	0.000 D	-9.39	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.910	0.00	0.000	0.000 D	-5.57	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.910	0.00	0.000	0.000 D	-9.29	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.910	0.00	0.000	0.000 D	-5.47	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.910	0.00	0.000	0.000 T	16.09	0.03	0.03	-0.03
	Fu.C.11	0.00	0.01	0.910	0.00	0.000	0.000 T	14.37	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.910	0.00	0.000	0.000 T	16.19	0.03	0.03	-0.03
	Fu.C.13	0.00	0.01	0.910	0.00	0.000	0.000 T	14.47	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.910	0.00	0.000	0.000 T	12.55	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.910	0.00	0.000	0.000 T	10.84	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.910	0.00	0.000	0.000 T	12.65	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.910	0.00	0.000	0.000 T	10.95	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.910	0.00	0.000	0.000 T	2.38	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.910	0.00	0.000	0.000 T	4.95	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.910	0.00	0.000	0.000 D	-1.33	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.910	0.00	0.000	0.000 T	1.39	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.910	0.00	0.000	0.000 T	2.38	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.910	0.00	0.000	0.000 T	4.95	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.910	0.00	0.000	0.000 D	-1.33	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.910	0.00	0.000	0.000 T	1.39	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.910	0.00	0.000	0.000 D	-4.25	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	0.910	0.00	0.000	0.000 T	2.41	0.04	0.04	-0.04
	Fu.C.28	0.00	0.01	0.910	0.00	0.000	0.000 T	1.61	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.910	0.00	0.000	0.000 T	10.50	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.910	0.00	0.000	0.000 T	5.49	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.910	0.00	0.000	0.000 T	1.40	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.910	0.00	0.000	0.000 D	-6.69	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.910	0.00	0.000	0.000 D	-3.64	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	0.910	0.00	0.000	0.000 D	-2.34	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.910	0.00	0.000	0.000 D	-0.51	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.910	0.00	0.000	0.000 T	1.28	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.910	0.00	0.000	0.000 T	13.85	0.04	0.04	-0.04
S31	Fu.C.1	-1.58	2.35	1.000	-1.68	0.000	0.000 D	-221.71	7.85	-7.93	-7.93
	Fu.C.2	1.24	-0.81	1.000	1.00	0.000	0.000 T	29.86	-4.00	-4.00	3.76
	Fu.C.3	1.18	-0.87	1.000	0.96	0.000	0.000 T	46.99	-3.99	-3.99	3.76
	Fu.C.4	1.26	-0.80	1.000	1.02	0.000	0.000 T	27.30	-4.00	-4.00	3.76
	Fu.C.5	1.20	-0.85	1.000	0.97	0.000	0.000 T	44.44	-3.99	-3.99	3.76
	Fu.C.6	0.66	-0.10	1.100	0.40	0.000	0.000 D	-35.27	-1.38	-1.38	1.13
	Fu.C.7	0.60	-0.16	1.100	0.36	0.000	0.000 D	-18.14	-1.38	-1.38	1.14
	Fu.C.8	0.68	-0.09	1.100	0.42	0.000	0.000 D	-37.86	-1.38	-1.38	1.13
	Fu.C.9	0.62	-0.14	1.100	0.37	0.000	0.000 D	-20.72	-1.38	-1.38	1.14
	Fu.C.10	-0.04			0.14	0.000	0.000 T	34.94	0.12	0.12	0.06
	Fu.C.11	0.45	-0.40	1.000	0.45	0.000	0.000 T	59.97	-1.70	1.70	1.70
	Fu.C.12	-0.02			0.15	0.000	0.000 T	32.39	0.12	0.12	0.06
	Fu.C.13	0.47	-0.38	1.000	0.47	0.000	0.000 T	57.42	-1.70	1.70	1.70
	Fu.C.14	-0.63	0.79	1.000	-0.46	0.000	0.000 D	-30.11	2.75	2.75	-2.58
	Fu.C.15	-0.14	0.32	1.000	-0.14	0.000	0.000 D	-5.09	0.91	-0.92	-0.92
	Fu.C.16	-0.61	0.81	1.000	-0.45	0.000	0.000 D	-32.69	2.75	2.75	-2.58
	Fu.C.17	-0.12	0.34	1.000	-0.13	0.000	0.000 D	-7.66	0.91	-0.92	-0.92
	Fu.C.18	0.27			0.12	0.000	0.000 D	-34.07	-0.04	-0.11	-0.11
	Fu.C.19	0.67	-0.27	1.000	0.50	0.000	0.000 T	9.94	-1.79	-1.79	1.62
	Fu.C.20	-0.32	0.94	1.000	-0.49	0.000	0.000 D	-99.20	2.61	-2.77	-2.77
	Fu.C.21	0.08	0.46	0.900	-0.10	0.000	0.000 D	-55.20	0.84	-1.02	-1.02
	Fu.C.22	0.27			0.12	0.000	0.000 D	-34.07	-0.04	-0.11	-0.11
	Fu.C.23	0.67	-0.27	1.000	0.50	0.000	0.000 T	9.94	-1.79	-1.79	1.62
	Fu.C.24	-0.32	0.94	1.000	-0.49	0.000	0.000 D	-99.20	2.61	-2.77	-2.77
	Fu.C.25	0.08	0.46	0.900	-0.10	0.000	0.000 D	-55.20	0.84	-1.02	-1.02
	Fu.C.26	-0.78	1.41	1.000	-0.93	0.000	0.000 D	-138.35	4.44	-4.57	-4.57
	Fu.C.27	0.22	0.28	0.600	0.01	0.000	0.000 D	-36.50	0.18	-0.39	-0.39
	Fu.C.28	0.15	0.18	0.600	0.01	0.000	0.000 D	-24.33	0.12	-0.26	-0.26

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S31	Fu.C.29	-1.24			0.52	0.000	0.000 D	-69.08	1.11	1.11	0.63
	Fu.C.30	0.64			-0.03	0.000	0.000 D	-50.47	-0.07	-0.59	-0.59
	Fu.C.31	-1.13	2.69	1.000	-1.32	0.000	0.000 D	-70.90	7.72	-7.90	-7.90
	Fu.C.32	0.67			-1.32	0.000	0.000 D	-67.36	-0.74	-1.22	-1.22
	Fu.C.33	0.19	0.51	1.601	0.48	0.000	0.000 D	-59.24	0.41	0.41	-0.12
	Fu.C.34	0.28	0.30	0.400	-0.01	0.000	0.000 D	-51.61	0.11	-0.40	-0.40
	Fu.C.35	0.23	0.29	0.700	0.07	0.000	0.000 D	-43.92	0.18	-0.33	-0.33
	Fu.C.36	0.21	0.26	0.600	0.01	0.000	0.000 D	-36.29	0.16	-0.35	-0.35
S33	Fu.C.37	-0.80			0.48	0.000	0.000 D	-87.08	0.88	0.88	0.38
	Fu.C.1	0.00	0.02	0.910	0.00	0.000	0.000 D	-9.96	0.04	0.04	-0.04
	Fu.C.2	0.00	0.01	0.910	0.00	0.000	0.000 T	14.14	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.910	0.00	0.000	0.000 T	10.56	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.910	0.00	0.000	0.000 T	14.04	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.910	0.00	0.000	0.000 T	10.47	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.910	0.00	0.000	0.000 T	11.42	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.910	0.00	0.000	0.000 T	7.85	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.910	0.00	0.000	0.000 T	11.32	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.910	0.00	0.000	0.000 T	7.75	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.910	0.00	0.000	0.000 D	-14.35	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.910	0.00	0.000	0.000 D	-9.28	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.910	0.00	0.000	0.000 D	-14.45	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.910	0.00	0.000	0.000 D	-9.38	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.910	0.00	0.000	0.000 D	-17.16	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.910	0.00	0.000	0.000 D	-12.08	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.910	0.00	0.000	0.000 D	-17.26	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.910	0.00	0.000	0.000 D	-12.18	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.910	0.00	0.000	0.000 D	-2.60	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.910	0.00	0.000	0.000 D	-1.00	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	0.910	0.00	0.000	0.000 D	-5.41	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.910	0.00	0.000	0.000 D	-3.80	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.910	0.00	0.000	0.000 D	-2.60	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.910	0.00	0.000	0.000 D	-1.00	0.03	-0.03	-0.03
	Fu.C.24	0.00	0.02	0.910	0.00	0.000	0.000 D	-5.41	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.910	0.00	0.000	0.000 D	-3.80	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.910	0.00	0.000	0.000 D	-6.85	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	0.910	0.00	0.000	0.000 D	-3.33	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.01	0.910	0.00	0.000	0.000 D	-2.22	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.910	0.00	0.000	0.000 D	-9.55	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.910	0.00	0.000	0.000 D	-6.53	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.910	0.00	0.000	0.000 D	-12.13	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.910	0.00	0.000	0.000 D	-4.47	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.910	0.00	0.000	0.000 T	3.93	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.910	0.00	0.000	0.000 T	1.01	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.910	0.00	0.000	0.000 D	-0.44	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.910	0.00	0.000	0.000 D	-2.16	0.04	-0.04	-0.04
S34	Fu.C.37	0.00	0.02	0.910	0.00	0.000	0.000 D	-13.12	0.04	-0.04	-0.04
	Fu.C.1	1.38	1.47	1.000	1.36	0.000	0.000 T	225.76	0.19	-0.22	-0.22
	Fu.C.2	-0.43	-0.22	1.300	-0.28	0.000	0.000 D	-40.93	0.32	0.32	-0.17
	Fu.C.3	-0.51	-0.33	1.200	-0.41	0.000	0.000 D	-60.09	0.29	0.29	-0.19
	Fu.C.4	-0.40	-0.20	1.300	-0.25	0.000	0.000 D	-33.46	0.32	0.32	-0.17
	Fu.C.5	-0.48	-0.31	1.200	-0.39	0.000	0.000 D	-52.63	0.29	0.29	-0.19
	Fu.C.6	-0.05	0.19	1.200	0.10	0.000	0.000 T	10.57	0.40	0.40	-0.25
	Fu.C.7	-0.13	0.08	1.100	-0.04	0.000	0.000 D	-8.59	0.38	0.38	-0.28
	Fu.C.8	-0.03	0.22	1.200	0.12	0.000	0.000 T	18.07	0.40	0.40	-0.25
	Fu.C.9	-0.11	0.11	1.100	-0.01	0.000	0.000 D	-1.10	0.38	0.38	-0.28
	Fu.C.10	-0.22	-0.16	0.700	-0.37	0.000	0.000 D	-29.45	0.17	-0.32	-0.32
	Fu.C.11	-0.42	-0.34	0.800	-0.51	0.000	0.000 D	-53.28	0.19	-0.28	-0.28
	Fu.C.12	-0.20	-0.14	0.700	-0.35	0.000	0.000 D	-21.98	0.17	-0.32	-0.32
	Fu.C.13	-0.39	-0.31	0.800	-0.49	0.000	0.000 D	-45.83	0.19	-0.29	-0.29
	Fu.C.14	0.16	0.25	0.800	0.00	0.000	0.000 T	21.97	0.25	-0.41	-0.41
	Fu.C.15	-0.04	0.08	0.900	-0.14	0.000	0.000 D	-1.87	0.28	-0.38	-0.38
	Fu.C.16	0.18	0.27	0.800	0.02	0.000	0.000 T	29.47	0.25	-0.41	-0.41
	Fu.C.17	-0.02	0.10	0.900	-0.12	0.000	0.000 T	5.62	0.28	-0.38	-0.38
	Fu.C.18	0.16	0.28	1.000	0.15	0.000	0.000 T	59.10	0.24	-0.24	-0.24
	Fu.C.19	-0.14	-0.01	1.000	-0.14	0.000	0.000 T	13.98	0.25	-0.25	-0.25
	Fu.C.20	0.54	0.69	1.000	0.53	0.000	0.000 T	110.77	0.30	-0.31	-0.31

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S34	Fu.C.21	0.24	0.40	1.000	0.24	0.000	0.000 T	65.63	0.32	-0.32	-0.32
	Fu.C.22	0.16	0.28	1.000	0.15	0.000	0.000 T	59.10	0.24	-0.24	-0.24
	Fu.C.23	-0.14	-0.01	1.000	-0.14	0.000	0.000 T	13.98	0.25	-0.25	-0.25
	Fu.C.24	0.54	0.69	1.000	0.53	0.000	0.000 T	110.77	0.30	-0.31	-0.31
	Fu.C.25	0.24	0.40	1.000	0.24	0.000	0.000 T	65.63	0.32	-0.32	-0.32
	Fu.C.26	0.80	0.93	1.000	0.78	0.000	0.000 T	140.03	0.27	-0.29	-0.29
	Fu.C.27	0.08	0.27	1.000	0.08	0.000	0.000 T	35.06	0.37	-0.37	-0.37
	Fu.C.28	0.06	0.18	1.000	0.05	0.000	0.000 T	23.37	0.24	-0.25	-0.25
	Fu.C.29	0.34	0.43	0.800	0.18	0.000	0.000 T	63.04	0.24	-0.40	-0.40
	Fu.C.30	0.14	0.31	1.000	0.16	0.000	0.000 T	47.28	0.33	0.33	-0.31
	Fu.C.31	0.48	0.56	0.700	0.31	0.000	0.000 T	69.70	0.23	-0.40	-0.40
	Fu.C.32	0.31	0.56	1.300	0.48	0.000	0.000 T	70.78	0.40	0.40	-0.23
	Fu.C.33	0.19	0.41	1.200	0.30	0.000	0.000 T	60.97	0.38	0.38	-0.26
	Fu.C.34	0.18	0.34	1.000	0.17	0.000	0.000 T	52.66	0.31	-0.33	-0.33
	Fu.C.35	0.13	0.30	1.000	0.15	0.000	0.000 T	43.99	0.34	0.34	-0.31
	Fu.C.36	0.09	0.26	1.000	0.09	0.000	0.000 T	35.47	0.32	-0.33	-0.33
S36	Fu.C.37	0.40	0.50	0.800	0.27	0.000	0.000 T	79.14	0.25	-0.38	-0.38
	Fu.C.1	0.00	0.02	0.935	0.00	0.000	0.000 T	10.45	0.04	0.04	-0.04
	Fu.C.2	0.00	0.01	0.935	0.00	0.000	0.000 D	-13.26	0.03	0.03	-0.03
	Fu.C.3	0.00	0.01	0.935	0.00	0.000	0.000 D	-9.73	0.03	0.03	-0.03
	Fu.C.4	0.00	0.01	0.935	0.00	0.000	0.000 D	-13.17	0.03	0.03	-0.03
	Fu.C.5	0.00	0.01	0.935	0.00	0.000	0.000 D	-9.64	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.935	0.00	0.000	0.000 D	-10.35	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.935	0.00	0.000	0.000 D	-6.82	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.935	0.00	0.000	0.000 D	-10.26	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.935	0.00	0.000	0.000 D	-6.72	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.935	0.00	0.000	0.000 T	14.92	0.03	0.03	-0.03
	Fu.C.11	0.00	0.01	0.935	0.00	0.000	0.000 T	9.89	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.935	0.00	0.000	0.000 T	15.02	0.03	0.03	-0.03
	Fu.C.13	0.00	0.01	0.935	0.00	0.000	0.000 T	9.99	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.935	0.00	0.000	0.000 T	17.91	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.935	0.00	0.000	0.000 T	12.89	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.935	0.00	0.000	0.000 T	18.01	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.935	0.00	0.000	0.000 T	12.99	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.935	0.00	0.000	0.000 T	3.26	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.935	0.00	0.000	0.000 T	1.71	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.935	0.00	0.000	0.000 T	6.21	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.935	0.00	0.000	0.000 T	4.67	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.935	0.00	0.000	0.000 T	3.26	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.935	0.00	0.000	0.000 T	1.71	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.935	0.00	0.000	0.000 T	6.21	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.935	0.00	0.000	0.000 T	4.67	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.935	0.00	0.000	0.000 T	7.57	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	0.935	0.00	0.000	0.000 T	4.34	0.04	0.04	-0.04
	Fu.C.28	0.00	0.01	0.935	0.00	0.000	0.000 T	2.89	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.935	0.00	0.000	0.000 T	10.46	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.935	0.00	0.000	0.000 T	7.35	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.935	0.00	0.000	0.000 T	12.93	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	0.935	0.00	0.000	0.000 T	5.12	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.935	0.00	0.000	0.000 D	-2.96	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.935	0.00	0.000	0.000 T	0.12	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.935	0.00	0.000	0.000 T	1.33	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.935	0.00	0.000	0.000 T	3.08	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.935	0.00	0.000	0.000 T	13.95	0.04	0.04	-0.04
S37	Fu.C.1	-1.68	2.29	1.000	-1.70	0.000	0.000 D	-221.33	7.87	-7.90	-7.90
	Fu.C.2	1.00	-0.72	0.900	0.25	0.000	0.000 T	19.09	-3.66	-3.66	1.04
	Fu.C.3	0.96	-0.84	1.000	0.57	0.000	0.000 T	40.29	-3.74	-3.74	2.32
	Fu.C.4	1.02	-0.71	0.900	0.26	0.000	0.000 T	16.64	-3.66	-3.66	1.04
	Fu.C.5	0.97	-0.83	1.000	0.59	0.000	0.000 T	37.85	-3.74	-3.74	2.32
	Fu.C.6	0.40	0.11	1.401	-0.37	0.000	0.000 D	-46.67	-1.05	-1.58	-1.58
	Fu.C.7	0.36	-0.15	0.900	-0.04	0.000	0.000 D	-25.47	-1.13	-1.13	-0.30
	Fu.C.8	0.42	0.12	1.401	-0.35	0.000	0.000 D	-49.15	-1.05	-1.58	-1.58
	Fu.C.9	0.37	-0.13	0.900	-0.02	0.000	0.000 D	-27.94	-1.13	-1.13	-0.30
	Fu.C.10	0.14	-0.78	1.000	0.97	0.000	0.000 T	51.77	-1.00	3.69	3.69
	Fu.C.11	0.45	-0.91	1.000	0.93	0.000	0.000 T	73.15	-2.26	3.77	3.77
	Fu.C.12	0.15	-0.77	1.000	0.99	0.000	0.000 T	49.33	-1.00	3.70	3.70

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S37	Fu.C.13	0.47	-0.89	1.000	0.94	0.000	0.000 T	70.72	-2.26	3.77	3.77
	Fu.C.14	-0.46	-0.10	1.100	0.37	0.000	0.000 D	-13.85	1.61	1.61	1.08
	Fu.C.15	-0.14	-0.21	1.100	0.32	0.000	0.000 T	7.65	0.34	1.16	1.16
	Fu.C.16	-0.45	-0.08	1.100	0.38	0.000	0.000 D	-16.32	1.61	1.61	1.08
	Fu.C.17	-0.13	-0.20	1.100	0.34	0.000	0.000 T	5.18	0.34	1.16	1.16
	Fu.C.18	0.12	0.15	1.201	0.14	0.000	0.000 D	-31.37	0.05	0.05	-0.03
	Fu.C.19	0.50	-0.34	1.000	0.53	0.000	0.000 T	13.28	-1.69	1.72	1.72
	Fu.C.20	-0.49	0.86	1.000	-0.48	0.000	0.000 D	-97.10	2.69	2.69	-2.68
	Fu.C.21	-0.10	0.37	1.000	-0.08	0.000	0.000 D	-52.46	0.93	0.93	-0.91
	Fu.C.22	0.12	0.15	1.201	0.14	0.000	0.000 D	-31.37	0.05	0.05	-0.03
	Fu.C.23	0.50	-0.34	1.000	0.53	0.000	0.000 T	13.28	-1.69	1.72	1.72
	Fu.C.24	-0.49	0.86	1.000	-0.48	0.000	0.000 D	-97.10	2.69	2.69	-2.68
	Fu.C.25	-0.10	0.37	1.000	-0.08	0.000	0.000 D	-52.46	0.93	0.93	-0.91
	Fu.C.26	-0.93	1.34	1.000	-0.93	0.000	0.000 D	-136.93	4.50	-4.50	-4.50
	Fu.C.27	0.01	0.17	1.100	0.04	0.000	0.000 D	-33.42	0.30	0.30	-0.27
	Fu.C.28	0.01	0.11	1.100	0.03	0.000	0.000 D	-22.28	0.20	0.20	-0.18
	Fu.C.29	0.52	0.52	0.100	0.02	0.000	0.000 D	-58.09	0.01	-0.51	-0.51
	Fu.C.30	-0.03	0.17	1.301	0.10	0.000	0.000 D	-43.94	0.32	0.32	-0.19
	Fu.C.31	-1.32			0.50	0.000	0.000 D	-63.34	1.14	1.14	0.66
	Fu.C.32	-1.32	2.61	1.000	-1.30	0.000	0.000 D	-68.83	7.82	7.82	-7.80
	Fu.C.33	0.48			-1.30	0.000	0.000 D	-63.30	-0.64	-1.12	-1.12
	Fu.C.34	-0.01			0.49	0.000	0.000 D	-53.39	0.51	0.51	-0.01
	Fu.C.35	0.07	0.16	0.800	-0.01	0.000	0.000 D	-43.96	0.21	-0.29	-0.29
	Fu.C.36	0.01	0.18	1.100	0.08	0.000	0.000 D	-34.47	0.29	0.29	-0.22
	Fu.C.37	0.48	0.49	0.300	0.08	0.000	0.000 D	-72.29	0.07	-0.47	-0.47
S39	Fu.C.1	0.00	0.02	0.935	0.00	0.000	0.000 D	-28.41	0.04	-0.05	-0.05
	Fu.C.2	0.00	0.01	0.935	0.00	0.000	0.000 T	14.01	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.935	0.00	0.000	0.000 T	14.01	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.935	0.00	0.000	0.000 T	13.92	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.935	0.00	0.000	0.000 T	13.92	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.935	0.00	0.000	0.000 T	5.09	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.935	0.00	0.000	0.000 T	5.10	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.935	0.00	0.000	0.000 T	4.99	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.935	0.00	0.000	0.000 T	5.00	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.935	0.00	0.000	0.000 D	-5.75	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.935	0.00	0.000	0.000 D	-0.82	0.03	0.03	-0.03
	Fu.C.12	0.00	0.01	0.935	0.00	0.000	0.000 D	-5.85	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.935	0.00	0.000	0.000 D	-0.92	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.935	0.00	0.000	0.000 D	-14.73	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.935	0.00	0.000	0.000 D	-9.79	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.935	0.00	0.000	0.000 D	-14.82	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.935	0.00	0.000	0.000 D	-9.89	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.935	0.00	0.000	0.000 D	-3.33	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.935	0.00	0.000	0.000 T	2.29	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.935	0.00	0.000	0.000 D	-12.33	0.04	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.935	0.00	0.000	0.000 D	-6.78	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.935	0.00	0.000	0.000 D	-3.33	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.935	0.00	0.000	0.000 T	2.29	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.935	0.00	0.000	0.000 D	-12.33	0.04	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.935	0.00	0.000	0.000 D	-6.78	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.935	0.00	0.000	0.000 D	-17.84	0.04	-0.04	-0.04
	Fu.C.27	0.00	0.02	0.935	0.00	0.000	0.000 D	-5.00	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.01	0.935	0.00	0.000	0.000 D	-3.33	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.935	0.00	0.000	0.000 D	-11.17	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.935	0.00	0.000	0.000 D	-7.72	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.935	0.00	0.000	0.000 D	-11.86	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.935	0.00	0.000	0.000 D	-15.44	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.935	0.00	0.000	0.000 D	-7.78	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.935	0.00	0.000	0.000 T	0.60	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.935	0.00	0.000	0.000 D	-2.36	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.935	0.00	0.000	0.000 D	-3.59	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	0.935	0.00	0.000	0.000 D	-14.46	0.04	-0.04	-0.04
S40	Fu.C.1	1.36	1.40	0.600	1.20	0.000	0.000 T	214.78	0.15	-0.29	-0.29
	Fu.C.2	-0.28	-0.06	1.300	-0.11	0.000	0.000 D	-26.12	0.33	0.33	-0.16
	Fu.C.3	-0.41	-0.22	1.200	-0.29	0.000	0.000 D	-49.13	0.30	0.30	-0.18
	Fu.C.4	-0.25	-0.04	1.300	-0.09	0.000	0.000 D	-18.75	0.33	0.33	-0.16

