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Werknummer: 2022060

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

statische berekening

Aantal pagina's	:	1 t/m 96 (inclusief voorblad en exclusief bijlagen)
Aantal bijlagen	:	2
Revisie	**:**	**0**
Opgesteld	:	G. Ritmeester

G. Ritmeester
.....

Mijdrecht, 10-01-2023

Status:Definitief

CONRAPH2022060-1

REVISIE	**:**	**0**
Opgesteld constructeur	:	G. Ritmeester
Datum opgesteld	:	10-01-2023
Status	:	Definitief

REVISIE	**:**	
Gereviseerd door	:	
Datum opgesteld	:	
Status	:	
Aanpassing(en)	:	

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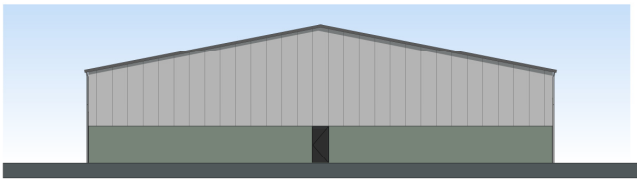
1. Algemene gegevens

1.1 Opdrachtomschrijving

Het project betreft de nieuwbouw van een bedrijfshal aan de Achthoven Oost 13 in Montfoort. De bedrijfshal wordt opgebouwd uit een staalconstructie met sandwichpanelen dak en gevel. De vloer en funderingsstroken worden op staal gefundeerd.



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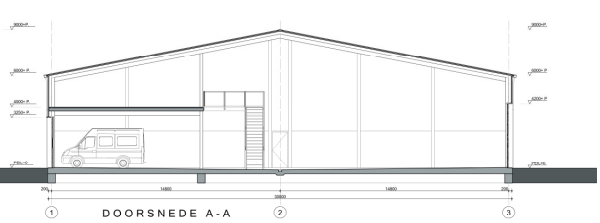
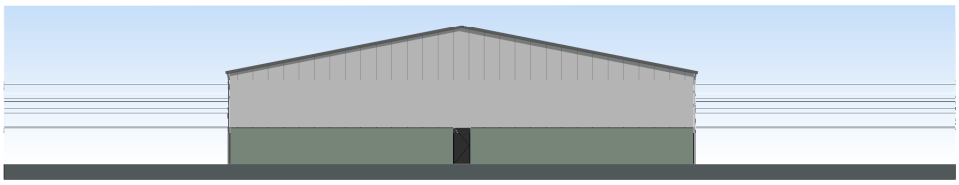


DOORSNEDE A-A



HAL LINKER ZIJGEVEL



HAL ACHTERGEVEL



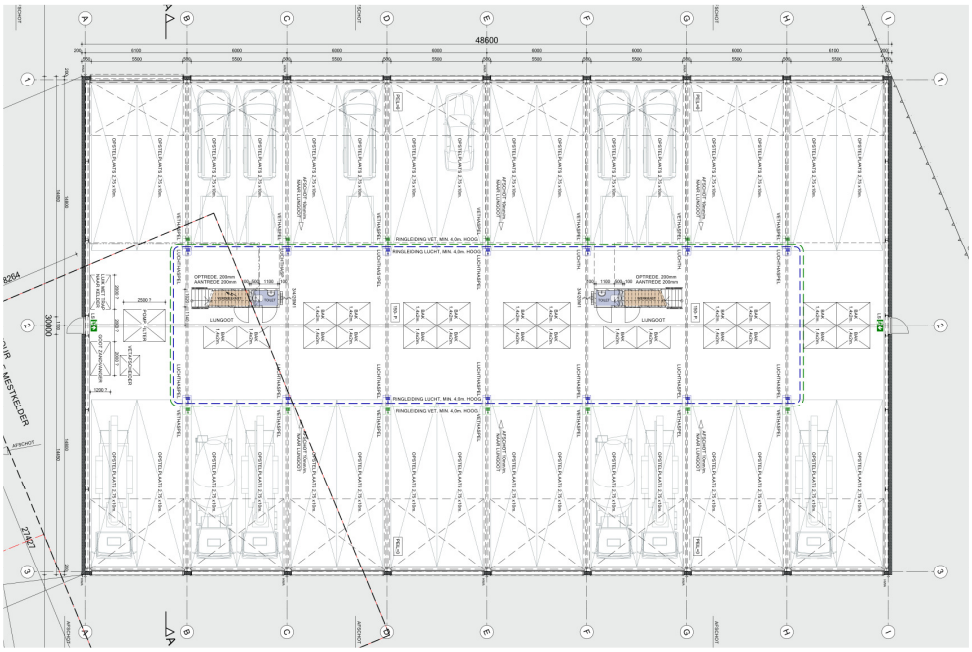
HAL RECHTER ZIJGEVEL



KLEUR- EN MATERIALENSTAAT

ARCO ARCHITECTEN BNA

Projectnummer 21086 Tekeningnummer 510



Uitgangspunten voor het ontwerp zijn vastgelegd in onderstaande documenten.

1.1.1 Bijbehorende documenten en berekeningen

opgesteld door	*documentnummer*	*omschrijving*	*revisie*	*datum*

1.1.2 Sonderingen en bemalingadvies

opgesteld door	*documentnummer*	*omschrijving*	*revisie*	*datum*
Invepro	22-1500-v1-STN	Funderingsadvies		27-06-2022
Sondertechniek Nederland	325	Sonderingen		09-05-2022

1.1.3 Bijbehorende tekeningen

opgesteld door	*tekeningnummer*	*omschrijving*	*revisie*	*datum*
Arco Architecten	21086-504 tm 511	Definitief ontwerp		11-04-2022

2. Berekeningsuitgangspunten en -Grondslagen

2.1 Toegepaste voorschriften

Eurocode 0: Grondslagen

NEN-EN 1990	:	Grondslagen van het constructief ontwerp
NEN 8700	:	Beoordeling van de constructieve veiligheid van een bestaand bouwwerk bij verbouw en afkeuren - Grondslagen

Eurocode 1: Belastingen op constructies

NEN-EN 1991-1-1	:	Dichtheden, eigen gewicht, opgelegde belastingen
NEN-EN 1991-1-2	:	Belastingen bij brand
NEN-EN 1991-1-3	:	Sneeuwbelastingen
NEN-EN 1991-1-4	:	Windbelastingen
NEN-EN 1991-1-5	:	Thermische belastingen
NEN-EN 1991-1-7	:	Buitengewone belastingen (botsing, explosie)

Eurocode 2: Betonconstructies

NEN-EN 1992-1-1	:	Algemene regels en regels voor gebouwen
NEN-EN 1992-1-2	:	Ontwerp en berekening van betonconstructies bij brand

Eurocode 3: Staalconstructies

NEN-EN 1993-1-1	:	Algemene regels en regels voor gebouwen
NEN-EN 1993-1-2	:	Staalconstructies bij brand

Eurocode 4: Staal-betonconstructies

NEN-EN 1994-1-1	:	Algemene regels en regels voor gebouwen
NEN-EN 1994-1-2	:	Staal-betonconstructies bij brand

Eurocode 5: Houtconstructies

NEN-EN 1995-1-1	:	Algemene regels en regels voor gebouwen
NEN-EN 1995-1-2	:	Houtconstructies bij brand

Eurocode 6: Constructies van metselwerk

NEN-EN 1996-1-1	:	Algemene regels voor constructies van gewapend en ongewapend metselwerk
NEN-EN 1996-1-2	:	Ontwerp en berekening van metselwerkconstructies bij brand

Eurocode 7: Geotechnisch ontwerp

NEN-EN 9997-1	:	Algemene regels

2.2 Gevolgklasse en betrouwbaarheidsklasse

Gevolgklasse	:	CC1 (tabel NB.20 - B1 NEN-EN 1990+A1+C2:2011/NB:2011)
Betrouwbaarheidsklasse	:	RC1 (tabel NB.21 - B1 NEN-EN 1990+A1+C2:2011/NB:2011) Mag in één verband worden gezien met gevolgklasse
Ontwerplevensduurklasse	:	3 (50 jaar) (tabel NB.1 - 2.1 NEN-EN 1990+A1+C2:2011/NB:2011)
Belastingcategorie	:	G - Verkeersruimte: 30 kN < voertuiggewicht ≤ 160 kN (tabel NB.2 - A1.1 NEN-EN 1990+A1+C2:2011/NB:2011)

2.3 Belastingfactoren

2.3.1 Rekenwaarden van belastingen (STR/GEO)(groepB)

Uiterste grenstoestand		(10.a)		(10.b)	
		γ_g	γ_q	γ_g	γ_q
ongunstig	RC1 (K_{fi}=0,9)	1, 215	1,35M	1,08	1,35
	RC2 (K_{fi}=1,0)	1,350	1,50M	1,20	1,50
	RC3 (K_{fi}=1,1)	1,485	1,65M	1,32	1,65
gunstig	RC1/RC2/RC3	0,9		0.9	

Bruikbaarheidsgrenstoestand		(10.a)		(10.b)	
		γ_g	γ_q	γ_g	γ_q
Ongunstig / gunstig	RC1/RC2/RC3	1,0	1,0M	1,0	1,0

2.4 Brandwerendheid

Een vloer, trap of hellingbaan waarover of waaronder een vluchtroute voert, bezwijkt niet binnen 30 minuten bij brand in een subbrandcompartiment waarin die vluchtroute niet ligt.

Een bouwconstructie bezwijkt bij brand in een brandcompartiment waarin die bouwconstructie niet ligt, niet binnen de in hieronder aangegeven tijdsduur door het bezwijken van een bouwconstructie binnen of grenzend aan dat brandcompartiment.

Hoogste vloer met een verblijfsgebied	:	4	m
Functie	:		
Hoofddraagconstructie	:	0	minuten
Reductie	:	0	minuten
Toe te passen brandwerendheid	:	0	minuten

Deze brandwerendheid wordt bereikt door de constructie brandwerend te omkleden / schilderen / betongevulde profielen (met wapening) toe te passen.

In brandwerende scheidingen toegepaste constructie onderdelen dienen minimaal een brandwerendheid te hebben die overeenkomt met de eisen gesteld aan deze brandwerende scheiding.

2.6 Materialen

2.6.1 Uitgangspunten conform NEN-EN 1992-1-1

Betonkwaliteit	In het werk gestort	:	C 30/37			
	Prefab	:	C 35/45			
Betonstaalkwaliteit	Losse staven	:	B500B			
	Netten	:	B500A/B			
Milieuklasse	Funderingsbalken	:	XC 4	/	XF 1	
	Poeren	:	XC 1	/	XS 1	/ XC 2
	Kolommen	:	XC 2	/	XS 2	
	Prefab beton	:	XC 3	/	XS 3	
	Vloeren	:	XD 1	/	XF 1	
	Wanden	:	XD 2	/	XF 2	

2.6.2 Uitgangspunten conform NEN-EN 1993-1-1

Staalkwaliteit IPE, HE-profielen	:	S235	
Staalkwaliteit buizen	:	S275	
Staalkwaliteit kokers	:	S355	
Staalkwaliteit geïntegreerde liggers	:	n.v.t.	
Boutkwaliteit	:	8.8	Thermisch verzinkt
Ankerkwaliteit	:	4.6	Gerolde draad, met haak, tenzij anders vermeld

2.6.3 Uitgangspunten conform NEN-EN 1996-1-1

Steenkwaliteit	:	Kalkzandsteen	:	CS 12/20
Morteltype	:	Lijmmortel		

2.6.4 Uitgangspunten conform NEN-EN 1995-1-1

Houtkwaliteit	:	C 18/24

3. Aangehouden belastingen

3.1 Waarde van de ψ factoren voor gebouwen

NEN-EN 1990+A1+A1/C2:2011/NB:2011- Tabel NB.2 - A1.1 - Waarde van de ψ factoren voor gebouwen

Categorie	Omschrijving	Ψ_0	Ψ_1	Ψ_2
A	Woon en verblijfsruimte	0,4	0,5	0,3
B	Kantoorruimtes	0,5	0,5	0,3
C	Bijeenkomstruimtes	0,6/0,4[a]	0,7	0,6
D	Winkelruimte	0,4	0,7	0,6
E	Opslag of industriefunctie	1,0	0,9	0,8
F	Verkeersruimte, voertuiggewicht ≤ 30 kN	0,7	0,7	0,6
G	Verkeersruimte [b], 30 kN < voertuiggewicht ≤ 160 kN	0,7	0,5	0,3
H	Daken	0	0	0
	Sneeuwbelasting	0	0,2	0
	Belasting door regenwater	0	0	0
	Windbelasting	0	0,2	0
	Temperatuur (geen brand)	0	0,5	0
-	Belastingen veroorzaakt door kranen en machines	1,0	0,9	

a De waarde 0,6 geldt voor delen van het gebouw die in geval van een calamiteit zwaar kunnen worden belast door een mensenmenigte (vluchtroutes, trappen enz.); de waarde 0,4 geldt in overige gevallen.
b Met verkeersruimte wordt in dit geval een ruimte bedoeld waar voertuigen kunnen rijden, bv parkeergarages.