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S40	Fu.C.5	-0.39	-0.20	1.200	-0.27	0.000	0.000 D	-41.78	0.30	0.30	-0.19
	Fu.C.6	0.10	0.32	1.200	0.22	0.000	0.000 T	22.32	0.39	0.39	-0.27
	Fu.C.7	-0.04	0.16	1.100	0.03	0.000	0.000 D	-0.70	0.37	0.37	-0.29
	Fu.C.8	0.12	0.35	1.200	0.24	0.000	0.000 T	29.71	0.39	0.39	-0.27
	Fu.C.9	-0.01	0.19	1.100	0.06	0.000	0.000 T	6.68	0.36	0.36	-0.29
	Fu.C.10	-0.37	-0.31	0.700	-0.50	0.000	0.000 D	-45.26	0.17	-0.31	-0.31
	Fu.C.11	-0.51	-0.42	0.900	-0.57	0.000	0.000 D	-63.62	0.20	-0.27	-0.27
	Fu.C.12	-0.35	-0.29	0.700	-0.48	0.000	0.000 D	-37.91	0.18	-0.31	-0.31
	Fu.C.13	-0.49	-0.40	0.900	-0.55	0.000	0.000 D	-56.27	0.20	-0.27	-0.27
	Fu.C.14	0.00	0.08	0.700	-0.18	0.000	0.000 T	3.03	0.24	-0.42	-0.42
	Fu.C.15	-0.14	-0.03	0.800	-0.25	0.000	0.000 D	-15.34	0.27	-0.38	-0.38
	Fu.C.16	0.02	0.11	0.700	-0.16	0.000	0.000 T	10.42	0.24	-0.42	-0.42
	Fu.C.17	-0.12	0.00	0.800	-0.23	0.000	0.000 D	-7.95	0.27	-0.38	-0.38
	Fu.C.18	0.15	0.26	0.900	0.12	0.000	0.000 T	55.98	0.23	-0.26	-0.26
	Fu.C.19	-0.14	-0.02	1.000	-0.14	0.000	0.000 T	12.56	0.24	-0.25	-0.25
	Fu.C.20	0.53	0.65	0.900	0.46	0.000	0.000 T	104.54	0.27	-0.34	-0.34
	Fu.C.21	0.24	0.38	0.900	0.19	0.000	0.000 T	61.10	0.30	-0.34	-0.34
	Fu.C.22	0.15	0.26	0.900	0.12	0.000	0.000 T	55.98	0.23	-0.26	-0.26
	Fu.C.23	-0.14	-0.02	1.000	-0.14	0.000	0.000 T	12.56	0.24	-0.25	-0.25
	Fu.C.24	0.53	0.65	0.900	0.46	0.000	0.000 T	104.54	0.27	-0.34	-0.34
	Fu.C.25	0.24	0.38	0.900	0.19	0.000	0.000 T	61.10	0.30	-0.34	-0.34
	Fu.C.26	0.78	0.88	0.800	0.68	0.000	0.000 T	132.29	0.24	-0.33	-0.33
	Fu.C.27	0.08	0.25	0.900	0.04	0.000	0.000 T	30.99	0.35	-0.39	-0.39
	Fu.C.28	0.05	0.16	0.900	0.03	0.000	0.000 T	20.66	0.23	-0.26	-0.26
	Fu.C.29	0.18	0.33	1.000	0.15	0.000	0.000 T	52.27	0.31	-0.34	-0.34
	Fu.C.30	0.16	0.28	0.900	0.09	0.000	0.000 T	39.83	0.29	-0.36	-0.36
	Fu.C.31	0.31	0.39	0.700	0.13	0.000	0.000 T	56.19	0.23	-0.41	-0.41
	Fu.C.32	0.48	0.54	0.700	0.26	0.000	0.000 T	65.66	0.21	-0.43	-0.43
	Fu.C.33	0.30	0.52	1.200	0.42	0.000	0.000 T	64.65	0.38	0.38	-0.26
	Fu.C.34	0.17	0.36	1.100	0.23	0.000	0.000 T	53.15	0.36	0.36	-0.29
	Fu.C.35	0.15	0.29	0.900	0.09	0.000	0.000 T	43.10	0.29	-0.36	-0.36
	Fu.C.36	0.09	0.25	1.000	0.08	0.000	0.000 T	32.71	0.32	-0.33	-0.33
	Fu.C.37	0.27	0.40	0.900	0.20	0.000	0.000 T	64.54	0.29	-0.35	-0.35
S42	Fu.C.1	0.00	0.02	0.960	0.00	0.000	0.000 T	28.82	0.04	0.04	-0.03
	Fu.C.2	0.00	0.02	0.960	0.00	0.000	0.000 D	-13.21	0.03	0.03	-0.03
	Fu.C.3	0.00	0.02	0.960	0.00	0.000	0.000 D	-13.18	0.03	0.03	-0.03
	Fu.C.4	0.00	0.02	0.960	0.00	0.000	0.000 D	-13.12	0.03	0.03	-0.03
	Fu.C.5	0.00	0.02	0.960	0.00	0.000	0.000 D	-13.09	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.960	0.00	0.000	0.000 D	-4.16	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.960	0.00	0.000	0.000 D	-4.13	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.960	0.00	0.000	0.000 D	-4.07	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.960	0.00	0.000	0.000 D	-4.04	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	0.960	0.00	0.000	0.000 T	6.48	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.960	0.00	0.000	0.000 T	1.57	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.960	0.00	0.000	0.000 T	6.58	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.960	0.00	0.000	0.000 T	1.66	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.960	0.00	0.000	0.000 T	15.62	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.960	0.00	0.000	0.000 T	10.70	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.960	0.00	0.000	0.000 T	15.71	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.960	0.00	0.000	0.000 T	10.79	0.04	0.04	-0.04
	Fu.C.18	0.00	0.01	0.960	0.00	0.000	0.000 T	4.01	0.03	0.03	-0.03
	Fu.C.19	0.00	0.01	0.960	0.00	0.000	0.000 D	-1.55	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.960	0.00	0.000	0.000 T	13.10	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.960	0.00	0.000	0.000 T	7.65	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.960	0.00	0.000	0.000 T	4.01	0.03	0.03	-0.03
	Fu.C.23	0.00	0.01	0.960	0.00	0.000	0.000 D	-1.55	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.960	0.00	0.000	0.000 T	13.10	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.960	0.00	0.000	0.000 T	7.65	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.960	0.00	0.000	0.000 T	18.51	0.04	0.04	-0.04
	Fu.C.27	0.00	0.02	0.960	0.00	0.000	0.000 T	6.02	0.04	0.04	-0.04
	Fu.C.28	0.00	0.01	0.960	0.00	0.000	0.000 T	4.01	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.960	0.00	0.000	0.000 T	11.98	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.960	0.00	0.000	0.000 T	8.61	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.960	0.00	0.000	0.000 T	12.77	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	0.960	0.00	0.000	0.000 T	16.24	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.960	0.00	0.000	0.000 T	8.44	0.04	0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S42	Fu.C.34	0.00	0.02	0.960	0.00	0.000	0.000 T	0.50	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.960	0.00	0.000	0.000 T	3.36	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.960	0.00	0.000	0.000 T	4.47	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.960	0.00	0.000	0.000 T	15.23	0.04	0.04	-0.04
S43	Fu.C.1	-1.70	2.18	1.000	-1.87	0.000	0.000 D	-200.61	7.77	-7.96	-7.96
	Fu.C.2	0.25			-0.09	0.000	0.000 T	4.50	-0.13	-0.20	-0.20
	Fu.C.3	0.57	-0.36	1.000	0.41	0.000	0.000 T	27.67	-1.78	-1.78	1.63
	Fu.C.4	0.26			-0.08	0.000	0.000 T	2.15	-0.13	-0.20	-0.20
	Fu.C.5	0.59	-0.34	1.000	0.43	0.000	0.000 T	25.33	-1.78	-1.78	1.63
	Fu.C.6	-0.37	0.78	0.900	-0.76	0.000	0.000 D	-55.07	2.47	-2.86	-2.86
	Fu.C.7	-0.04	0.32	0.900	-0.25	0.000	0.000 D	-31.89	0.81	-1.03	-1.03
	Fu.C.8	-0.35	0.80	0.900	-0.75	0.000	0.000 D	-57.45	2.47	-2.87	-2.87
	Fu.C.9	-0.02	0.34	0.900	-0.24	0.000	0.000 D	-34.26	0.81	-1.03	-1.03
	Fu.C.10	0.97	-0.91	1.000	1.07	0.000	0.000 T	63.12	-3.82	3.92	3.92
	Fu.C.11	0.93	-0.96	1.000	1.02	0.000	0.000 T	79.17	-3.82	3.91	3.91
	Fu.C.12	0.99	-0.90	1.000	1.08	0.000	0.000 T	60.78	-3.82	3.92	3.92
	Fu.C.13	0.94	-0.94	1.000	1.03	0.000	0.000 T	76.84	-3.82	3.91	3.91
	Fu.C.14	0.37	-0.24	1.000	0.41	0.000	0.000 T	3.85	-1.24	1.28	1.28
	Fu.C.15	0.32	-0.29	1.000	0.36	0.000	0.000 T	19.90	-1.24	1.27	1.27
	Fu.C.16	0.38	-0.23	1.000	0.42	0.000	0.000 T	1.49	-1.24	1.28	1.28
	Fu.C.17	0.34	-0.27	1.000	0.37	0.000	0.000 T	17.54	-1.24	1.27	1.27
	Fu.C.18	0.14	0.15	0.700	0.12	0.000	0.000 D	-27.89	0.02	-0.05	-0.05
	Fu.C.19	0.53	-0.32	1.000	0.54	0.000	0.000 T	13.08	-1.70	1.71	1.71
	Fu.C.20	-0.48	0.83	1.000	-0.56	0.000	0.000 D	-87.39	2.64	-2.72	-2.72
	Fu.C.21	-0.08	0.36	1.000	-0.13	0.000	0.000 D	-46.43	0.90	-0.95	-0.95
	Fu.C.22	0.14	0.15	0.700	0.12	0.000	0.000 D	-27.89	0.02	-0.05	-0.05
	Fu.C.23	0.53	-0.32	1.000	0.54	0.000	0.000 T	13.08	-1.70	1.71	1.71
	Fu.C.24	-0.48	0.83	1.000	-0.56	0.000	0.000 D	-87.39	2.64	-2.72	-2.72
	Fu.C.25	-0.08	0.36	1.000	-0.13	0.000	0.000 D	-46.43	0.90	-0.95	-0.95
	Fu.C.26	-0.93	1.28	1.000	-1.04	0.000	0.000 D	-123.40	4.43	-4.55	-4.55
	Fu.C.27	0.04	0.17	0.900	0.00	0.000	0.000 D	-28.50	0.27	-0.30	-0.30
	Fu.C.28	0.03	0.11	0.900	0.00	0.000	0.000 D	-19.00	0.18	-0.20	-0.20
	Fu.C.29	0.02	0.18	1.100	0.09	0.000	0.000 D	-46.59	0.29	0.29	-0.22
	Fu.C.30	0.10	0.19	0.900	0.03	0.000	0.000 D	-35.94	0.22	-0.29	-0.29
	Fu.C.31	0.50			-0.02	0.000	0.000 D	-50.12	0.00	-0.52	-0.52
	Fu.C.32	-1.30			0.46	0.000	0.000 D	-57.70	1.11	1.11	0.63
	Fu.C.33	-1.30	2.59	1.000	-1.35	0.000	0.000 D	-60.97	7.77	-7.82	-7.82
	Fu.C.34	0.49			-1.35	0.000	0.000 D	-53.62	-0.67	-1.15	-1.15
	Fu.C.35	-0.01	0.44	1.801	0.43	0.000	0.000 D	-42.06	0.48	0.48	-0.04
	Fu.C.36	0.08	0.14	0.700	-0.09	0.000	0.000 D	-30.97	0.17	-0.34	-0.34
	Fu.C.37	0.08	0.22	1.100	0.11	0.000	0.000 D	-57.17	0.27	0.27	-0.24
S45	Fu.C.1	0.00	0.02	0.960	0.00	0.000	0.000 D	-46.10	0.04	-0.05	-0.05
	Fu.C.2	0.00	0.01	0.960	0.00	0.000	0.000 T	12.26	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.960	0.00	0.000	0.000 T	16.38	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.960	0.00	0.000	0.000 T	12.17	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.960	0.00	0.000	0.000 T	16.29	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.960	0.00	0.000	0.000 D	-2.74	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.960	0.00	0.000	0.000 T	1.52	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.960	0.00	0.000	0.000 D	-2.83	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.960	0.00	0.000	0.000 T	1.44	0.04	0.04	-0.04
	Fu.C.10	0.00	0.01	0.960	0.00	0.000	0.000 T	2.82	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.960	0.00	0.000	0.000 T	7.54	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.960	0.00	0.000	0.000 T	2.73	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.960	0.00	0.000	0.000 T	7.45	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.960	0.00	0.000	0.000 D	-12.18	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.960	0.00	0.000	0.000 D	-7.46	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.960	0.00	0.000	0.000 D	-12.27	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.960	0.00	0.000	0.000 D	-7.55	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	0.960	0.00	0.000	0.000 D	-4.09	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.960	0.00	0.000	0.000 T	5.31	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.960	0.00	0.000	0.000 D	-19.00	0.04	-0.04	-0.04
	Fu.C.21	0.00	0.02	0.960	0.00	0.000	0.000 D	-9.69	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.01	0.960	0.00	0.000	0.000 D	-4.09	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.960	0.00	0.000	0.000 T	5.31	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.960	0.00	0.000	0.000 D	-19.00	0.04	-0.04	-0.04
	Fu.C.25	0.00	0.02	0.960	0.00	0.000	0.000 D	-9.69	0.04	-0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S45	Fu.C.26	0.00	0.02	0.960	0.00	0.000	0.000 D	-28.40	0.04	-0.05	-0.05
	Fu.C.27	0.00	0.02	0.960	0.00	0.000	0.000 D	-6.67	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.01	0.960	0.00	0.000	0.000 D	-4.44	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.960	0.00	0.000	0.000 D	-12.23	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.960	0.00	0.000	0.000 D	-9.10	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.960	0.00	0.000	0.000 D	-13.42	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.960	0.00	0.000	0.000 D	-15.12	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.960	0.00	0.000	0.000 D	-18.59	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.960	0.00	0.000	0.000 D	-10.94	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.960	0.00	0.000	0.000 D	-2.69	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.960	0.00	0.000	0.000 D	-5.49	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	0.960	0.00	0.000	0.000 D	-15.40	0.04	-0.04	-0.04
S46	Fu.C.1	1.20	1.24	0.600	0.99	0.000	0.000 T	184.66	0.15	-0.34	-0.34
	Fu.C.2	-0.11	0.04	1.100	-0.05	0.000	0.000 D	-11.80	0.28	0.28	-0.21
	Fu.C.3	-0.29	-0.13	1.200	-0.22	0.000	0.000 D	-34.83	0.28	0.28	-0.20
	Fu.C.4	-0.09	0.06	1.100	-0.03	0.000	0.000 D	-4.53	0.28	0.28	-0.22
	Fu.C.5	-0.27	-0.11	1.200	-0.20	0.000	0.000 D	-27.57	0.28	0.28	-0.21
	Fu.C.6	0.22	0.38	1.000	0.22	0.000	0.000 T	27.13	0.33	0.33	-0.32
	Fu.C.7	0.03	0.21	1.000	0.05	0.000	0.000 T	4.10	0.34	0.34	-0.32
	Fu.C.8	0.24	0.40	1.000	0.24	0.000	0.000 T	34.43	0.32	0.32	-0.32
	Fu.C.9	0.06	0.23	1.000	0.07	0.000	0.000 T	11.39	0.34	0.34	-0.32
	Fu.C.10	-0.50	-0.37	1.100	-0.48	0.000	0.000 D	-51.67	0.25	0.25	-0.22
	Fu.C.11	-0.57	-0.43	1.100	-0.53	0.000	0.000 D	-64.83	0.26	0.26	-0.21
	Fu.C.12	-0.48	-0.35	1.100	-0.46	0.000	0.000 D	-44.41	0.25	0.25	-0.23
	Fu.C.13	-0.55	-0.41	1.100	-0.51	0.000	0.000 D	-57.58	0.26	0.26	-0.21
	Fu.C.14	-0.18	-0.03	1.000	-0.21	0.000	0.000 D	-12.91	0.31	-0.34	-0.34
	Fu.C.15	-0.25	-0.09	1.000	-0.26	0.000	0.000 D	-26.07	0.32	-0.33	-0.33
	Fu.C.16	-0.16	-0.01	1.000	-0.19	0.000	0.000 D	-5.62	0.31	-0.34	-0.34
	Fu.C.17	-0.23	-0.07	1.000	-0.24	0.000	0.000 D	-18.79	0.32	-0.34	-0.34
	Fu.C.18	0.12	0.23	1.000	0.10	0.000	0.000 T	52.16	0.23	-0.25	-0.25
	Fu.C.19	-0.14	-0.01	1.000	-0.12	0.000	0.000 T	14.54	0.26	0.26	-0.24
	Fu.C.20	0.46	0.57	0.900	0.37	0.000	0.000 T	91.19	0.27	-0.35	-0.35
	Fu.C.21	0.19	0.33	0.900	0.15	0.000	0.000 T	53.57	0.30	-0.34	-0.34
	Fu.C.22	0.12	0.23	1.000	0.10	0.000	0.000 T	52.16	0.23	-0.25	-0.25
	Fu.C.23	-0.14	-0.01	1.000	-0.12	0.000	0.000 T	14.54	0.26	0.26	-0.24
	Fu.C.24	0.46	0.57	0.900	0.37	0.000	0.000 T	91.19	0.27	-0.35	-0.35
	Fu.C.25	0.19	0.33	0.900	0.15	0.000	0.000 T	53.57	0.30	-0.34	-0.34
	Fu.C.26	0.68	0.77	0.800	0.56	0.000	0.000 T	113.19	0.24	-0.35	-0.35
	Fu.C.27	0.04	0.21	1.000	0.02	0.000	0.000 T	25.26	0.35	-0.38	-0.38
	Fu.C.28	0.03	0.14	1.000	0.01	0.000	0.000 T	16.84	0.24	-0.25	-0.25
	Fu.C.29	0.15	0.28	0.900	0.08	0.000	0.000 T	40.13	0.29	-0.36	-0.36
	Fu.C.30	0.09	0.23	0.900	0.05	0.000	0.000 T	31.29	0.31	-0.34	-0.34
	Fu.C.31	0.13	0.28	1.000	0.11	0.000	0.000 T	43.27	0.31	-0.33	-0.33
	Fu.C.32	0.26	0.35	0.700	0.09	0.000	0.000 T	49.02	0.24	-0.41	-0.41
	Fu.C.33	0.42	0.49	0.700	0.21	0.000	0.000 T	56.16	0.22	-0.42	-0.42
	Fu.C.34	0.23	0.46	1.200	0.36	0.000	0.000 T	53.21	0.38	0.38	-0.26
	Fu.C.35	0.09	0.29	1.100	0.17	0.000	0.000 T	40.16	0.37	0.37	-0.28
	Fu.C.36	0.08	0.21	0.900	0.01	0.000	0.000 T	28.53	0.29	-0.36	-0.36
	Fu.C.37	0.20	0.32	0.900	0.12	0.000	0.000 T	48.95	0.28	-0.36	-0.36
S48	Fu.C.1	0.00	0.02	0.986	0.00	0.000	0.000 T	46.39	0.04	0.04	-0.03
	Fu.C.2	0.00	0.02	0.986	0.00	0.000	0.000 D	-11.45	0.03	0.03	-0.03
	Fu.C.3	0.00	0.02	0.986	0.00	0.000	0.000 D	-15.52	0.03	0.03	-0.03
	Fu.C.4	0.00	0.02	0.986	0.00	0.000	0.000 D	-11.36	0.03	0.03	-0.03
	Fu.C.5	0.00	0.02	0.986	0.00	0.000	0.000 D	-15.43	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	0.986	0.00	0.000	0.000 T	3.61	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	0.986	0.00	0.000	0.000 D	-0.60	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	0.986	0.00	0.000	0.000 T	3.70	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	0.986	0.00	0.000	0.000 D	-0.51	0.04	0.04	-0.04
	Fu.C.10	0.00	0.02	0.986	0.00	0.000	0.000 D	-2.12	0.03	0.03	-0.03
	Fu.C.11	0.00	0.02	0.986	0.00	0.000	0.000 D	-6.78	0.03	0.03	-0.03
	Fu.C.12	0.00	0.02	0.986	0.00	0.000	0.000 D	-2.02	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	0.986	0.00	0.000	0.000 D	-6.69	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	0.986	0.00	0.000	0.000 T	12.97	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	0.986	0.00	0.000	0.000 T	8.30	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	0.986	0.00	0.000	0.000 T	13.06	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	0.986	0.00	0.000	0.000 T	8.39	0.04	-0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S48	Fu.C.18	0.00	0.01	0.986	0.00	0.000	0.000 T	4.74	0.03	0.03	-0.03
	Fu.C.19	0.00	0.02	0.986	0.00	0.000	0.000 D	-4.55	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.986	0.00	0.000	0.000 T	19.70	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	0.986	0.00	0.000	0.000 T	10.52	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	0.986	0.00	0.000	0.000 T	4.74	0.03	0.03	-0.03
	Fu.C.23	0.00	0.02	0.986	0.00	0.000	0.000 D	-4.55	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.986	0.00	0.000	0.000 T	19.70	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	0.986	0.00	0.000	0.000 T	10.52	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	0.986	0.00	0.000	0.000 T	28.98	0.04	0.04	-0.03
	Fu.C.27	0.00	0.02	0.986	0.00	0.000	0.000 T	7.65	0.04	0.04	-0.04
	Fu.C.28	0.00	0.01	0.986	0.00	0.000	0.000 T	5.10	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	0.986	0.00	0.000	0.000 T	13.05	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	0.986	0.00	0.000	0.000 T	9.93	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	0.986	0.00	0.000	0.000 T	14.18	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	0.986	0.00	0.000	0.000 T	15.98	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	0.986	0.00	0.000	0.000 T	19.34	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	0.986	0.00	0.000	0.000 T	11.54	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	0.986	0.00	0.000	0.000 T	3.58	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	0.986	0.00	0.000	0.000 T	6.45	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	0.986	0.00	0.000	0.000 T	16.18	0.04	0.04	-0.04
S49	Fu.C.1	-1.87	2.10	1.000	-1.82	0.000	0.000 D	-161.64	7.84	7.84	-7.83
	Fu.C.2	-0.09			0.04	0.000	0.000 D	-8.91	0.10	0.10	0.03
	Fu.C.3	0.41	-0.41	1.000	0.47	0.000	0.000 T	12.34	-1.67	1.74	1.74
	Fu.C.4	-0.08			0.05	0.000	0.000 D	-11.17	0.10	0.10	0.03
	Fu.C.5	0.43	-0.39	1.000	0.49	0.000	0.000 T	10.09	-1.68	1.73	1.73
	Fu.C.6	-0.76	0.65	1.000	-0.61	0.000	0.000 D	-56.07	2.74	2.74	-2.59
	Fu.C.7	-0.25	0.25	1.000	-0.17	0.000	0.000 D	-34.92	0.96	0.96	-0.88
	Fu.C.8	-0.75	0.66	1.000	-0.60	0.000	0.000 D	-58.35	2.74	2.74	-2.59
	Fu.C.9	-0.24	0.26	1.000	-0.16	0.000	0.000 D	-37.19	0.96	0.96	-0.88
	Fu.C.10	1.07	-0.99	1.000	0.82	0.000	0.000 T	65.38	-3.99	-3.99	3.74
	Fu.C.11	1.02	-1.02	1.000	0.79	0.000	0.000 T	76.42	-3.98	-3.98	3.75
	Fu.C.12	1.08	-0.97	1.000	0.83	0.000	0.000 T	63.14	-4.00	-4.00	3.74
	Fu.C.13	1.03	-1.01	1.000	0.80	0.000	0.000 T	74.18	-3.98	-3.98	3.75
	Fu.C.14	0.41	-0.34	1.100	0.17	0.000	0.000 T	18.45	-1.38	-1.38	1.14
	Fu.C.15	0.36	-0.38	1.100	0.15	0.000	0.000 T	29.49	-1.36	-1.36	1.15
	Fu.C.16	0.42	-0.33	1.100	0.19	0.000	0.000 T	16.19	-1.38	-1.38	1.14
	Fu.C.17	0.37	-0.37	1.100	0.16	0.000	0.000 T	27.23	-1.36	-1.36	1.15
	Fu.C.18	0.12	0.13	0.700	0.10	0.000	0.000 D	-23.71	0.03	-0.05	-0.05
	Fu.C.19	0.54	-0.33	1.000	0.51	0.000	0.000 T	9.68	-1.72	-1.72	1.69
	Fu.C.20	-0.56	0.78	1.000	-0.56	0.000	0.000 D	-70.89	2.67	-2.68	-2.68
	Fu.C.21	-0.13	0.33	1.000	-0.14	0.000	0.000 D	-37.51	0.91	-0.93	-0.93
	Fu.C.22	0.12	0.13	0.700	0.10	0.000	0.000 D	-23.71	0.03	-0.05	-0.05
	Fu.C.23	0.54	-0.33	1.000	0.51	0.000	0.000 T	9.68	-1.72	-1.72	1.69
	Fu.C.24	-0.56	0.78	1.000	-0.56	0.000	0.000 D	-70.89	2.67	-2.68	-2.68
	Fu.C.25	-0.13	0.33	1.000	-0.14	0.000	0.000 D	-37.51	0.91	-0.93	-0.93
	Fu.C.26	-1.04	1.22	1.000	-1.02	0.000	0.000 D	-99.03	4.48	4.48	-4.48
	Fu.C.27	0.00	0.14	1.000	-0.01	0.000	0.000 D	-21.97	0.28	-0.29	-0.29
	Fu.C.28	0.00	0.09	1.000	-0.01	0.000	0.000 D	-14.65	0.18	-0.19	-0.19
	Fu.C.29	0.09	0.18	0.900	0.02	0.000	0.000 D	-34.05	0.22	-0.29	-0.29
	Fu.C.30	0.03	0.14	1.000	0.01	0.000	0.000 D	-26.79	0.24	-0.26	-0.26
	Fu.C.31	-0.02	0.15	1.201	0.06	0.000	0.000 D	-36.55	0.29	0.29	-0.22
	Fu.C.32	0.46			-0.05	0.000	0.000 D	-41.40	0.00	-0.51	-0.51
	Fu.C.33	-1.35			0.42	0.000	0.000 D	-46.76	1.12	1.12	0.63
	Fu.C.34	-1.35	2.54	1.000	-1.38	0.000	0.000 D	-47.98	7.77	-7.80	-7.80
	Fu.C.35	0.43			-1.42	0.000	0.000 D	-38.94	-0.68	-1.16	-1.16
	Fu.C.36	-0.09			0.47	0.000	0.000 D	-25.86	0.53	0.53	0.02
	Fu.C.37	0.11	0.20	0.900	0.04	0.000	0.000 D	-41.28	0.22	-0.29	-0.29
S51	Fu.C.1	0.00	0.03	0.986	0.00	0.000	0.000 D	-62.16	0.05	-0.06	-0.06
	Fu.C.2	0.00	0.01	0.986	0.00	0.000	0.000 T	10.90	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	0.986	0.00	0.000	0.000 T	18.64	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	0.986	0.00	0.000	0.000 T	10.81	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	0.986	0.00	0.000	0.000 T	18.55	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	0.986	0.00	0.000	0.000 D	-9.49	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	0.986	0.00	0.000	0.000 D	-1.74	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	0.986	0.00	0.000	0.000 D	-9.57	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	0.986	0.00	0.000	0.000 D	-1.82	0.04	-0.04	-0.04

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S51	Fu.C.10	0.00	0.01	0.986	0.00	0.000	0.000 T	10.01	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	0.986	0.00	0.000	0.000 T	14.52	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	0.986	0.00	0.000	0.000 T	9.92	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	0.986	0.00	0.000	0.000 T	14.43	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	0.986	0.00	0.000	0.000 D	-10.37	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	0.986	0.00	0.000	0.000 D	-5.86	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	0.986	0.00	0.000	0.000 D	-10.46	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	0.986	0.00	0.000	0.000 D	-5.95	0.04	0.04	-0.04
	Fu.C.18	0.00	0.02	0.986	0.00	0.000	0.000 D	-4.80	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	0.986	0.00	0.000	0.000 T	8.01	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	0.986	0.00	0.000	0.000 D	-25.09	0.04	-0.05	-0.05
	Fu.C.21	0.00	0.02	0.986	0.00	0.000	0.000 D	-12.37	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.02	0.986	0.00	0.000	0.000 D	-4.80	0.03	-0.03	-0.03
	Fu.C.23	0.00	0.01	0.986	0.00	0.000	0.000 T	8.01	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	0.986	0.00	0.000	0.000 D	-25.09	0.04	-0.05	-0.05
	Fu.C.25	0.00	0.02	0.986	0.00	0.000	0.000 D	-12.37	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.02	0.986	0.00	0.000	0.000 D	-38.01	0.04	-0.05	-0.05
	Fu.C.27	0.00	0.02	0.986	0.00	0.000	0.000 D	-8.21	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.02	0.986	0.00	0.000	0.000 D	-5.47	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	0.986	0.00	0.000	0.000 D	-13.36	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	0.986	0.00	0.000	0.000 D	-10.32	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	0.986	0.00	0.000	0.000 D	-14.35	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	0.986	0.00	0.000	0.000 D	-16.49	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	0.986	0.00	0.000	0.000 D	-18.11	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	0.986	0.00	0.000	0.000 D	-21.44	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	0.986	0.00	0.000	0.000 D	-13.86	0.04	-0.04	-0.04
	Fu.C.36	0.00	0.02	0.986	0.00	0.000	0.000 D	-5.35	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	0.986	0.00	0.000	0.000 D	-16.38	0.04	-0.04	-0.04
S52	Fu.C.1	0.99	1.01	0.400	0.63	0.000	0.000 T	137.22	0.12	-0.45	-0.45
	Fu.C.2	-0.05	0.09	1.100	-0.01	0.000	0.000 T	0.34	0.27	0.27	-0.23
	Fu.C.3	-0.22	-0.05	1.200	-0.14	0.000	0.000 D	-18.48	0.29	0.29	-0.21
	Fu.C.4	-0.03	0.11	1.100	0.01	0.000	0.000 T	7.52	0.27	0.27	-0.23
	Fu.C.5	-0.20	-0.03	1.200	-0.12	0.000	0.000 D	-11.32	0.29	0.29	-0.21
	Fu.C.6	0.22	0.35	0.900	0.15	0.000	0.000 T	23.95	0.29	-0.36	-0.36
	Fu.C.7	0.05	0.20	1.000	0.02	0.000	0.000 T	5.13	0.31	-0.34	-0.34
	Fu.C.8	0.24	0.37	0.900	0.17	0.000	0.000 T	31.16	0.29	-0.36	-0.36
	Fu.C.9	0.07	0.22	0.900	0.04	0.000	0.000 T	12.33	0.31	-0.34	-0.34
	Fu.C.10	-0.48	-0.35	1.000	-0.46	0.000	0.000 D	-49.18	0.25	0.25	-0.23
	Fu.C.11	-0.53	-0.39	1.100	-0.48	0.000	0.000 D	-57.52	0.26	0.26	-0.21
	Fu.C.12	-0.46	-0.33	1.000	-0.44	0.000	0.000 D	-42.02	0.25	0.25	-0.23
	Fu.C.13	-0.51	-0.37	1.100	-0.47	0.000	0.000 D	-50.36	0.26	0.26	-0.22
	Fu.C.14	-0.21	-0.09	0.800	-0.31	0.000	0.000 D	-25.75	0.28	-0.38	-0.38
	Fu.C.15	-0.26	-0.13	0.900	-0.33	0.000	0.000 D	-34.10	0.29	-0.36	-0.36
	Fu.C.16	-0.19	-0.07	0.800	-0.29	0.000	0.000 D	-18.56	0.28	-0.38	-0.38
	Fu.C.17	-0.24	-0.11	0.900	-0.31	0.000	0.000 D	-26.91	0.29	-0.36	-0.36
	Fu.C.18	0.10	0.20	0.900	0.06	0.000	0.000 T	47.68	0.22	-0.26	-0.26
	Fu.C.19	-0.12	0.01	1.100	-0.10	0.000	0.000 T	19.56	0.26	0.26	-0.23
	Fu.C.20	0.37	0.46	0.800	0.22	0.000	0.000 T	71.38	0.24	-0.39	-0.39
	Fu.C.21	0.15	0.27	0.900	0.06	0.000	0.000 T	43.26	0.28	-0.37	-0.37
	Fu.C.22	0.10	0.20	0.900	0.06	0.000	0.000 T	47.68	0.22	-0.26	-0.26
	Fu.C.23	-0.12	0.01	1.100	-0.10	0.000	0.000 T	19.56	0.26	0.26	-0.23
	Fu.C.24	0.37	0.46	0.800	0.22	0.000	0.000 T	71.38	0.24	-0.39	-0.39
	Fu.C.25	0.15	0.27	0.900	0.06	0.000	0.000 T	43.26	0.28	-0.37	-0.37
	Fu.C.26	0.56	0.62	0.600	0.33	0.000	0.000 T	83.79	0.20	-0.42	-0.42
	Fu.C.27	0.02	0.17	0.900	-0.05	0.000	0.000 T	17.99	0.34	-0.40	-0.40
	Fu.C.28	0.01	0.11	0.900	-0.03	0.000	0.000 T	11.99	0.22	-0.27	-0.27
	Fu.C.29	0.08	0.20	0.900	-0.01	0.000	0.000 T	27.22	0.28	-0.37	-0.37
	Fu.C.30	0.05	0.18	0.900	-0.03	0.000	0.000 T	21.59	0.29	-0.37	-0.37
	Fu.C.31	0.11	0.22	0.800	-0.01	0.000	0.000 T	29.16	0.27	-0.38	-0.38
	Fu.C.32	0.09	0.22	0.900	0.01	0.000	0.000 T	33.11	0.29	-0.36	-0.36
	Fu.C.33	0.21	0.28	0.700	-0.02	0.000	0.000 T	36.75	0.21	-0.44	-0.44
	Fu.C.34	0.36	0.41	0.600	0.09	0.000	0.000 T	41.74	0.19	-0.45	-0.45
	Fu.C.35	0.17	0.36	1.100	0.22	0.000	0.000 T	37.01	0.35	0.35	-0.30
	Fu.C.36	0.01	0.20	1.100	0.06	0.000	0.000 T	22.47	0.35	0.35	-0.30
	Fu.C.37	0.12	0.23	0.800	0.00	0.000	0.000 T	32.80	0.27	-0.38	-0.38
S54	Fu.C.1	0.00	0.02	1.012	0.00	0.000	0.000 T	62.81	0.04	0.04	-0.02

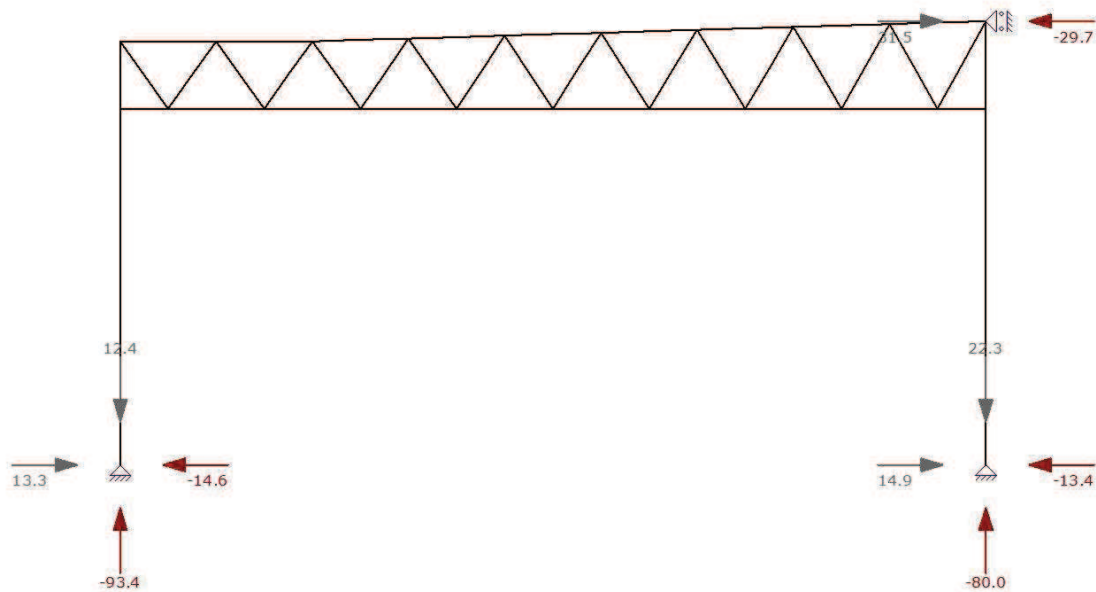
Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S54	Fu.C.2	0.00	0.02	1.012	0.00	0.000	0.000 D	-10.09	0.03	0.03	-0.03
	Fu.C.3	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.79	0.03	0.03	-0.03
	Fu.C.4	0.00	0.02	1.012	0.00	0.000	0.000 D	-10.00	0.03	0.03	-0.03
	Fu.C.5	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.70	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	1.012	0.00	0.000	0.000 T	10.45	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	1.012	0.00	0.000	0.000 T	2.74	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	1.012	0.00	0.000	0.000 T	10.53	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	1.012	0.00	0.000	0.000 T	2.82	0.04	0.04	-0.04
	Fu.C.10	0.00	0.02	1.012	0.00	0.000	0.000 D	-9.27	0.03	0.03	-0.03
	Fu.C.11	0.00	0.02	1.012	0.00	0.000	0.000 D	-13.76	0.03	0.03	-0.03
	Fu.C.12	0.00	0.02	1.012	0.00	0.000	0.000 D	-9.18	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	1.012	0.00	0.000	0.000 D	-13.67	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	1.012	0.00	0.000	0.000 T	11.28	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	1.012	0.00	0.000	0.000 T	6.78	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	1.012	0.00	0.000	0.000 T	11.37	0.04	0.04	-0.04
	Fu.C.17	0.00	0.02	1.012	0.00	0.000	0.000 T	6.87	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.01	1.012	0.00	0.000	0.000 T	5.50	0.03	0.03	-0.03
	Fu.C.19	0.00	0.02	1.012	0.00	0.000	0.000 D	-7.25	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.012	0.00	0.000	0.000 T	25.94	0.04	0.04	-0.04
	Fu.C.21	0.00	0.02	1.012	0.00	0.000	0.000 T	13.28	0.04	0.04	-0.04
	Fu.C.22	0.00	0.01	1.012	0.00	0.000	0.000 T	5.50	0.03	0.03	-0.03
	Fu.C.23	0.00	0.02	1.012	0.00	0.000	0.000 D	-7.25	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.012	0.00	0.000	0.000 T	25.94	0.04	0.04	-0.04
	Fu.C.25	0.00	0.02	1.012	0.00	0.000	0.000 T	13.28	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	1.012	0.00	0.000	0.000 T	38.79	0.04	0.04	-0.03
	Fu.C.27	0.00	0.02	1.012	0.00	0.000	0.000 T	9.27	0.04	0.04	-0.04
	Fu.C.28	0.00	0.01	1.012	0.00	0.000	0.000 T	6.18	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	1.012	0.00	0.000	0.000 T	14.28	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	1.012	0.00	0.000	0.000 T	11.25	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	1.012	0.00	0.000	0.000 T	15.27	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	1.012	0.00	0.000	0.000 T	17.37	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.012	0.00	0.000	0.000 T	19.09	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	1.012	0.00	0.000	0.000 T	22.33	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	1.012	0.00	0.000	0.000 T	14.64	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	1.012	0.00	0.000	0.000 T	6.33	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	1.012	0.00	0.000	0.000 T	17.28	0.04	0.04	-0.04
S55	Fu.C.1	-1.82	1.62	0.900	-2.77	0.000	0.000 D	-106.59	7.30	-8.26	-8.26
	Fu.C.2	0.04	0.08	1.401	0.07	0.000	0.000 D	-20.29	0.05	0.05	-0.02
	Fu.C.3	0.47	-0.26	0.900	0.71	0.000	0.000 D	-5.02	-1.59	1.82	1.82
	Fu.C.4	0.05	0.09	1.501	0.08	0.000	0.000 D	-22.46	0.05	0.05	-0.02
	Fu.C.5	0.49	-0.25	0.900	0.73	0.000	0.000 D	-7.18	-1.59	1.83	1.83
	Fu.C.6	-0.61	0.57	0.900	-0.92	0.000	0.000 D	-49.73	2.51	-2.81	-2.81
	Fu.C.7	-0.17	0.24	0.900	-0.27	0.000	0.000 D	-34.48	0.87	-0.97	-0.97
	Fu.C.8	-0.60	0.59	0.900	-0.90	0.000	0.000 D	-51.93	2.51	-2.81	-2.81
	Fu.C.9	-0.16	0.25	0.900	-0.26	0.000	0.000 D	-36.66	0.87	-0.97	-0.97
	Fu.C.10	0.82	-0.63	0.900	1.86	0.000	0.000 T	59.61	-3.36	4.40	4.40
	Fu.C.11	0.79	-0.65	0.900	1.84	0.000	0.000 T	65.99	-3.35	4.41	4.41
	Fu.C.12	0.83	-0.62	0.900	1.87	0.000	0.000 T	57.47	-3.36	4.41	4.41
	Fu.C.13	0.80	-0.64	0.900	1.86	0.000	0.000 T	63.85	-3.35	4.41	4.41
	Fu.C.14	0.17	-0.15	0.700	0.88	0.000	0.000 T	30.40	-0.91	1.62	1.62
	Fu.C.15	0.15	-0.17	0.700	0.87	0.000	0.000 T	36.78	-0.90	1.62	1.62
	Fu.C.16	0.19	-0.14	0.700	0.89	0.000	0.000 T	28.23	-0.90	1.62	1.62
	Fu.C.17	0.16	-0.16	0.700	0.88	0.000	0.000 T	34.61	-0.90	1.62	1.62
	Fu.C.18	0.10	0.11	1.000	0.10	0.000	0.000 D	-18.91	0.03	-0.04	-0.04
	Fu.C.19	0.51	-0.24	0.900	0.72	0.000	0.000 T	3.47	-1.60	1.81	1.81
	Fu.C.20	-0.56	0.62	0.900	-0.89	0.000	0.000 D	-48.37	2.50	-2.83	-2.83
	Fu.C.21	-0.14	0.26	0.900	-0.26	0.000	0.000 D	-26.01	0.86	-0.98	-0.98
	Fu.C.22	0.10	0.11	1.000	0.10	0.000	0.000 D	-18.91	0.03	-0.04	-0.04
	Fu.C.23	0.51	-0.24	0.900	0.72	0.000	0.000 T	3.47	-1.60	1.81	1.81
	Fu.C.24	-0.56	0.62	0.900	-0.89	0.000	0.000 D	-48.37	2.50	-2.83	-2.83
	Fu.C.25	-0.14	0.26	0.900	-0.26	0.000	0.000 D	-26.01	0.86	-0.98	-0.98
	Fu.C.26	-1.02	0.95	0.900	-1.57	0.000	0.000 D	-65.10	4.18	-4.74	-4.74
	Fu.C.27	-0.01	0.11	0.900	-0.06	0.000	0.000 D	-14.01	0.26	-0.31	-0.31
	Fu.C.28	-0.01	0.07	0.900	-0.04	0.000	0.000 D	-9.34	0.17	-0.21	-0.21
	Fu.C.29	0.02	0.12	0.900	-0.04	0.000	0.000 D	-20.72	0.22	-0.28	-0.28
	Fu.C.30	0.01	0.11	0.900	-0.05	0.000	0.000 D	-16.58	0.22	-0.28	-0.28

Spant as WW (ontvangst)				Novares Constructeurs							
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Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S55	Fu.C.31	0.06	0.14	0.800	-0.04	0.000	0.000 D	-22.15	0.20	-0.30	-0.30
	Fu.C.32	-0.05	0.10	1.100	-0.01	0.000	0.000 D	-25.00	0.27	0.27	-0.23
	Fu.C.33	0.42			-0.12	0.000	0.000 D	-27.80	-0.01	-0.52	-0.52
	Fu.C.34	-1.38			0.32	0.000	0.000 D	-31.11	1.09	1.09	0.60
	Fu.C.35	-1.42	2.50	1.000	-1.38	0.000	0.000 D	-30.41	7.79	7.79	-7.75
	Fu.C.36	0.47			-1.84	0.000	0.000 D	-19.90	-0.91	-1.40	-1.40
	Fu.C.37	0.04	0.13	0.900	-0.03	0.000	0.000 D	-24.83	0.22	-0.29	-0.29
S56	Fu.C.1	-2.77	2.63	1.201	0.00	0.000	0.000 D	-35.84	9.15	9.15	-6.41
	Fu.C.2	0.07			0.00	0.000	0.000 D	-30.05	0.00	-0.07	-0.07
	Fu.C.3	0.71	-0.54	1.201	0.00	0.000	0.000 D	-24.34	-2.06	-2.06	1.36
	Fu.C.4	0.08			0.00	0.000	0.000 D	-32.15	-0.01	-0.08	-0.08
	Fu.C.5	0.73	-0.53	1.201	0.00	0.000	0.000 D	-26.42	-2.07	-2.07	1.35
	Fu.C.6	-0.92	0.92	1.201	0.00	0.000	0.000 D	-36.50	3.12	3.12	-2.21
	Fu.C.7	-0.27	0.33	1.100	0.00	0.000	0.000 D	-30.81	1.05	1.05	-0.78
	Fu.C.8	-0.90	0.92	1.201	0.00	0.000	0.000 D	-38.62	3.11	3.11	-2.22
	Fu.C.9	-0.26	0.34	1.100	0.00	0.000	0.000 D	-32.92	1.05	1.05	-0.79
	Fu.C.10	1.86	-2.14	1.201	0.00	0.000	0.000 T	45.00	-6.64	-6.64	5.08
	Fu.C.11	1.84	-2.14	1.201	0.00	0.000	0.000 T	47.02	-6.63	-6.63	5.08
	Fu.C.12	1.87	-2.13	1.201	0.00	0.000	0.000 T	42.94	-6.65	-6.65	5.07
	Fu.C.13	1.86	-2.14	1.201	0.00	0.000	0.000 T	44.95	-6.64	-6.64	5.08
	Fu.C.14	0.88	-1.28	1.100	0.00	0.000	0.000 T	38.77	-3.53	-3.53	2.96
	Fu.C.15	0.87	-1.29	1.100	0.00	0.000	0.000 T	40.79	-3.53	-3.53	2.97
	Fu.C.16	0.89	-1.28	1.100	0.00	0.000	0.000 T	36.68	-3.54	-3.54	2.96
	Fu.C.17	0.88	-1.28	1.100	0.00	0.000	0.000 T	38.70	-3.54	-3.54	2.96
	Fu.C.18	0.10			0.00	0.000	0.000 D	-13.52	-0.01	-0.08	-0.08
	Fu.C.19	0.72	-0.53	1.201	0.00	0.000	0.000 D	-5.51	-2.07	-2.07	1.35
	Fu.C.20	-0.89	0.92	1.201	0.00	0.000	0.000 D	-19.98	3.10	3.10	-2.22
	Fu.C.21	-0.26	0.34	1.100	0.00	0.000	0.000 D	-11.99	1.05	1.05	-0.79
	Fu.C.22	0.10			0.00	0.000	0.000 D	-13.52	-0.01	-0.08	-0.08
	Fu.C.23	0.72	-0.53	1.201	0.00	0.000	0.000 D	-5.51	-2.07	-2.07	1.35
	Fu.C.24	-0.89	0.92	1.201	0.00	0.000	0.000 D	-19.98	3.10	3.10	-2.22
	Fu.C.25	-0.26	0.34	1.100	0.00	0.000	0.000 D	-11.99	1.05	1.05	-0.79
	Fu.C.26	-1.57	1.51	1.201	0.00	0.000	0.000 D	-21.83	5.24	5.24	-3.68
	Fu.C.27	-0.06	0.11	1.100	0.00	0.000	0.000 D	-4.62	0.31	0.31	-0.25
	Fu.C.28	-0.04	0.07	1.100	0.00	0.000	0.000 D	-3.08	0.21	0.21	-0.17
	Fu.C.29	-0.04	0.11	1.100	0.00	0.000	0.000 D	-6.51	0.27	0.27	-0.23
	Fu.C.30	-0.05	0.10	1.100	0.00	0.000	0.000 D	-5.31	0.28	0.28	-0.23
	Fu.C.31	-0.04	0.10	1.100	0.00	0.000	0.000 D	-6.96	0.27	0.27	-0.23
	Fu.C.32	-0.01	0.12	1.000	0.00	0.000	0.000 D	-7.83	0.26	0.26	-0.25
	Fu.C.33	-0.12	0.07	1.201	0.00	0.000	0.000 D	-8.76	0.31	0.31	-0.19
	Fu.C.34	0.32	0.34	0.400	0.00	0.000	0.000 D	-9.64	0.09	-0.41	-0.41
	Fu.C.35	-1.38			0.00	0.000	0.000 D	-11.10	0.93	0.93	0.44
	Fu.C.36	-1.84	3.01	1.100	0.00	0.000	0.000 D	-8.36	8.68	8.68	-6.84
	Fu.C.37	-0.03	0.11	1.100	0.00	0.000	0.000 D	-7.71	0.27	0.27	-0.24
S57	Fu.C.1	0.00	0.03	1.012	0.00	0.000	0.000 D	-80.51	0.05	-0.07	-0.07
	Fu.C.2	0.00	0.01	1.012	0.00	0.000	0.000 T	9.59	0.03	-0.03	-0.03
	Fu.C.3	0.00	0.01	1.012	0.00	0.000	0.000 T	21.46	0.03	-0.03	-0.03
	Fu.C.4	0.00	0.01	1.012	0.00	0.000	0.000 T	9.52	0.03	-0.03	-0.03
	Fu.C.5	0.00	0.01	1.012	0.00	0.000	0.000 T	21.38	0.03	-0.03	-0.03
	Fu.C.6	0.00	0.02	1.012	0.00	0.000	0.000 D	-16.99	0.04	-0.04	-0.04
	Fu.C.7	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.12	0.04	-0.04	-0.04
	Fu.C.8	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.06	0.04	-0.04	-0.04
	Fu.C.9	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.19	0.04	-0.04	-0.04
	Fu.C.10	0.00	0.01	1.012	0.00	0.000	0.000 T	21.32	0.03	-0.03	-0.03
	Fu.C.11	0.00	0.01	1.012	0.00	0.000	0.000 T	25.66	0.03	-0.03	-0.03
	Fu.C.12	0.00	0.01	1.012	0.00	0.000	0.000 T	21.24	0.03	-0.03	-0.03
	Fu.C.13	0.00	0.01	1.012	0.00	0.000	0.000 T	25.59	0.03	-0.03	-0.03
	Fu.C.14	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.25	0.04	0.04	-0.04
	Fu.C.15	0.00	0.02	1.012	0.00	0.000	0.000 D	-0.91	0.04	0.04	-0.04
	Fu.C.16	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.33	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	1.012	0.00	0.000	0.000 D	-0.99	0.04	0.04	-0.04
	Fu.C.18	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.48	0.03	-0.03	-0.03
	Fu.C.19	0.00	0.01	1.012	0.00	0.000	0.000 T	11.25	0.03	0.03	-0.03
	Fu.C.20	0.00	0.02	1.012	0.00	0.000	0.000 D	-31.96	0.04	-0.05	-0.05
	Fu.C.21	0.00	0.02	1.012	0.00	0.000	0.000 D	-15.31	0.04	-0.04	-0.04
	Fu.C.22	0.00	0.02	1.012	0.00	0.000	0.000 D	-5.48	0.03	-0.03	-0.03

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S57	Fu.C.23	0.00	0.01	1.012	0.00	0.000	0.000 T	11.25	0.03	0.03	-0.03
	Fu.C.24	0.00	0.02	1.012	0.00	0.000	0.000 D	-31.96	0.04	-0.05	-0.05
	Fu.C.25	0.00	0.02	1.012	0.00	0.000	0.000 D	-15.31	0.04	-0.04	-0.04
	Fu.C.26	0.00	0.03	1.012	0.00	0.000	0.000 D	-48.94	0.05	-0.05	-0.05
	Fu.C.27	0.00	0.02	1.012	0.00	0.000	0.000 D	-9.88	0.05	-0.05	-0.05
	Fu.C.28	0.00	0.02	1.012	0.00	0.000	0.000 D	-6.58	0.03	-0.03	-0.03
	Fu.C.29	0.00	0.02	1.012	0.00	0.000	0.000 D	-14.61	0.04	-0.04	-0.04
	Fu.C.30	0.00	0.02	1.012	0.00	0.000	0.000 D	-11.69	0.04	-0.04	-0.04
	Fu.C.31	0.00	0.02	1.012	0.00	0.000	0.000 D	-15.60	0.04	-0.04	-0.04
	Fu.C.32	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.53	0.04	-0.04	-0.04
	Fu.C.33	0.00	0.02	1.012	0.00	0.000	0.000 D	-19.58	0.04	-0.04	-0.04
	Fu.C.34	0.00	0.02	1.012	0.00	0.000	0.000 D	-21.19	0.04	-0.04	-0.04
	Fu.C.35	0.00	0.02	1.012	0.00	0.000	0.000 D	-24.15	0.04	-0.05	-0.05
	Fu.C.36	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.71	0.04	-0.04	-0.04
	Fu.C.37	0.00	0.02	1.012	0.00	0.000	0.000 D	-17.51	0.04	-0.04	-0.04
S58	Fu.C.1	0.63	0.84	1.200	0.74	0.000	0.000 T	74.76	0.38	0.38	-0.24
	Fu.C.2	-0.01	0.15	1.100	0.05	0.000	0.000 T	10.80	0.28	0.28	-0.21
	Fu.C.3	-0.14	0.01	1.100	-0.09	0.000	0.000 D	-0.29	0.27	0.27	-0.22
	Fu.C.4	0.01	0.16	1.100	0.07	0.000	0.000 T	17.89	0.28	0.28	-0.22
	Fu.C.5	-0.12	0.03	1.100	-0.07	0.000	0.000 T	6.78	0.27	0.27	-0.22
	Fu.C.6	0.15	0.37	1.200	0.25	0.000	0.000 T	14.05	0.38	0.38	-0.27
	Fu.C.7	0.02	0.23	1.100	0.12	0.000	0.000 T	2.97	0.38	0.38	-0.28
	Fu.C.8	0.17	0.39	1.200	0.27	0.000	0.000 T	21.17	0.38	0.38	-0.27
	Fu.C.9	0.04	0.25	1.100	0.13	0.000	0.000 T	10.08	0.38	0.38	-0.28
	Fu.C.10	-0.46	-0.37	0.900	-0.51	0.000	0.000 D	-39.57	0.22	-0.26	-0.26
	Fu.C.11	-0.48	-0.39	0.900	-0.54	0.000	0.000 D	-43.41	0.21	-0.27	-0.27
	Fu.C.12	-0.44	-0.35	0.900	-0.50	0.000	0.000 D	-32.50	0.21	-0.27	-0.27
	Fu.C.13	-0.47	-0.37	0.900	-0.53	0.000	0.000 D	-36.34	0.21	-0.27	-0.27
	Fu.C.14	-0.31	-0.15	1.000	-0.31	0.000	0.000 D	-36.51	0.32	-0.33	-0.33
	Fu.C.15	-0.33	-0.17	1.000	-0.34	0.000	0.000 D	-40.35	0.32	-0.33	-0.33
	Fu.C.16	-0.29	-0.13	1.000	-0.29	0.000	0.000 D	-29.41	0.32	-0.33	-0.33
	Fu.C.17	-0.31	-0.15	1.000	-0.32	0.000	0.000 D	-33.25	0.32	-0.33	-0.33
	Fu.C.18	0.06	0.19	1.100	0.09	0.000	0.000 T	42.58	0.26	0.26	-0.23
	Fu.C.19	-0.10	0.03	1.000	-0.09	0.000	0.000 T	27.15	0.25	0.25	-0.24
	Fu.C.20	0.22	0.42	1.100	0.29	0.000	0.000 T	45.92	0.36	0.36	-0.28
	Fu.C.21	0.06	0.25	1.100	0.12	0.000	0.000 T	30.50	0.35	0.35	-0.30
	Fu.C.22	0.06	0.19	1.100	0.09	0.000	0.000 T	42.58	0.26	0.26	-0.23
	Fu.C.23	-0.10	0.03	1.000	-0.09	0.000	0.000 T	27.15	0.25	0.25	-0.24
	Fu.C.24	0.22	0.42	1.100	0.29	0.000	0.000 T	45.92	0.36	0.36	-0.28
	Fu.C.25	0.06	0.25	1.100	0.12	0.000	0.000 T	30.50	0.35	0.35	-0.30
	Fu.C.26	0.33	0.54	1.100	0.42	0.000	0.000 T	45.43	0.37	0.37	-0.27
	Fu.C.27	-0.05	0.17	1.100	0.01	0.000	0.000 T	9.33	0.40	0.40	-0.34
	Fu.C.28	-0.03	0.11	1.100	0.01	0.000	0.000 T	6.22	0.27	0.27	-0.22
	Fu.C.29	-0.01	0.19	1.100	0.05	0.000	0.000 T	13.46	0.36	0.36	-0.30
	Fu.C.30	-0.03	0.17	1.100	0.03	0.000	0.000 T	10.86	0.36	0.36	-0.30
	Fu.C.31	-0.01	0.19	1.100	0.06	0.000	0.000 T	14.42	0.36	0.36	-0.29
	Fu.C.32	0.01	0.21	1.100	0.07	0.000	0.000 T	16.24	0.35	0.35	-0.30
	Fu.C.33	-0.02	0.21	1.200	0.10	0.000	0.000 T	18.21	0.39	0.39	-0.27
	Fu.C.34	0.09	0.24	0.900	0.06	0.000	0.000 T	19.91	0.31	-0.34	-0.34
	Fu.C.35	0.22	0.37	1.000	0.21	0.000	0.000 T	22.82	0.32	-0.33	-0.33
	Fu.C.36	0.06	0.34	1.300	0.26	0.000	0.000 T	16.70	0.43	0.43	-0.23
	Fu.C.37	0.00	0.20	1.100	0.07	0.000	0.000 T	16.03	0.36	0.36	-0.29
S59	Fu.C.1	0.74			0.00	0.000	0.000 D	-3.35	-0.58	-0.91	-0.91
	Fu.C.2	0.05	0.06	0.300	0.00	0.000	0.000 T	19.84	0.07	-0.17	-0.17
	Fu.C.3	-0.09	0.00	0.850	0.00	0.000	0.000 T	20.20	0.21	0.21	-0.04
	Fu.C.4	0.07	0.07	0.200	0.00	0.000	0.000 T	26.87	0.05	-0.19	-0.19
	Fu.C.5	-0.07	0.01	0.800	0.00	0.000	0.000 T	27.21	0.19	0.19	-0.05
	Fu.C.6	0.25			0.00	0.000	0.000 D	-2.59	-0.09	-0.42	-0.42
	Fu.C.7	0.12	0.12	0.150	0.00	0.000	0.000 D	-2.21	0.05	-0.28	-0.28
	Fu.C.8	0.27			0.00	0.000	0.000 T	4.48	-0.11	-0.44	-0.44
	Fu.C.9	0.13	0.13	0.100	0.00	0.000	0.000 T	4.84	0.03	-0.30	-0.30
	Fu.C.10	-0.51			0.00	0.000	0.000 D	-19.47	0.64	0.64	0.39
	Fu.C.11	-0.54			0.00	0.000	0.000 D	-19.10	0.67	0.67	0.42
	Fu.C.12	-0.50			0.00	0.000	0.000 D	-12.47	0.62	0.62	0.38
	Fu.C.13	-0.53			0.00	0.000	0.000 D	-12.11	0.65	0.65	0.41
	Fu.C.14	-0.31			0.00	0.000	0.000 D	-42.08	0.47	0.47	0.15

Spant as WW (ontvangst)				Novares Constructeurs							
Staaf	B.C.	Mb	Mmax	xMmax	Me	x-M0	x-M0 T/D	Nmax	Vb	Vmax	Ve
S59	Fu.C.15	-0.34			0.00	0.000	0.000 D	-41.71	0.50	0.50	0.18
	Fu.C.16	-0.29			0.00	0.000	0.000 D	-35.04	0.46	0.46	0.13
	Fu.C.17	-0.32			0.00	0.000	0.000 D	-34.68	0.49	0.49	0.16
	Fu.C.18	0.09	0.09	0.150	0.00	0.000	0.000 T	37.09	0.04	-0.21	-0.21
	Fu.C.19	-0.09	0.00	0.850	0.00	0.000	0.000 T	37.72	0.21	0.21	-0.04
	Fu.C.20	0.29			0.00	0.000	0.000 T	14.75	-0.12	-0.45	-0.45
	Fu.C.21	0.12	0.12	0.150	0.00	0.000	0.000 T	15.40	0.05	-0.28	-0.28
	Fu.C.22	0.09	0.09	0.150	0.00	0.000	0.000 T	37.09	0.04	-0.21	-0.21
	Fu.C.23	-0.09	0.00	0.850	0.00	0.000	0.000 T	37.72	0.21	0.21	-0.04
	Fu.C.24	0.29			0.00	0.000	0.000 T	14.75	-0.12	-0.45	-0.45
	Fu.C.25	0.12	0.12	0.150	0.00	0.000	0.000 T	15.40	0.05	-0.28	-0.28
	Fu.C.26	0.42			0.00	0.000	0.000 D	-2.17	-0.26	-0.58	-0.58
	Fu.C.27	0.01	0.05	0.450	0.00	0.000	0.000 D	-0.57	0.17	-0.20	-0.20
	Fu.C.28	0.01	0.04	0.450	0.00	0.000	0.000 D	-0.38	0.11	-0.13	-0.13
	Fu.C.29	0.05	0.07	0.350	0.00	0.000	0.000 D	-0.98	0.11	-0.21	-0.21
	Fu.C.30	0.03	0.06	0.400	0.00	0.000	0.000 D	-0.76	0.13	-0.20	-0.20
	Fu.C.31	0.06	0.08	0.300	0.00	0.000	0.000 D	-0.98	0.11	-0.22	-0.22
	Fu.C.32	0.07	0.08	0.300	0.00	0.000	0.000 D	-1.03	0.10	-0.23	-0.23
	Fu.C.33	0.10	0.11	0.200	0.00	0.000	0.000 D	-1.03	0.07	-0.26	-0.26
	Fu.C.34	0.06	0.08	0.300	0.00	0.000	0.000 D	-0.96	0.11	-0.22	-0.22
	Fu.C.35	0.21			0.00	0.000	0.000 D	-0.82	-0.04	-0.37	-0.37
	Fu.C.36	0.26			0.00	0.000	0.000 D	-0.61	-0.09	-0.42	-0.42
	Fu.C.37	0.07	0.08	0.300	0.00	0.000	0.000 D	-1.23	0.09	-0.23	-0.23
S60	Fu.C.1	0.00	0.02	1.038	0.00	0.000	0.000 T	79.77	0.04	0.04	-0.02
	Fu.C.2	0.00	0.02	1.038	0.00	0.000	0.000 D	-9.05	0.03	0.03	-0.03
	Fu.C.3	0.00	0.02	1.038	0.00	0.000	0.000 D	-20.65	0.03	0.03	-0.03
	Fu.C.4	0.00	0.02	1.038	0.00	0.000	0.000 D	-9.00	0.03	0.03	-0.03
	Fu.C.5	0.00	0.02	1.038	0.00	0.000	0.000 D	-20.60	0.03	0.03	-0.03
	Fu.C.6	0.00	0.02	1.038	0.00	0.000	0.000 T	17.26	0.04	0.04	-0.04
	Fu.C.7	0.00	0.02	1.038	0.00	0.000	0.000 T	5.65	0.04	0.04	-0.04
	Fu.C.8	0.00	0.02	1.038	0.00	0.000	0.000 T	17.31	0.04	0.04	-0.04
	Fu.C.9	0.00	0.02	1.038	0.00	0.000	0.000 T	5.70	0.04	0.04	-0.04
	Fu.C.10	0.00	0.02	1.038	0.00	0.000	0.000 D	-19.98	0.03	0.03	-0.03
	Fu.C.11	0.00	0.02	1.038	0.00	0.000	0.000 D	-24.25	0.03	0.03	-0.03
	Fu.C.12	0.00	0.02	1.038	0.00	0.000	0.000 D	-19.92	0.03	0.03	-0.03
	Fu.C.13	0.00	0.02	1.038	0.00	0.000	0.000 D	-24.19	0.03	0.03	-0.03
	Fu.C.14	0.00	0.02	1.038	0.00	0.000	0.000 T	6.32	0.04	-0.04	-0.04
	Fu.C.15	0.00	0.02	1.038	0.00	0.000	0.000 T	2.04	0.04	-0.04	-0.04
	Fu.C.16	0.00	0.02	1.038	0.00	0.000	0.000 T	6.38	0.04	-0.04	-0.04
	Fu.C.17	0.00	0.02	1.038	0.00	0.000	0.000 T	2.10	0.04	-0.04	-0.04
	Fu.C.18	0.00	0.02	1.038	0.00	0.000	0.000 T	5.89	0.03	0.03	-0.03
	Fu.C.19	0.00	0.02	1.038	0.00	0.000	0.000 D	-10.51	0.03	-0.03	-0.03
	Fu.C.20	0.00	0.02	1.038	0.00	0.000	0.000 T	32.09	0.04	0.04	-0.03
	Fu.C.21	0.00	0.02	1.038	0.00	0.000	0.000 T	15.78	0.04	0.04	-0.04
	Fu.C.22	0.00	0.02	1.038	0.00	0.000	0.000 T	5.89	0.03	0.03	-0.03
	Fu.C.23	0.00	0.02	1.038	0.00	0.000	0.000 D	-10.51	0.03	-0.03	-0.03
	Fu.C.24	0.00	0.02	1.038	0.00	0.000	0.000 T	32.09	0.04	0.04	-0.03
	Fu.C.25	0.00	0.02	1.038	0.00	0.000	0.000 T	15.78	0.04	0.04	-0.04
	Fu.C.26	0.00	0.02	1.038	0.00	0.000	0.000 T	48.80	0.04	0.04	-0.03
	Fu.C.27	0.00	0.02	1.038	0.00	0.000	0.000 T	10.59	0.04	0.04	-0.04
	Fu.C.28	0.00	0.02	1.038	0.00	0.000	0.000 T	7.06	0.03	0.03	-0.03
	Fu.C.29	0.00	0.02	1.038	0.00	0.000	0.000 T	15.16	0.04	0.04	-0.04
	Fu.C.30	0.00	0.02	1.038	0.00	0.000	0.000 T	12.29	0.04	0.04	-0.04
	Fu.C.31	0.00	0.02	1.038	0.00	0.000	0.000 T	16.12	0.04	0.04	-0.04
	Fu.C.32	0.00	0.02	1.038	0.00	0.000	0.000 T	18.04	0.04	0.04	-0.04
	Fu.C.33	0.00	0.02	1.038	0.00	0.000	0.000 T	20.00	0.04	0.04	-0.04
	Fu.C.34	0.00	0.02	1.038	0.00	0.000	0.000 T	21.74	0.04	0.04	-0.04
	Fu.C.35	0.00	0.02	1.038	0.00	0.000	0.000 T	24.49	0.04	0.04	-0.04
	Fu.C.36	0.00	0.02	1.038	0.00	0.000	0.000 T	17.92	0.04	0.04	-0.04
	Fu.C.37	0.00	0.02	1.038	0.00	0.000	0.000 T	18.02	0.04	0.04	-0.04
-	-	kNm	kNm	m	kNm	m	m -	kN	kN	kN	kN