3.2 Belastingen

3.2.1 Kap

e.g. PV-panelen		=	0,125	kN/m²
e.g. Falk sandwichpanelen		=	0,11	kN/m²
e.g. gordingen		=	0,115	kN/m²
	$P_{g;rep}$	=	**0,35**	kN/m²
Sneeuw 11° = 0,8 x 0,70	$P_{q;rep}$	=	**0,56**	kN/m²

Ψ_0 = 0,0 | Ψ_1 = 0,2 | Ψ_2 = 0,0 (tabel A1.1)

3.2.2 Verdiepingsvloer

e.g. kanaalplaatvloer h = 260 mm		=	3,85	kN/m²
e.g. druklaag h=60 mm		=	1,50	kN/m²
	$P_{g;rep}$	=	**5,35**	kN/m²
Veranderlijke belasting		=	4,00	kN/m²
e.g. lichte scheidingswanden inclusief				
	$P_{q;rep}$	=	**4,00**	kN/m²

Ψ_0 = 1,0 | Ψ_1 = 0,9 | Ψ_2 = 0,8 (tabel A1.1)

3.2.3 Begane grondvloer (Massief)

e.g. betonvloer (250mm)		=	6,25	kN/m²
	$P_{g;rep}$	=	**6,25**	kN/m²
Veranderlijke belasting VK45, 3 assen 150 kN		=		
e.g. lichte scheidingswanden		=		

Ψ_0 = 0,7 | Ψ_1 = 0,5 | Ψ_2 = 0,3 (tabel A1.1)

3.2.4 Windbelasting conform NEN-EN 1991-1-4

Windgebied	:	III	$q_p(z)$: 0,68 kN/m²
Bebouwd / Onbebouwd / Kust	:	O	
Hoogte pand (z)	:	9 m	
Ontwerplevensduur	:	50 jaar	

Waarden van uitwendige drukcoëfficiënten (c_{pe},10) volgens NEN-EN 1991-1-4 [7.2.2] en [7.2.3]

Waarde van wrijvingscoëfficiënt (c_{fr}) volgens NEN-EN 1991-1-4 art. 7.5

Gevels en daken	c_{fr}	=	**0,04**	[7.5]

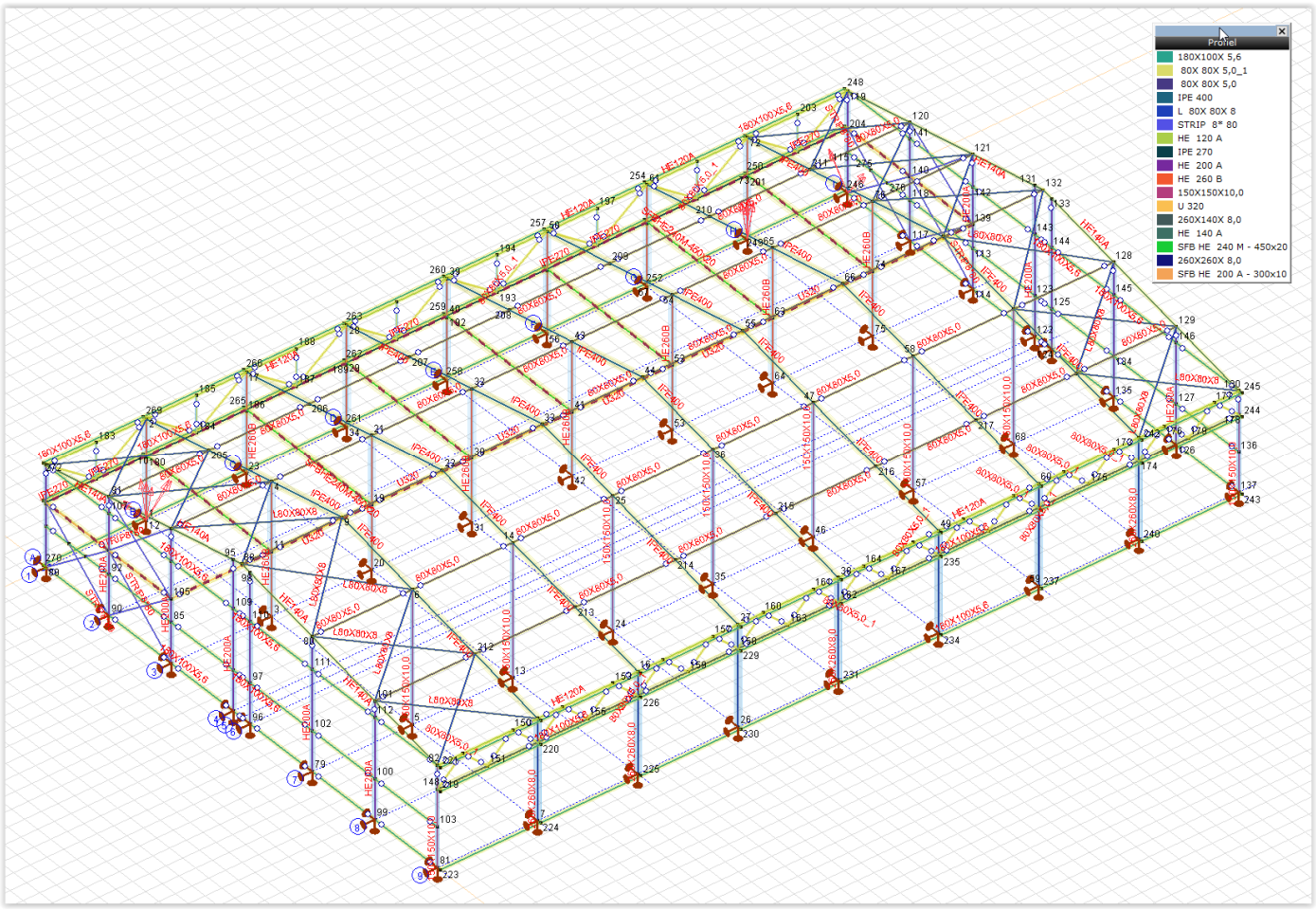
4. Uitgangspunten berekening

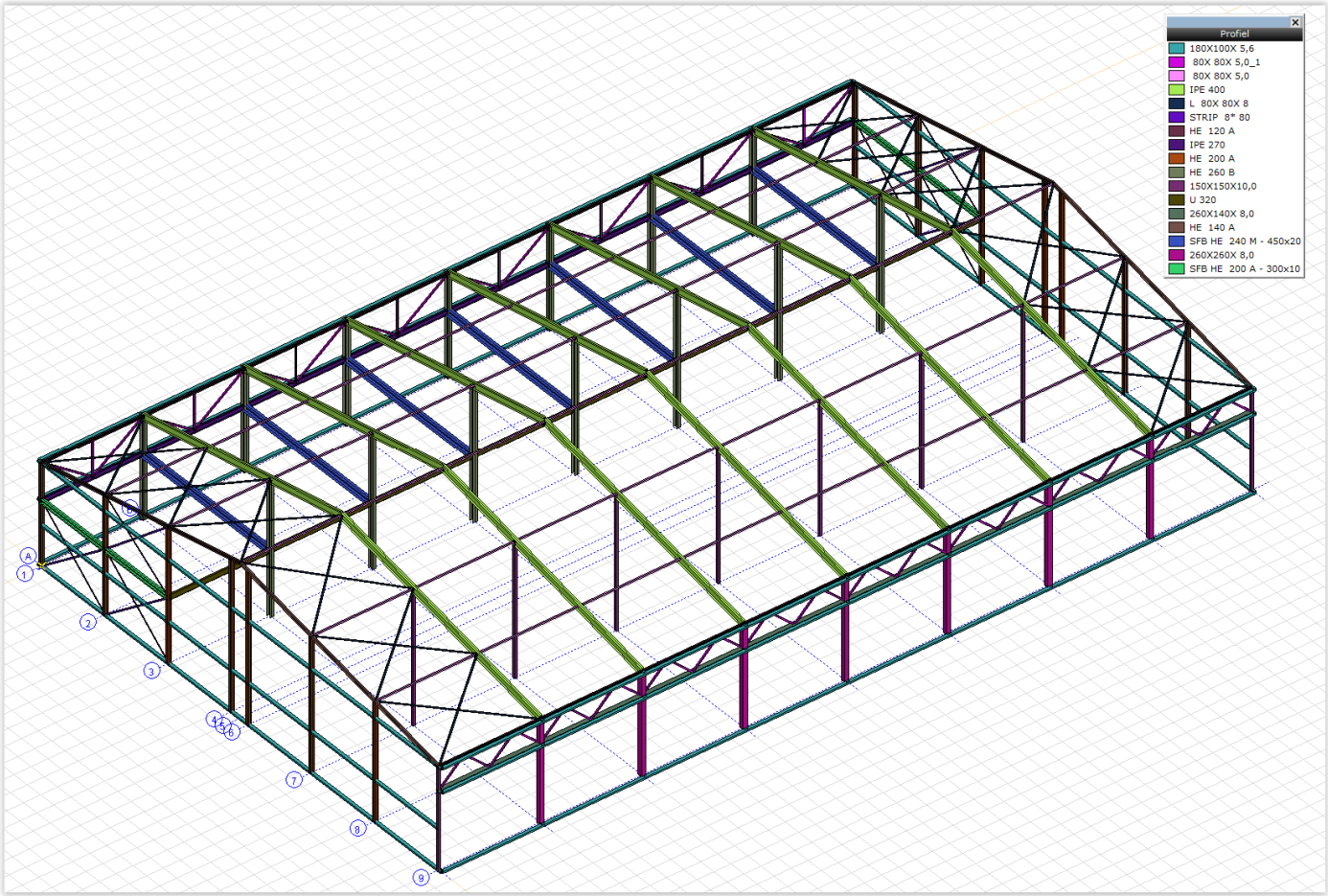
Voor de berekening zijn de volgende uitgangspunten aangehouden:

- Detailberekening van de verbindingen staalconstructie conform opgave staalleverancier, ter controle indienen bij hoofdconstructeur;
- In te storten ankers in fundatie conform opgave staalleverancier, ter controle indienen bij hoofdconstructeur;