FU.C. OPLEGREACTIES ANALYSE

B.C.	Oplegging	Knoop	X	Z	My
Fu.C.1	O1	K1	0.68	-93.37	0.00
	O2	K3	-0.66	-80.05	0.00
	O3	K4	-0.02	0.00	0.00
	Som Reacties		0.00	-173.41	
Fu.C.2	Som Lasten		0.00	173.41	
	O1	K1	-7.32	8.62	0.00
	O2	K3	-6.92	5.53	0.00
	O3	K4	-29.28	0.00	0.00
Fu.C.3	Som Reacties		-43.52	14.15	
	Som Lasten		43.52	-14.15	
	O1	K1	-7.38	12.35	0.00
	O2	K3	-6.85	17.08	0.00
Fu.C.4	O3	K4	-28.84	0.00	0.00
	Som Reacties		-43.06	29.43	
	Som Lasten		43.06	-29.43	
	O1	K1	-4.82	8.63	0.00
Fu.C.5	O2	K3	-9.44	5.52	0.00
	O3	K4	-29.62	0.00	0.00
	Som Reacties		-43.88	14.15	
	Som Lasten		43.88	-14.15	
Fu.C.6	O1	K1	-4.87	12.35	0.00
	O2	K3	-9.37	17.07	0.00
	O3	K4	-29.17	0.00	0.00
	Som Reacties		-43.42	29.43	
Fu.C.7	Som Lasten		43.42	-29.43	
	O1	K1	-14.58	-20.95	0.00
	O2	K3	0.45	-20.58	0.00
	O3	K4	-29.40	0.00	0.00
Fu.C.8	Som Reacties		-43.53	-41.53	
	Som Lasten		43.53	41.53	
	O1	K1	-14.64	-17.23	0.00
	O2	K3	0.52	-9.03	0.00
Fu.C.9	O3	K4	-28.95	0.00	0.00
	Som Reacties		-43.07	-26.26	
	Som Lasten		43.07	26.26	
	O1	K1	-12.09	-20.94	0.00
Fu.C.10	O2	K3	-2.06	-20.59	0.00

Spant as WW (ontvangst)	Novares Constructeurs				
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.8	O3	K4	-29.74	0.00	0.00
	Som Reacties		-43.89	-41,53	
	Som Lasten		43.89	41.53	
Fu.C.9	O1	K1	-12.15	-17.22	0.00
	O2	K3	-1.99	-9.04	0.00
	O3	K4	-29.29	0.00	0.00
	Som Reacties		-43.43	-26,26	
	Som Lasten		43.43	26.26	
Fu.C.10	O1	K1	6.81	-4.52	0.00
	O2	K3	7.48	18.62	0.00
	O3	K4	31.21	0.00	0.00
	Som Reacties		45.51	14,11	
	Som Lasten		-45.51	-14.11	
Fu.C.11	O1	K1	6.75	7.04	0.00
	O2	K3	7.55	22.34	0.00
	O3	K4	31.46	0.00	0.00
	Som Reacties		45.76	29,38	
	Som Lasten		-45.76	-29.38	
Fu.C.12	O1	K1	9.31	-4.50	0.00
	O2	K3	4.95	18.61	0.00
	O3	K4	30.89	0.00	0.00
	Som Reacties		45.15	14,11	
	Som Lasten		-45.15	-14.11	
Fu.C.13	O1	K1	9.24	7.05	0.00
	O2	K3	5.02	22.33	0.00
	O3	K4	31.13	0.00	0.00
	Som Reacties		45.40	29,38	
	Som Lasten		-45.40	-29.38	
Fu.C.14	O1	K1	-0.49	-34.05	0.00
	O2	K3	14.81	-7.53	0.00
	O3	K4	31.20	0.00	0.00
	Som Reacties		45.52	-41,57	
	Som Lasten		-45.52	41.57	
Fu.C.15	O1	K1	-0.56	-22.49	0.00
	O2	K3	14.88	-3.81	0.00
	O3	K4	31.45	0.00	0.00
	Som Reacties		45.76	-26,30	
	Som Lasten		-45.76	26.30	
Fu.C.16	O1	K1	2.00	-34.03	0.00
	O2	K3	12.29	-7.54	0.00
	O3	K4	30.88	0.00	0.00
	Som Reacties		45.16	-41,57	
	Som Lasten		-45.16	41.57	
Fu.C.17	O1	K1	1.93	-22.48	0.00
	O2	K3	12.36	-3.82	0.00
	O3	K4	31.12	0.00	0.00
	Som Reacties		45.41	-26,30	
	Som Lasten		-45.41	26.30	
Fu.C.18	O1	K1	13.30	-17.95	0.00
	O2	K3	-13.43	-8.03	0.00
	O3	K4	-1.70	0.00	0.00
	Som Reacties		-1.83	-25,97	
	Som Lasten		1.83	25.97	
Fu.C.19	O1	K1	13.19	-2.29	0.00
	O2	K3	-13.31	7.63	0.00
	O3	K4	-0.98	0.00	0.00
	Som Reacties		-1.10	5,34	
	Som Lasten		1.10	-5.34	
Fu.C.20	O1	K1	5.99	-47.49	0.00
	O2	K3	-6.05	-34.16	0.00
	O3	K4	-1.77	0.00	0.00
	Som Reacties		-1.83	-81,65	
	Som Lasten		1.83	81.65	
Fu.C.21	O1	K1	5.87	-31.84	0.00
	O2	K3	-5.92	-18.50	0.00
	O3	K4	-1.04	0.00	0.00
	Som Reacties		-1.10	-50,34	
	Som Lasten		1.10	50.34	
Fu.C.22	O1	K1	13.30	-17.95	0.00

Spant as WW (ontvangst)	Novares Constructeurs				
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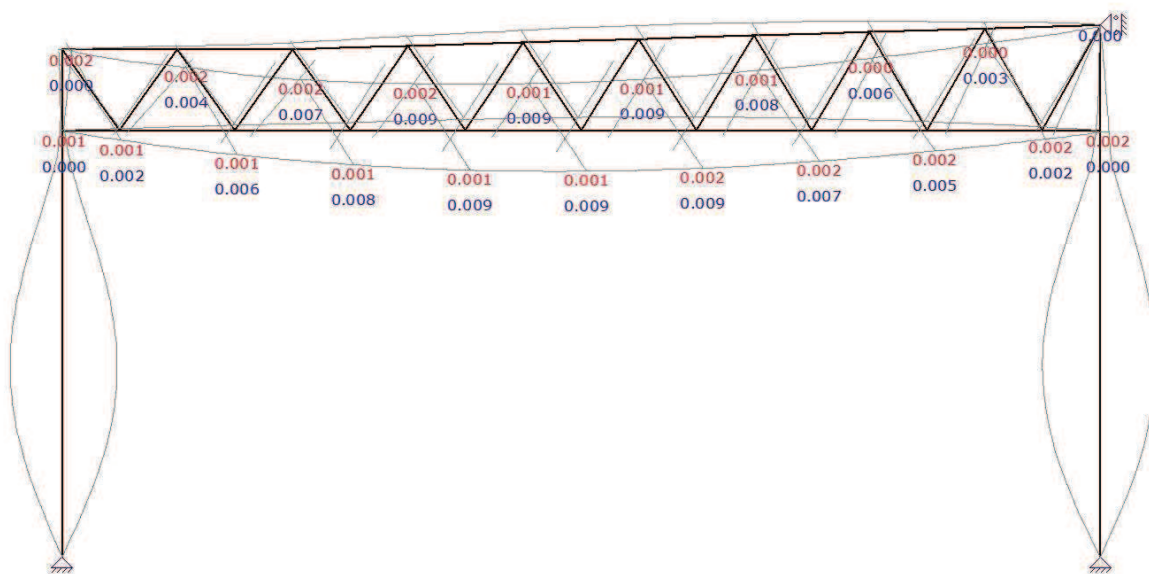
B.C.	Oplegging	Knoop	X	Z	My
Fu.C.22	O2	K3	-13.43	-8.03	0.00
	O3	K4	-1.70	0.00	0.00
Som Reacties			-1.83	-25,97	
Som Lasten			1.83	25.97	
Fu.C.23	O1	K1	13.19	-2.29	0.00
	O2	K3	-13.31	7.63	0.00
	O3	K4	-0.98	0.00	0.00
Som Reacties			-1.10	5,34	
Som Lasten			1.10	-5.34	
Fu.C.24	O1	K1	5.99	-47.49	0.00
	O2	K3	-6.05	-34.16	0.00
	O3	K4	-1.77	0.00	0.00
Som Reacties			-1.83	-81,65	
Som Lasten			1.83	81.65	
Fu.C.25	O1	K1	5.87	-31.84	0.00
	O2	K3	-5.92	-18.50	0.00
	O3	K4	-1.04	0.00	0.00
Som Reacties			-1.10	-50,34	
Som Lasten			1.10	50.34	
Fu.C.26	O1	K1	0.43	-63.66	0.00
	O2	K3	-0.43	-50.31	0.00
	O3	K4	0.00	0.00	0.00
Som Reacties			0.00	-113,97	
Som Lasten			0.00	113.97	
Fu.C.27	O1	K1	0.13	-29.07	0.00
	O2	K3	-0.11	-14.04	0.00
	O3	K4	-0.01	0.00	0.00
Som Reacties			0.00	-43,11	
Som Lasten			0.00	43.11	
Fu.C.28	O1	K1	0.08	-19.38	0.00
	O2	K3	-0.08	-9.36	0.00
	O3	K4	-0.01	0.00	0.00
Som Reacties			0.00	-28,74	
Som Lasten			0.00	28.74	
Fu.C.29	O1	K1	0.23	-50.89	0.00
	O2	K3	-0.19	-17.49	0.00
	O3	K4	-0.04	0.00	0.00
Som Reacties			0.00	-68,37	
Som Lasten			0.00	68.37	
Fu.C.30	O1	K1	0.18	-38.38	0.00
	O2	K3	-0.15	-14.99	0.00
	O3	K4	-0.03	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	
Fu.C.31	O1	K1	0.21	-35.04	0.00
	O2	K3	-0.19	-18.33	0.00
	O3	K4	-0.02	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	
Fu.C.32	O1	K1	0.21	-33.37	0.00
	O2	K3	-0.20	-20.00	0.00
	O3	K4	0.00	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	
Fu.C.33	O1	K1	0.19	-31.70	0.00
	O2	K3	-0.20	-21.68	0.00
	O3	K4	0.01	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	
Fu.C.34	O1	K1	0.17	-30.03	0.00
	O2	K3	-0.19	-23.35	0.00
	O3	K4	0.01	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	
Fu.C.35	O1	K1	0.15	-28.36	0.00
	O2	K3	-0.16	-25.01	0.00
	O3	K4	0.01	0.00	0.00
Som Reacties			0.00	-53,37	
Som Lasten			0.00	53.37	

Spant as WW (ontvangst)	Novares Constructeurs	
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B.C.	Oplegging	Knoop	X	Z	My
Fu.C.36	O1	K1	0.13	-26.70	0.00
	O2	K3	-0.12	-26.67	0.00
	O3	K4	-0.01	0.00	0.00
	Som Reacties		0.00	-53,37	
	Som Lasten		0.00	53.37	
Fu.C.37	O1	K1	0.30	-63.39	0.00
	O2	K3	-0.24	-19.98	0.00
	O3	K4	-0.06	0.00	0.00
	Som Reacties		0.00	-83,37	
	Som Lasten		0.00	83.37	
-	-	-	kN	kN	kNm

AFB. KA.C. VERPLAATSINGEN OMHULLENDE

Karakteristiek Belastingscombinaties



KA.C. KNOOPVERPLAATSINGEN ANALYSE

Knoop	B.C.	X	Z	Yr
K1	Ka.C.(w1)	0.0000	0.0000	0.154e-03
	Ka.C.1	0.0000	0.0000	0.154e-03
	Ka.C.2	0.0000	0.0000	0.293e-03
	Ka.C.3	0.0000	0.0000	0.237e-03
	Ka.C.4	0.0000	0.0000	0.264e-03
	Ka.C.5	0.0000	0.0000	0.253e-03
	Ka.C.6	0.0000	0.0000	0.234e-03
	Ka.C.7	0.0000	0.0000	0.211e-03
	Ka.C.8	0.0000	0.0000	0.187e-03
	Ka.C.9	0.0000	0.0000	0.167e-03
	Ka.C.10	0.0000	0.0000	0.377e-03
	Ka.C.11	0.0000	0.0000	-3.178e-03
	Ka.C.12	0.0000	0.0000	-3.223e-03
	Ka.C.13	0.0000	0.0000	-2.100e-03
	Ka.C.14	0.0000	0.0000	-2.147e-03
	Ka.C.15	0.0000	0.0000	-6.279e-03
	Ka.C.16	0.0000	0.0000	-6.320e-03
	Ka.C.17	0.0000	0.0000	-5.192e-03
	Ka.C.18	0.0000	0.0000	-5.235e-03
	Ka.C.19	0.0000	0.0000	3.006e-03
	Ka.C.20	0.0000	0.0000	2.909e-03
	Ka.C.21	0.0000	0.0000	4.087e-03
	Ka.C.22	0.0000	0.0000	3.986e-03
	Ka.C.23	0.0000	0.0000	-0.053e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K1	Ka.C.24	0.0000	0.0000	-0.137e-03
	Ka.C.25	0.0000	0.0000	1.038e-03
	Ka.C.26	0.0000	0.0000	0.949e-03
	Ka.C.27	0.0000	0.0000	5.916e-03
	Ka.C.28	0.0000	0.0000	5.743e-03
	Ka.C.29	0.0000	0.0000	2.866e-03
	Ka.C.30	0.0000	0.0000	2.709e-03
	Ka.C.31	0.0000	0.0000	5.916e-03
	Ka.C.32	0.0000	0.0000	5.743e-03
	Ka.C.33	0.0000	0.0000	2.866e-03
K2	Ka.C.34	0.0000	0.0000	2.709e-03
	Ka.C.35	0.0000	0.0000	0.501e-03
	Ka.C.(w1)	0.0007	0.0002	-0.435e-03
	Ka.C.1	0.0007	0.0002	-0.435e-03
	Ka.C.2	0.0012	0.0003	-0.800e-03
	Ka.C.3	0.0009	0.0003	-0.648e-03
	Ka.C.4	0.0011	0.0002	-0.746e-03
	Ka.C.5	0.0012	0.0002	-0.734e-03
	Ka.C.6	0.0011	0.0002	-0.694e-03
	Ka.C.7	0.0010	0.0002	-0.634e-03
	Ka.C.8	0.0009	0.0002	-0.561e-03
	Ka.C.9	0.0007	0.0002	-0.481e-03
	Ka.C.10	0.0015	0.0004	-1.014e-03
	Ka.C.11	0.0001	0.0000	-0.165e-03
	Ka.C.12	-0.0003	0.0000	0.009e-03
	Ka.C.13	0.0001	0.0000	-0.100e-03
	Ka.C.14	-0.0002	0.0000	0.074e-03
	Ka.C.15	0.0009	0.0002	-0.990e-03
	Ka.C.16	0.0006	0.0002	-0.816e-03
	Ka.C.17	0.0010	0.0002	-0.924e-03
	Ka.C.18	0.0006	0.0002	-0.750e-03
	Ka.C.19	-0.0006	0.0001	0.382e-03
	Ka.C.20	-0.0009	0.0000	0.616e-03
	Ka.C.21	-0.0005	0.0001	0.450e-03
	Ka.C.22	-0.0008	0.0000	0.684e-03
	Ka.C.23	0.0003	0.0002	-0.444e-03
	Ka.C.24	-0.0001	0.0002	-0.209e-03
	Ka.C.25	0.0004	0.0002	-0.376e-03
	Ka.C.26	0.0000	0.0002	-0.141e-03
	Ka.C.27	0.0009	0.0002	-0.041e-03
	Ka.C.28	0.0002	0.0001	0.380e-03
	Ka.C.29	0.0018	0.0003	-0.865e-03
	Ka.C.30	0.0011	0.0002	-0.442e-03
	Ka.C.31	0.0009	0.0002	-0.041e-03
	Ka.C.32	0.0002	0.0001	0.380e-03
	Ka.C.33	0.0018	0.0003	-0.865e-03
	Ka.C.34	0.0011	0.0002	-0.442e-03
	Ka.C.35	0.0023	0.0004	-1.454e-03
K3	Ka.C.(w1)	0.0000	0.0000	-0.220e-03
	Ka.C.1	0.0000	0.0000	-0.220e-03
	Ka.C.2	0.0000	0.0000	-0.387e-03
	Ka.C.3	0.0000	0.0000	-0.307e-03
	Ka.C.4	0.0000	0.0000	-0.388e-03
	Ka.C.5	0.0000	0.0000	-0.406e-03
	Ka.C.6	0.0000	0.0000	-0.405e-03
	Ka.C.7	0.0000	0.0000	-0.382e-03
	Ka.C.8	0.0000	0.0000	-0.335e-03
	Ka.C.9	0.0000	0.0000	-0.262e-03
	Ka.C.10	0.0000	0.0000	-0.474e-03
	Ka.C.11	0.0000	0.0000	-3.040e-03
	Ka.C.12	0.0000	0.0000	-2.895e-03
	Ka.C.13	0.0000	0.0000	-4.151e-03
	Ka.C.14	0.0000	0.0000	-4.001e-03
	Ka.C.15	0.0000	0.0000	-0.066e-03
	Ka.C.16	0.0000	0.0000	0.067e-03
	Ka.C.17	0.0000	0.0000	-1.186e-03
	Ka.C.18	0.0000	0.0000	-1.049e-03
	Ka.C.19	0.0000	0.0000	3.384e-03
	Ka.C.20	0.0000	0.0000	3.493e-03
	Ka.C.21	0.0000	0.0000	2.278e-03
	Ka.C.22	0.0000	0.0000	2.388e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K3	Ka.C.23	0.0000	0.0000	6.404e-03
	Ka.C.24	0.0000	0.0000	6.510e-03
	Ka.C.25	0.0000	0.0000	5.288e-03
	Ka.C.26	0.0000	0.0000	5.395e-03
	Ka.C.27	0.0000	0.0000	-6.130e-03
	Ka.C.28	0.0000	0.0000	-5.838e-03
	Ka.C.29	0.0000	0.0000	-3.164e-03
	Ka.C.30	0.0000	0.0000	-2.888e-03
	Ka.C.31	0.0000	0.0000	-6.130e-03
	Ka.C.32	0.0000	0.0000	-5.838e-03
	Ka.C.33	0.0000	0.0000	-3.164e-03
	Ka.C.34	0.0000	0.0000	-2.888e-03
	Ka.C.35	0.0000	0.0000	-0.845e-03
K4	Ka.C.(w1)	0.0000	0.0001	0.330e-03
	Ka.C.1	0.0000	0.0001	0.330e-03
	Ka.C.2	0.0000	0.0001	0.578e-03
	Ka.C.3	0.0000	0.0001	0.460e-03
	Ka.C.4	0.0000	0.0001	0.580e-03
	Ka.C.5	0.0000	0.0001	0.607e-03
	Ka.C.6	0.0000	0.0001	0.604e-03
	Ka.C.7	0.0000	0.0002	0.570e-03
	Ka.C.8	0.0000	0.0002	0.500e-03
	Ka.C.9	0.0000	0.0002	0.390e-03
	Ka.C.10	0.0000	0.0001	0.708e-03
	Ka.C.11	0.0000	0.0000	-0.327e-03
	Ka.C.12	0.0000	-0.0001	-0.524e-03
	Ka.C.13	0.0000	0.0000	-0.425e-03
	Ka.C.14	0.0000	-0.0001	-0.621e-03
	Ka.C.15	0.0000	0.0001	0.534e-03
	Ka.C.16	0.0000	0.0001	0.335e-03
	Ka.C.17	0.0000	0.0001	0.436e-03
	Ka.C.18	0.0000	0.0001	0.237e-03
	Ka.C.19	0.0000	-0.0001	0.004e-03
	Ka.C.20	0.0000	-0.0001	-0.169e-03
	Ka.C.21	0.0000	-0.0001	-0.091e-03
	Ka.C.22	0.0000	-0.0001	-0.263e-03
	Ka.C.23	0.0000	0.0001	0.863e-03
	Ka.C.24	0.0000	0.0001	0.690e-03
	Ka.C.25	0.0000	0.0001	0.768e-03
	Ka.C.26	0.0000	0.0001	0.595e-03
	Ka.C.27	0.0000	0.0001	-0.221e-03
	Ka.C.28	0.0000	0.0000	-0.601e-03
	Ka.C.29	0.0000	0.0002	0.637e-03
	Ka.C.30	0.0000	0.0001	0.254e-03
	Ka.C.31	0.0000	0.0001	-0.221e-03
	Ka.C.32	0.0000	0.0000	-0.601e-03
	Ka.C.33	0.0000	0.0002	0.637e-03
	Ka.C.34	0.0000	0.0001	0.254e-03
	Ka.C.35	0.0000	0.0003	1.252e-03
K5	Ka.C.(w1)	0.0001	0.0002	-0.342e-03
	Ka.C.1	0.0001	0.0002	-0.342e-03
	Ka.C.2	0.0001	0.0003	-0.631e-03
	Ka.C.3	0.0001	0.0002	-0.510e-03
	Ka.C.4	0.0002	0.0002	-0.588e-03
	Ka.C.5	0.0002	0.0002	-0.579e-03
	Ka.C.6	0.0002	0.0002	-0.548e-03
	Ka.C.7	0.0002	0.0002	-0.502e-03
	Ka.C.8	0.0002	0.0002	-0.444e-03
	Ka.C.9	0.0001	0.0002	-0.380e-03
	Ka.C.10	0.0002	0.0004	-0.799e-03
	Ka.C.11	0.0003	0.0000	0.966e-03
	Ka.C.12	0.0002	0.0000	1.103e-03
	Ka.C.13	0.0003	0.0000	0.636e-03
	Ka.C.14	0.0002	0.0000	0.774e-03
	Ka.C.15	0.0006	0.0002	1.482e-03
	Ka.C.16	0.0005	0.0002	1.618e-03
	Ka.C.17	0.0006	0.0002	1.149e-03
	Ka.C.18	0.0005	0.0001	1.286e-03
	Ka.C.19	-0.0005	0.0001	-0.748e-03
	Ka.C.20	-0.0006	0.0000	-0.560e-03
	Ka.C.21	-0.0006	0.0001	-1.078e-03

Spant as WW (ontvangst)	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K5	Ka.C.22	-0.0006	0.0000	-0.889e-03
	Ka.C.23	-0.0002	0.0002	-0.245e-03
	Ka.C.24	-0.0003	0.0001	-0.060e-03
	Ka.C.25	-0.0003	0.0002	-0.577e-03
	Ka.C.26	-0.0003	0.0001	-0.391e-03
	Ka.C.27	-0.0001	0.0002	-2.074e-03
	Ka.C.28	-0.0002	0.0001	-1.731e-03
	Ka.C.29	0.0002	0.0003	-1.573e-03
	Ka.C.30	0.0001	0.0002	-1.233e-03
	Ka.C.31	-0.0001	0.0002	-2.074e-03
	Ka.C.32	-0.0002	0.0001	-1.731e-03
	Ka.C.33	0.0002	0.0003	-1.573e-03
	Ka.C.34	0.0001	0.0002	-1.233e-03
	Ka.C.35	0.0004	0.0004	-1.153e-03
K6	Ka.C.(w1)	0.0005	0.0001	0.222e-03
	Ka.C.1	0.0005	0.0001	0.222e-03
	Ka.C.2	0.0009	0.0001	0.389e-03
	Ka.C.3	0.0007	0.0001	0.310e-03
	Ka.C.4	0.0009	0.0001	0.391e-03
	Ka.C.5	0.0010	0.0001	0.409e-03
	Ka.C.6	0.0010	0.0001	0.407e-03
	Ka.C.7	0.0009	0.0001	0.384e-03
	Ka.C.8	0.0008	0.0001	0.337e-03
	Ka.C.9	0.0006	0.0001	0.263e-03
	Ka.C.10	0.0011	0.0001	0.477e-03
	Ka.C.11	0.0002	0.0000	0.998e-03
	Ka.C.12	-0.0002	-0.0001	0.860e-03
	Ka.C.13	0.0003	0.0000	1.372e-03
	Ka.C.14	-0.0001	0.0000	1.233e-03
	Ka.C.15	0.0008	0.0001	0.251e-03
	Ka.C.16	0.0005	0.0001	0.117e-03
	Ka.C.17	0.0009	0.0001	0.628e-03
	Ka.C.18	0.0006	0.0001	0.492e-03
	Ka.C.19	-0.0007	-0.0001	-1.264e-03
	Ka.C.20	-0.0010	-0.0001	-1.377e-03
	Ka.C.21	-0.0006	-0.0001	-0.890e-03
	Ka.C.22	-0.0009	-0.0001	-1.004e-03
	Ka.C.23	-0.0001	0.0001	-2.027e-03
	Ka.C.24	-0.0004	0.0001	-2.140e-03
	Ka.C.25	0.0000	0.0001	-1.651e-03
	Ka.C.26	-0.0003	0.0001	-1.764e-03
	Ka.C.27	0.0010	0.0001	2.197e-03
	Ka.C.28	0.0004	0.0000	1.927e-03
	Ka.C.29	0.0016	0.0002	1.451e-03
	Ka.C.30	0.0010	0.0001	1.186e-03
	Ka.C.31	0.0010	0.0001	2.197e-03
	Ka.C.32	0.0004	0.0000	1.927e-03
	Ka.C.33	0.0016	0.0002	1.451e-03
	Ka.C.34	0.0010	0.0001	1.186e-03
	Ka.C.35	0.0020	0.0003	0.847e-03
K7	Ka.C.(w1)	0.0001	0.0008	-0.617e-03
	Ka.C.1	0.0001	0.0008	-0.617e-03
	Ka.C.2	0.0001	0.0015	-1.132e-03
	Ka.C.3	0.0001	0.0012	-0.937e-03
	Ka.C.4	0.0002	0.0012	-0.997e-03
	Ka.C.5	0.0002	0.0012	-0.971e-03
	Ka.C.6	0.0002	0.0011	-0.917e-03
	Ka.C.7	0.0002	0.0011	-0.845e-03
	Ka.C.8	0.0002	0.0010	-0.761e-03
	Ka.C.9	0.0001	0.0009	-0.669e-03
	Ka.C.10	0.0002	0.0019	-1.451e-03
	Ka.C.11	0.0003	-0.0002	0.179e-03
	Ka.C.12	0.0002	-0.0004	0.378e-03
	Ka.C.13	0.0003	-0.0001	0.124e-03
	Ka.C.14	0.0002	-0.0003	0.323e-03
	Ka.C.15	0.0006	0.0006	-0.438e-03
	Ka.C.16	0.0005	0.0004	-0.240e-03
	Ka.C.17	0.0006	0.0007	-0.493e-03
	Ka.C.18	0.0005	0.0004	-0.294e-03
	Ka.C.19	-0.0005	0.0001	-0.028e-03
	Ka.C.20	-0.0006	-0.0002	0.287e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K7	Ka.C.21	-0.0005	0.0002	-0.081e-03
	Ka.C.22	-0.0006	-0.0002	0.234e-03
	Ka.C.23	-0.0002	0.0009	-0.650e-03
	Ka.C.24	-0.0003	0.0005	-0.335e-03
	Ka.C.25	-0.0003	0.0009	-0.703e-03
	Ka.C.26	-0.0003	0.0006	-0.388e-03
	Ka.C.27	0.0000	0.0011	-0.857e-03
	Ka.C.28	-0.0002	0.0005	-0.324e-03
	Ka.C.29	0.0002	0.0018	-1.477e-03
	Ka.C.30	0.0001	0.0012	-0.945e-03
	Ka.C.31	0.0000	0.0011	-0.857e-03
	Ka.C.32	-0.0002	0.0005	-0.324e-03
	Ka.C.33	0.0002	0.0018	-1.477e-03
	Ka.C.34	0.0001	0.0012	-0.945e-03
	Ka.C.35	0.0004	0.0023	-1.900e-03
K8	Ka.C.(w1)	0.0006	0.0014	-0.452e-03
	Ka.C.1	0.0006	0.0014	-0.452e-03
	Ka.C.2	0.0011	0.0026	-0.328e-03
	Ka.C.3	0.0009	0.0021	-1.113e-03
	Ka.C.4	0.0011	0.0022	-0.837e-03
	Ka.C.5	0.0011	0.0021	-0.783e-03
	Ka.C.6	0.0011	0.0020	-0.741e-03
	Ka.C.7	0.0010	0.0019	-0.670e-03
	Ka.C.8	0.0009	0.0017	-0.590e-03
	Ka.C.9	0.0007	0.0015	-0.502e-03
	Ka.C.10	0.0014	0.0033	-0.990e-03
	Ka.C.11	0.0001	-0.0003	0.025e-03
	Ka.C.12	-0.0002	-0.0008	0.216e-03
	Ka.C.13	0.0001	-0.0002	-0.024e-03
	Ka.C.14	-0.0002	-0.0007	0.167e-03
	Ka.C.15	0.0009	0.0010	-0.495e-03
	Ka.C.16	0.0006	0.0006	-0.304e-03
	Ka.C.17	0.0010	0.0011	-0.544e-03
	Ka.C.18	0.0007	0.0007	-0.353e-03
	Ka.C.19	-0.0006	0.0002	0.118e-03
	Ka.C.20	-0.0009	-0.0005	0.363e-03
	Ka.C.21	-0.0005	0.0003	0.071e-03
	Ka.C.22	-0.0009	-0.0004	0.316e-03
	Ka.C.23	0.0002	0.0015	-0.407e-03
	Ka.C.24	-0.0001	0.0008	-0.161e-03
	Ka.C.25	0.0003	0.0016	-0.454e-03
	Ka.C.26	0.0000	0.0009	-0.208e-03
	Ka.C.27	0.0008	0.0019	-0.667e-03
	Ka.C.28	0.0002	0.0008	-0.213e-03
	Ka.C.29	0.0017	0.0032	-1.190e-03
	Ka.C.30	0.0010	0.0021	-0.735e-03
	Ka.C.31	0.0008	0.0019	-0.667e-03
	Ka.C.32	0.0002	0.0008	-0.213e-03
	Ka.C.33	0.0017	0.0032	-1.190e-03
	Ka.C.34	0.0010	0.0021	-0.735e-03
	Ka.C.35	0.0022	0.0042	-1.544e-03
K9	Ka.C.(w1)	0.0001	0.0018	-0.388e-03
	Ka.C.1	0.0001	0.0018	-0.388e-03
	Ka.C.2	0.0002	0.0034	-0.744e-03
	Ka.C.3	0.0002	0.0027	-0.574e-03
	Ka.C.4	0.0002	0.0030	-0.725e-03
	Ka.C.5	0.0003	0.0029	-0.702e-03
	Ka.C.6	0.0003	0.0027	-0.659e-03
	Ka.C.7	0.0003	0.0025	-0.595e-03
	Ka.C.8	0.0002	0.0022	-0.519e-03
	Ka.C.9	0.0002	0.0020	-0.436e-03
	Ka.C.10	0.0003	0.0043	-0.930e-03
	Ka.C.11	0.0003	-0.0005	0.165e-03
	Ka.C.12	0.0002	-0.0011	0.346e-03
	Ka.C.13	0.0003	-0.0004	0.125e-03
	Ka.C.14	0.0002	-0.0010	0.305e-03
	Ka.C.15	0.0006	0.0014	-0.345e-03
	Ka.C.16	0.0005	0.0008	-0.165e-03
	Ka.C.17	0.0006	0.0015	-0.386e-03
	Ka.C.18	0.0005	0.0009	-0.206e-03
	Ka.C.19	-0.0004	0.0000	0.164e-03

Spant as WW (ontvangst)	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K9	Ka.C.20	-0.0005	-0.0009	0.397e-03
	Ka.C.21	-0.0005	0.0002	0.125e-03
	Ka.C.22	-0.0005	-0.0008	0.359e-03
	Ka.C.23	-0.0002	0.0019	-0.352e-03
	Ka.C.24	-0.0002	0.0010	-0.118e-03
	Ka.C.25	-0.0002	0.0020	-0.390e-03
	Ka.C.26	-0.0002	0.0011	-0.157e-03
	Ka.C.27	0.0001	0.0025	-0.559e-03
	Ka.C.28	-0.0001	0.0009	-0.129e-03
	Ka.C.29	0.0004	0.0044	-1.073e-03
	Ka.C.30	0.0002	0.0028	-0.643e-03
	Ka.C.31	0.0001	0.0025	-0.559e-03
	Ka.C.32	-0.0001	0.0009	-0.129e-03
	Ka.C.33	0.0004	0.0044	-1.073e-03
	Ka.C.34	0.0002	0.0028	-0.643e-03
K10	Ka.C.35	0.0006	0.0057	-1.423e-03
	Ka.C.(w1)	0.0005	0.0022	-0.088e-03
	Ka.C.1	0.0005	0.0022	-0.088e-03
	Ka.C.2	0.0009	0.0040	-0.843e-03
	Ka.C.3	0.0007	0.0032	0.186e-03
	Ka.C.4	0.0010	0.0036	-0.298e-03
	Ka.C.5	0.0010	0.0035	-0.396e-03
	Ka.C.6	0.0010	0.0033	-0.330e-03
	Ka.C.7	0.0009	0.0030	-0.280e-03
	Ka.C.8	0.0008	0.0027	-0.209e-03
	Ka.C.9	0.0006	0.0024	-0.132e-03
	Ka.C.10	0.0012	0.0051	-0.569e-03
	Ka.C.11	0.0001	-0.0007	0.381e-03
	Ka.C.12	-0.0002	-0.0014	0.547e-03
	Ka.C.13	0.0002	-0.0005	0.349e-03
	Ka.C.14	-0.0001	-0.0013	0.515e-03
	Ka.C.15	0.0009	0.0017	-0.069e-03
	Ka.C.16	0.0006	0.0010	0.097e-03
	Ka.C.17	0.0009	0.0019	-0.101e-03
	Ka.C.18	0.0006	0.0011	0.065e-03
	Ka.C.19	-0.0006	-0.0002	0.434e-03
	Ka.C.20	-0.0009	-0.0013	0.624e-03
	Ka.C.21	-0.0006	0.0000	0.404e-03
	Ka.C.22	-0.0009	-0.0011	0.594e-03
	Ka.C.23	0.0001	0.0022	-0.021e-03
	Ka.C.24	-0.0001	0.0010	0.169e-03
	Ka.C.25	0.0002	0.0024	-0.051e-03
	Ka.C.26	-0.0001	0.0012	0.139e-03
	Ka.C.27	0.0007	0.0030	-0.221e-03
	Ka.C.28	0.0001	0.0010	0.151e-03
	Ka.C.29	0.0015	0.0054	-0.675e-03
	Ka.C.30	0.0009	0.0034	-0.302e-03
	Ka.C.31	0.0007	0.0030	-0.221e-03
	Ka.C.32	0.0001	0.0010	0.151e-03
	Ka.C.33	0.0015	0.0054	-0.675e-03
	Ka.C.34	0.0009	0.0034	-0.302e-03
	Ka.C.35	0.0020	0.0070	-0.984e-03
K11	Ka.C.(w1)	0.0002	0.0024	-0.191e-03
	Ka.C.1	0.0002	0.0024	-0.191e-03
	Ka.C.2	0.0004	0.0044	-0.350e-03
	Ka.C.3	0.0003	0.0035	-0.238e-03
	Ka.C.4	0.0004	0.0041	-0.441e-03
	Ka.C.5	0.0004	0.0040	-0.445e-03
	Ka.C.6	0.0004	0.0038	-0.410e-03
	Ka.C.7	0.0004	0.0034	-0.363e-03
	Ka.C.8	0.0003	0.0031	-0.300e-03
	Ka.C.9	0.0003	0.0026	-0.232e-03
	Ka.C.10	0.0005	0.0056	-0.397e-03
	Ka.C.11	0.0002	-0.0008	0.094e-03
	Ka.C.12	0.0001	-0.0017	0.243e-03
	Ka.C.13	0.0002	-0.0006	0.069e-03
	Ka.C.14	0.0001	-0.0015	0.217e-03
	Ka.C.15	0.0006	0.0020	-0.260e-03
	Ka.C.16	0.0004	0.0011	-0.111e-03
	Ka.C.17	0.0006	0.0022	-0.285e-03
	Ka.C.18	0.0004	0.0013	-0.136e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K11	Ka.C.19	-0.0004	-0.0005	0.276e-03
	Ka.C.20	-0.0005	-0.0018	0.407e-03
	Ka.C.21	-0.0004	-0.0002	0.253e-03
	Ka.C.22	-0.0005	-0.0015	0.384e-03
	Ka.C.23	-0.0001	0.0023	-0.082e-03
	Ka.C.24	-0.0002	0.0010	0.048e-03
	Ka.C.25	-0.0001	0.0025	-0.105e-03
	Ka.C.26	-0.0002	0.0012	0.025e-03
	Ka.C.27	0.0002	0.0034	-0.294e-03
	Ka.C.28	0.0000	0.0010	-0.001e-03
	Ka.C.29	0.0006	0.0061	-0.650e-03
	Ka.C.30	0.0003	0.0038	-0.358e-03
	Ka.C.31	0.0002	0.0034	-0.294e-03
	Ka.C.32	0.0000	0.0010	-0.001e-03
	Ka.C.33	0.0006	0.0061	-0.650e-03
	Ka.C.34	0.0003	0.0038	-0.358e-03
	Ka.C.35	0.0008	0.0080	-0.893e-03
K12	Ka.C.(w1)	0.0004	0.0025	-0.158e-03
	Ka.C.1	0.0004	0.0025	-0.158e-03
	Ka.C.2	0.0008	0.0047	0.192e-03
	Ka.C.3	0.0006	0.0037	-0.253e-03
	Ka.C.4	0.0008	0.0045	-0.706e-03
	Ka.C.5	0.0008	0.0044	-0.277e-03
	Ka.C.6	0.0008	0.0041	-0.367e-03
	Ka.C.7	0.0008	0.0037	-0.299e-03
	Ka.C.8	0.0007	0.0033	-0.254e-03
	Ka.C.9	0.0005	0.0028	-0.193e-03
	Ka.C.10	0.0009	0.0059	0.096e-03
	Ka.C.11	0.0001	-0.0009	-0.021e-03
	Ka.C.12	-0.0001	-0.0019	0.104e-03
	Ka.C.13	0.0002	-0.0006	-0.039e-03
	Ka.C.14	-0.0001	-0.0017	0.086e-03
	Ka.C.15	0.0008	0.0022	-0.276e-03
	Ka.C.16	0.0005	0.0012	-0.150e-03
	Ka.C.17	0.0008	0.0025	-0.294e-03
	Ka.C.18	0.0006	0.0014	-0.168e-03
	Ka.C.19	-0.0006	-0.0007	0.225e-03
	Ka.C.20	-0.0009	-0.0022	0.305e-03
	Ka.C.21	-0.0006	-0.0005	0.210e-03
	Ka.C.22	-0.0008	-0.0019	0.289e-03
	Ka.C.23	0.0000	0.0023	-0.034e-03
	Ka.C.24	-0.0002	0.0009	0.046e-03
	Ka.C.25	0.0001	0.0026	-0.050e-03
	Ka.C.26	-0.0002	0.0012	0.030e-03
	Ka.C.27	0.0006	0.0036	-0.229e-03
	Ka.C.28	0.0001	0.0010	-0.020e-03
	Ka.C.29	0.0013	0.0066	-0.486e-03
	Ka.C.30	0.0007	0.0041	-0.276e-03
	Ka.C.31	0.0006	0.0036	-0.229e-03
	Ka.C.32	0.0001	0.0010	-0.020e-03
	Ka.C.33	0.0013	0.0066	-0.486e-03
	Ka.C.34	0.0007	0.0041	-0.276e-03
	Ka.C.35	0.0017	0.0087	-0.661e-03
K13	Ka.C.(w1)	0.0003	0.0026	-0.047e-03
	Ka.C.1	0.0003	0.0026	-0.047e-03
	Ka.C.2	0.0005	0.0048	-0.027e-03
	Ka.C.3	0.0004	0.0038	-0.023e-03
	Ka.C.4	0.0005	0.0047	-0.124e-03
	Ka.C.5	0.0005	0.0047	-0.205e-03
	Ka.C.6	0.0005	0.0044	-0.203e-03
	Ka.C.7	0.0005	0.0040	-0.169e-03
	Ka.C.8	0.0004	0.0035	-0.128e-03
	Ka.C.9	0.0003	0.0029	-0.078e-03
	Ka.C.10	0.0007	0.0060	-0.004e-03
	Ka.C.11	0.0002	-0.0009	-0.028e-03
	Ka.C.12	0.0000	-0.0020	0.078e-03
	Ka.C.13	0.0002	-0.0006	-0.039e-03
	Ka.C.14	0.0000	-0.0018	0.067e-03
	Ka.C.15	0.0006	0.0025	-0.194e-03
	Ka.C.16	0.0004	0.0013	-0.088e-03
	Ka.C.17	0.0006	0.0027	-0.205e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K13	Ka.C.18	0.0005	0.0015	-0.099e-03
	Ka.C.19	-0.0004	-0.0010	0.288e-03
	Ka.C.20	-0.0006	-0.0025	0.310e-03
	Ka.C.21	-0.0004	-0.0008	0.279e-03
	Ka.C.22	-0.0005	-0.0022	0.300e-03
	Ka.C.23	0.0000	0.0023	0.117e-03
	Ka.C.24	-0.0002	0.0008	0.138e-03
	Ka.C.25	0.0000	0.0025	0.108e-03
	Ka.C.26	-0.0001	0.0011	0.129e-03
	Ka.C.27	0.0004	0.0037	-0.090e-03
	Ka.C.28	0.0001	0.0010	0.046e-03
	Ka.C.29	0.0008	0.0070	-0.258e-03
	Ka.C.30	0.0005	0.0042	-0.122e-03
	Ka.C.31	0.0004	0.0037	-0.090e-03
	Ka.C.32	0.0001	0.0010	0.046e-03
	Ka.C.33	0.0008	0.0070	-0.258e-03
	Ka.C.34	0.0005	0.0042	-0.122e-03
	Ka.C.35	0.0011	0.0092	-0.373e-03
K14	Ka.C.(w1)	0.0003	0.0026	0.027e-03
	Ka.C.1	0.0003	0.0026	0.027e-03
	Ka.C.2	0.0006	0.0048	0.008e-03
	Ka.C.3	0.0005	0.0037	0.093e-03
	Ka.C.4	0.0006	0.0048	0.425e-03
	Ka.C.5	0.0007	0.0048	-0.430e-03
	Ka.C.6	0.0007	0.0045	0.003e-03
	Ka.C.7	0.0006	0.0041	-0.089e-03
	Ka.C.8	0.0006	0.0036	-0.030e-03
	Ka.C.9	0.0004	0.0030	0.000e-03
	Ka.C.10	0.0007	0.0059	0.073e-03
	Ka.C.11	0.0002	-0.0008	-0.082e-03
	Ka.C.12	-0.0001	-0.0021	0.002e-03
	Ka.C.13	0.0002	-0.0006	-0.086e-03
	Ka.C.14	0.0000	-0.0018	-0.002e-03
	Ka.C.15	0.0007	0.0026	-0.151e-03
	Ka.C.16	0.0005	0.0013	-0.067e-03
	Ka.C.17	0.0007	0.0029	-0.155e-03
	Ka.C.18	0.0005	0.0016	-0.071e-03
	Ka.C.19	-0.0006	-0.0013	0.348e-03
	Ka.C.20	-0.0008	-0.0028	0.288e-03
	Ka.C.21	-0.0006	-0.0011	0.346e-03
	Ka.C.22	-0.0008	-0.0025	0.285e-03
	Ka.C.23	-0.0001	0.0021	0.275e-03
	Ka.C.24	-0.0002	0.0007	0.215e-03
	Ka.C.25	0.0000	0.0024	0.273e-03
	Ka.C.26	-0.0002	0.0009	0.212e-03
	Ka.C.27	0.0005	0.0038	0.013e-03
	Ka.C.28	0.0001	0.0009	0.069e-03
	Ka.C.29	0.0010	0.0072	-0.058e-03
	Ka.C.30	0.0006	0.0043	-0.002e-03
	Ka.C.31	0.0005	0.0038	0.013e-03
	Ka.C.32	0.0001	0.0009	0.069e-03
	Ka.C.33	0.0010	0.0072	-0.058e-03
	Ka.C.34	0.0006	0.0043	-0.002e-03
	Ka.C.35	0.0014	0.0095	-0.106e-03
K15	Ka.C.(w1)	0.0004	0.0026	0.076e-03
	Ka.C.1	0.0004	0.0026	0.076e-03
	Ka.C.2	0.0007	0.0046	0.196e-03
	Ka.C.3	0.0005	0.0037	0.138e-03
	Ka.C.4	0.0006	0.0046	0.170e-03
	Ka.C.5	0.0007	0.0048	0.090e-03
	Ka.C.6	0.0006	0.0046	0.011e-03
	Ka.C.7	0.0006	0.0041	0.008e-03
	Ka.C.8	0.0005	0.0036	0.032e-03
	Ka.C.9	0.0004	0.0030	0.056e-03
	Ka.C.10	0.0008	0.0057	0.259e-03
	Ka.C.11	0.0001	-0.0007	-0.125e-03
	Ka.C.12	-0.0001	-0.0020	-0.077e-03
	Ka.C.13	0.0002	-0.0004	-0.123e-03
	Ka.C.14	0.0000	-0.0018	-0.076e-03
	Ka.C.15	0.0006	0.0028	-0.099e-03
	Ka.C.16	0.0004	0.0014	-0.051e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K15	Ka.C.17	0.0006	0.0030	-0.097e-03
	Ka.C.18	0.0005	0.0017	-0.049e-03
	Ka.C.19	-0.0004	-0.0016	0.220e-03
	Ka.C.20	-0.0006	-0.0030	0.152e-03
	Ka.C.21	-0.0004	-0.0013	0.224e-03
	Ka.C.22	-0.0006	-0.0027	0.155e-03
	Ka.C.23	0.0001	0.0019	0.241e-03
	Ka.C.24	-0.0001	0.0005	0.173e-03
	Ka.C.25	0.0001	0.0021	0.245e-03
	Ka.C.26	-0.0001	0.0007	0.176e-03
	Ka.C.27	0.0005	0.0037	0.088e-03
	Ka.C.28	0.0001	0.0009	0.066e-03
	Ka.C.29	0.0010	0.0071	0.112e-03
	Ka.C.30	0.0006	0.0043	0.090e-03
	Ka.C.31	0.0005	0.0037	0.088e-03
	Ka.C.32	0.0001	0.0009	0.066e-03
	Ka.C.33	0.0010	0.0071	0.112e-03
	Ka.C.34	0.0006	0.0043	0.090e-03
	Ka.C.35	0.0013	0.0095	0.129e-03
K16	Ka.C.(w1)	0.0003	0.0025	0.132e-03
	Ka.C.1	0.0003	0.0025	0.132e-03
	Ka.C.2	0.0004	0.0044	0.309e-03
	Ka.C.3	0.0003	0.0035	0.209e-03
	Ka.C.4	0.0004	0.0044	0.187e-03
	Ka.C.5	0.0005	0.0046	0.620e-03
	Ka.C.6	0.0005	0.0045	-0.235e-03
	Ka.C.7	0.0005	0.0041	0.190e-03
	Ka.C.8	0.0004	0.0035	0.085e-03
	Ka.C.9	0.0003	0.0029	0.126e-03
	Ka.C.10	0.0005	0.0054	0.386e-03
	Ka.C.11	0.0002	-0.0006	-0.220e-03
	Ka.C.12	0.0000	-0.0019	-0.181e-03
	Ka.C.13	0.0002	-0.0003	-0.212e-03
	Ka.C.14	0.0000	-0.0017	-0.173e-03
	Ka.C.15	0.0006	0.0028	-0.097e-03
	Ka.C.16	0.0004	0.0014	-0.058e-03
	Ka.C.17	0.0006	0.0031	-0.089e-03
	Ka.C.18	0.0004	0.0017	-0.050e-03
	Ka.C.19	-0.0005	-0.0018	0.156e-03
	Ka.C.20	-0.0007	-0.0031	0.050e-03
	Ka.C.21	-0.0005	-0.0015	0.166e-03
	Ka.C.22	-0.0006	-0.0028	0.060e-03
	Ka.C.23	-0.0001	0.0016	0.274e-03
	Ka.C.24	-0.0003	0.0003	0.168e-03
	Ka.C.25	-0.0001	0.0019	0.284e-03
	Ka.C.26	-0.0002	0.0006	0.178e-03
	Ka.C.27	0.0004	0.0036	0.170e-03
	Ka.C.28	0.0000	0.0008	0.070e-03
	Ka.C.29	0.0008	0.0069	0.291e-03
	Ka.C.30	0.0004	0.0041	0.191e-03
	Ka.C.31	0.0004	0.0036	0.170e-03
	Ka.C.32	0.0000	0.0008	0.070e-03
	Ka.C.33	0.0008	0.0069	0.291e-03
	Ka.C.34	0.0004	0.0041	0.191e-03
	Ka.C.35	0.0010	0.0092	0.375e-03
K17	Ka.C.(w1)	0.0004	0.0023	0.186e-03
	Ka.C.1	0.0004	0.0023	0.186e-03
	Ka.C.2	0.0008	0.0041	0.367e-03
	Ka.C.3	0.0006	0.0032	0.284e-03
	Ka.C.4	0.0008	0.0041	0.367e-03
	Ka.C.5	0.0008	0.0043	0.368e-03
	Ka.C.6	0.0008	0.0043	0.284e-03
	Ka.C.7	0.0007	0.0039	0.196e-03
	Ka.C.8	0.0006	0.0034	0.178e-03
	Ka.C.9	0.0005	0.0027	0.182e-03
	Ka.C.10	0.0010	0.0050	0.465e-03
	Ka.C.11	0.0001	-0.0004	-0.143e-03
	Ka.C.12	-0.0001	-0.0018	-0.180e-03
	Ka.C.13	0.0002	-0.0002	-0.129e-03
	Ka.C.14	-0.0001	-0.0015	-0.166e-03
	Ka.C.15	0.0007	0.0028	0.067e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K17	Ka.C.16	0.0004	0.0015	0.029e-03
	Ka.C.17	0.0007	0.0030	0.081e-03
	Ka.C.18	0.0005	0.0017	0.043e-03
	Ka.C.19	-0.0005	-0.0019	0.070e-03
	Ka.C.20	-0.0007	-0.0031	-0.055e-03
	Ka.C.21	-0.0004	-0.0016	0.085e-03
	Ka.C.22	-0.0007	-0.0028	-0.039e-03
	Ka.C.23	0.0001	0.0014	0.273e-03
	Ka.C.24	-0.0002	0.0002	0.149e-03
	Ka.C.25	0.0001	0.0016	0.289e-03
	Ka.C.26	-0.0001	0.0004	0.165e-03
	Ka.C.27	0.0006	0.0034	0.250e-03
	Ka.C.28	0.0002	0.0007	0.079e-03
	Ka.C.29	0.0012	0.0066	0.456e-03
	Ka.C.30	0.0007	0.0039	0.286e-03
	Ka.C.31	0.0006	0.0034	0.250e-03
	Ka.C.32	0.0002	0.0007	0.079e-03
	Ka.C.33	0.0012	0.0066	0.456e-03
	Ka.C.34	0.0007	0.0039	0.286e-03
	Ka.C.35	0.0016	0.0087	0.599e-03
K18	Ka.C.(w1)	0.0002	0.0021	0.235e-03
	Ka.C.1	0.0002	0.0021	0.235e-03
	Ka.C.2	0.0003	0.0036	0.438e-03
	Ka.C.3	0.0002	0.0029	0.346e-03
	Ka.C.4	0.0003	0.0037	0.465e-03
	Ka.C.5	0.0003	0.0039	0.373e-03
	Ka.C.6	0.0003	0.0040	0.800e-03
	Ka.C.7	0.0003	0.0037	-0.067e-03
	Ka.C.8	0.0003	0.0031	0.343e-03
	Ka.C.9	0.0002	0.0025	0.210e-03
	Ka.C.10	0.0003	0.0044	0.549e-03
	Ka.C.11	0.0002	-0.0003	-0.107e-03
	Ka.C.12	0.0000	-0.0016	-0.199e-03
	Ka.C.13	0.0002	-0.0001	-0.088e-03
	Ka.C.14	0.0001	-0.0014	-0.180e-03
	Ka.C.15	0.0004	0.0027	0.183e-03
	Ka.C.16	0.0003	0.0014	0.091e-03
	Ka.C.17	0.0005	0.0029	0.203e-03
	Ka.C.18	0.0003	0.0016	0.111e-03
	Ka.C.19	-0.0004	-0.0019	-0.017e-03
	Ka.C.20	-0.0005	-0.0030	-0.158e-03
	Ka.C.21	-0.0004	-0.0017	0.005e-03
	Ka.C.22	-0.0005	-0.0027	-0.136e-03
	Ka.C.23	-0.0002	0.0011	0.268e-03
	Ka.C.24	-0.0002	0.0000	0.127e-03
	Ka.C.25	-0.0001	0.0013	0.290e-03
	Ka.C.26	-0.0002	0.0002	0.149e-03
	Ka.C.27	0.0003	0.0031	0.324e-03
	Ka.C.28	0.0000	0.0006	0.086e-03
	Ka.C.29	0.0005	0.0060	0.612e-03
	Ka.C.30	0.0003	0.0036	0.374e-03
	Ka.C.31	0.0003	0.0031	0.324e-03
	Ka.C.32	0.0000	0.0006	0.086e-03
	Ka.C.33	0.0005	0.0060	0.612e-03
	Ka.C.34	0.0003	0.0036	0.374e-03
	Ka.C.35	0.0007	0.0080	0.809e-03
K19	Ka.C.(w1)	0.0005	0.0018	0.278e-03
	Ka.C.1	0.0005	0.0018	0.278e-03
	Ka.C.2	0.0009	0.0032	0.507e-03
	Ka.C.3	0.0007	0.0025	0.397e-03
	Ka.C.4	0.0009	0.0032	0.508e-03
	Ka.C.5	0.0009	0.0034	0.539e-03
	Ka.C.6	0.0009	0.0035	0.529e-03
	Ka.C.7	0.0008	0.0033	0.431e-03
	Ka.C.8	0.0007	0.0029	0.326e-03
	Ka.C.9	0.0006	0.0022	0.283e-03
	Ka.C.10	0.0011	0.0039	0.627e-03
	Ka.C.11	0.0001	-0.0002	-0.107e-03
	Ka.C.12	-0.0002	-0.0013	-0.237e-03
	Ka.C.13	0.0002	0.0000	-0.082e-03
	Ka.C.14	-0.0001	-0.0011	-0.212e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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Knoop	B.C.	X	Z	Yr
K19	Ka.C.15	0.0007	0.0025	0.261e-03
	Ka.C.16	0.0005	0.0013	0.130e-03
	Ka.C.17	0.0008	0.0027	0.286e-03
	Ka.C.18	0.0005	0.0015	0.155e-03
	Ka.C.19	-0.0006	-0.0018	-0.116e-03
	Ka.C.20	-0.0008	-0.0027	-0.274e-03
	Ka.C.21	-0.0005	-0.0016	-0.089e-03
	Ka.C.22	-0.0007	-0.0025	-0.247e-03
	Ka.C.23	0.0001	0.0008	0.246e-03
	Ka.C.24	-0.0002	-0.0001	0.088e-03
	Ka.C.25	0.0001	0.0010	0.273e-03
	Ka.C.26	-0.0001	0.0001	0.115e-03
	Ka.C.27	0.0008	0.0027	0.390e-03
	Ka.C.28	0.0002	0.0005	0.088e-03
	Ka.C.29	0.0014	0.0053	0.755e-03
	Ka.C.30	0.0008	0.0031	0.453e-03
	Ka.C.31	0.0008	0.0027	0.390e-03
	Ka.C.32	0.0002	0.0005	0.088e-03
	Ka.C.33	0.0014	0.0053	0.755e-03
	Ka.C.34	0.0008	0.0031	0.453e-03
	Ka.C.35	0.0018	0.0071	1.005e-03
K20	Ka.C.(w1)	0.0001	0.0015	0.316e-03
	Ka.C.1	0.0001	0.0015	0.316e-03
	Ka.C.2	0.0002	0.0026	0.562e-03
	Ka.C.3	0.0001	0.0021	0.443e-03
	Ka.C.4	0.0002	0.0027	0.561e-03
	Ka.C.5	0.0002	0.0028	0.620e-03
	Ka.C.6	0.0002	0.0029	0.515e-03
	Ka.C.7	0.0002	0.0028	0.925e-03
	Ka.C.8	0.0002	0.0025	0.033e-03
	Ka.C.9	0.0001	0.0019	0.442e-03
	Ka.C.10	0.0002	0.0032	0.690e-03
	Ka.C.11	0.0001	-0.0001	-0.086e-03
	Ka.C.12	0.0001	-0.0011	-0.266e-03
	Ka.C.13	0.0002	0.0001	-0.055e-03
	Ka.C.14	0.0001	-0.0009	-0.235e-03
	Ka.C.15	0.0003	0.0022	0.361e-03
	Ka.C.16	0.0002	0.0011	0.181e-03
	Ka.C.17	0.0003	0.0023	0.391e-03
	Ka.C.18	0.0002	0.0013	0.211e-03
	Ka.C.19	-0.0003	-0.0017	-0.259e-03
	Ka.C.20	-0.0003	-0.0024	-0.429e-03
	Ka.C.21	-0.0003	-0.0015	-0.226e-03
	Ka.C.22	-0.0003	-0.0023	-0.397e-03
	Ka.C.23	-0.0001	0.0006	0.181e-03
	Ka.C.24	-0.0002	-0.0001	0.011e-03
	Ka.C.25	-0.0001	0.0008	0.214e-03
	Ka.C.26	-0.0002	0.0000	0.043e-03
	Ka.C.27	0.0002	0.0023	0.451e-03
	Ka.C.28	0.0000	0.0005	0.085e-03
	Ka.C.29	0.0003	0.0045	0.895e-03
	Ka.C.30	0.0002	0.0027	0.529e-03
	Ka.C.31	0.0002	0.0023	0.451e-03
	Ka.C.32	0.0000	0.0005	0.085e-03
	Ka.C.33	0.0003	0.0045	0.895e-03
	Ka.C.34	0.0002	0.0027	0.529e-03
	Ka.C.35	0.0004	0.0060	1.198e-03
K21	Ka.C.(w1)	0.0005	0.0012	0.342e-03
	Ka.C.1	0.0005	0.0012	0.342e-03
	Ka.C.2	0.0009	0.0021	0.597e-03
	Ka.C.3	0.0007	0.0017	0.475e-03
	Ka.C.4	0.0009	0.0021	0.605e-03
	Ka.C.5	0.0010	0.0022	0.639e-03
	Ka.C.6	0.0009	0.0023	0.653e-03
	Ka.C.7	0.0009	0.0022	0.624e-03
	Ka.C.8	0.0008	0.0020	0.502e-03
	Ka.C.9	0.0006	0.0016	0.373e-03
	Ka.C.10	0.0011	0.0025	0.731e-03
	Ka.C.11	0.0001	0.0000	-0.054e-03
	Ka.C.12	-0.0002	-0.0008	-0.264e-03
	Ka.C.13	0.0002	0.0001	-0.018e-03