5. Berekening

5.1 Staalconstructie

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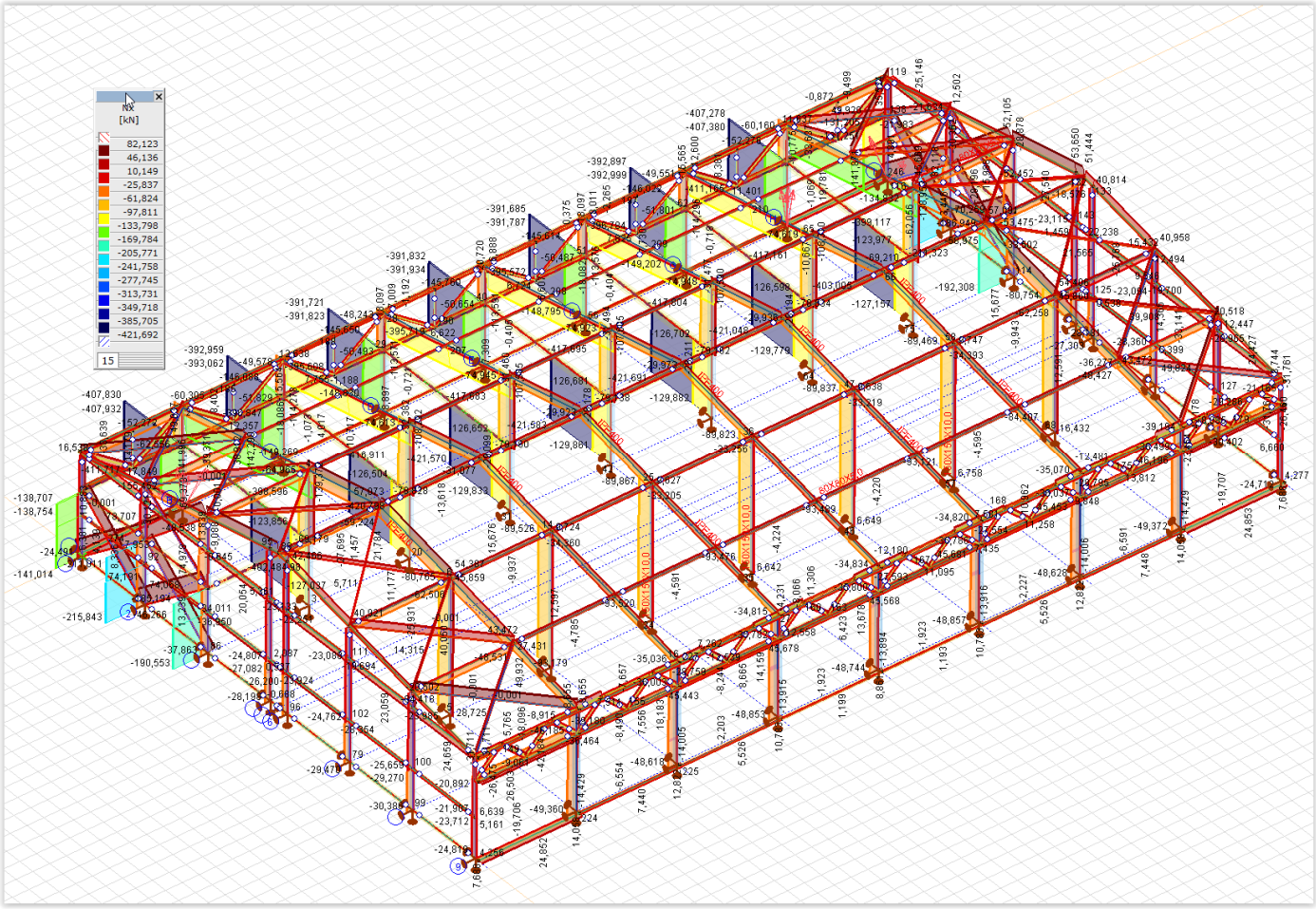
80X 80X 5,0_1
80X 80X 5,0
IPE 400
L 80X 80X 8
STRIP 8* 80
HE 120 A
IPE 270
HE 200 A
HE 260 B
150X150X10,0
U 320
260X140X 8,0
HE 140 A
SFB HE 240 M - 450x20
260X260X 8,0
SFB HE 200 A - 300x10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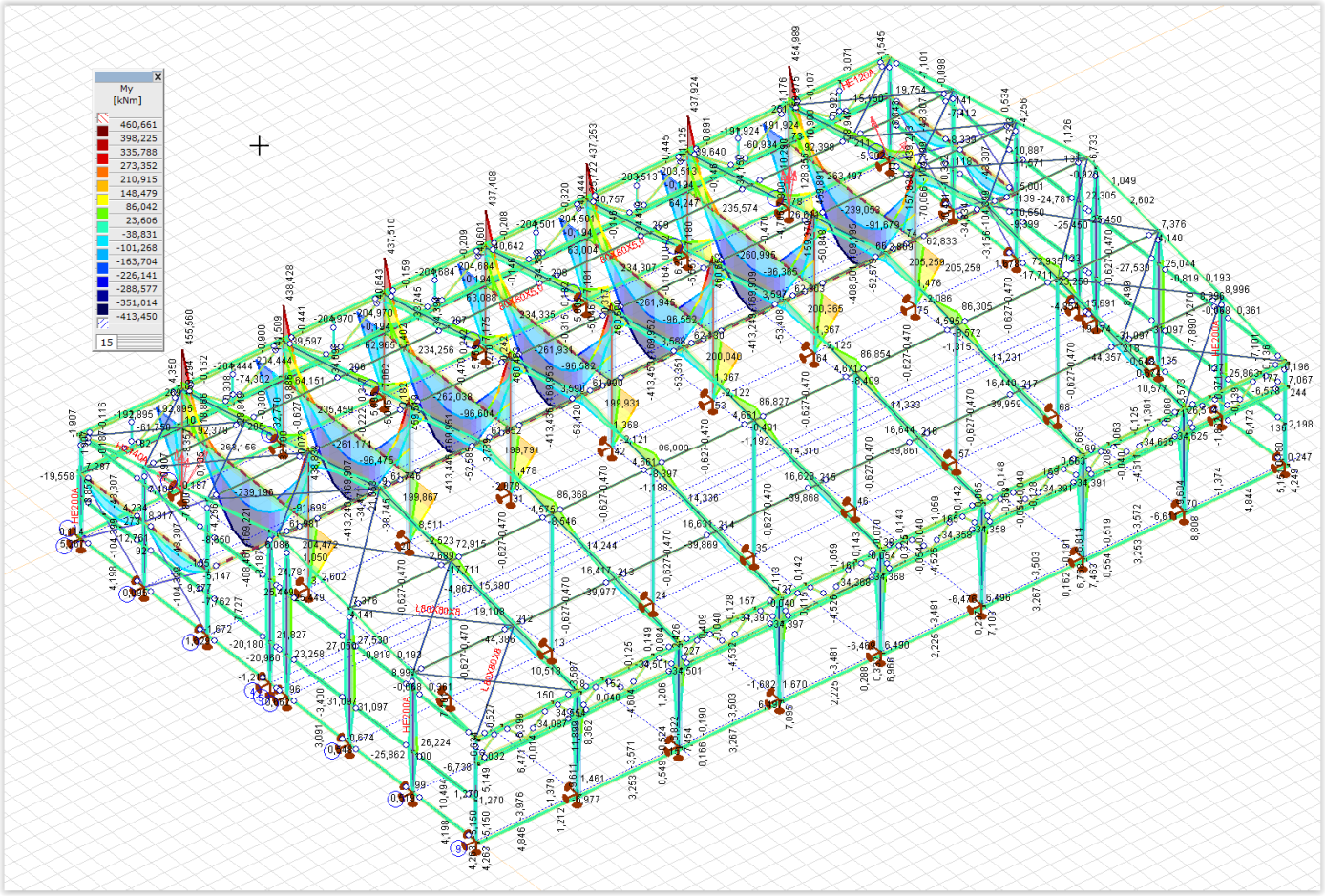
15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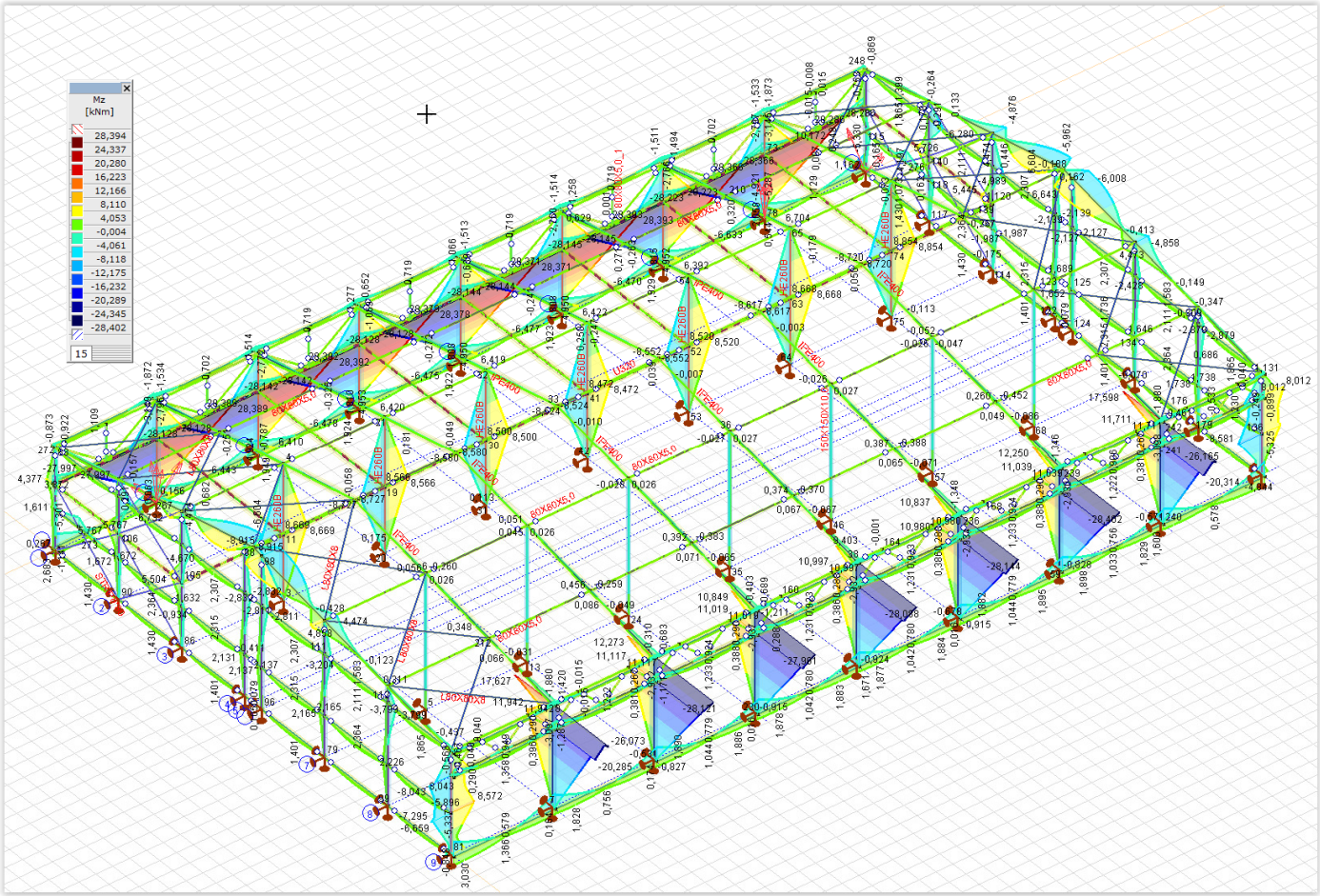
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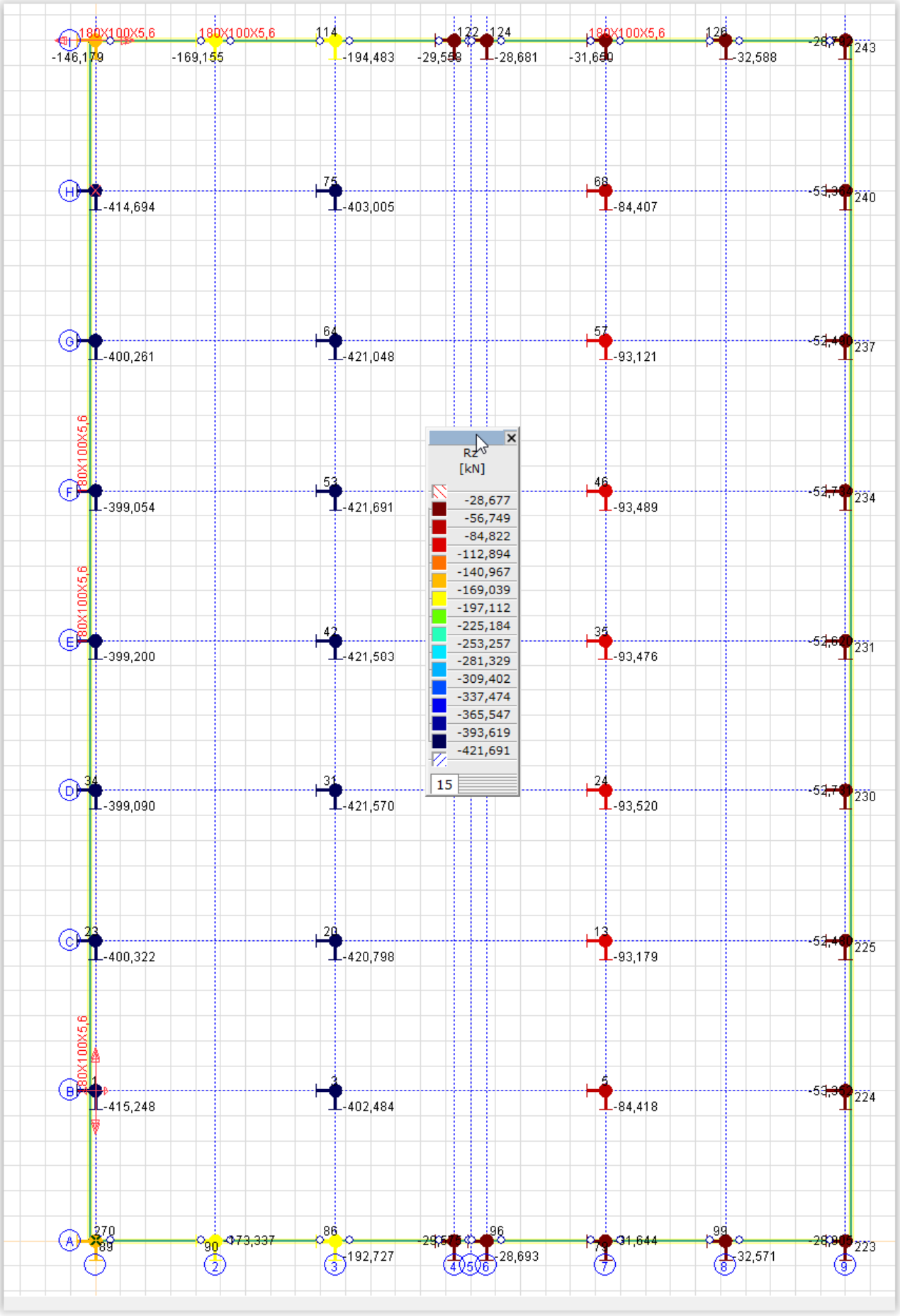
UGT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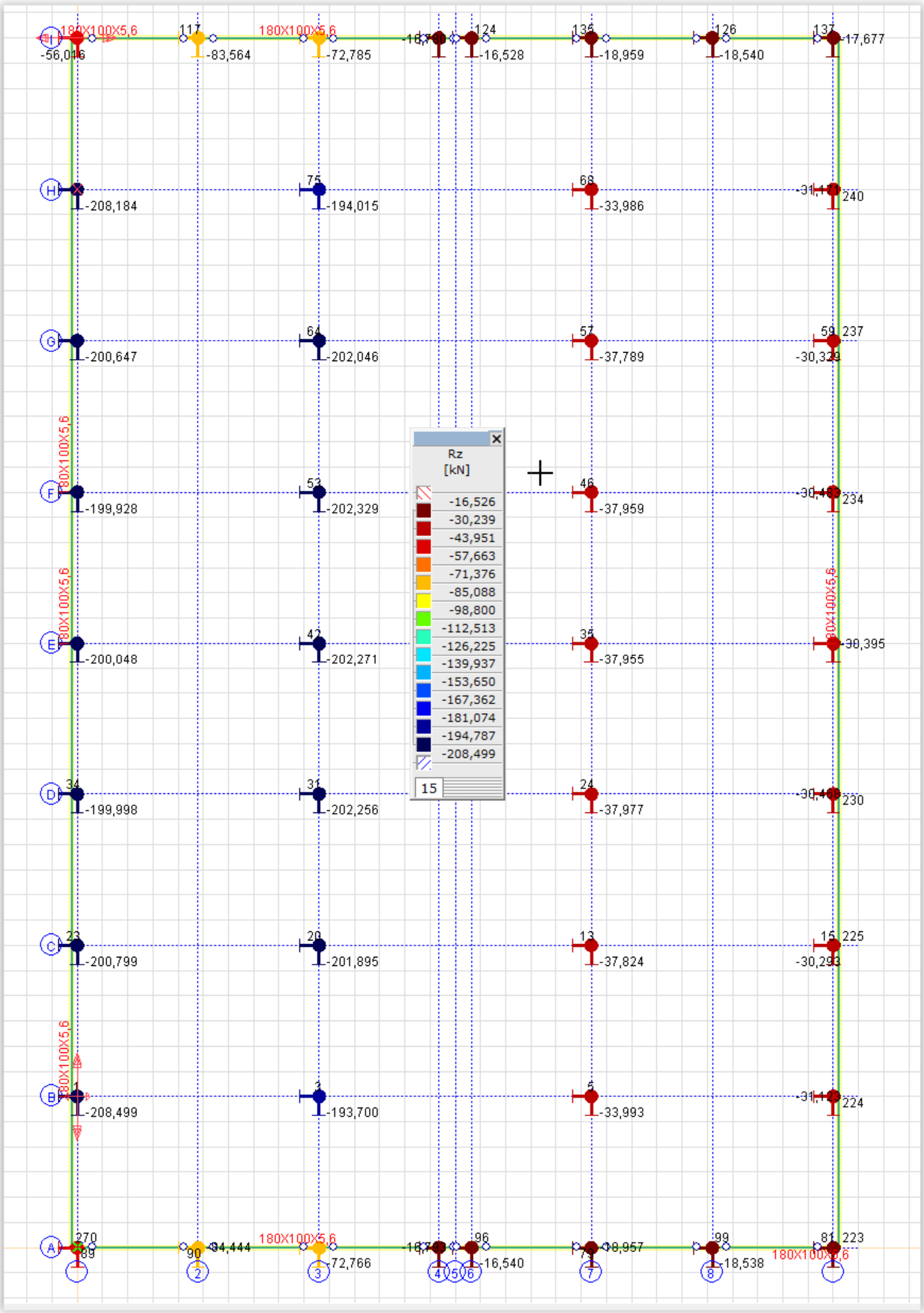
Permanent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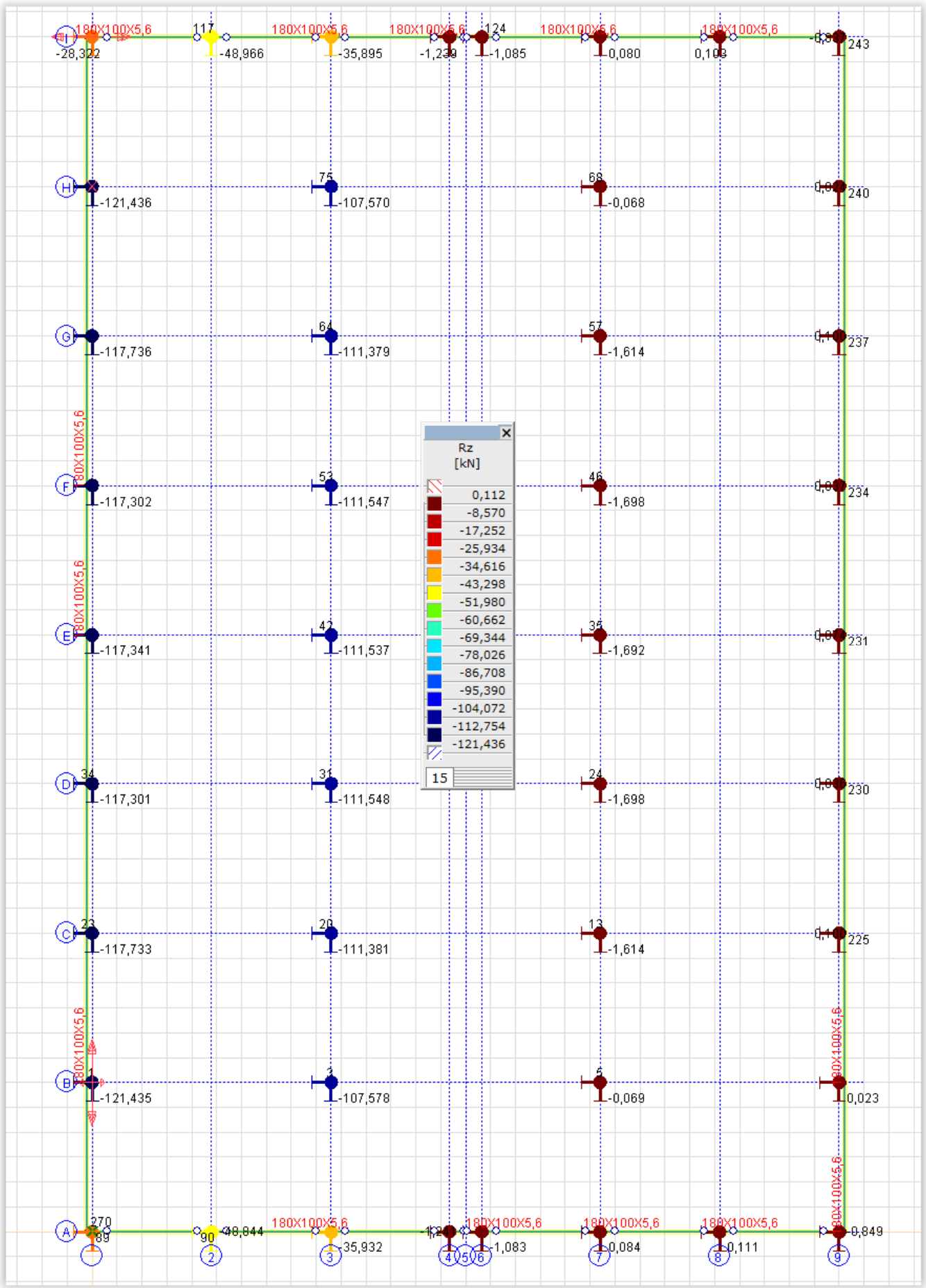
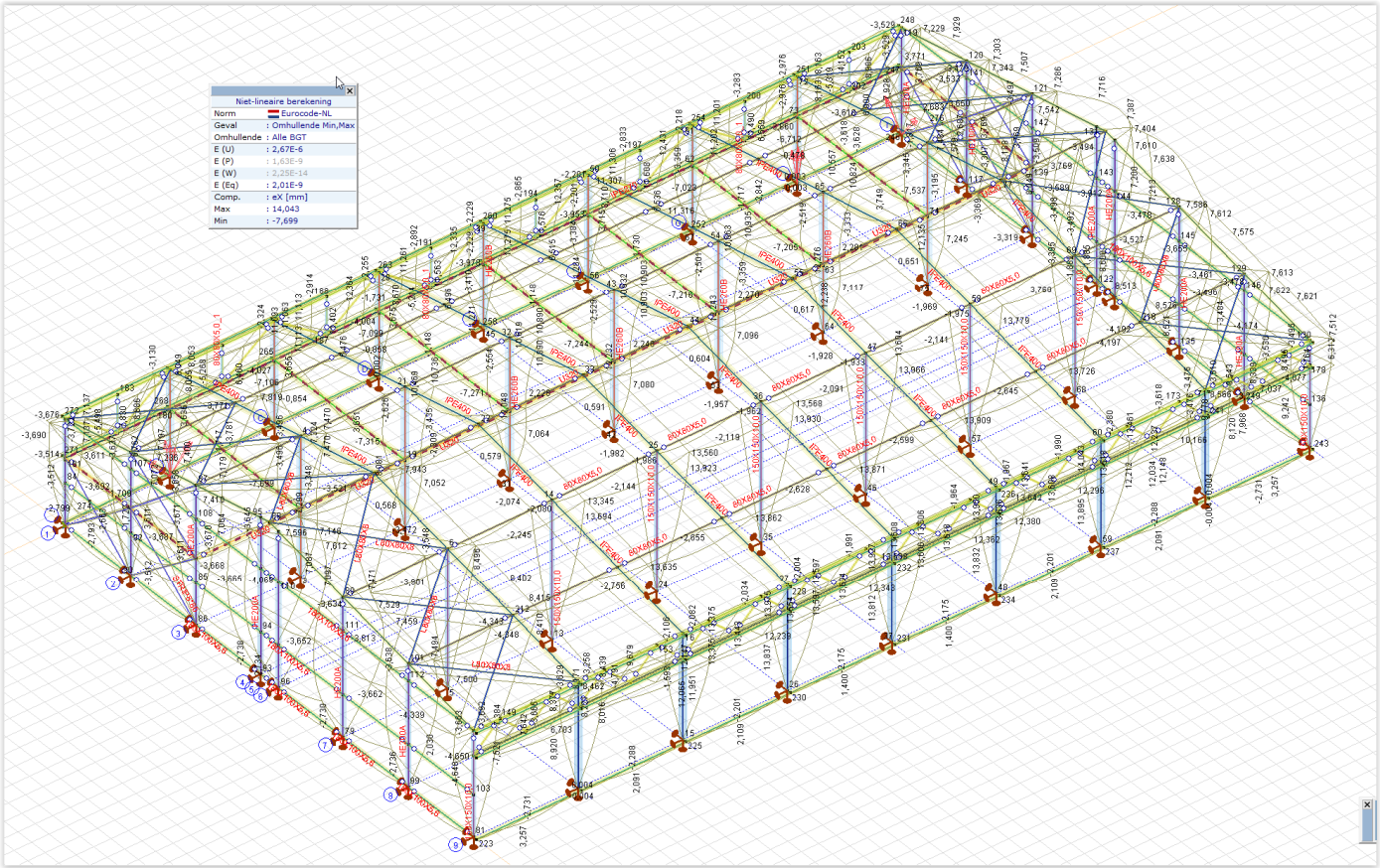
Veranderlijk