Spant as WW (ontvangst)	Novares Constructeurs			
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Knoop	B.C.	X	Z	Yr
K21	Ka.C.14	-0.0001	-0.0007	-0.228e-03
	Ka.C.15	0.0008	0.0018	0.431e-03
	Ka.C.16	0.0005	0.0009	0.221e-03
	Ka.C.17	0.0009	0.0019	0.467e-03
	Ka.C.18	0.0005	0.0011	0.257e-03
	Ka.C.19	-0.0006	-0.0014	-0.301e-03
	Ka.C.20	-0.0009	-0.0020	-0.480e-03
	Ka.C.21	-0.0006	-0.0013	-0.263e-03
	Ka.C.22	-0.0008	-0.0019	-0.442e-03
	Ka.C.23	0.0000	0.0004	0.177e-03
	Ka.C.24	-0.0003	-0.0002	-0.001e-03
	Ka.C.25	0.0001	0.0005	0.215e-03
	Ka.C.26	-0.0002	-0.0001	0.037e-03
	Ka.C.27	0.0009	0.0018	0.503e-03
	Ka.C.28	0.0003	0.0004	0.099e-03
	Ka.C.29	0.0015	0.0036	0.985e-03
	Ka.C.30	0.0009	0.0021	0.581e-03
	Ka.C.31	0.0009	0.0018	0.503e-03
	Ka.C.32	0.0003	0.0004	0.099e-03
	Ka.C.33	0.0015	0.0036	0.985e-03
	Ka.C.34	0.0009	0.0021	0.581e-03
	Ka.C.35	0.0020	0.0048	1.313e-03
K22	Ka.C.(w1)	0.0000	0.0009	0.366e-03
	Ka.C.1	0.0000	0.0009	0.366e-03
	Ka.C.2	0.0001	0.0014	0.631e-03
	Ka.C.3	0.0000	0.0012	0.504e-03
	Ka.C.4	0.0001	0.0015	0.641e-03
	Ka.C.5	0.0001	0.0015	0.672e-03
	Ka.C.6	0.0001	0.0016	0.714e-03
	Ka.C.7	0.0001	0.0016	0.582e-03
	Ka.C.8	0.0001	0.0015	0.992e-03
	Ka.C.9	0.0001	0.0012	-0.029e-03
	Ka.C.10	0.0001	0.0017	0.769e-03
	Ka.C.11	0.0001	0.0000	-0.013e-03
	Ka.C.12	0.0000	-0.0006	-0.227e-03
	Ka.C.13	0.0001	0.0001	0.029e-03
	Ka.C.14	0.0001	-0.0005	-0.185e-03
	Ka.C.15	0.0001	0.0013	0.470e-03
	Ka.C.16	0.0001	0.0007	0.256e-03
	Ka.C.17	0.0001	0.0014	0.512e-03
	Ka.C.18	0.0001	0.0008	0.299e-03
	Ka.C.19	-0.0001	-0.0011	-0.202e-03
	Ka.C.20	-0.0001	-0.0015	-0.388e-03
	Ka.C.21	-0.0001	-0.0010	-0.158e-03
	Ka.C.22	-0.0001	-0.0014	-0.344e-03
	Ka.C.23	-0.0001	0.0002	0.275e-03
	Ka.C.24	-0.0001	-0.0002	0.090e-03
	Ka.C.25	-0.0001	0.0003	0.319e-03
	Ka.C.26	-0.0001	-0.0001	0.134e-03
	Ka.C.27	0.0001	0.0013	0.557e-03
	Ka.C.28	0.0000	0.0003	0.142e-03
	Ka.C.29	0.0001	0.0026	1.038e-03
	Ka.C.30	0.0001	0.0015	0.623e-03
	Ka.C.31	0.0001	0.0013	0.557e-03
	Ka.C.32	0.0000	0.0003	0.142e-03
	Ka.C.33	0.0001	0.0026	1.038e-03
	Ka.C.34	0.0001	0.0015	0.623e-03
	Ka.C.35	0.0001	0.0034	1.363e-03
K23	Ka.C.(w1)	0.0005	0.0005	0.405e-03
	Ka.C.1	0.0005	0.0005	0.405e-03
	Ka.C.2	0.0009	0.0008	0.680e-03
	Ka.C.3	0.0007	0.0006	0.548e-03
	Ka.C.4	0.0009	0.0008	0.690e-03
	Ka.C.5	0.0010	0.0009	0.732e-03
	Ka.C.6	0.0010	0.0009	0.747e-03
	Ka.C.7	0.0009	0.0009	0.737e-03
	Ka.C.8	0.0008	0.0008	0.688e-03
	Ka.C.9	0.0006	0.0007	0.530e-03
	Ka.C.10	0.0012	0.0009	0.823e-03
	Ka.C.11	0.0001	0.0000	0.027e-03
	Ka.C.12	-0.0002	-0.0003	-0.255e-03

Spant as WW (ontvangst)	Novares Constructeurs	
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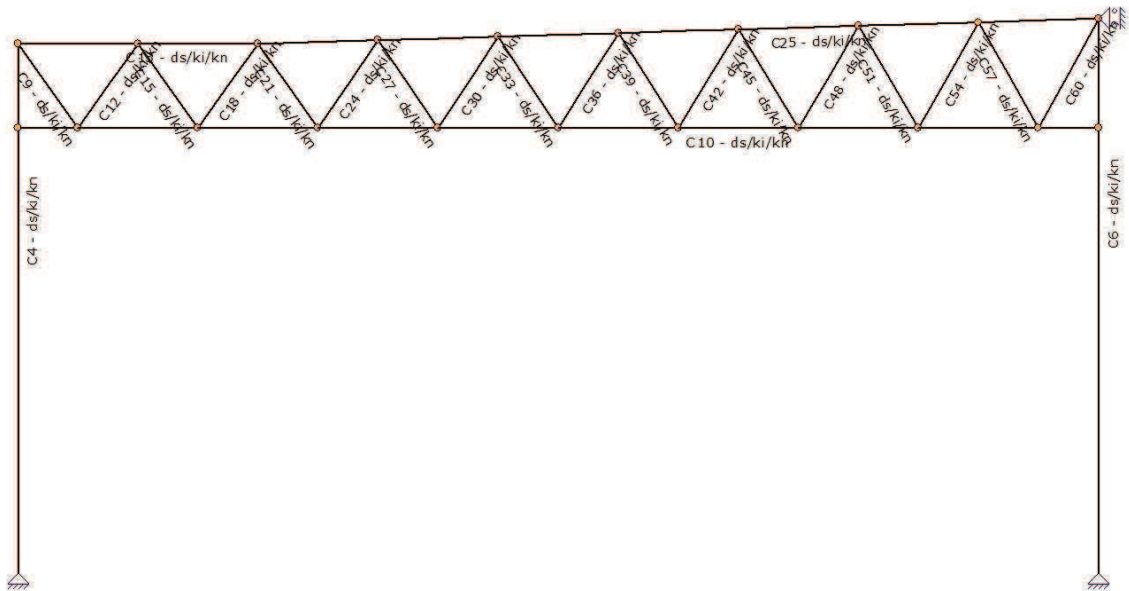
Knoop	B.C.	X	Z	Yr
K23	Ka.C.13	0.0002	0.0001	0.073e-03
	Ka.C.14	-0.0001	-0.0003	-0.209e-03
	Ka.C.15	0.0008	0.0008	0.611e-03
	Ka.C.16	0.0005	0.0004	0.329e-03
	Ka.C.17	0.0009	0.0008	0.657e-03
	Ka.C.18	0.0006	0.0004	0.375e-03
	Ka.C.19	-0.0007	-0.0006	-0.497e-03
	Ka.C.20	-0.0010	-0.0008	-0.689e-03
	Ka.C.21	-0.0006	-0.0006	-0.449e-03
	Ka.C.22	-0.0009	-0.0008	-0.642e-03
	Ka.C.23	0.0000	0.0002	0.081e-03
	Ka.C.24	-0.0003	-0.0001	-0.111e-03
	Ka.C.25	0.0000	0.0002	0.129e-03
	Ka.C.26	-0.0002	0.0000	-0.064e-03
	Ka.C.27	0.0009	0.0007	0.611e-03
	Ka.C.28	0.0003	0.0001	0.119e-03
	Ka.C.29	0.0016	0.0014	1.193e-03
	Ka.C.30	0.0010	0.0008	0.701e-03
	Ka.C.31	0.0009	0.0007	0.611e-03
	Ka.C.32	0.0003	0.0001	0.119e-03
	Ka.C.33	0.0016	0.0014	1.193e-03
	Ka.C.34	0.0010	0.0008	0.701e-03
	Ka.C.35	0.0020	0.0019	1.586e-03
-	-	m	m	rad

KA.C. EXTREME DOORBUIGINGEN ANALYSE

Staaf	B.C.	Knoop Begin		Staaf	Knoop Eind		
		X	Z	Z'afst	Z'	X	Z
S4	Ka.C.16	0,000	0,000	3.330	0.0126	0,001	0,000
S4	Ka.C.27	0,000	0,000	3.330	-0.0121	0,000	0,000
S4	Ka.C.31	0,000	0,000	3.330	-0.0121	0,000	0,000
S5	Ka.C.15	0,001	0,000	0.560	-0.0004	0,001	0,000
S5	Ka.C.28	0,000	0,000	0.560	0.0004	0,000	0,000
S5	Ka.C.32	0,000	0,000	0.560	0.0004	0,000	0,000
S6	Ka.C.24	0,000	0,000	3.330	-0.0132	0,000	0,000
S6	Ka.C.27	0,000	0,000	3.330	0.0123	0,001	0,000
S6	Ka.C.31	0,000	0,000	3.330	0.0123	0,001	0,000
S7	Ka.C.23	0,000	0,000	0.728	0.0007	0,000	0,000
S7	Ka.C.28	0,000	0,000	0.728	-0.0006	0,000	0,000
S7	Ka.C.32	0,000	0,000	0.728	-0.0006	0,000	0,000
S9	Ka.C.14	0,000	0,000	0.946	0.0000	0,000	0,000
S10	Ka.C.10	0,000	0,000	0.700	0.0000	0,000	0,002
S12	Ka.C.35	0,000	0,002	0.946	0.0001	0,002	0,004
S13	Ka.C.2	0,001	0,000	0.900	0.0007	0,001	0,003
S13	Ka.C.12	0,000	0,000	1.100	-0.0001	0,000	-0,001
S15	Ka.C.20	-0,001	-0,001	0.946	0.0000	-0,001	-0,001
S16	Ka.C.10	0,000	0,002	1.100	0.0001	0,000	0,004
S16	Ka.C.12	0,000	0,000	1.800	0.0000	0,000	-0,001
S18	Ka.C.35	0,001	0,006	0.946	0.0001	0,002	0,007
S19	Ka.C.2	0,001	0,003	0.400	-0.0001	0,001	0,004
S19	Ka.C.3	0,001	0,002	1.000	0.0005	0,001	0,003
S21	Ka.C.22	-0,001	-0,001	0.946	0.0000	-0,001	-0,002
S22	Ka.C.10	0,000	0,004	1.000	0.0001	0,000	0,006
S22	Ka.C.12	0,000	-0,001	1.300	0.0000	0,000	-0,002
S24	Ka.C.35	0,001	0,008	0.973	0.0001	0,002	0,009
S25	Ka.C.2	0,001	0,004	1.000	0.0004	0,001	0,005
S25	Ka.C.12	0,000	-0,001	0.900	-0.0002	0,000	-0,002
S27	Ka.C.21	-0,001	-0,001	0.973	0.0001	0,000	-0,001
S28	Ka.C.12	0,000	-0,002	1.200	0.0000	0,000	-0,002
S28	Ka.C.35	0,001	0,008	1.000	0.0001	0,001	0,009
S30	Ka.C.15	0,001	0,002	1.001	0.0001	0,001	0,003
S31	Ka.C.4	0,001	0,005	1.000	0.0004	0,001	0,005
S31	Ka.C.12	0,000	-0,002	1.100	-0.0001	0,000	-0,002
S33	Ka.C.25	0,000	0,002	1.001	0.0001	0,000	0,002
S34	Ka.C.20	-0,001	-0,002	1.200	0.0000	-0,001	-0,003
S34	Ka.C.35	0,001	0,009	1.000	0.0001	0,001	0,009
S36	Ka.C.11	0,000	-0,001	1.028	0.0001	0,000	-0,001

Staaf	B.C.	Knoop Begin		Staaf	Knoop Eind	X	Z
		X	Z				
S37	Ka.C.5	0,001	0,005	1.000	0.0004	0,000	0,005
S37	Ka.C.20	-0,001	-0,003	1.000	-0.0001	-0,001	-0,003
S39	Ka.C.35	0,001	0,009	1.028	0.0001	0,002	0,009
S40	Ka.C.20	-0,001	-0,003	1.100	0.0000	-0,001	-0,003
S40	Ka.C.35	0,001	0,009	1.000	0.0001	0,002	0,009
S42	Ka.C.12	0,000	-0,002	1.056	0.0001	0,000	-0,002
S43	Ka.C.6	0,001	0,005	1.000	0.0004	0,000	0,004
S43	Ka.C.20	-0,001	-0,003	1.000	-0.0001	0,000	-0,003
S45	Ka.C.35	0,001	0,008	1.056	0.0001	0,002	0,007
S46	Ka.C.20	-0,001	-0,003	1.100	0.0000	-0,001	-0,003
S46	Ka.C.35	0,002	0,009	1.000	0.0001	0,002	0,007
S48	Ka.C.12	0,000	-0,001	1.085	0.0001	0,000	-0,001
S49	Ka.C.7	0,000	0,004	1.000	0.0004	0,000	0,003
S49	Ka.C.20	0,000	-0,003	1.000	-0.0001	0,000	-0,002
S51	Ka.C.35	0,000	0,006	1.085	0.0001	0,002	0,005
S52	Ka.C.20	-0,001	-0,003	1.100	0.0000	-0,001	-0,002
S52	Ka.C.35	0,002	0,007	1.000	0.0001	0,002	0,005
S54	Ka.C.12	0,000	-0,001	1.113	0.0001	0,000	-0,001
S55	Ka.C.8	0,000	0,003	1.000	0.0004	0,000	0,001
S55	Ka.C.9	0,000	0,002	1.301	-0.0001	0,000	0,001
S56	Ka.C.9	0,000	0,001	1.100	0.0005	0,000	0,000
S56	Ka.C.20	0,000	-0,001	1.100	-0.0003	0,000	0,000
S57	Ka.C.35	0,000	0,003	1.012	0.0001	0,002	0,002
S58	Ka.C.20	-0,001	-0,002	1.100	0.0000	-0,001	-0,001
S58	Ka.C.35	0,002	0,005	1.100	0.0001	0,002	0,002
S59	Ka.C.20	-0,001	-0,001	0.050	0.0000	-0,001	0,000
S59	Ka.C.35	0,002	0,002	0.800	0.0000	0,002	0,000
S60	Ka.C.20	-0,001	-0,001	1.038	0.0001	0,000	0,000
-	-	m	m	m	m	m	m

AFB. STAALCONTROLE



SAMENSTELLING CONSTRUCTIEDELEN

Constructiedeel	Staaf/staven
C4	S4; S5

Spant as WW (ontvangst)	Novares Constructeurs	
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C6	S6; S7
C9	S9
C10	S10; S16; S22; S28; S34; S40; S46; S52; S58; S59
C12	S12
C13	S13; S19
C15	S15
C18	S18
C21	S21
C24	S24
C25	S25; S31; S37; S43; S49; S55; S56
C27	S27
C30	S30
C33	S33
C36	S36
C39	S39
C42	S42
C45	S45
C48	S48
C51	S51
C54	S54
C57	S57
C60	S60

KNIKLENGTEGEGEVENS

Staaf	Profiel	Lokale Y-as				Lokale Z-as		
		Lsys	methode	Lbuc	Lbuc/Lsys	methode	Lbuc	Lbuc/Lsys
C4 - V1 (0.000-8.800)	P3	8.800	Cons. gesch.	8.800	1.00	Cons. gesch.	8.800	1.00
C6 - V1 (0.000-9.220)	P3	9.220	Cons. gesch.	9.220	1.00	Cons. gesch.	9.220	1.00
C9 - V1 (0.000-1.720)	P4	1.720	Cons. gesch.	1.720	1.00	Cons. gesch.	1.720	1.00
C10 - V1 (0.000-18.000)	P1	18.000	Handmatige Invoer	2.000	0.11	Cons. gesch.	18.000	1.00
C12 - V1 (0.000-1.720)	P4	1.720	Cons. gesch.	1.720	1.00	Cons. gesch.	1.720	1.00
C13 - V1 (0.000-4.000)	P2	4.000	Cons. gesch.	4.000	1.00	Cons. gesch.	4.000	1.00
C15 - V1 (0.000-1.720)	P4	1.720	Cons. gesch.	1.720	1.00	Cons. gesch.	1.720	1.00
C18 - V1 (0.000-1.720)	P4	1.720	Cons. gesch.	1.720	1.00	Cons. gesch.	1.720	1.00
C21 - V1 (0.000-1.720)	P4	1.720	Cons. gesch.	1.720	1.00	Cons. gesch.	1.720	1.00
C24 - V1 (0.000-1.770)	P4	1.770	Cons. gesch.	1.770	1.00	Cons. gesch.	1.770	1.00
C25 - V1 (0.000-14.006)	P2	14.010	Handmatige Invoer	2.000	0.14	Handmatige Invoer	6.000	0.43
C27 - V1 (0.000-1.770)	P4	1.770	Cons. gesch.	1.770	1.00	Cons. gesch.	1.770	1.00
C30 - V1 (0.000-1.819)	P4	1.820	Cons. gesch.	1.819	1.00	Cons. gesch.	1.819	1.00
C33 - V1 (0.000-1.819)	P4	1.820	Cons. gesch.	1.819	1.00	Cons. gesch.	1.819	1.00
C36 - V1 (0.000-1.870)	P4	1.870	Cons. gesch.	1.870	1.00	Cons. gesch.	1.870	1.00
C39 - V1 (0.000-1.870)	P4	1.870	Cons. gesch.	1.870	1.00	Cons. gesch.	1.870	1.00
C42 - V1 (0.000-1.921)	P4	1.920	Cons. gesch.	1.921	1.00	Cons. gesch.	1.921	1.00
C45 - V1 (0.000-1.921)	P4	1.920	Cons. gesch.	1.921	1.00	Cons. gesch.	1.921	1.00
C48 - V1 (0.000-1.972)	P4	1.970	Cons. gesch.	1.972	1.00	Cons. gesch.	1.972	1.00
C51 - V1 (0.000-1.972)	P4	1.970	Cons. gesch.	1.972	1.00	Cons. gesch.	1.972	1.00
C54 - V1 (0.000-2.024)	P4	2.020	Cons. gesch.	2.024	1.00	Cons. gesch.	2.024	1.00
C57 - V1 (0.000-2.024)	P4	2.020	Cons. gesch.	2.024	1.00	Cons. gesch.	2.024	1.00
C60 - V1 (0.000-2.077)	P4	2.080	Cons. gesch.	2.077	1.00	Cons. gesch.	2.077	1.00
-	-	m	-	m	-	-	m	-

KIPSTEUNENGEDEVENS

Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C4 - V1 (0.000-8.800)	P3	Gesteund	Gesteund			Centrum
C6 - V1 (0.000-9.220)	P3	Gesteund	Gesteund			Centrum
C9 - V1 (0.000-1.720)	P4	Gesteund	Gesteund			Centrum
C10 - V1 (0.000-18.000)	P1	Gesteund	Gesteund			Centrum
C12 - V1 (0.000-1.720)	P4	Gesteund	Gesteund			Centrum
C13 - V1 (0.000-4.000)	P2	Gesteund	Gesteund			Centrum

Spant as WW (ontvangst)	Novares Constructeurs	
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Staaf	Profiel	Begin:	Eind:	Kipsteunen boven	Kipsteunen onder	Aangrijphoogte
C15 - V1 (0.000-1.720)	P4	Gesteund	Gesteund			Centrum
C18 - V1 (0.000-1.720)	P4	Gesteund	Gesteund			Centrum
C21 - V1 (0.000-1.720)	P4	Gesteund	Gesteund			Centrum
C24 - V1 (0.000-1.770)	P4	Gesteund	Gesteund			Centrum
C25 - V1 (0.000-14.006)	P2	Gesteund	Gesteund			Centrum
C27 - V1 (0.000-1.770)	P4	Gesteund	Gesteund			Centrum
C30 - V1 (0.000-1.819)	P4	Gesteund	Gesteund			Centrum
C33 - V1 (0.000-1.819)	P4	Gesteund	Gesteund			Centrum
C36 - V1 (0.000-1.870)	P4	Gesteund	Gesteund			Centrum
C39 - V1 (0.000-1.870)	P4	Gesteund	Gesteund			Centrum
C42 - V1 (0.000-1.921)	P4	Gesteund	Gesteund			Centrum
C45 - V1 (0.000-1.921)	P4	Gesteund	Gesteund			Centrum
C48 - V1 (0.000-1.972)	P4	Gesteund	Gesteund			Centrum
C51 - V1 (0.000-1.972)	P4	Gesteund	Gesteund			Centrum
C54 - V1 (0.000-2.024)	P4	Gesteund	Gesteund			Centrum
C57 - V1 (0.000-2.024)	P4	Gesteund	Gesteund			Centrum
C60 - V1 (0.000-2.077)	P4	Gesteund	Gesteund			Centrum
-	-	-	-	m	m	-

STAALTOETS RESULTATEN MET PROFIELGEGEVENS NEN-EN1993-1-1:2009/NB:2011

Profielgegevens staaf C4-V1 (0.000-8.800)

HE180A	Analyse	Staal S235	f _{yd} (toegepast) = 235 N/mm ²
h = 171,0 mm	A = 4,53e-03 m ²	W _{y;el} = 293.6e-06 m ³	W _{y;pl} = 324.9e-06 m ³
b = 180,0 mm	I _y = 251.0e-07 m ⁴	W _{z;el} = 102.7e-06 m ³	W _{z;pl} = 156.5e-06 m ³
t _f = 9,5 mm	I _z = 924.6e-08 m ⁴	A _{w;y;el} = 3.61e-03 m ²	A _{w;y;pl} = 3.61e-03 m ²
t _w = 6,0 mm	Massa/m = 35,5 kg/m	A _{w;z;el} = 1.45e-03 m ²	A _{w;z;pl} = 1.45e-03 m ²
r = 15,0 mm		I _t = 148.0e-09 m ⁴	I _{wa} = 602.1e-10 m ⁶

Doorsnedetoetsing C4-V1 (0.000-8.800)

Maatgevende combinatie: Fu.C.6 op 7,400 m		Profielklasse = 1
N;Ed = -17,7 kN	Vy;Ed = 0,0 kN	My;Ed = -29,4 kNm
	Vz;Ed = 24,4 kN	Mz;Ed = 0,0 kNm
N;Rd = 1.063,4 kN	Vy;Rd = 490,2 kN	MyRd = 76,3 kNm
	Vz;Rd = 196,3 kN	MzRd = 36,8 kNm

NEN-EN1993-1-1(6.12): UC = 0,38 < 1

Kiptoetsing C4-V1 (0.000-8.800)

Equi. profiel: HE180A			
Maatgevende combinatie: Fu.C.6		Instab. curve Kip:a	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,016	b-eff(Eind) = 0,018
Tabel gebruikt NB 6.3	F = 3,6kN/m	= 0,0	
Onderflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 8,800 m	lst = 8,800 m
Lsys = 8,800 m	Lg = 8,800 m	S = 1,029 m	Iwa = 6.0211e-08 m6
C1 = 1,35	C2 = 0,55 (tabel)	C2(toegepast) = 0,00	C = 4,52
Mcr = 78,2 kNm	kred = 1.0	Lam-rel = 0,99	Profielklasse 1
Chi;LT(Fu.C.6) = 0,67	M;Ed = 29,4 kNm		UC(y) = 0,57
Chi;LT,Z = 1,00	Ikip = 8,800 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,57 < 1			

Stabiliteitstoetsing C4-V1 (0.000-8.800)

Maatgevende combinatie: Fu.C.1			
N;Ed = -93,4 kN	N _b ;R _d ;y = 476,0 kN	N _b ;R _d ;z = 196,1 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	L _{knik} Y = 8,800 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	L _{knik} Z = 8,800 m
X _y = 0,45		Knikcurve: B	

Spant as WW (ontvangst)	Novares Constructeurs	
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Xz = 0,18
NEN-EN1993-1-1(6.46): UC = 0,48 < 1

Knikcurve: C

Buiging & Druk C4-V1 (0.000-8.800)

Maatgevende combinatie: Fu.C.1
N;Ed = -93,4 kN

Kipgevoelig Ja
My;Ed = 29,4 kNm
Delta;My;Ed = 0,0 kNm

Profielklasse = 1
Mz;Ed = 0,0 kNm
Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm
Mz = 0,0 kNm
Cmy = 0,95
Kyy = 1,099
Ksi;y = 0,45

My;Psi = 0,0 kNm
Mz;Psi = 0,0 kNm
Cmz = 1,00
Kyz = 1,000
Ksi;z = 0,18

My;s = -3,2 kNm
Mz;s = 0,0 kNm
CmLT = 0,95
Kzy = 0,932
Ksi;LT = 0,61

Kzz = 1,667

NEN-EN1993-1-1(6.61&6.62): UC = 0,57 < 1

Profielgegevens staaf C6-V1 (0.000-9.220)

HE180A
h = 171,0 mm
b = 180,0 mm
tf = 9,5 mm
tw = 6,0 mm
r = 15,0 mm

Analyse
A = 4,53e-03 m²
Iy = 251.0e-07 m⁴
Iz = 924.6e-08 m⁴
Massa/m = 35,5 kg/m

Staal S235 fyd(toegepast) = 235 N/mm²
Wy;el = 293.6e-06 m³
Wz;el = 102.7e-06 m³
Aw;y;el = 3.61e-03 m²
Aw;z;el = 1.45e-03 m²
It = 148.0e-09 m⁴
Wy;pl = 324.9e-06 m³
Wz;pl = 156.5e-06 m³
Aw;y;pl = 3.61e-03 m²
Aw;z;pl = 1.45e-03 m²
Iwa = 602.1e-10 m⁴

Doorsnedetoetsing C6-V1 (0.000-9.220)

Maatgevende combinatie: Fu.C.14 op 7,400 m

N;Ed = -4,3 kN
N;Rd = 1.063,4 kN

Vy;Ed = 0,0 kN
Vz;Ed = 22,3 kN
Vy;Rd = 490,2 kN
Vz;Rd = 196,3 kN

Profielklasse = 1
My;Ed = 27,7 kNm
Mz;Ed = 0,0 kNm
MyRd = 76,3 kNm
MzRd = 36,8 kNm

NEN-EN1993-1-1(6.12): UC = 0,36 < 1

Kiptoetsing C6-V1 (0.000-9.220)

Equi. profiel: HE180A

Maatgevende combinatie: Fu.C.14

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

Tabel gebruikt NB 6.3

F = 3,0kN/m

Bovenflens maatgevend

Xb;lst = 0,000 m

Lsys = 9,220 m

Lg = 9,220 m

C1 = 1,35

C2 = 0,55 (tabel)

Mcr = 74,3 kNm

kred = 1,0

Chi;LT(Fu.C.14) = 0,66

M;Ed = 27,7 kNm

Chi;LT,Z = 1,00

lkip = 9,220 m

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,55 < 1

Instab. curve Kip:a

b-eff(Begin) = 0,016
= 0,0
Xe;lst = 9,220 m
S = 1,029 m
C2(toegepast) = 0,00
Lam-rel = 1,01

b-eff(Eind) = 0,012
lst = 9,220 m
Iwa = 6.0211e-08 m⁶
C = 4,49
Profielklasse 1
UC(y) = 0,55
UC(z) = 0,00

Stabiliteitstoetsing C6-V1 (0.000-9.220)

Maatgevende combinatie: Fu.C.14

N;Ed = -7,4 kN

Nb;Rd;y = 444,8 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Methode Z = Cons. gesch.