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Norm : Eurocode-NL
Geval : Omhullende Min,Max
Omhullende : Alle BGT
E (U) : 2,67E-6
E (P) : 1,63E-9
E (W) : 2,25E-14
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Comp. : eX [mm]
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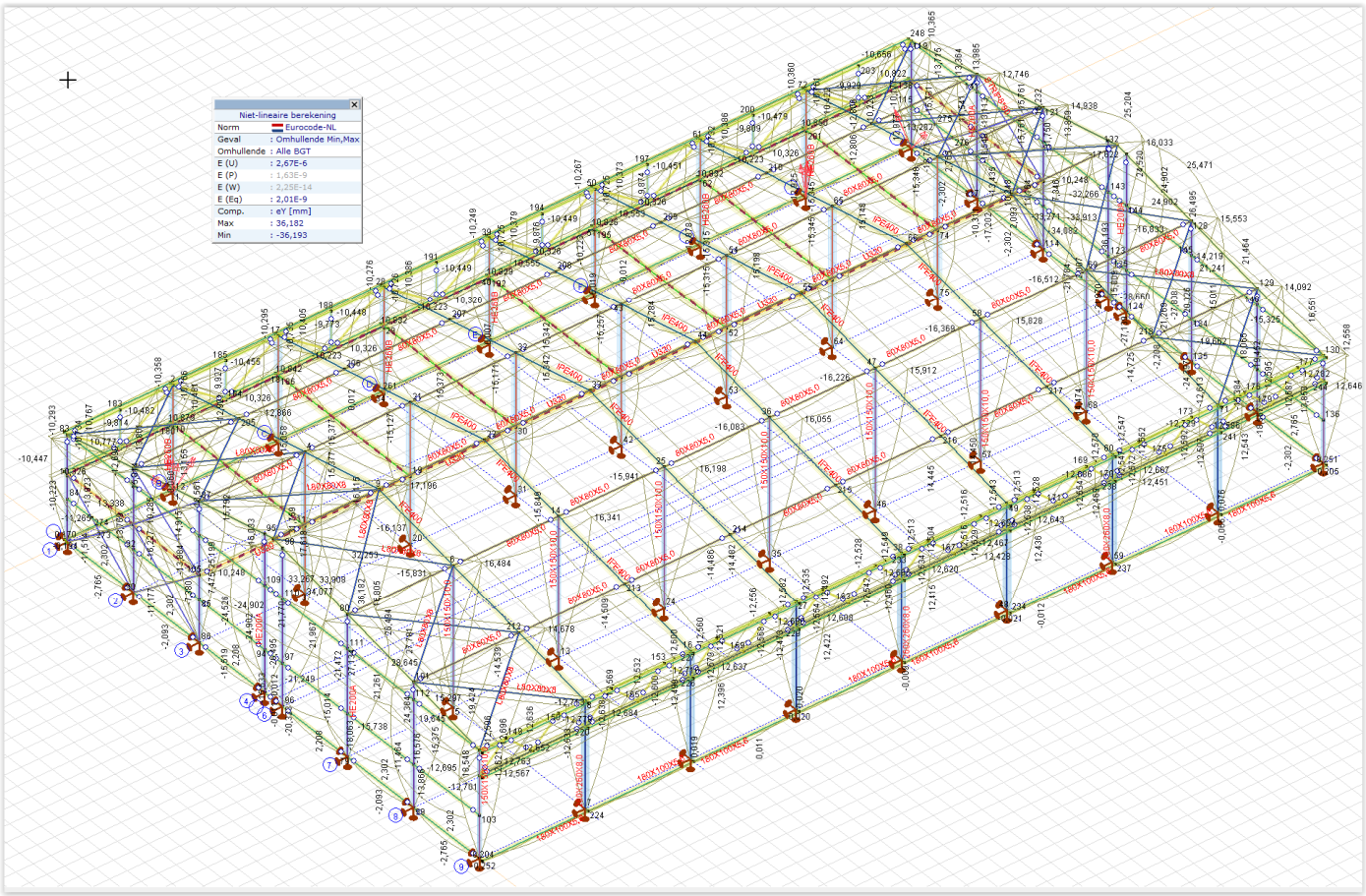
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Omhullende : Alle BGT
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E (W) : 2,25E-14
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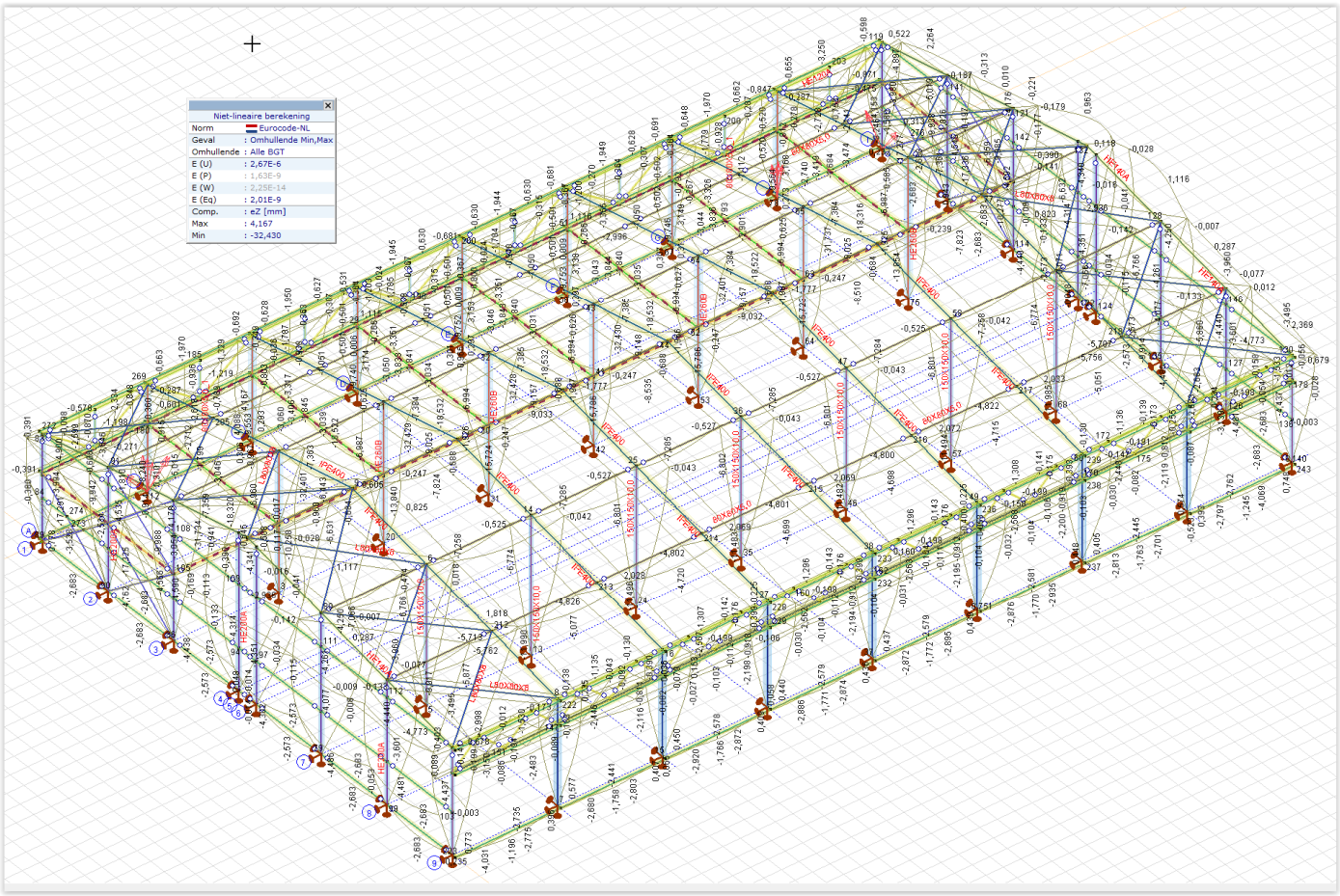
Niet-lineaire berekening
Norm : Eurocode-NL
Geval : Omhullende Min,Max
Omhullende : Alle BGT
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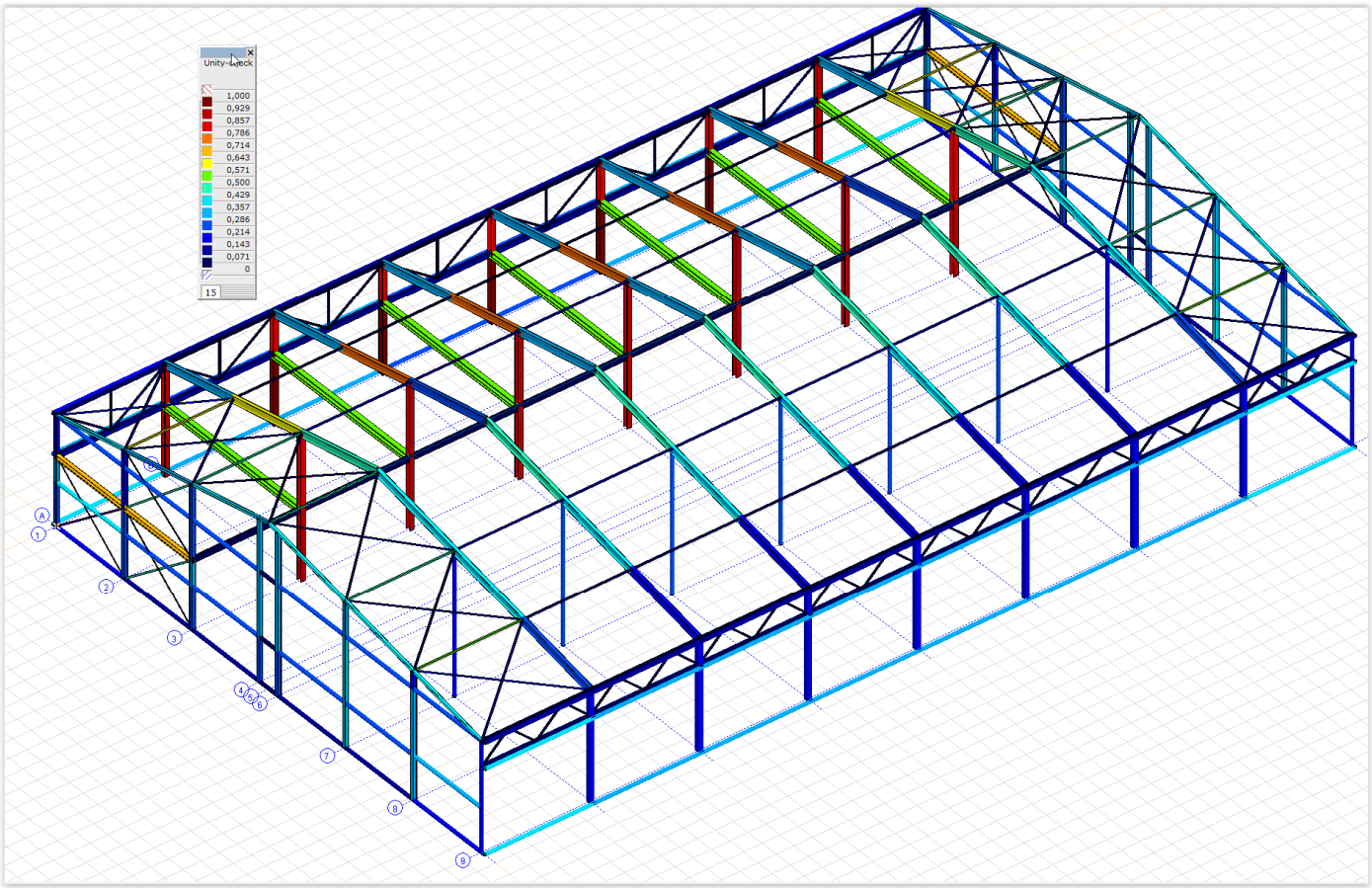
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0,500
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0,286
0,214
0,143
0,071
0
15

5.2 Betonvloer dwars

(voor figuur zie uitvoer)

Belastinggeval (1) Permanent

q =	afwerklaag		=	2,00
P_1 =	Bisoton	2,8 x 0,5 x 0,14 x 25	=	5
	staalconstructie		=	200
P_2 =	staalconstructie		=	200
P_3 =	staalconstructie		=	38
P_4 =	staalconstructie		=	30

Belastinggeval (2) Veranderlijk

P_0 =	VK45 wielen	=	75
P_1 =	staalconstructie	=	125
P_2 =	staalconstructie	=	125
P_3 =	staalconstructie	=	36
P_4 =	staalconstructie	=	14

Technosoft Liggers release 6.75 10 jan 2023

```
Dimensies....: kN/m/rad
Datum........: 06/07/2022
Bestand......: T:\WERKEN\2022060\Constructie\Berekeningen\betonvloer op
               staal.dlw

Betrouwbaarheidsklasse        : 1       Referentieperiode          : 50
Herverdelen van momenten      : nee     Maximale deellengte        : 0.500
Ouderdom bij belasten         :  28     Relatieve vochtigheid      : 50%
Doorbuigingen(beton) zijn dmv gecorrigeerde stijfheden berekend.

Fysisch lineair : Er is gerekend met de e-modulus uit de materiaaltabel.
Fys.NLE.kort    : Er is gerekend met een gecorrigeerde e-modulus (korte duur).
Deze e-mod. is berekend mbv de krachten uit de fysisch lineair berekening.
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Toegepaste normen volgens Eurocode met Nederlandse NB

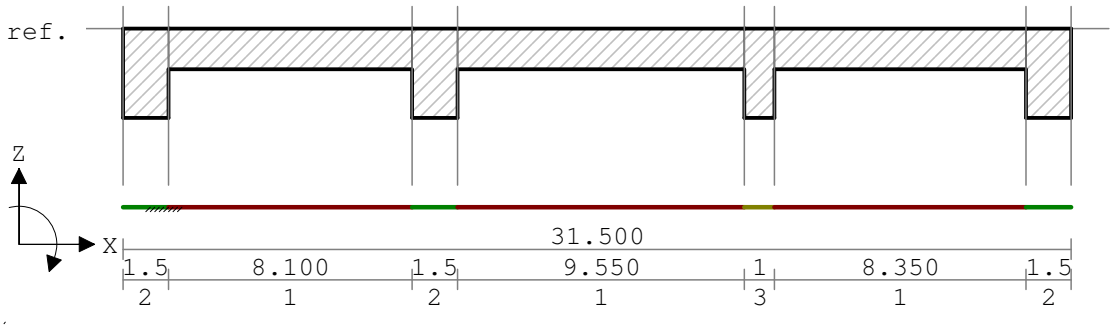
Belastingen	NEN-EN 1990:2002	C2:2010,A1:2019	NB:2019(nl)
	NEN-EN 1991-1-1:2002	C1/C11:2019	NB:2019(nl)
Beton	NEN-EN 1992-1-1:2011(nl)	C2/A1:2015(nl)	NB:2016(nl)

K82509

LIGGER:1. bedding laag

GEOMETRIE

Ligger:1. bedding laag



VELDLENGTEN

Ligger:1. bedding laag

Veld	Vanaf	Tot	Lengte
1	0.000	31.500	31.500

MATERIALEN

Mt	Kwaliteit	E-modulus[N/mm2]	S.G.	Pois.	Uitz. coëff
1	C30/37	9465	25.0	0.20	1.0000e-05

MATERIALEN vervolg

Mt	Kwaliteit	Cement	Kruipfac.
1	C30/37	N	2.47

PROFIELEN [mm]

Prof.	Omschrijving	Materiaal	Oppervlak	Traagheid	Vormf.
1	B*H 1000*250	1:C30/37	2.5000e+05	1.3021e+09	0.00
2	B*H 1500*545	1:C30/37	8.1750e+05	2.0235e+10	0.00
3	B*H 1000*545	1:C30/37	5.4500e+05	1.3490e+10	0.00

PROFIELEN vervolg [mm]

Prof.	Staaftype	Breedte	Hoogte	e	Type	b1	h1	b2	h2
1	0:Normaal	1000	250	125.0	0:RH				
2	0:Normaal	1500	545	272.5	0:RH				
3	0:Normaal	1000	545	272.5	0:RH				

DOORSNEDEN

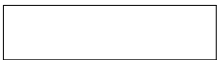
Ligger:1. bedding laag

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	1.500	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000
2	1.500	9.600	8.100	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
3	9.600	11.100	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000
4	11.100	20.650	9.550	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
5	20.650	21.650	1.000	3:B*H 1000*545	0.000	3:B*H 1000*545	0.000
6	21.650	30.000	8.350	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
7	30.000	31.500	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000

sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	1.500	1.500	1:Vast	12000	1500
2	1.500	9.600	8.100	1:Vast	5000	1000
3	9.600	11.100	1.500	1:Vast	12000	1500
4	11.100	20.650	9.550	1:Vast	5000	1000
5	20.650	21.650	1.000	1:Vast	12000	1000
6	21.650	30.000	8.350	1:Vast	5000	1000
7	30.000	31.500	1.500	1:Vast	12000	1500

PROFIELVORMEN [mm]

1 B*H 1000*250



2 B*H 1500*545



3 B*H 1000*545



BELASTINGGEVALLEN

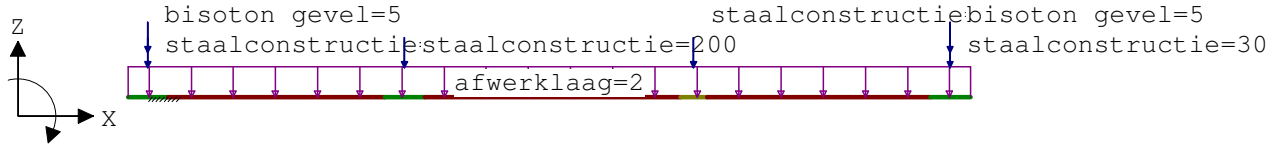
B.G.	Omschrijving	Belast/onbelast	ψ_0	ψ_1	ψ_2	e.g.
1	Permanent	2:Permanent EN1991				-1.00
2	Veranderlijk	3:Kraanbaan	0.70	0.50	0.30	0.00

BELASTINGGEVALLEN

B.G.	Omschrijving	Type
1	Permanent	1 Permanente belasting
2	Veranderlijk	2 Ver. bel. pers. ed. (q_k)

VELDBELASTINGEN

Ligger:1. bedding laag B.G:1 Permanent



VELDBELASTINGEN

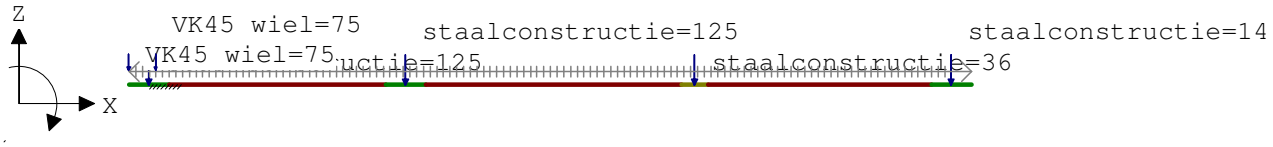
Ligger:1. bedding laag B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		1:q-last	afwerklaag	-2.000	-2.000		0.000	31.500
2		8:Puntlast	staalconstructi	-200.000			0.750	
3		8:Puntlast	staalconstructi	-200.000			10.350	
4		8:Puntlast	staalconstructi	-38.000			21.150	
5		8:Puntlast	staalconstructi	-30.000			30.750	
6		8:Puntlast	bisoton gevel	-5.000			0.750	
7		8:Puntlast	bisoton gevel	-5.000			30.750	

0.00	:	(absoluut) grootste som reacties
-809.09	:	(absoluut) grootste som belastingen

VELDBELASTINGEN

Ligger:1. bedding laag B.G:2 Veranderlijk



VELDBELASTINGEN

Ligger:1. bedding laag B.G:2 Veranderlijk

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		15:Pass.stelsel	VK45 wiel	-75.000	0.250		0.000	31.500
2		17:Meelopend	VK45 wiel	-75.000			1.000	
3		8:Puntlast	staalconstructi	-125.000			0.750	
4		8:Puntlast	staalconstructi	-125.000			10.350	
5		8:Puntlast	staalconstructi	-36.000			21.150	
6		8:Puntlast	staalconstructi	-14.000			30.750	

BELASTINGCOMBINATIES

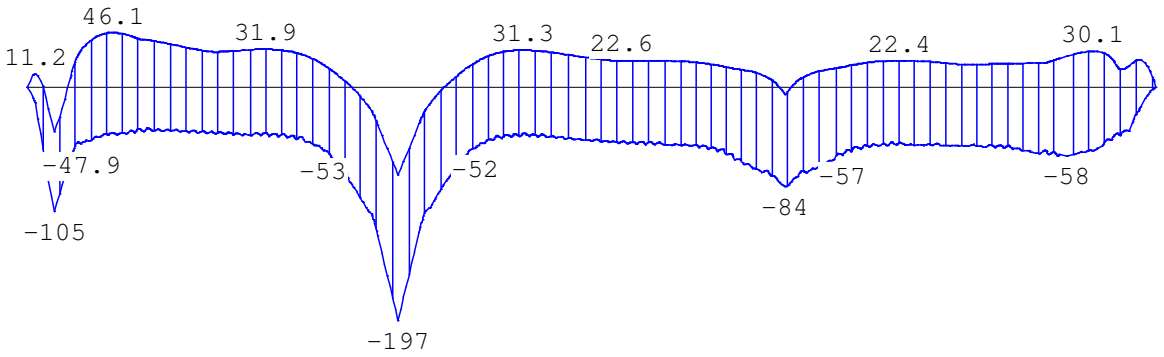
BC	Type	BG	Gen.	Factor	BG	Gen.	Factor	BG	Gen.	Factor	BG	Gen.	Factor
1	Fund.	1	Perm	1.22									
2	Fund.	1	Perm	1.22	2	psi0	1.35						
3	Fund.	1	Perm	1.08	2	Extr	1.35						
4	Fund.	1	Perm	0.90									
5	Fund.	1	Perm	0.90	2	psi0	1.35						
6	Fund.	1	Perm	0.90	2	Extr	1.35						
7	Kar.	1	Perm	1.00	2	Extr	1.00						
8	Freq.	1	Perm	1.00									
9	Freq.	1	Perm	1.00	2	psi1	1.00						
10	Quas.	1	Perm	1.00									
11	Quas.	1	Perm	1.00	2	psi2	1.00						
12	Blij.	1	Perm	1.00									

GUNSTIGE WERKING PERMANENTE BELASTINGEN

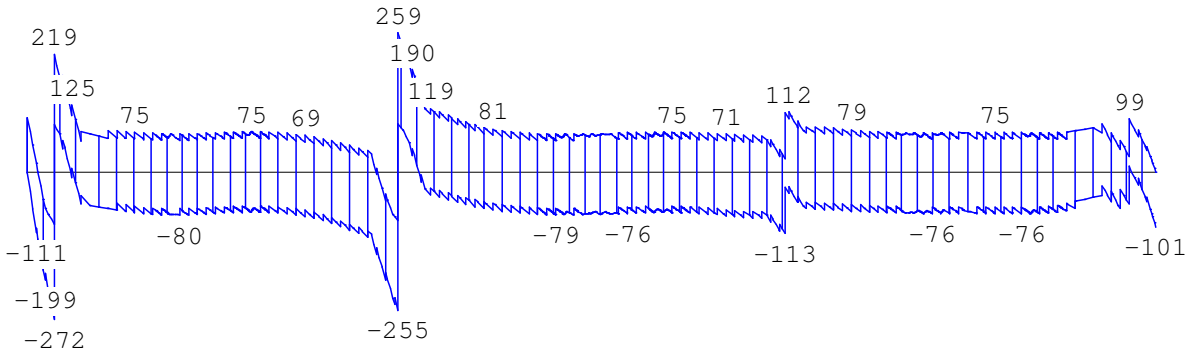
BC	Velden met gunstige werking
1	Geen
2	Geen
3	Geen
4	Alle velden de factor:0.90
5	Alle velden de factor:0.90
6	Alle velden de factor:0.90

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

MOMENTEN Fysisch lineair Ligger:1. bedding laag Fundamentele combinatie



DWARSKRACHTEN Fysisch lineairLigger:1.beddinglaagFundamentelecombinatie



TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	108.933	348.780	0.00	101.25	0.00	0.00
1	0.112	105.806	335.846	-50.66	63.56	-5.93	7.46
1	0.224	102.677	322.918	-100.01	26.00	-13.48	11.19
1	0.250	101.953	319.929	-111.27	17.32	-17.98	10.77
1	0.250	101.953	319.929	-103.29	17.32	-17.98	10.77
1	0.375	98.457	305.515	-152.08	-24.52	-39.71	5.20
1	0.500	94.951	291.103	-199.78	-66.37	-61.45	-5.85
1	0.500	94.951	291.103	-186.51	-66.37	-61.45	-5.85
1	0.625	91.430	276.684	-229.87	-81.25	-83.18	-21.59
1	0.750	87.886	262.242	-272.22	-95.60	-104.91	-37.33
1	0.750	87.886	262.242	88.90	219.18	-104.91	-37.33
1	0.875	84.303	247.750	74.59	181.95	-92.49	-27.24
1	1.000	80.696	233.228	42.91	144.73	-80.20	-15.16
1	1.000	80.696	233.228	59.60	180.27	-80.20	-15.16
1	1.125	77.072	220.072	25.21	142.30	-67.94	-1.14
1	1.250	73.436	210.524	-9.18	104.32	-55.79	13.85
1	1.250	73.436	210.524	7.45	124.58	-55.79	13.85

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	1.335	70.968	206.789	-15.24	101.92	-49.36	21.95
1	1.420	68.497	204.714	-37.80	79.25	-45.90	27.42
1	1.500	66.151	203.090	-59.19	57.73	-47.95	31.23
1	1.500	66.151	203.090	-43.36	76.20	-47.95	31.23
1	1.647	25.796	83.670	-53.80	73.67	-44.93	36.34
1	1.745	24.610	83.032	-60.81	71.97	-45.41	39.06
1	1.897	22.852	81.781	-62.55	69.36	-41.40	42.24
1	1.991	21.768	81.010	-63.63	67.75	-42.41	43.71
1	2.149	20.058	79.580	-65.44	65.04	-39.39	45.32
1	2.250	18.968	78.652	-66.60	62.74	-40.31	45.88
1	2.250	18.968	78.652	-66.60	77.97	-40.31	45.88
1	2.351	17.962	77.682	-67.76	71.98	-38.39	46.07
1	2.374	17.733	77.462	-68.02	70.61	-38.52	46.11
1	2.500	16.498	76.234	-69.47	63.14	-40.28	45.91
1	2.500	16.498	76.234	-56.55	77.22	-40.28	45.91
1	2.649	15.161	74.647	-65.93	68.54	-38.09	45.15
1	2.750	14.285	73.572	-72.23	62.71	-39.43	44.44
1	2.750	14.285	73.572	-59.65	75.96	-39.43	44.44
1	2.889	13.193	72.057	-68.00	68.15	-36.37	43.15
1	3.000	12.343	70.869	-74.72	61.88	-38.52	41.93
1	3.000	12.343	70.869	-62.34	74.67	-38.52	41.93
1	3.080	11.799	70.082	-66.98	70.34	-34.91	41.08
1	3.250	10.604	68.420	-76.84	61.11	-37.78	40.21
1	3.250	10.604	68.420	-64.58	73.58	-37.78	40.21
1	3.345	9.846	67.515	-69.85	68.54	-34.16	39.89
1	3.500	8.463	66.077	-78.36	60.37	-37.32	39.15
1	3.500	8.463	66.077	-66.15	72.65	-37.32	39.15
1	3.649	6.637	64.782	-73.97	64.97	-35.39	38.40
1	3.750	5.522	63.948	-79.29	59.81	-37.17	37.78
1	3.750	5.522	63.948	-67.08	71.97	-37.17	37.78
1	3.891	4.221	62.881	-74.15	65.12	-35.78	36.95
1	3.909	4.055	62.745	-75.05	65.21	-35.61	36.83
1	3.955	3.632	62.398	-77.36	66.88	-36.45	36.54
1	4.004	3.310	62.092	-77.24	71.43	-37.26	36.23
1	4.167	2.238	61.071	-78.23	63.46	-35.72	35.18
1	4.250	1.816	60.631	-79.59	59.45	-37.63	34.65
1	4.250	1.816	60.631	-67.34	71.58	-37.63	34.65
1	4.423	1.094	59.808	-75.50	63.31	-36.79	33.59
1	4.500	0.887	59.525	-79.15	59.67	-38.07	33.11
1	4.500	0.887	59.525	-66.87	71.83	-38.07	33.11
1	4.641	0.595	59.069	-73.41	65.21	-36.25	32.31
1	4.750	0.480	58.807	-78.44	60.11	-38.55	31.70
1	4.750	0.480	58.807	-66.15	72.32	-38.55	31.70
1	4.909	0.447	58.536	-73.40	64.95	-37.10	30.90
1	5.000	0.533	58.474	-77.58	60.71	-39.00	30.44
1	5.000	0.533	58.474	-65.27	72.96	-39.00	30.44
1	5.143	0.742	58.441	-71.81	66.32	-37.29	29.86
1	5.250	1.000	58.513	-76.67	61.38	-39.60	29.70
1	5.250	1.000	58.513	-64.34	73.67	-39.60	29.70

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	5.279	1.084	58.547	-65.65	72.35	-39.07	29.69
1	5.355	1.312	58.638	-69.17	68.77	-37.76	29.82
1	5.500	1.841	58.905	-75.79	62.05	-39.72	30.18
1	5.500	1.841	58.905	-63.46	74.38	-39.72	30.18
1	5.614	2.337	59.191	-68.72	69.00	-37.94	30.44
1	5.750	2.881	59.629	-75.05	62.62	-40.37	30.72
1	5.750	2.881	59.629	-62.71	74.98	-40.37	30.72
1	5.819	3.140	59.889	-65.91	71.64	-38.97	30.90
1	6.000	3.790	60.662	-74.52	63.03	-40.58	31.23
1	6.000	3.790	60.662	-62.17	75.43	-40.58	31.23
1	6.068	4.022	60.995	-65.39	72.08	-39.53	31.35
1	6.182	4.433	61.576	-70.87	68.89	-40.28	31.53
1	6.235	4.678	61.900	-73.50	73.88	-40.64	31.60
1	6.252	4.757	62.005	-71.15	75.50	-40.69	31.62
1	6.304	4.995	62.320	-66.38	72.86	-39.72	31.68
1	6.392	5.401	62.858	-68.83	68.39	-38.13	31.79
1	6.500	6.000	63.619	-74.29	62.98	-40.92	31.83
1	6.500	6.000	63.619	-61.94	75.45	-40.92	31.83
1	6.644	6.825	64.661	-69.22	67.92	-38.32	31.89
1	6.655	6.885	64.737	-69.76	67.38	-38.21	31.89
1	6.750	7.557	65.511	-74.75	62.43	-41.21	31.81
1	6.750	7.557	65.511	-62.40	74.95	-41.21	31.81
1	6.848	8.246	66.306	-67.60	69.66	-39.43	31.72
1	7.000	9.455	67.613	-75.66	61.45	-41.71	31.43
1	7.000	9.455	67.613	-63.32	74.03	-41.71	31.43
1	7.101	10.309	68.509	-68.89	68.35	-39.57	31.16
1	7.250	11.715	69.883	-77.07	60.01	-42.55	30.55
1	7.250	11.715	69.883	-64.77	72.68	-42.55	30.55
1	7.351	12.715	70.834	-70.54	66.78	-40.82	30.04
1	7.500	13.894	72.274	-79.05	58.10	-43.89	29.01
1	7.500	13.894	72.274	-66.84	70.86	-43.89	29.01
1	7.595	14.575	73.199	-72.46	65.12	-42.13	28.30
1	7.750	15.663	74.726	-81.68	55.69	-45.93	26.71
1	7.750	15.663	74.726	-69.65	68.56	-45.93	26.71
1	7.773	15.819	74.948	-71.04	67.14	-45.78	26.46
1	8.000	17.431	77.161	-85.06	52.81	-48.94	23.44
1	8.000	17.431	77.161	-73.32	65.80	-48.94	23.44
1	8.023	17.601	77.387	-74.82	64.26	-48.78	23.09
1	8.250	19.251	79.479	-89.30	49.46	-53.32	19.12