Ca(z) = N/B

Xy = 0,42

Nb;Rd;z = 180,8 kN

Cb(y) = 0,000

Lknik Y = 9,220 m

Cb(z) = N/B

Lknik Z = 9,220 m

Xz = 0,17

Knikcurve: B

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,04 < 1

Buiging & Druk C6-V1 (0.000-9.220)

Maatgevende combinatie: Fu.C.14
N;Ed = -7,4 kN

Kipgevoelig Ja
My;Ed = 27,7 kNm
Delta;My;Ed = 0,0 kNm

Profielklasse = 1
Mz;Ed = 0,0 kNm
Delta;Mz;Ed = 0,0 kNm
My;s = -15,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

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Spant as WW (ontvangst)	Novares Constructeurs	
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Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 0,963	Kyz = 0,634	Kzy = 0,994	Kzz = 1,057
Ksi;y = 0,42	Ksi;z = 0,17	Ksi;LT = 0,66	
NEN-EN1993-1-1(6.61&6.62): UC = 0,59 < 1			

Profielgegevens staaf C9-V1 (0.000-1.720)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C9-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1 op 0,000 m	Profielklasse = 1
N;Ed = 96,7 kN	My;Ed = 0,0 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 200,9 kN	MyRd = 4,1 kNm
	MzRd = 4,1 kNm
NEN-EN1993-1-1(6.5): UC = 0,48 < 1	

Kiptoetsing C9-V1 (0.000-1.720)

Equi. profiel: KK60/4	Instab. curve Kip:d
Maatgevende combinatie: Fu.C.37	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel	
Kipsteun bovenflens: N.v.t.	
Kipsteun onderflens: N.v.t.	
Inklem. begin: Gesteund	b-eff(Begin) = 0,000
Tabel gebruikt NB 6.2	= 0,0
Bovenflens maatgevend	Xe;lst = 1,720 m
Lsys = 1,720 m	S = 0,036 m
C1 = 1,13	C2(toegepast) = 0,00
Mcr = 0,0 kNm	Lam-rel = 0,00
Chi;LT(Fu.C.37) = 1,00	Profielklasse 1
Chi;LT,Z = 1,00	UC(y) = 0,00
My;begin = 0,0 kNm	UC(z) = 0,00
My;eind = 0,0 kNm	
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)	

Stabiliteitstoetsing C9-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.5	
N;Ed = -15,6 kN	Nb;Rd;y = 131,5 kN
Methode Y = Cons. gesch.	Nb;Rd;z = 131,5 kN
Methode Z = Cons. gesch.	Ca(y) = 0,000
	Ca(z) = N/B
Xy = 0,65	Cb(y) = 0,000
Xz = 0,65	Cb(z) = N/B
NEN-EN1993-1-1(6.46): UC = 0,12 < 1	Knikcurve: C
	Knikcurve: C
	Lknik Y = 1,720 m
	Lknik Z = 1,720 m

Buiging & Druk C9-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.5	Profielklasse = 1
N;Ed = -15,6 kN	Mz;Ed = 0,0 kNm
	Delta;Mz;Ed = 0,0 kNm
My = 0,0 kNm	My;s = 0,0 kNm
Mz = 0,0 kNm	Mz;s = 0,0 kNm
Cmy = 0,95	CmLT = 0,95
Kyy = 1,019	Kyz = 0,643
Ksi;y = 0,65	Kzy = 0,611
	Ksi;z = 0,65
	Ksi;LT = 1,00
NEN-EN1993-1-1(6.61&6.62): UC = 0,12 < 1	
	Kzz = 1,072

Profielgegevens staaf C10-V1 (0.000-18.000)

Spant as WW (ontvangst)	Novares Constructeurs	
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KK150/6.3	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 150,0 mm	A = 3,48e-03 m2	Wy;el = 156.5e-06 m3	Wy;pl = 185.1e-06 m3
b = 150,0 mm	Iy = 117.4e-07 m4	Wz;el = 156.5e-06 m3	Wz;pl = 185.1e-06 m3
tf = 6,3 mm	Iz = 117.4e-07 m4	Aw;y;el = 1.74e-03 m2	Aw;y;pl = 1.74e-03 m2
tw = 6,3 mm	Massa/m = 27,4 kg/m	Aw;z;el = 1.74e-03 m2	Aw;z;pl = 1.74e-03 m2
r = 9,4 mm		It = 186.9e-07 m4	Iwa = 605.9e-10 m6

Doorsnedetoetsing C10-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.1 op 7,000 m		Profielklasse = 1
N;Ed = 225,8 kN	Vy;Ed = 0,0 kN	My;Ed = 1,4 kNm
	Vz;Ed = 0,2 kN	Mz;Ed = 0,0 kNm
N;Rd = 819,0 kN	Vy;Rd = 236,4 kN	MyRd = 43,5 kNm
	Vz;Rd = 236,4 kN	MzRd = 43,5 kNm
NEN-EN1993-1-1(6.5): UC = 0,28 < 1		

Kiptoetsing C10-V1 (0.000-18.000)

Equi. profiel: KK150/6.3			
Maatgevende combinatie: Fu.C.37		Instab. curve Kip:d	
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,001	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 18,000 m	lst = 18,000 m
Lsys = 18,000 m	Lg = 18,000 m	S = 0,092 m	Iwa = 6.0592e-08 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 3,55
Mcr = 33,9 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 1,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 18,000 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C10-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.11			
N;Ed = -64,8 kN	Nb;Rd;y = 749,1 kN	Nb;Rd;z = 65,2 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 2,000 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 18,000 m
Xy = 0,91		Knikcurve: C	
Xz = 0,08		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,99 < 1			

Buiging & Druk C10-V1 (0.000-18.000)

Maatgevende combinatie: Fu.C.11		Profielklasse = 1	
N;Ed = -64,8 kN	My;Ed = 1,0 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = -0,5 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 0,964	Kyz = 1,077	Kzy = 0,578	Kzz = 1,795
Ksi;y = 0,91	Ksi;z = 0,08	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 1,00 > 1			

Profielgegevens staaf C12-V1 (0.000-1.720)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C12-V1 (0.000-1.720)

Spant as WW (ontvangst)	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.1 op 0,000 m

N;Ed = -96,8 kN

Vy;Ed = 0,0 kN

Vz;Ed = 0,1 kN

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

Vz;Rd = 58,0 kN

Profielklasse = 1

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

MyRd = 4,1 kNm

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,48 < 1

Kiptoetsing C12-V1 (0.000-1.720)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,1kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,720 m

lst = 1,720 m

Lsys = 1,720 m

Lg = 1,720 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

lkip = 1,720 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C12-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1

N;Ed = -96,8 kN

Nb;Rd;y = 131,5 kN

Nb;Rd;z = 131,5 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 1,720 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,720 m

Xy = 0,65

Knikcurve: C

Xz = 0,65

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,74 < 1

Buiging & Druk C12-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1

N;Ed = -96,8 kN

My;Ed = 0,0 kNm

Profielklasse = 1

Delta;My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,377

Kyz = 0,870

Kzy = 0,826

Kzz = 1,450

Ksi;y = 0,65

Ksi;z = 0,65

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,74 < 1

Profielgegevens staaf C13-V1 (0.000-4.000)

KW140/5

Analyse

Staal S235H(EN 10210-1) fyd(toegepast) = 235 N/mm2

h = 140,0 mm

A = 2,66e-03 m2

Wy;el = 114.5e-06 m3

Wy;pl = 134.0e-06 m3

b = 140,0 mm

Iy = 801.2e-08 m4

Wz;el = 114.5e-06 m3

Wz;pl = 134.0e-06 m3

tf = 5,0 mm

Iz = 801.2e-08 m4

Aw;y;el = 1.33e-03 m2

Aw;y;pl = 1.33e-03 m2

tw = 5,0 mm

Massa/m = 20,9 kg/m

Aw;z;el = 1.33e-03 m2

Aw;z;pl = 1.33e-03 m2

r = 7,5 mm

It = 123.0e-07 m4

Iwa = 365.0e-10 m6

Doorsnedetoetsing C13-V1 (0.000-4.000)

Maatgevende combinatie: Fu.C.1 op 3,600 m

Profielklasse = 1

N;Ed = -145,2 kN

Vy;Ed = 0,0 kN

My;Ed = 1,4 kNm

Vz;Ed = -6,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 625,7 kN

Vy;Rd = 180,6 kN

MyRd = 31,5 kNm

Vz;Rd = 180,6 kN

MzRd = 31,5 kNm

NEN-EN1993-1-1(6.9): UC = 0,23 < 1

Spant as WW (ontvangst)	Novares Constructeurs	
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Kiptoetsing C13-V1 (0.000-4.000)

Equi. profiel: KW140/5

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,008

b-eff(Eind) = 0,010

Tabel gebruikt Fig. NB.35

M = -2,7kN/m

MBeta = 0,0

F = 2,8

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 4,000 m

lst = 4,000 m

Lsys = 4,000 m

Lg = 4,000 m

S = 0,088 m

Iwa = 3.6503e-08 m6

C1 = 1,21

C2 = 0,33 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 4,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 4,000 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = -2,7 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C13-V1 (0.000-4.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -145,3 kN

Nb;Rd;y = 506,1 kN

Nb;Rd;z = 506,1 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 4,000 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 4,000 m

Xy = 0,81

Knikcurve: A

Xz = 0,81

Knikcurve: A

NEN-EN1993-1-1(6.46): UC = 0,29 < 1

Buiging & Druk C13-V1 (0.000-4.000)

Maatgevende combinatie: Fu.C.1

N;Ed = -145,3 kN

My;Ed = 4,0 kNm

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = -2,1 kNm

My;Psi = 0,0 kNm

My;s = -4,5 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,97

Cmz = 1,00

CmLT = 0,97

Kyy = 1,134

Kyz = 0,699

Kzy = 0,680

Kzz = 1,165

Ksi;y = 0,81

Ksi;z = 0,81

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,45 < 1

Profielgegevens staaf C15-V1 (0.000-1.720)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C15-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1 op 0,000 m

Profielklasse = 1

N;Ed = 62,4 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,31 < 1

Kiptoetsing C15-V1 (0.000-1.720)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Spant as WW (ontvangst)	Novares Constructeurs	
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Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,720 m	lst = 1,720 m
Lsys = 1,720 m	Lg = 1,720 m	S = 0,036 m	lwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	lkip = 1,720 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C15-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.13

N;Ed = -19,2 kN	Nb;Rd;y = 131,5 kN	Nb;Rd;z = 131,5 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,720 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,720 m
Xy = 0,65		Knikcurve: C	
Xz = 0,65		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,15 < 1			

Buiging & Druk C15-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.13

N;Ed = -19,2 kN	My;Ed = 0,0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,035	Kyz = 0,654	Kzy = 0,621	Kzz = 1,089
Ksi;y = 0,65	Ksi;z = 0,65	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,15 < 1			

Profielgegevens staaf C18-V1 (0.000-1.720)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	lwa = 341.4e-12 m6

Doorsnedetoetsing C18-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1 op 0,000 m

N;Ed = -61,7 kN	Vy;Ed = 0,0 kN	Profielklasse = 1	
	Vz;Ed = 0,1 kN	My;Ed = 0,0 kNm	
		Mz;Ed = 0,0 kNm	
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN	MyRd = 4,1 kNm	
	Vz;Rd = 58,0 kN	MzRd = 4,1 kNm	

NEN-EN1993-1-1(6.9): UC = 0,31 < 1

Kiptoetsing C18-V1 (0.000-1.720)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,1kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,720 m	lst = 1,720 m
Lsys = 1,720 m	Lg = 1,720 m	S = 0,036 m	lwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	lkip = 1,720 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Spant as WW (ontvangst)	Novares Constructeurs	
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Stabiliteitstoetsing C18-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1

N;Ed = -61,7 kN	Nb;Rd;y = 131,5 kN	Nb;Rd;z = 131,5 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,720 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,720 m
Xy = 0,65		Knikcurve: C	
Xz = 0,65		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,47 < 1			

Buiging & Druk C18-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1

N;Ed = -61,7 kN	My;Ed = 0,0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,223	Kyz = 0,772	Kzy = 0,734	Kzz = 1,287
Ksi;y = 0,65	Ksi;z = 0,65	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,48 < 1			

Profielgegevens staaf C21-V1 (0.000-1.720)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C21-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.1 op 0,000 m

N;Ed = 30,7 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = 0,0 kN	My;Ed = 0,0 kNm
		Mz;Ed = 0,0 kNm
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN	MyRd = 4,1 kNm
	Vz;Rd = 58,0 kN	MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,15 < 1

Kiptoetsing C21-V1 (0.000-1.720)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,720 m	lst = 1,720 m
Lsys = 1,720 m	Lg = 1,720 m	S = 0,036 m	Iwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	lkip = 1,720 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C21-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.13

N;Ed = -18,4 kN	Nb;Rd;y = 131,5 kN	Nb;Rd;z = 131,5 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,720 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,720 m
Xy = 0,65		Knikcurve: C	
Xz = 0,65		Knikcurve: C	

Spant as WW (ontvangst)	Novares Constructeurs	
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NEN-EN1993-1-1(6.46): UC = 0,14 < 1

Buiging & Druk C21-V1 (0.000-1.720)

Maatgevende combinatie: Fu.C.13

N;Ed = -18,4 kN

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

Kyy = 1,031

Kyz = 0,651

Ksi;y = 0,65

Ksi;z = 0,65

NEN-EN1993-1-1(6.61&6.62): UC = 0,14 < 1

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 0,0 kNm

Mz;s = 0,0 kNm

CmLT = 0,95

Kzy = 0,619

Kzz = 1,085

Ksi;LT = 1,00

Profielgegevens staaf C24-V1 (0.000-1.770)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C24-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.1 op 0,000 m

Profielklasse = 1

N;Ed = -29,7 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,15 < 1

Kiptoetsing C24-V1 (0.000-1.770)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,770 m

lst = 1,770 m

Lsys = 1,770 m

Lg = 1,770 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

Mi;Ed = 0,0 kNm

Knikcurve: C

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 1,770 m

Knikcurve: C

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C24-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.1

N;Ed = -29,7 kN

Nb;Rd;y = 128,6 kN

Nb;Rd;z = 128,6 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 1,770 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,770 m

Xy = 0,64

Xz = 0,64

NEN-EN1993-1-1(6.46): UC = 0,23 < 1

Buiging & Druk C24-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.1

N;Ed = -29,7 kN

My;Ed = 0,0 kNm

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Spant as WW (ontvangst)	Novares Constructeurs	
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C_{my} = 0,95 C_{mz} = 1,00 C_{mLT} = 0,95
 K_{yy} = 1,089 K_{yz} = 0,688 K_{zy} = 0,654 K_{zz} = 1,147
 K_{si;y} = 0,64 K_{si;z} = 0,64 K_{si;LT} = 1,00
 NEN-EN1993-1-1(6.61&6.62): UC = 0,24 < 1

Profielgegevens staaf C25-V1 (0.000-14.006)

KW140/5	Analyse	Staal S235H(EN 10210-1)	f _{yd} (toegepast) = 235 N/mm ²
h = 140,0 mm	A = 2,66e-03 m ²	W _{y;el} = 114.5e-06 m ³	W _{y;pl} = 134.0e-06 m ³
b = 140,0 mm	I _y = 801.2e-08 m ⁴	W _{z;el} = 114.5e-06 m ³	W _{z;pl} = 134.0e-06 m ³
t _f = 5,0 mm	I _z = 801.2e-08 m ⁴	A _{w;y;el} = 1.33e-03 m ²	A _{w;y;pl} = 1.33e-03 m ²
t _w = 5,0 mm	Massa/m = 20,9 kg/m	A _{w;z;el} = 1.33e-03 m ²	A _{w;z;pl} = 1.33e-03 m ²
r = 7,5 mm		I _t = 123.0e-07 m ⁴	I _{wa} = 365.0e-10 m ⁶

Doorsnedetoetsing C25-V1 (0.000-14.006)

Maatgevende combinatie: Fu.C.1 op 2,001 m	Profielklasse = 1
N;Ed = -221,7 kN	My;Ed = -1,6 kNm
	Mz;Ed = 0,0 kNm
N;Rd = 625,7 kN	MyRd = 31,5 kNm
	MzRd = 31,5 kNm

NEN-EN1993-1-1(6.9): UC = 0,35 < 1

Kipstoetsing C25-V1 (0.000-14.006)

Equi. profiel: KW140/5		Instab. curve Kip: d	
Maatgevende combinatie: Fu.C.37			
Aangrijphoogte van de last: 0,000 m vanaf hart profiel			
Kipsteun bovenflens: N.v.t.			
Kipsteun onderflens: N.v.t.			
Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,007	b-eff(Eind) = 0,000
Tabel gebruikt Fig. NB.35	M = -2,7kN/m	MBeta = 0,0	F = 0,0
Bovenflens maatgevend	X _b ;I _{st} = 0,000 m	X _e ;I _{st} = 14,006 m	I _{st} = 14,006 m
L _{sys} = 14,006 m	L _g = 14,006 m	S = 0,088 m	I _{wa} = 3.6503e-08 m ⁶
C1 = 1,77	C2 = 0,01 (tabel)	C2(toegepast) = 0,00	C = 0,00
M _{cr} = 0,0 kNm	k _{red} = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 2,2 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	I _{kip} = 14,006 m		UC(z) = 0,00
My;begin = -2,7 kNm	My;eind = 0,0 kNm		

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C25-V1 (0.000-14.006)

Maatgevende combinatie: Fu.C.1			
N;Ed = -221,7 kN	Nb;Rd;y = 598,1 kN	Nb;Rd;z = 345,8 kN	
Methode Y = Handmatige Invoer	Ca(y) = 0,000	Cb(y) = 0,000	L _{knik} Y = 2,000 m
Methode Z = Handmatige Invoer	Ca(z) = N/B	Cb(z) = N/B	L _{knik} Z = 6,000 m
X _y = 0,96		Knikcurve: A	
X _z = 0,55		Knikcurve: A	

NEN-EN1993-1-1(6.46): UC = 0,64 < 1

Buiging & Druk C25-V1 (0.000-14.006)

Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -221,7 kN	My;Ed = 2,2 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = -2,1 kNm	My;Psi = 0,0 kNm	My;s = 2,2 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
C _{my} = 0,90	C _{mz} = 1,00	C _{mLT} = 0,90	
K _{yy} = 0,966	K _{yz} = 0,908	K _{zy} = 0,579	K _{zz} = 1,513
K _{si;y} = 0,96	K _{si;z} = 0,55	K _{si;LT} = 1,00	

NEN-EN1993-1-1(6.61&6.62): UC = 0,69 < 1

Profielgegevens staaf C27-V1 (0.000-1.770)

KK60/4	Analyse	Staal S235H(EN10219-1)	f _{ya} (toegepast) = 235 N/mm ²
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Spant as WW (ontvangst)	Novares Constructeurs	
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h = 60,0 mm	A = 0,85e-03 m ²	Wy;el = 145.2e-07 m ³	Wy;pl = 176.4e-07 m ³
b = 60,0 mm	Iy = 435.5e-09 m ⁴	Wz;el = 145.2e-07 m ³	Wz;pl = 176.4e-07 m ³
tf = 4,0 mm	Iz = 435.5e-09 m ⁴	Aw;y;el = 4.27e-04 m ²	Aw;y;pl = 4.27e-04 m ²
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m ²	Aw;z;pl = 4.27e-04 m ²
r = 4,0 mm		It = 702.5e-09 m ⁴	Iwa = 341.4e-12 m ⁶

Doorsnedetoetsing C27-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.12 op 1,770 m

N;Ed = -15,7 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = 0,0 kN	My;Ed = 0,0 kNm
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN	Mz;Ed = 0,0 kNm
	Vz;Rd = 58,0 kN	MyRd = 4,1 kNm
		MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,08 < 1

Kiptoetsing C27-V1 (0.000-1.770)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,770 m	lst = 1,770 m
Lsys = 1,770 m	Lg = 1,770 m	S = 0,036 m	Iwa = 3.4144e-10 m ⁶
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 1,770 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C27-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.12

N;Ed = -15,7 kN	Nb;Rd;y = 128,6 kN	Nb;Rd;z = 128,6 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,770 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,770 m
Xy = 0,64		Knikcurve: C	
Xz = 0,64		Knikcurve: C	

NEN-EN1993-1-1(6.46): UC = 0,12 < 1

Buiging & Druk C27-V1 (0.000-1.770)

Maatgevende combinatie: Fu.C.12

N;Ed = -15,7 kN	My;Ed = 0,0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,024	Kyz = 0,646	Kzy = 0,614	Kzz = 1,077
Ksi;y = 0,64	Ksi;z = 0,64	Ksi;LT = 1,00	

NEN-EN1993-1-1(6.61&6.62): UC = 0,13 < 1

Profielgegevens staaf C30-V1 (0.000-1.819)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm ²
h = 60,0 mm	A = 0,85e-03 m ²	Wy;el = 145.2e-07 m ³	Wy;pl = 176.4e-07 m ³
b = 60,0 mm	Iy = 435.5e-09 m ⁴	Wz;el = 145.2e-07 m ³	Wz;pl = 176.4e-07 m ³
tf = 4,0 mm	Iz = 435.5e-09 m ⁴	Aw;y;el = 4.27e-04 m ²	Aw;y;pl = 4.27e-04 m ²
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m ²	Aw;z;pl = 4.27e-04 m ²
r = 4,0 mm		It = 702.5e-09 m ⁴	Iwa = 341.4e-12 m ⁶

Doorsnedetoetsing C30-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.12 op 1,819 m

Profielklasse = 1

Spant as WW (ontvangst)	Novares Constructeurs	
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N;Ed = 16,2 kN
 Vy;Ed = 0,0 kN
 Vz;Ed = 0,0 kN
 N;Rd = 200,9 kN
 Vy;Rd = 58,0 kN
 Vz;Rd = 58,0 kN
 My;Ed = 0,0 kNm
 Mz;Ed = 0,0 kNm
 MyRd = 4,1 kNm
 MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,08 < 1

Kiptoetsing C30-V1 (0.000-1.819)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,819 m

lst = 1,819 m

Lsys = 1,819 m

Lg = 1,819 m

S = 0,036 m

lwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

lkip = 1,819 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C30-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.6

N;Ed = -9,4 kN

Nb;Rd;y = 125,7 kN

Nb;Rd;z = 125,7 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 1,819 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,819 m

Xy = 0,63

Knikcurve: C

Xz = 0,63

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,07 < 1

Buiging & Druk C30-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.6

Profielklasse = 1

N;Ed = -9,4 kN

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 0,997

Kyz = 0,630

Kzy = 0,598

Kzz = 1,049

Ksi;y = 0,63

Ksi;z = 0,63

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,08 < 1

Profielgegevens staaf C33-V1 (0.000-1.819)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

lwa = 341.4e-12 m6

Doorsnedetoetsing C33-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.16 op 1,819 m

Profielklasse = 1

N;Ed = -17,3 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,09 < 1

Kiptoetsing C33-V1 (0.000-1.819)

Spant as WW (ontvangst)	Novares Constructeurs	
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Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,819 m

lst = 1,819 m

Lsys = 1,819 m

Lg = 1,819 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 1,819 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C33-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.16

N;Ed = -17,3 kN

Nb;Rd;y = 125,7 kN

Nb;Rd;z = 125,7 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 1,819 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,819 m

Xy = 0,63

Knikcurve: C

Xz = 0,63

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,14 < 1

Buiging & Druk C33-V1 (0.000-1.819)

Maatgevende combinatie: Fu.C.16

Profielklasse = 1

N;Ed = -17,3 kN

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,036

Kyz = 0,654

Kzy = 0,622

Kzz = 1,090

Ksi;y = 0,63

Ksi;z = 0,63

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,14 < 1

Profielgegevens staaf C36-V1 (0.000-1.870)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C36-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.16 op 1,870 m

Profielklasse = 1

N;Ed = 18,0 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,09 < 1

Kiptoetsing C36-V1 (0.000-1.870)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,870 m

lst = 1,870 m

Spant as WW (ontvangst)	Novares Constructeurs	
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Lsys = 1,870 m	Lg = 1,870 m	S = 0,036 m	Iwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 1,870 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C36-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.2

N;Ed = -13,3 kN	Nb;Rd;y = 122,7 kN	Nb;Rd;z = 122,7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,870 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,870 m
Xy = 0,61		Knikcurve: C	
Xz = 0,61		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,11 < 1			

Buiging & Druk C36-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.2

N;Ed = -13,3 kN	My;Ed = 0,0 kNm	Delta;My;Ed = 0,0 kNm	Profielklasse = 1
		Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,020	Kyz = 0,644	Kzy = 0,612	Kzz = 1,074
Ksi;y = 0,61	Ksi;z = 0,61	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,11 < 1			

Profielgegevens staaf C39-V1 (0.000-1.870)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C39-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.1 op 1,870 m

N;Ed = -28,4 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = 0,0 kN	My;Ed = 0,0 kNm
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN	Mz;Ed = 0,0 kNm
	Vz;Rd = 58,0 kN	MyRd = 4,1 kNm
		MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,14 < 1

Kiptoetsing C39-V1 (0.000-1.870)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,870 m	lst = 1,870 m
Lsys = 1,870 m	Lg = 1,870 m	S = 0,036 m	Iwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 1,870 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Spant as WW (ontvangst)	Novares Constructeurs	
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Stabiliteitstoetsing C39-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.1

N;Ed = -28,4 kN	Nb;Rd;y = 122,7 kN	Nb;Rd;z = 122,7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,870 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,870 m
Xy = 0,61		Knikcurve: C	
Xz = 0,61		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,23 < 1			

Buiging & Druk C39-V1 (0.000-1.870)

Maatgevende combinatie: Fu.C.1

N;Ed = -28,4 kN	My;Ed = 0,0 kNm	Profielklasse = 1	
	Delta;My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
		Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,100	Kyz = 0,695	Kzy = 0,660	Kzz = 1,158
Ksi;y = 0,61	Ksi;z = 0,61	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,24 < 1			

Profielgegevens staaf C42-V1 (0.000-1.921)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	Iy = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	Iz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C42-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.1 op 1,921 m

N;Ed = 28,8 kN	Vy;Ed = 0,0 kN	Profielklasse = 1
	Vz;Ed = 0,0 kN	My;Ed = 0,0 kNm
		Mz;Ed = 0,0 kNm
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN	MyRd = 4,1 kNm
	Vz;Rd = 58,0 kN	MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,14 < 1

Kipstoetsing C42-V1 (0.000-1.921)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,921 m	lst = 1,921 m
Lsys = 1,921 m	Lg = 1,921 m	S = 0,036 m	Iwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 1,921 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C42-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.2

N;Ed = -13,2 kN	Nb;Rd;y = 119,7 kN	Nb;Rd;z = 119,7 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,921 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,921 m
Xy = 0,60		Knikcurve: C	
Xz = 0,60		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,11 < 1			

Spant as WW (ontvangst)	Novares Constructeurs	
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Buiging & Druk C42-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.2

N;Ed = -13,2 kN

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

Kyy = 1,024

Kyz = 0,647

Ksi;y = 0,60

Ksi;z = 0,60

NEN-EN1993-1-1(6.61&6.62): UC = 0,11 < 1

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 0,0 kNm

Mz;s = 0,0 kNm

CmLT = 0,95

Kzy = 0,614

Kzz = 1,078

Ksi;LT = 1,00

Profielgegevens staaf C45-V1 (0.000-1.921)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C45-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.1 op 1,921 m

Profielklasse = 1

N;Ed = -46,1 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = -0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,23 < 1

Kipstoetsing C45-V1 (0.000-1.921)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 1,921 m

lst = 1,921 m

Lsys = 1,921 m

Lg = 1,921 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

lkip = 1,921 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C45-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.1

N;Ed = -46,1 kN

Nb;Rd;y = 119,7 kN

Nb;Rd;z = 119,7 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 1,921 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 1,921 m

Xy = 0,60

Knikcurve: C

Xz = 0,60

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,39 < 1

Buiging & Druk C45-V1 (0.000-1.921)

Maatgevende combinatie: Fu.C.1

N;Ed = -46,1 kN

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 0,0 kNm

Mz;s = 0,0 kNm

CmLT = 0,95

Spant as WW (ontvangst)	Novares Constructeurs	
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$K_{yy} = 1,208$ $K_{yz} = 0,763$ $K_{zy} = 0,725$ $K_{zz} = 1,272$
 $K_{si;y} = 0,60$ $K_{si;z} = 0,60$ $K_{si;LT} = 1,00$
 NEN-EN1993-1-1(6.61&6.62): $UC = 0,39 < 1$

Profielgegevens staaf C48-V1 (0.000-1.972)

KK60/4	Analyse	Staal S235H(EN10219-1)	$f_{ya}(\text{toegepast}) = 235 \text{ N/mm}^2$
$h = 60,0 \text{ mm}$	$A = 0,85e-03 \text{ m}^2$	$W_{y;el} = 145.2e-07 \text{ m}^3$	$W_{y;pl} = 176.4e-07 \text{ m}^3$
$b = 60,0 \text{ mm}$	$I_y = 435.5e-09 \text{ m}^4$	$W_{z;el} = 145.2e-07 \text{ m}^3$	$W_{z;pl} = 176.4e-07 \text{ m}^3$
$t_f = 4,0 \text{ mm}$	$I_z = 435.5e-09 \text{ m}^4$	$A_{w;y;el} = 4.27e-04 \text{ m}^2$	$A_{w;y;pl} = 4.27e-04 \text{ m}^2$
$t_w = 4,0 \text{ mm}$	$\text{Massa/m} = 6,7 \text{ kg/m}$	$A_{w;z;el} = 4.27e-04 \text{ m}^2$	$A_{w;z;pl} = 4.27e-04 \text{ m}^2$
$r = 4,0 \text{ mm}$		$I_t = 702.5e-09 \text{ m}^4$	$I_{wa} = 341.4e-12 \text{ m}^6$