1	8.250	19.251	79.479	-78.05	62.56	-53.32	19.12
1	8.274	19.430	79.695	-79.65	60.92	-53.27	18.67
1	8.500	21.065	81.539	-94.56	45.69	-60.12	14.08
1	8.500	21.065	81.539	-83.82	58.87	-60.12	14.08
1	8.750	22.793	83.227	-100.78	41.53	-69.24	7.92
1	8.750	22.793	83.227	-89.85	54.74	-69.24	7.92
1	9.000	24.337	84.288	-107.07	37.06	-79.66	1.70
1	9.000	24.337	84.288	-96.00	50.23	-79.66	1.70
1	9.250	25.573	84.255	-113.26	32.39	-91.39	-6.16
1	9.250	25.573	84.255	-102.22	45.41	-91.39	-6.16
1	9.500	26.352	82.746	-119.24	27.69	-103.93	-15.59
1	9.500	26.352	82.746	-108.25	40.43	-103.93	-15.59

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	9.600	63.783	196.512	-114.83	33.45	-106.80	-19.84
1	9.600	63.783	196.512	-114.83	33.45	-106.80	-19.84
1	9.750	64.114	191.935	-151.66	-4.32	-121.32	-29.34
1	9.750	64.114	191.935	-139.21	8.20	-121.32	-29.34
1	9.875	64.350	188.452	-169.14	-22.47	-137.00	-39.09
1	10.000	64.546	185.395	-199.07	-52.60	-152.75	-48.38
1	10.000	64.546	185.395	-185.30	-39.68	-152.75	-48.38
1	10.125	64.698	182.811	-215.23	-64.92	-168.50	-57.48
1	10.250	64.797	180.867	-245.16	-82.14	-184.25	-66.58
1	10.250	64.797	180.867	-231.51	-82.14	-184.25	-66.58
1	10.350	64.841	179.786	-255.64	-89.84	-196.85	-73.87
1	10.350	64.841	179.786	90.16	259.00	-196.85	-73.87
1	10.500	64.810	181.490	76.58	222.84	-177.44	-62.89
1	10.500	64.810	181.490	78.60	236.55	-177.44	-62.89
1	10.625	64.712	183.882	58.73	206.64	-161.40	-53.75
1	10.750	64.566	186.798	30.89	176.74	-145.36	-44.60
1	10.750	64.566	186.798	43.72	190.39	-145.36	-44.60
1	10.875	64.380	190.152	13.24	160.32	-129.32	-34.95
1	11.000	64.158	193.762	-17.68	130.26	-114.48	-25.28
1	11.000	64.158	193.762	-5.19	142.30	-114.48	-25.28
1	11.100	63.962	196.711	-30.51	117.52	-104.72	-19.42
1	11.100	63.962	196.711	-30.51	117.52	-104.72	-19.42
1	11.250	26.331	83.368	-41.03	107.55	-101.35	-13.07
1	11.250	26.331	83.368	-28.23	118.50	-101.35	-13.07
1	11.500	25.482	84.620	-46.05	101.35	-88.31	-3.95
1	11.500	25.482	84.620	-32.99	112.42	-88.31	-3.95
1	11.750	24.213	84.441	-50.88	95.07	-76.77	3.52
1	11.750	24.213	84.441	-37.70	106.12	-76.77	3.52
1	12.000	22.672	83.405	-55.41	88.84	-66.53	9.92
1	12.000	22.672	83.405	-42.20	99.72	-66.53	9.92
1	12.250	20.976	81.781	-59.56	82.72	-57.76	15.91
1	12.250	20.976	81.781	-46.40	93.51	-57.76	15.91
1	12.439	19.651	80.279	-59.20	80.97	-51.42	19.65
1	12.500	19.222	79.767	-63.31	76.94	-51.56	20.83
1	12.500	19.222	79.767	-50.24	88.31	-51.56	20.83
1	12.724	17.665	77.784	-64.93	73.92	-47.13	24.53
1	12.750	17.484	77.548	-66.63	72.25	-47.55	24.89
1	12.750	17.484	77.548	-53.68	84.06	-47.55	24.89
1	12.864	16.713	76.508	-60.90	76.97	-43.77	26.40
1	13.000	15.818	75.255	-69.53	68.52	-44.84	27.83
1	13.000	15.818	75.255	-56.69	80.60	-44.84	27.83
1	13.087	15.256	74.454	-62.04	75.35	-41.00	28.65
1	13.250	14.261	72.981	-71.99	65.59	-43.11	29.76
1	13.250	14.261	72.981	-59.26	77.82	-43.11	29.76
1	13.399	13.213	71.672	-68.04	69.19	-40.08	30.55
1	13.500	12.443	70.794	-74.03	63.31	-42.10	30.87
1	13.500	12.443	70.794	-61.40	75.61	-42.10	30.87
1	13.590	11.751	70.044	-66.56	70.53	-39.36	31.13

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	13.740	10.598	68.870	-75.08	62.15	-41.36	31.27
1	13.750	10.518	68.789	-75.67	61.57	-41.21	31.28
1	13.750	10.518	68.789	-63.10	73.91	-41.21	31.28
1	13.828	9.966	68.210	-67.42	69.72	-39.26	31.33
1	13.842	9.872	68.106	-68.25	68.91	-38.88	31.33
1	14.000	8.874	67.010	-77.01	60.40	-41.59	31.15
1	14.000	8.874	67.010	-64.51	72.74	-41.59	31.15
1	14.102	8.305	66.345	-70.05	67.38	-39.68	31.01
1	14.250	7.557	65.430	-78.03	59.64	-41.85	30.62
1	14.250	7.557	65.430	-65.57	71.99	-41.85	30.62
1	14.347	7.136	64.878	-70.65	66.92	-39.68	30.37
1	14.500	6.535	64.055	-78.67	59.18	-42.32	29.82
1	14.500	6.535	64.055	-66.25	71.52	-42.32	29.82
1	14.652	6.049	63.339	-73.96	63.79	-41.15	29.24
1	14.750	5.751	62.891	-79.00	58.96	-42.93	28.81
1	14.750	5.751	62.891	-66.60	71.30	-42.93	28.81
1	14.887	5.440	62.360	-73.40	64.95	-41.96	28.25
1	14.915	5.381	62.257	-74.78	65.27	-41.78	28.12
1	14.985	5.233	61.995	-78.32	69.24	-43.30	27.80
1	15.003	5.195	61.929	-76.17	71.14	-43.58	27.73
1	15.060	5.108	61.750	-71.71	68.36	-43.13	27.48
1	15.149	4.991	61.491	-75.01	64.03	-42.58	27.08
1	15.250	4.858	61.196	-78.92	59.12	-44.34	26.61
1	15.250	4.858	61.196	-66.54	71.46	-44.34	26.61
1	15.348	4.778	60.975	-71.22	67.21	-43.77	26.20
1	15.421	4.725	60.818	-74.78	68.53	-43.38	25.87
1	15.494	4.671	60.662	-78.30	70.56	-44.82	25.54
1	15.508	4.661	60.633	-77.99	71.38	-44.80	25.49
1	15.671	4.450	60.401	-75.49	66.58	-44.56	24.81
1	15.683	4.433	60.383	-75.83	66.28	-44.71	24.76
1	15.724	4.381	60.325	-76.89	69.65	-45.18	24.58
1	15.753	4.344	60.285	-75.16	72.03	-45.51	24.46
1	15.842	4.219	60.218	-72.27	68.10	-44.23	24.13
1	15.854	4.203	60.209	-72.63	67.61	-44.08	24.09
1	15.874	4.175	60.194	-73.30	67.88	-43.80	24.01
1	15.997	4.004	60.102	-77.53	69.47	-46.19	23.52
1	16.014	3.987	60.099	-76.73	71.91	-46.04	23.46
1	16.092	3.912	60.089	-74.06	70.76	-45.32	23.19
1	16.129	3.876	60.084	-72.77	70.31	-45.38	23.07
1	16.179	3.828	60.077	-74.51	69.72	-45.46	22.92
1	16.242	3.767	60.069	-76.74	70.67	-46.54	22.79
1	16.286	3.744	60.088	-76.15	71.32	-46.02	22.75
1	16.327	3.722	60.105	-75.93	69.38	-45.53	22.74
1	16.449	3.659	60.156	-75.28	63.62	-46.28	22.64
1	16.500	3.639	60.185	-76.58	61.19	-47.29	22.59
1	16.500	3.639	60.185	-64.22	73.57	-47.29	22.59
1	16.571	3.637	60.250	-67.57	70.17	-45.83	22.57
1	16.585	3.637	60.263	-68.23	69.49	-45.76	22.57
1	16.635	3.635	60.309	-70.59	67.09	-45.55	22.56
1	16.750	3.640	60.423	-76.09	61.62	-47.68	22.48
1	16.750	3.640	60.423	-63.73	74.00	-47.68	22.48

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	16.820	3.666	60.519	-67.05	70.58	-46.79	22.47
1	16.853	3.678	60.564	-68.59	69.02	-46.45	22.47
1	16.873	3.686	60.591	-69.56	68.05	-46.50	22.48
1	17.000	3.746	60.774	-75.66	61.97	-47.99	22.41
1	17.000	3.746	60.774	-63.30	74.37	-47.99	22.41
1	17.030	3.774	60.826	-64.75	72.90	-47.41	22.40
1	17.134	3.869	61.009	-69.75	67.84	-46.18	22.42
1	17.172	3.903	61.074	-71.54	66.03	-46.18	22.42
1	17.250	3.987	61.221	-75.33	62.24	-48.25	22.39
1	17.250	3.987	61.221	-62.97	74.65	-48.25	22.39
1	17.401	4.189	61.535	-70.21	67.41	-46.04	22.39
1	17.443	4.246	61.624	-72.29	66.24	-47.05	22.37
1	17.489	4.321	61.724	-74.47	71.01	-48.13	22.35
1	17.502	4.348	61.756	-73.31	74.71	-48.43	22.34
1	17.560	4.462	61.890	-69.22	71.83	-47.46	22.32
1	17.581	4.504	61.940	-67.70	70.77	-47.16	22.33
1	17.630	4.601	62.055	-69.31	68.58	-46.49	22.33
1	17.659	4.660	62.124	-70.47	67.32	-46.95	22.32
1	17.734	4.821	62.306	-74.14	70.54	-48.34	22.28
1	17.759	4.881	62.368	-72.34	74.44	-48.65	22.27
1	17.807	5.002	62.492	-69.79	71.98	-48.25	22.25
1	17.835	5.072	62.563	-68.32	70.57	-48.32	22.24
1	18.000	5.515	62.991	-75.09	62.31	-49.01	22.12
1	18.000	5.515	62.991	-62.79	74.79	-49.01	22.12
1	18.091	5.808	63.236	-67.30	70.11	-47.77	22.04
1	18.250	6.354	63.665	-75.34	62.05	-49.08	21.83
1	18.250	6.354	63.665	-63.08	74.57	-49.08	21.83
1	18.341	6.708	63.913	-67.65	69.84	-48.15	21.68
1	18.500	7.373	64.345	-75.79	61.64	-50.00	21.40
1	18.500	7.373	64.345	-63.61	74.20	-50.00	21.40
1	18.657	8.106	64.765	-71.67	65.98	-48.26	21.03
1	18.750	8.586	65.021	-76.47	61.08	-50.89	20.73
1	18.750	8.586	65.021	-64.41	73.68	-50.89	20.73
1	18.861	9.190	65.333	-70.20	67.76	-49.01	20.35
1	19.000	9.784	65.695	-77.40	60.39	-52.20	19.78
1	19.000	9.784	65.695	-65.53	73.03	-52.20	19.78
1	19.125	10.154	65.995	-72.07	66.32	-50.51	19.22
1	19.250	10.466	66.251	-78.64	59.57	-54.13	18.54
1	19.250	10.466	66.251	-67.04	72.25	-54.13	18.54
1	19.426	10.834	66.556	-76.30	62.70	-52.52	17.53
1	19.500	10.985	66.606	-80.22	58.65	-56.61	17.06
1	19.500	10.985	66.606	-68.93	71.37	-56.61	17.06
1	19.654	11.297	66.709	-77.01	62.96	-56.18	16.01
1	19.750	11.480	66.640	-82.09	57.68	-61.05	15.54
1	19.750	11.480	66.640	-70.54	70.41	-61.05	15.54
1	19.895	11.752	66.495	-78.09	62.46	-60.59	14.98
1	20.000	11.926	66.174	-83.56	56.70	-65.06	14.51
1	20.000	11.926	66.174	-71.65	69.43	-65.06	14.51
1	20.120	12.118	65.748	-77.78	62.89	-64.75	13.90
1	20.250	12.289	65.031	-84.42	55.81	-68.69	12.98
1	20.250	12.289	65.031	-72.26	68.52	-68.69	12.98

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	20.298	12.346	64.722	-74.64	65.94	-68.57	12.56
1	20.500	12.530	63.067	-84.66	55.16	-71.87	10.32
1	20.500	12.530	63.067	-72.37	67.83	-71.87	10.32
1	20.650	30.290	147.677	-79.51	60.01	-69.95	8.33
1	20.650	30.290	147.677	-79.51	60.01	-69.95	8.33
1	20.750	30.342	145.226	-91.52	47.57	-74.91	6.59
1	20.750	30.342	145.226	-79.19	60.14	-74.91	6.59
1	20.766	30.350	144.837	-81.05	58.22	-74.85	6.26
1	20.844	30.387	143.142	-90.19	48.82	-75.26	4.40
1	20.922	30.416	141.853	-99.32	39.41	-77.37	2.15
1	21.000	30.442	140.742	-108.46	30.00	-80.75	-0.53
1	21.000	30.442	140.742	-95.89	42.63	-80.75	-0.53
1	21.075	30.457	140.304	-104.68	33.85	-82.36	-3.39
1	21.150	30.471	139.865	-113.47	25.07	-83.99	-6.30
1	21.150	30.471	139.865	-27.26	111.30	-83.99	-6.30
1	21.250	30.469	140.549	-38.96	99.59	-82.29	-2.50
1	21.250	30.469	140.549	-26.33	112.18	-82.29	-2.50
1	21.328	30.465	141.191	-35.63	103.07	-79.29	0.39
1	21.406	30.449	142.490	-44.92	93.96	-76.67	3.08
1	21.483	30.433	143.790	-54.21	84.85	-75.67	5.18
1	21.500	30.427	144.203	-56.20	82.90	-75.68	5.58
1	21.500	30.427	144.203	-43.63	95.29	-75.68	5.58
1	21.575	30.401	146.060	-52.94	86.35	-71.78	7.15
1	21.650	30.374	147.917	-62.26	77.40	-70.86	8.40
1	21.650	30.374	147.917	-62.26	77.40	-70.86	8.40
1	21.750	12.603	62.683	-67.46	72.68	-72.24	9.92
1	21.750	12.603	62.683	-54.80	84.93	-72.24	9.92
1	21.912	12.508	64.317	-63.44	76.92	-68.44	11.93
1	22.000	12.411	64.859	-68.10	72.59	-69.09	12.80
1	22.000	12.411	64.859	-55.41	84.79	-69.09	12.80
1	22.141	12.255	65.732	-63.10	77.60	-65.46	13.89
1	22.250	12.092	66.141	-69.02	72.05	-65.47	14.56
1	22.250	12.092	66.141	-56.30	84.01	-65.47	14.56
1	22.485	11.713	66.794	-69.22	71.76	-61.47	15.67
1	22.500	11.687	66.816	-70.05	70.98	-61.48	15.72
1	22.500	11.687	66.816	-57.32	82.61	-61.48	15.72
1	22.632	11.454	67.003	-64.60	75.61	-55.84	16.30
1	22.750	11.231	66.973	-71.08	69.40	-57.35	17.12
1	22.750	11.231	66.973	-58.36	80.69	-57.35	17.12
1	22.934	10.880	66.868	-68.43	70.93	-53.13	18.33
1	23.000	10.752	66.781	-72.07	67.41	-54.20	18.68
1	23.000	10.752	66.781	-59.37	78.95	-54.20	18.68
1	23.143	10.475	66.582	-67.13	71.39	-50.14	19.52
1	23.250	10.270	66.374	-72.97	65.71	-52.14	20.02
1	23.250	10.270	66.374	-60.31	77.53	-52.14	20.02
1	23.369	10.042	66.142	-66.72	71.26	-48.48	20.58
1	23.500	9.390	65.841	-73.76	64.38	-50.76	21.03
1	23.500	9.390	65.841	-61.15	76.40	-50.76	21.03

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	23.594	8.922	65.625	-66.15	71.50	-47.81	21.35
1	23.750	8.257	65.245	-74.45	63.35	-49.87	21.73
1	23.750	8.257	65.245	-61.88	75.51	-49.87	21.73
1	23.890	7.695	64.902	-69.22	68.29	-47.48	22.01
1	24.000	7.308	64.628	-75.01	62.59	-49.34	22.14