Doorsnedetoetsing C48-V1 (0.000-1.972)

Maatgevende combinatie: $F_u.C.1$ op 1,775 m
 $N;Ed = 46,4 \text{ kN}$ $V_y;Ed = 0,0 \text{ kN}$ $M_y;Ed = 0,0 \text{ kNm}$
 $V_z;Ed = 0,0 \text{ kN}$ $M_z;Ed = 0,0 \text{ kNm}$
 $N;Rd = 200,9 \text{ kN}$ $V_y;Rd = 58,0 \text{ kN}$ $M_yRd = 4,1 \text{ kNm}$
 $V_z;Rd = 58,0 \text{ kN}$ $M_zRd = 4,1 \text{ kNm}$
 NEN-EN1993-1-1(6.5): $UC = 0,23 < 1$

Kipstoetsing C48-V1 (0.000-1.972)

Equi. profiel: KK60/4
 Maatgevende combinatie: $F_u.C.37$ Instab. curve Kip:d
 Aangrijphoogte van de last: 0,000 m vanaf hart profiel
 Kipsteun bovenflens: N.v.t.
 Kipsteun onderflens: N.v.t.
 Inklem. begin: Gesteund Beperk. eind: Gesteund $b\text{-eff}(\text{Begin}) = 0,000$ $b\text{-eff}(\text{Eind}) = 0,000$
 Tabel gebruikt NB 6.2 $q = 0,0 \text{ kN/m}$ $= 0,0$
 Bovenflens maatgevend $X_b;lst = 0,000 \text{ m}$ $X_e;lst = 1,972 \text{ m}$ $lst = 1,972 \text{ m}$
 $L_{sys} = 1,972 \text{ m}$ $L_g = 1,972 \text{ m}$ $S = 0,036 \text{ m}$ $I_{wa} = 3.4144e-10 \text{ m}^6$
 $C1 = 1,13$ $C2 = 0,45$ (tabel) $C2(\text{toegepast}) = 0,00$ $C = 0,00$
 $M_{cr} = 0,0 \text{ kNm}$ $k_{red} = 1,0$ $Lam\text{-rel} = 0,00$ Profielklasse 1
 $\chi_{i;LT}(F_u.C.37) = 1,00$ $M;Ed = 0,0 \text{ kNm}$ $UC(y) = 0,00$
 $\chi_{i;LT,Z} = 1,00$ $I_{kip} = 1,972 \text{ m}$ $UC(z) = 0,00$
 $M_y;begin = 0,0 \text{ kNm}$ $M_y;eind = 0,0 \text{ kNm}$
 NEN-EN1993-1-1(6.54): $UC = 0,00 < 1$ Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C48-V1 (0.000-1.972)

Maatgevende combinatie: $F_u.C.3$
 $N;Ed = -15,5 \text{ kN}$ $N_b;Rd;y = 116,8 \text{ kN}$ $N_b;Rd;z = 116,8 \text{ kN}$
 Methode Y = Cons. gesch. $Ca(y) = 0,000$ $Cb(y) = 0,000$ Lknik Y = 1,972 m
 Methode Z = Cons. gesch. $Ca(z) = N/B$ $Cb(z) = N/B$ Lknik Z = 1,972 m
 $X_y = 0,58$ Knikcurve: C
 $X_z = 0,58$ Knikcurve: C
 NEN-EN1993-1-1(6.46): $UC = 0,13 < 1$

Buiging & Druk C48-V1 (0.000-1.972)

Maatgevende combinatie: $F_u.C.3$ Profielklasse = 1
 $N;Ed = -15,5 \text{ kN}$ $M_y;Ed = 0,0 \text{ kNm}$ $M_z;Ed = 0,0 \text{ kNm}$
 $\Delta;M_y;Ed = 0,0 \text{ kNm}$ $\Delta;M_z;Ed = 0,0 \text{ kNm}$
 $M_y = 0,0 \text{ kNm}$ $M_y;Psi = 0,0 \text{ kNm}$ $M_y;s = 0,0 \text{ kNm}$
 $M_z = 0,0 \text{ kNm}$ $M_z;Psi = 0,0 \text{ kNm}$ $M_z;s = 0,0 \text{ kNm}$
 $C_{my} = 0,95$ $C_{mz} = 1,00$ $C_{mLT} = 0,95$
 $K_{yy} = 1,042$ $K_{yz} = 0,658$ $K_{zy} = 0,625$ $K_{zz} = 1,097$
 $K_{si;y} = 0,58$ $K_{si;z} = 0,58$ $K_{si;LT} = 1,00$
 NEN-EN1993-1-1(6.61&6.62): $UC = 0,14 < 1$

Profielgegevens staaf C51-V1 (0.000-1.972)

KK60/4	Analyse	Staal S235H(EN10219-1)	$f_{ya}(\text{toegepast}) = 235 \text{ N/mm}^2$
$h = 60,0 \text{ mm}$	$A = 0,85e-03 \text{ m}^2$	$W_{y;el} = 145.2e-07 \text{ m}^3$	$W_{y;pl} = 176.4e-07 \text{ m}^3$

Spant as WW (ontvangst)	Novares Constructeurs	
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b = 60,0 mm	ly = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	lz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C51-V1 (0.000-1.972)

Maatgevende combinatie: Fu.C.1 op 1,775 m	Profielklasse = 1
N;Ed = -62,1 kN	Vy;Ed = 0,0 kN
	Vz;Ed = -0,1 kN
N;Rd = 200,9 kN	Vy;Rd = 58,0 kN
	Vz;Rd = 58,0 kN
	My;Ed = 0,0 kNm
	Mz;Ed = 0,0 kNm
	MyRd = 4,1 kNm
	MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,31 < 1

Kiptoetsing C51-V1 (0.000-1.972)

Equi. profiel: KK60/4	
Maatgevende combinatie: Fu.C.37	Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund	Beperk. eind: Gesteund	b-eff(Begin) = 0,000	b-eff(Eind) = 0,000
Tabel gebruikt NB 6.2	q = 0,0kN/m	= 0,0	
Bovenflens maatgevend	Xb;lst = 0,000 m	Xe;lst = 1,972 m	lst = 1,972 m
Lsys = 1,972 m	Lg = 1,972 m	S = 0,036 m	Iwa = 3.4144e-10 m6
C1 = 1,13	C2 = 0,45 (tabel)	C2(toegepast) = 0,00	C = 0,00
Mcr = 0,0 kNm	kred = 1.0	Lam-rel = 0,00	Profielklasse 1
Chi;LT(Fu.C.37) = 1,00	M;Ed = 0,0 kNm		UC(y) = 0,00
Chi;LT,Z = 1,00	Ikip = 1,972 m		UC(z) = 0,00
My;begin = 0,0 kNm	My;eind = 0,0 kNm		
NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)			

Stabiliteitstoetsing C51-V1 (0.000-1.972)

Maatgevende combinatie: Fu.C.1			
N;Ed = -62,2 kN	Nb;Rd;y = 116,8 kN	Nb;Rd;z = 116,8 kN	
Methode Y = Cons. gesch.	Ca(y) = 0,000	Cb(y) = 0,000	Lknik Y = 1,972 m
Methode Z = Cons. gesch.	Ca(z) = N/B	Cb(z) = N/B	Lknik Z = 1,972 m
Xy = 0,58		Knikcurve: C	
Xz = 0,58		Knikcurve: C	
NEN-EN1993-1-1(6.46): UC = 0,53 < 1			

Buiging & Druk C51-V1 (0.000-1.972)

Maatgevende combinatie: Fu.C.1		Profielklasse = 1	
N;Ed = -62,2 kN	My;Ed = 0,0 kNm	Mz;Ed = 0,0 kNm	
	Delta;My;Ed = 0,0 kNm	Delta;Mz;Ed = 0,0 kNm	
My = 0,0 kNm	My;Psi = 0,0 kNm	My;s = 0,0 kNm	
Mz = 0,0 kNm	Mz;Psi = 0,0 kNm	Mz;s = 0,0 kNm	
Cmy = 0,95	Cmz = 1,00	CmLT = 0,95	
Kyy = 1,319	Kyz = 0,833	Kzy = 0,792	Kzz = 1,389
Ksi;y = 0,58	Ksi;z = 0,58	Ksi;LT = 1,00	
NEN-EN1993-1-1(6.61&6.62): UC = 0,54 < 1			

Profielgegevens staaf C54-V1 (0.000-2.024)

KK60/4	Analyse	Staal S235H(EN10219-1)	fya(toegepast) = 235 N/mm2
h = 60,0 mm	A = 0,85e-03 m2	Wy;el = 145.2e-07 m3	Wy;pl = 176.4e-07 m3
b = 60,0 mm	ly = 435.5e-09 m4	Wz;el = 145.2e-07 m3	Wz;pl = 176.4e-07 m3
tf = 4,0 mm	lz = 435.5e-09 m4	Aw;y;el = 4.27e-04 m2	Aw;y;pl = 4.27e-04 m2
tw = 4,0 mm	Massa/m = 6,7 kg/m	Aw;z;el = 4.27e-04 m2	Aw;z;pl = 4.27e-04 m2
r = 4,0 mm		It = 702.5e-09 m4	Iwa = 341.4e-12 m6

Doorsnedetoetsing C54-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.1 op 1,822 m	Profielklasse = 1
N;Ed = 62,8 kN	My;Ed = 0,0 kNm
	Vy;Ed = 0,0 kN

Spant as WW (ontvangst)	Novares Constructeurs	
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Vz;Ed = 0,0 kN
 N;Rd = 200,9 kN
 Vy;Rd = 58,0 kN
 Vz;Rd = 58,0 kN
 Mz;Ed = 0,0 kNm
 MyRd = 4,1 kNm
 MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,31 < 1

Kiptoetsing C54-V1 (0.000-2.024)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,024 m

lst = 2,024 m

Lsys = 2,024 m

Lg = 2,024 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,024 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C54-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.3

N;Ed = -17,8 kN

Nb;Rd;y = 113,8 kN

Nb;Rd;z = 113,8 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,024 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,024 m

Xy = 0,57

Knikcurve: C

Xz = 0,57

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,16 < 1

Buiging & Druk C54-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.3

Profielklasse = 1

N;Ed = -17,8 kN

My;Ed = 0,0 kNm

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,062

Kyz = 0,671

Kzy = 0,637

Kzz = 1,118

Ksi;y = 0,57

Ksi;z = 0,57

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,16 < 1

Profielgegevens staaf C57-V1 (0.000-2.024)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C57-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.1 op 1,822 m

Profielklasse = 1

N;Ed = -80,5 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = -0,1 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.9): UC = 0,40 < 1

Kiptoetsing C57-V1 (0.000-2.024)

Equi. profiel: KK60/4

Spant as WW (ontvangst)	Novares Constructeurs	
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Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,024 m

lst = 2,024 m

Lsys = 2,024 m

Lg = 2,024 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

C2 = 0,45 (tabel)

C2(toegepast) = 0,00

C = 0,00

Mcr = 0,0 kNm

kred = 1.0

Lam-rel = 0,00

Profielklasse 1

Chi;LT(Fu.C.37) = 1,00

M;Ed = 0,0 kNm

UC(y) = 0,00

Chi;LT,Z = 1,00

Ikip = 2,024 m

UC(z) = 0,00

My;begin = 0,0 kNm

My;eind = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

Stabiliteitstoetsing C57-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.1

N;Ed = -80,5 kN

Nb;Rd;y = 113,8 kN

Nb;Rd;z = 113,8 kN

Methode Y = Cons. gesch.

Ca(y) = 0,000

Cb(y) = 0,000

Lknik Y = 2,024 m

Methode Z = Cons. gesch.

Ca(z) = N/B

Cb(z) = N/B

Lknik Z = 2,024 m

Xy = 0,57

Knikcurve: C

Xz = 0,57

Knikcurve: C

NEN-EN1993-1-1(6.46): UC = 0,71 < 1

Buiging & Druk C57-V1 (0.000-2.024)

Maatgevende combinatie: Fu.C.1

N;Ed = -80,5 kN

My;Ed = 0,0 kNm

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My = 0,0 kNm

My;Psi = 0,0 kNm

My;s = 0,0 kNm

Mz = 0,0 kNm

Mz;Psi = 0,0 kNm

Mz;s = 0,0 kNm

Cmy = 0,95

Cmz = 1,00

CmLT = 0,95

Kyy = 1,457

Kyz = 0,920

Kzy = 0,874

Kzz = 1,534

Ksi;y = 0,57

Ksi;z = 0,57

Ksi;LT = 1,00

NEN-EN1993-1-1(6.61&6.62): UC = 0,72 < 1

Profielgegevens staaf C60-V1 (0.000-2.077)

KK60/4

Analyse

Staal S235H(EN10219-1) fya(toegepast) = 235 N/mm2

h = 60,0 mm

A = 0,85e-03 m2

Wy;el = 145.2e-07 m3

Wy;pl = 176.4e-07 m3

b = 60,0 mm

Iy = 435.5e-09 m4

Wz;el = 145.2e-07 m3

Wz;pl = 176.4e-07 m3

tf = 4,0 mm

Iz = 435.5e-09 m4

Aw;y;el = 4.27e-04 m2

Aw;y;pl = 4.27e-04 m2

tw = 4,0 mm

Massa/m = 6,7 kg/m

Aw;z;el = 4.27e-04 m2

Aw;z;pl = 4.27e-04 m2

r = 4,0 mm

It = 702.5e-09 m4

Iwa = 341.4e-12 m6

Doorsnedetoetsing C60-V1 (0.000-2.077)

Maatgevende combinatie: Fu.C.1 op 1,869 m

Profielklasse = 1

N;Ed = 79,8 kN

Vy;Ed = 0,0 kN

My;Ed = 0,0 kNm

Vz;Ed = 0,0 kN

Mz;Ed = 0,0 kNm

N;Rd = 200,9 kN

Vy;Rd = 58,0 kN

MyRd = 4,1 kNm

Vz;Rd = 58,0 kN

MzRd = 4,1 kNm

NEN-EN1993-1-1(6.5): UC = 0,40 < 1

Kiptoetsing C60-V1 (0.000-2.077)

Equi. profiel: KK60/4

Maatgevende combinatie: Fu.C.37

Instab. curve Kip:d

Aangrijphoogte van de last: 0,000 m vanaf hart profiel

Kipsteun bovenflens: N.v.t.

Kipsteun onderflens: N.v.t.

Inklem. begin: Gesteund

Beperk. eind: Gesteund

b-eff(Begin) = 0,000

b-eff(Eind) = 0,000

Tabel gebruikt NB 6.2

q = 0,0kN/m

= 0,0

Bovenflens maatgevend

Xb;lst = 0,000 m

Xe;lst = 2,077 m

lst = 2,077 m

Lsys = 2,077 m

Lg = 2,077 m

S = 0,036 m

Iwa = 3.4144e-10 m6

C1 = 1,13

Mcr = 0,0 kNm

Chi;LT(Fu.C.37) = 1,00

Chi;LT,Z = 1,00

My;begin = 0,0 kNm

NEN-EN1993-1-1(6.54): UC = 0,00 < 1 Kip N/B i.v.m. buis/koker NEN-EN 1993-1-1 #6.3.2.1(2)

C2 = 0,45 (tabel)

kred = 1.0

M;Ed = 0,0 kNm

Ikip = 2,077 m

My;eind = 0,0 kNm

C2(toegepast) = 0,00

Lam-rel = 0,00

C = 0,00

Profielklasse 1

UC(y) = 0,00

UC(z) = 0,00

Stabiliteitstoetsing C60-V1 (0.000-2.077)

Maatgevende combinatie: Fu.C.11

N;Ed = -24,2 kN

Methode Y = Cons. gesch.

Methode Z = Cons. gesch.

Xy = 0,55

Xz = 0,55

NEN-EN1993-1-1(6.46): UC = 0,22 < 1

Nb;Rd;y = 110,9 kN

Ca(y) = 0,000

Ca(z) = N/B

Nb;Rd;z = 110,9 kN

Cb(y) = 0,000

Cb(z) = N/B

Knikcurve: C

Knikcurve: C

Lknik Y = 2,077 m

Lknik Z = 2,077 m

Buiging & Druk C60-V1 (0.000-2.077)

Maatgevende combinatie: Fu.C.11

N;Ed = -24,2 kN

My = 0,0 kNm

Mz = 0,0 kNm

Cmy = 0,95

Kyy = 1,112

Ksi;y = 0,55

NEN-EN1993-1-1(6.61&6.62): UC = 0,22 < 1

My;Ed = 0,0 kNm

Delta;My;Ed = 0,0 kNm

My;Psi = 0,0 kNm

Mz;Psi = 0,0 kNm

Cmz = 1,00

Kyz = 0,702

Ksi;z = 0,55

Profielklasse = 1

Mz;Ed = 0,0 kNm

Delta;Mz;Ed = 0,0 kNm

My;s = 0,0 kNm

Mz;s = 0,0 kNm

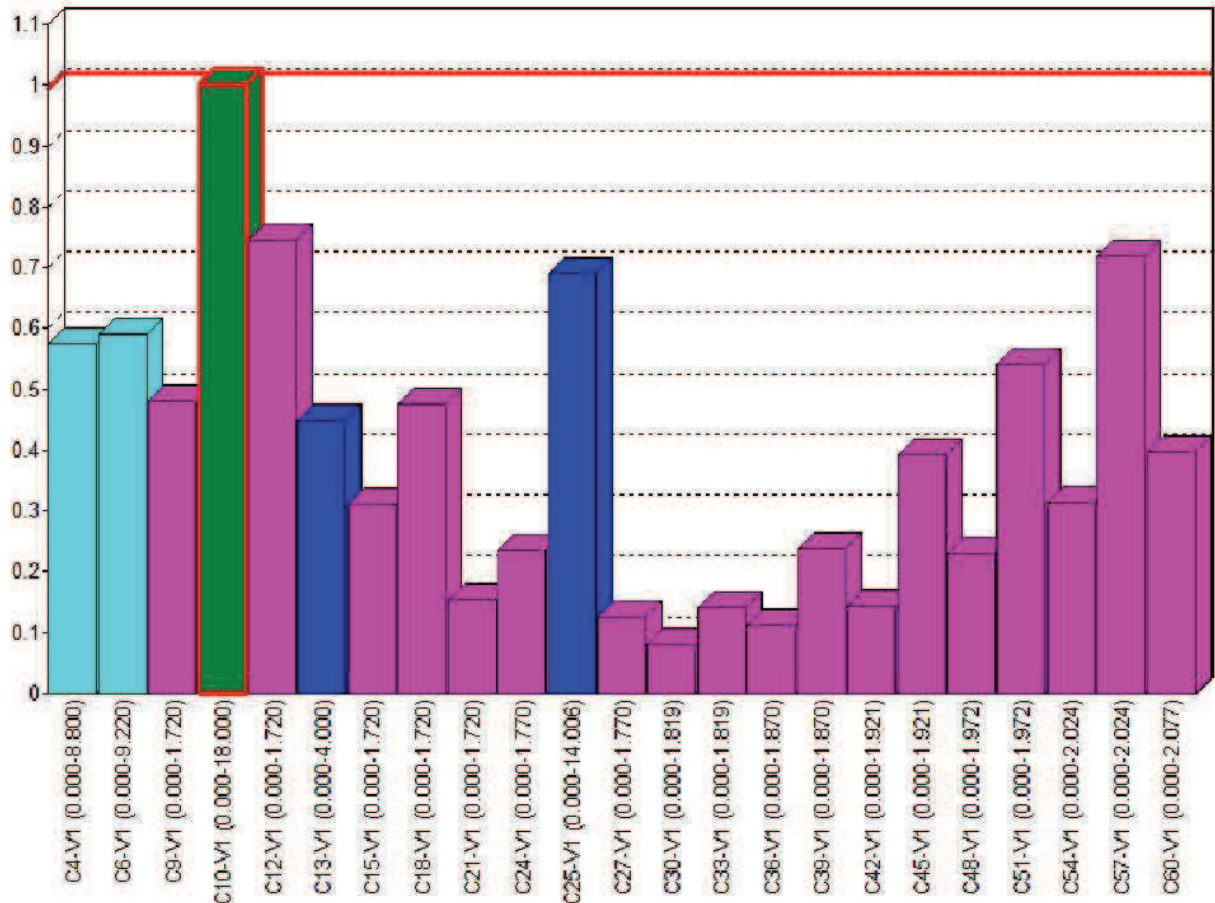
CmLT = 0,95

Kzy = 0,667

Ksi;LT = 1,00

Kzz = 1,171

AFB. STAAL UC DIAGRAM



Spant as WW (ontvangst)	Novares Constructeurs	
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UNITY CHECK NEN-EN1993-1-1:2009/NB:2011

Veld	Toetsing	Combinatie	Artikel	UC max
C4-V1 (0.000-8.800)	Doorsnede	Fu.C.6	NEN-EN1993-1-1(6.12)	0,38
C4-V1 (0.000-8.800)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,20
C4-V1 (0.000-8.800)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,48
C4-V1 (0.000-8.800)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,57
C4-V1 (0.000-8.800)	Kiptoetsing	Fu.C.6	NEN-EN1993-1-1(6.54)	0,57
C6-V1 (0.000-9.220)	Doorsnede	Fu.C.14	NEN-EN1993-1-1(6.12)	0,36
C6-V1 (0.000-9.220)	Stabiliteit	Fu.C.14	NEN-EN1993-1-1(6.46)	0,02
C6-V1 (0.000-9.220)	Stabiliteit	Fu.C.14	NEN-EN1993-1-1(6.46)	0,04
C6-V1 (0.000-9.220)	Stabiliteit	Fu.C.14	NEN-EN1993-1-1(6.61&6.62)	0,59
C6-V1 (0.000-9.220)	Kiptoetsing	Fu.C.14	NEN-EN1993-1-1(6.54)	0,55
C9-V1 (0.000-1.720)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,48
C9-V1 (0.000-1.720)	Stabiliteit	Fu.C.5	NEN-EN1993-1-1(6.46)	0,12
C9-V1 (0.000-1.720)	Stabiliteit	Fu.C.5	NEN-EN1993-1-1(6.46)	0,12
C9-V1 (0.000-1.720)	Stabiliteit	Fu.C.5	NEN-EN1993-1-1(6.61&6.62)	0,12
C9-V1 (0.000-1.720)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C10-V1 (0.000-18.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,28
C10-V1 (0.000-18.000)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.46)	0,09
C10-V1 (0.000-18.000)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.46)	0,99
C10-V1 (0.000-18.000)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.61&6.62)	1,00
C10-V1 (0.000-18.000)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C12-V1 (0.000-1.720)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,48
C12-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,74
C12-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,74
C12-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,74
C12-V1 (0.000-1.720)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C13-V1 (0.000-4.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,23
C13-V1 (0.000-4.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,29
C13-V1 (0.000-4.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,29
C13-V1 (0.000-4.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,45
C13-V1 (0.000-4.000)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C15-V1 (0.000-1.720)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,31
C15-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.46)	0,15
C15-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.46)	0,15
C15-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.61&6.62)	0,15
C15-V1 (0.000-1.720)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C18-V1 (0.000-1.720)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,31
C18-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,47
C18-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,47
C18-V1 (0.000-1.720)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,48
C18-V1 (0.000-1.720)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C21-V1 (0.000-1.720)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,15
C21-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.46)	0,14
C21-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.46)	0,14
C21-V1 (0.000-1.720)	Stabiliteit	Fu.C.13	NEN-EN1993-1-1(6.61&6.62)	0,14
C21-V1 (0.000-1.720)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C24-V1 (0.000-1.770)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,15
C24-V1 (0.000-1.770)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,23
C24-V1 (0.000-1.770)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,23
C24-V1 (0.000-1.770)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,24
C24-V1 (0.000-1.770)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C25-V1 (0.000-14.006)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,35
C25-V1 (0.000-14.006)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,37
C25-V1 (0.000-14.006)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,64
C25-V1 (0.000-14.006)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,69

Spant as WW (ontvangst)	Novares Constructeurs		
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Veld	Toetsing	Combinatie	Artikel	UC max
C25-V1 (0.000-14.006)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C27-V1 (0.000-1.770)	Doorsnede	Fu.C.12	NEN-EN1993-1-1(6.9)	0,08
C27-V1 (0.000-1.770)	Stabiliteit	Fu.C.12	NEN-EN1993-1-1(6.46)	0,12
C27-V1 (0.000-1.770)	Stabiliteit	Fu.C.12	NEN-EN1993-1-1(6.46)	0,12
C27-V1 (0.000-1.770)	Stabiliteit	Fu.C.12	NEN-EN1993-1-1(6.61&6.62)	0,13
C27-V1 (0.000-1.770)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C30-V1 (0.000-1.819)	Doorsnede	Fu.C.12	NEN-EN1993-1-1(6.5)	0,08
C30-V1 (0.000-1.819)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.46)	0,07
C30-V1 (0.000-1.819)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.46)	0,07
C30-V1 (0.000-1.819)	Stabiliteit	Fu.C.6	NEN-EN1993-1-1(6.61&6.62)	0,08
C30-V1 (0.000-1.819)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C33-V1 (0.000-1.819)	Doorsnede	Fu.C.16	NEN-EN1993-1-1(6.9)	0,09
C33-V1 (0.000-1.819)	Stabiliteit	Fu.C.16	NEN-EN1993-1-1(6.46)	0,14
C33-V1 (0.000-1.819)	Stabiliteit	Fu.C.16	NEN-EN1993-1-1(6.46)	0,14
C33-V1 (0.000-1.819)	Stabiliteit	Fu.C.16	NEN-EN1993-1-1(6.61&6.62)	0,14
C33-V1 (0.000-1.819)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C36-V1 (0.000-1.870)	Doorsnede	Fu.C.16	NEN-EN1993-1-1(6.5)	0,09
C36-V1 (0.000-1.870)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,11
C36-V1 (0.000-1.870)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,11
C36-V1 (0.000-1.870)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,11
C36-V1 (0.000-1.870)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C39-V1 (0.000-1.870)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,14
C39-V1 (0.000-1.870)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,23
C39-V1 (0.000-1.870)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,23
C39-V1 (0.000-1.870)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,24
C39-V1 (0.000-1.870)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C42-V1 (0.000-1.921)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,14
C42-V1 (0.000-1.921)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,11
C42-V1 (0.000-1.921)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0,11
C42-V1 (0.000-1.921)	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0,11
C42-V1 (0.000-1.921)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C45-V1 (0.000-1.921)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,23
C45-V1 (0.000-1.921)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,39
C45-V1 (0.000-1.921)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,39
C45-V1 (0.000-1.921)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,39
C45-V1 (0.000-1.921)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C48-V1 (0.000-1.972)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,23
C48-V1 (0.000-1.972)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,13
C48-V1 (0.000-1.972)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,13
C48-V1 (0.000-1.972)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,14
C48-V1 (0.000-1.972)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C51-V1 (0.000-1.972)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,31
C51-V1 (0.000-1.972)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,53
C51-V1 (0.000-1.972)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,53
C51-V1 (0.000-1.972)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,54
C51-V1 (0.000-1.972)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C54-V1 (0.000-2.024)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,31
C54-V1 (0.000-2.024)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,16
C54-V1 (0.000-2.024)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0,16
C54-V1 (0.000-2.024)	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0,16
C54-V1 (0.000-2.024)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C57-V1 (0.000-2.024)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0,40
C57-V1 (0.000-2.024)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,71
C57-V1 (0.000-2.024)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0,71
C57-V1 (0.000-2.024)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0,72
C57-V1 (0.000-2.024)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00
C60-V1 (0.000-2.077)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.5)	0,40

Spant as WW (ontvangst)	Novares Constructeurs	
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Veld	Toetsing	Combinatie	Artikel	UC max
C60-V1 (0.000-2.077)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.46)	0,22
C60-V1 (0.000-2.077)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.46)	0,22
C60-V1 (0.000-2.077)	Stabiliteit	Fu.C.11	NEN-EN1993-1-1(6.61&6.62)	0,22
C60-V1 (0.000-2.077)	Kiptoetsing	Fu.C.37	NEN-EN1993-1-1(6.54)	0,00

GEWICHT STAALCONSTRUCTIE

Staaft	Profiel	Lsys	Massa
C4-V1 (0.000-8.800)	HE180A	8,800	312,597
C6-V1 (0.000-9.220)	HE180A	9,220	327,516
Subtotaal:	HE180A	18,020	640,113
C10-V1 (0.000-18.000)	KK150/6.3	18,000	492,425
Subtotaal:	KK150/6.3	18,000	492,425
C12-V1 (0.000-1.720)	KK60/4	1,720	11,545
C15-V1 (0.000-1.720)	KK60/4	1,720	11,545
C18-V1 (0.000-1.720)	KK60/4	1,720	11,545
C21-V1 (0.000-1.720)	KK60/4	1,720	11,545
C24-V1 (0.000-1.770)	KK60/4	1,770	11,875
C27-V1 (0.000-1.770)	KK60/4	1,770	11,875
C30-V1 (0.000-1.819)	KK60/4	1,819	12,209
C33-V1 (0.000-1.819)	KK60/4	1,819	12,209
C36-V1 (0.000-1.870)	KK60/4	1,870	12,547
C39-V1 (0.000-1.870)	KK60/4	1,870	12,547
C42-V1 (0.000-1.921)	KK60/4	1,921	12,889
C45-V1 (0.000-1.921)	KK60/4	1,921	12,889
C48-V1 (0.000-1.972)	KK60/4	1,972	13,234
C51-V1 (0.000-1.972)	KK60/4	1,972	13,234
C54-V1 (0.000-2.024)	KK60/4	2,024	13,583
C57-V1 (0.000-2.024)	KK60/4	2,024	13,583
C60-V1 (0.000-2.077)	KK60/4	2,077	13,935
C9-V1 (0.000-1.720)	KK60/4	1,720	11,545
Subtotaal:	KK60/4	33,432	224,331
C13-V1 (0.000-4.000)	KW140/5	4,000	83,601
C25-V1 (0.000-14.006)	KW140/5	14,006	292,734
Subtotaal:	KW140/5	18,006	376,335
Totaal:		87,458 m	1.733,204 kg