1	24.000	7.308	64.628	-62.48	74.83	-49.34	22.14
1	24.106	6.936	64.366	-67.92	69.33	-46.47	22.27
1	24.250	6.550	64.020	-75.46	62.03	-48.61	22.34
1	24.250	6.550	64.020	-62.96	74.33	-48.61	22.34
1	24.341	6.307	63.801	-67.61	70.71	-46.76	22.38
1	24.395	6.188	63.678	-70.38	68.92	-47.15	22.36
1	24.477	6.017	63.494	-74.61	71.12	-48.36	22.32
1	24.493	5.984	63.459	-75.41	71.54	-48.68	22.32
1	24.514	5.939	63.411	-75.08	73.24	-48.63	22.32
1	24.539	5.888	63.355	-74.94	72.53	-48.52	22.33
1	24.652	5.685	63.124	-74.31	70.64	-48.09	22.26
1	24.684	5.638	63.065	-74.13	70.51	-48.37	22.23
1	24.712	5.597	63.014	-74.85	70.40	-48.62	22.20
1	24.742	5.552	62.958	-75.62	72.59	-48.89	22.18
1	24.755	5.533	62.934	-74.89	73.54	-48.95	22.17
1	24.860	5.386	62.745	-70.38	68.23	-48.70	22.06
1	24.933	5.316	62.627	-72.76	65.48	-48.65	21.94
1	24.972	5.278	62.564	-74.76	68.18	-48.62	21.88
1	24.997	5.254	62.524	-76.03	69.90	-49.01	21.84
1	25.016	5.235	62.493	-74.81	72.89	-48.89	21.81
1	25.108	5.153	62.349	-70.76	68.30	-48.20	21.69
1	25.165	5.119	62.272	-72.63	65.50	-47.78	21.58
1	25.250	5.068	62.156	-76.23	61.35	-49.20	21.40
1	25.250	5.068	62.156	-63.82	73.72	-49.20	21.40
1	25.386	5.006	61.986	-70.51	68.68	-47.56	21.12
1	25.494	4.983	61.871	-75.90	72.36	-49.25	20.82
1	25.508	4.980	61.856	-74.07	73.39	-49.32	20.79
1	25.551	4.971	61.810	-70.46	71.27	-49.18	20.67
1	25.564	4.969	61.796	-69.33	70.61	-49.18	20.63
1	25.750	4.595	61.648	-76.12	61.55	-49.51	20.06
1	25.750	4.595	61.648	-63.77	73.92	-49.51	20.06
1	25.947	4.163	61.537	-73.40	64.23	-49.05	19.52
1	26.000	4.046	61.513	-76.03	61.71	-49.65	19.43
1	26.000	4.046	61.513	-63.70	74.07	-49.65	19.43
1	26.071	3.891	61.482	-67.10	73.03	-49.45	19.38
1	26.155	3.737	61.472	-70.48	73.36	-49.54	19.32
1	26.260	3.547	61.460	-71.91	73.76	-49.66	19.34
1	26.414	3.310	61.474	-74.35	66.22	-48.19	19.39
1	26.500	3.193	61.492	-75.88	62.06	-50.06	19.42
1	26.500	3.193	61.492	-63.63	74.40	-50.06	19.42
1	26.562	3.109	61.505	-66.64	71.37	-49.97	19.45
1	26.750	2.954	61.598	-75.88	62.20	-50.44	19.52
1	26.750	2.954	61.598	-63.67	74.52	-50.44	19.52
1	26.872	2.896	61.673	-69.63	68.56	-48.27	19.60
1	27.000	2.874	61.766	-75.96	62.30	-50.94	19.64
1	27.000	2.874	61.766	-63.80	74.59	-50.94	19.64

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

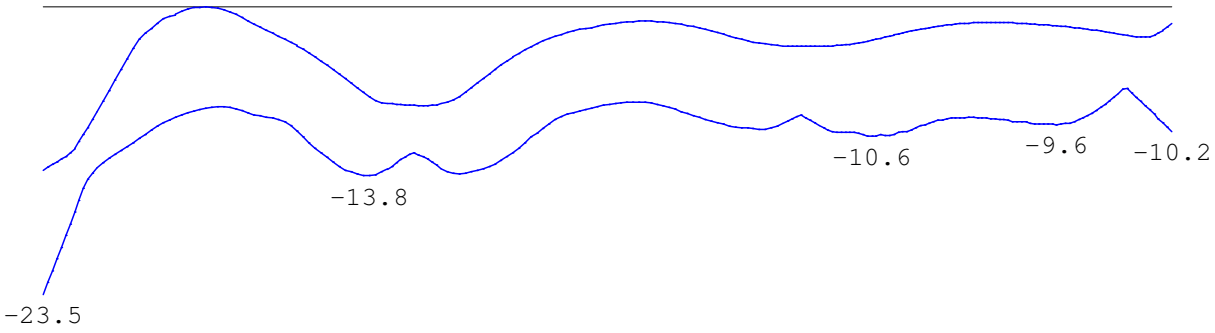
		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	27.153	2.928	61.887	-71.31	67.09	-48.75	19.77
1	27.250	2.990	61.968	-76.12	62.32	-51.03	19.80
1	27.250	2.990	61.968	-63.99	74.58	-51.03	19.80
1	27.263	2.998	61.978	-64.62	73.96	-51.28	19.81
1	27.396	3.176	62.083	-71.20	67.37	-49.11	19.93
1	27.500	3.342	62.162	-76.32	62.25	-52.43	19.99
1	27.500	3.342	62.162	-64.20	74.48	-52.43	19.99
1	27.672	3.765	62.251	-72.66	65.96	-51.68	20.12
1	27.750	3.980	62.285	-76.51	62.08	-53.47	20.16
1	27.750	3.980	62.285	-64.35	74.29	-53.47	20.16
1	27.790	4.090	62.302	-66.26	72.28	-53.40	20.18
1	27.908	4.580	62.273	-72.00	66.71	-53.59	20.25
1	27.998	4.953	62.251	-76.48	71.15	-54.60	20.28
1	28.014	5.019	62.247	-74.83	73.28	-54.76	20.28
1	28.081	5.269	62.179	-69.87	69.94	-55.11	20.30
1	28.192	5.663	62.027	-73.50	64.41	-55.69	20.33
1	28.226	5.786	61.979	-75.19	62.71	-55.87	20.32
1	28.250	5.871	61.947	-76.35	61.53	-56.00	20.32
1	28.250	5.871	61.947	-63.88	73.80	-56.00	20.32
1	28.396	6.174	61.556	-70.69	66.42	-53.23	20.47
1	28.500	6.347	61.242	-75.63	61.29	-57.20	21.35
1	28.500	6.347	61.242	-62.84	73.67	-57.13	21.35
1	28.667	6.681	60.604	-70.38	65.33	-54.97	23.09
1	28.750	6.851	60.276	-74.16	61.28	-58.06	23.93
1	28.750	6.851	60.276	-60.91	73.86	-58.06	23.93
1	28.818	7.010	59.897	-63.79	70.48	-56.91	24.60
1	29.000	7.456	58.748	-71.59	61.67	-58.07	26.30
1	29.000	7.456	58.748	-57.51	74.58	-58.07	26.30
1	29.250	8.157	56.482	-67.40	77.36	-56.30	28.27
1	29.250	8.157	56.482	-52.17	77.36	-56.30	28.27
1	29.263	8.195	56.359	-52.63	77.51	-56.10	28.36
1	29.405	8.636	54.730	-50.79	79.08	-54.49	29.19
1	29.509	8.962	53.530	-49.44	80.24	-55.21	29.65
1	29.662	9.319	51.427	-47.45	81.95	-53.03	30.02
1	29.725	9.466	50.559	-46.62	82.65	-53.53	30.06
1	29.754	9.535	50.153	-46.24	82.98	-53.61	30.05
1	30.000	23.783	110.705	-43.04	73.48	-49.75	29.26
1	30.000	23.783	110.705	-24.57	89.31	-49.75	29.26
1	30.096	24.139	107.308	-35.99	76.65	-45.12	28.22
1	30.193	24.495	104.935	-47.41	64.00	-43.77	26.24
1	30.250	24.706	104.288	-54.18	56.49	-44.94	24.56
1	30.250	24.706	104.288	-33.92	73.12	-44.94	24.56
1	30.342	25.046	105.526	-46.29	61.96	-40.08	21.02
1	30.435	25.385	109.465	-58.66	50.80	-38.85	16.40
1	30.500	25.625	113.190	-67.44	42.88	-40.94	15.04
1	30.500	25.625	113.190	-31.91	59.57	-40.94	15.04
1	30.616	26.050	120.326	-44.41	45.70	-36.30	15.68
1	30.750	26.532	128.531	-58.76	29.78	-37.21	18.01
1	30.750	26.532	128.531	11.44	99.19	-37.21	18.01

TUSSENPUNTEN Fysisch lineairLigger:1.beddinglaagFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	30.875	26.978	136.227	-5.98	82.67	-26.69	21.42
1	31.000	26.298	143.944	-24.06	66.14	-20.15	23.35
1	31.000	26.298	143.944	-10.08	79.41	-20.15	23.35
1	31.021	26.135	145.253	-13.79	76.19	-18.88	23.40
1	31.136	23.100	152.337	-33.79	58.51	-13.03	21.70
1	31.250	18.987	159.438	-53.80	40.61	-7.53	18.25
1	31.250	18.987	159.438	-45.75	48.59	-7.53	18.25
1	31.375	13.875	167.211	-73.48	24.70	-2.62	10.77
1	31.500	8.275	174.996	-101.25	0.00	-0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGEN [mm] Fys.NLE.kortLigger:1.beddinglaagKarakteristiekecombinatie



N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

PROFIELGEGEVENS Vloer [N] [mm] t.b.v.profiel:1 B*H 1000*250

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 1000 hoogte : 250 zwaartepunt tov onderkant : 125

Fictieve dikte : 200.0

Betonkwaliteit element	: C30/37	Kruipcoëf.	: 2.470
Staalkwaliteit hoofdwapening	: 500	ε_{uk}	: 5.00
Staalkwaliteit beugels	: 500		

Betondekking		Boven	Onder
Milieu	:	XC1	XC1
Hoofdwapening	:	1ste laag	1ste laag
Nominale dekking	:	15	15
Toegepaste dekking	:	30	30

Betondekking		Boven	Onder
Beugel / Verdeelwapening	:	2de laag	2de laag
Nominale dekking	:	15	15
Toegepaste dekking	:	38	40

Wapening		Boven	Onder
Diameter nuttige hoogte	:	8.0	10.0
Diameter verdeelwapening	:	6.0	6.0

Dwarskrachtwapening

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

PROFIELGEGEVENS Vloer [N] [mm] t.b.v.profiel:2 B*H 1500*545

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 1500 hoogte : 545 zwaartepunt tov onderkant : 273

Fictieve dikte : 399.8

Betonkwaliteit element	:	C30/37	Kruipcoëf.	:	2.470
Staalkwaliteit hoofdwapening	:	500	ε_{uk}	:	5.00
Staalkwaliteit beugels	:	500			

Betondekking		Boven	Onder
Milieu	:	XC1	XC1
Hoofdwapening	:	1ste laag	1ste laag
Nominale dekking	:	15	17
Toegepaste dekking	:	30	30
Beugel / Verdeelwapening	:	2de laag	2de laag
Nominale dekking	:	15	15
Toegepaste dekking	:	38	42

Wapening		Boven	Onder
Diameter nuttige hoogte	:	8.0	12.0
Diameter verdeelwapening	:	6.0	6.0

Dwarskrachtwapening

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

PROFIELGEGEVENS Vloer [N] [mm] t.b.v.profiel:3 B*H 1000*545

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 1000 hoogte : 545 zwaartepunt tov onderkant : 273

Fictieve dikte : 352.8

Betonkwaliteit element	:	C30/37	Kruipcoëf.	:	2.470
Staalkwaliteit hoofdwapening	:	500	ε_{uk}	:	5.00
Staalkwaliteit beugels	:	500			

Betondekking		Boven	Onder
Milieu	:	XC1	XC1
Hoofdwapening	:	1ste laag	1ste laag
Nominale dekking	:	15	17
Toegepaste dekking	:	30	30

Betondekking		Boven	Onder
Beugel / Verdeelwapening	:	2de laag	2de laag
Nominale dekking	:	15	15
Toegepaste dekking	:	38	42

Wapening		Boven	Onder
Diameter nuttige hoogte	:	8.0	12.0
Diameter verdeelwapening	:	6.0	6.0

Dwarskrachtwapening

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

Hoofdwapening

Ligger:1. bedding laag

Geb.	Vanaf [mm]	Tot [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
1	0	454	11.19	147.67	503	Bov	785*	785	54
2	0	1420	-104.91	-147.08	501	Ond	785*	785	54
3	1134	1500	43.97	147.67	503	Bov	785*	785	54
4	1420	1500	-53.68	-147.08	501	Ond	785*	785	54
5	1500	1647	-53.14	-53.14	208	Ond	548	548	
6	1647	1897	-47.10	-47.10	209	Ond	484	547	
7	1897	2149	-44.61	-44.61	209	Ond	458	547	
8	2149	2351	-41.76	-41.76	209	Ond	428	453	
9	2351	2649	-40.28	-40.78	209	Ond	418*	453	1
10	2649	2889	-39.51	-40.78	209	Ond	418*	418	1
11	2889	3080	-38.58	-40.78	209	Ond	418*	418	1
12	3080	3345	-37.78	-40.78	209	Ond	418*	418	1
13	1500	5279	46.11	46.12	210	Bov	471	471	
14	3345	3649	-37.32	-40.78	209	Ond	418*	418	1
15	3649	3909	-37.17	-40.78	209	Ond	418*	418	1
16	3909	4167	-37.30	-40.78	209	Ond	418*	418	1
17	4167	4423	-37.63	-40.78	209	Ond	418*	418	1
18	4423	4641	-38.07	-40.78	209	Ond	418*	418	1
19	4641	4909	-38.55	-40.78	209	Ond	418*	418	1
20	4909	5143	-39.00	-40.78	209	Ond	418*	418	1
21	5143	5355	-39.60	-40.78	209	Ond	418*	418	1
22	5355	5614	-39.78	-40.78	209	Ond	418*	418	1
23	5614	5819	-40.37	-40.78	209	Ond	418*	418	1
24	5819	6068	-40.58	-40.78	209	Ond	418*	418	1
25	6068	6392	-40.74	-40.78	209	Ond	418*	422	1
26	6392	6655	-40.92	-40.92	209	Ond	419	422	
27	6655	6848	-41.21	-41.21	209	Ond	422	436	
28	6848	7101	-41.71	-41.71	209	Ond	427	436	
29	5279	9061	31.89	31.93	211	Bov	405*	405	1
30	7101	7351	-42.55	-42.55	209	Ond	436	472	
31	7351	7595	-44.46	-44.46	209	Ond	456	472	
32	7595	7773	-48.07	-48.07	209	Ond	494	552	
33	7773	8023	-51.79	-51.80	208	Ond	534	552	
34	8023	8274	-57.66	-57.66	207	Ond	600	746	
35	8274	9600	-129.44	-129.53	198	Ond	1472	1472	
36	9600	11100	-196.85	-227.92	500	Ond	978*	978	1
37	11100	12439	-122.41	-122.41	199	Ond	1381	1381	
38	12439	12724	-55.71	-55.71	208	Ond	578	747	
39	12724	12864	-50.26	-50.26	208	Ond	517	538	
40	12864	13087	-46.27	-46.27	209	Ond	475	538	
41	13087	13399	-43.23	-43.23	209	Ond	443	460	

Hoofdwapening

Ligger:1. bedding laag

Geb.	Vanaf [mm]	Tot [mm]	$M_{E\,d}$ [kNm]	$M_{R\,d}$ [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
42	13399	13590	-42.10	-42.10	209	Ond	431	460	
43	13590	13842	-41.36	-41.36	209	Ond	424	431	
44	13842	14102	-41.59	-41.59	209	Ond	426	431	
45	11623	16571	31.33	31.37	211	Bov	398*	398	1
46	14102	14347	-41.85	-41.85	209	Ond	429	440	
47	14347	14652	-42.32	-42.32	209	Ond	434	440	
48	14652	14915	-42.93	-42.93	209	Ond	440	455	
49	14915	15149	-43.66	-43.66	209	Ond	448	455	
50	15149	15421	-44.34	-44.34	209	Ond	455	467	
51	15421	15665	-44.99	-44.99	209	Ond	462	467	
52	15665	15874	-45.51	-45.52	209	Ond	467	478	
53	15874	16092	-46.19	-46.20	209	Ond	474	478	
54	16092	16327	-46.54	-46.54	209	Ond	478	490	
55	16327	16635	-47.29	-47.29	209	Ond	486	490	
56	16571	16820	22.72	22.98	212	Bov	290*	303	54
57	16635	16853	-47.68	-47.68	209	Ond	490	496	
58	16820	17030	22.55	22.98	212	Bov	290*	290	54
59	16853	17172	-47.99	-47.99	209	Ond	493	496	
60	17172	17401	-48.25	-48.25	209	Ond	496	501	
61	17030	17560	22.46	22.98	212	Bov	290*	290	54
62	17401	17630	-48.48	-48.48	209	Ond	498	501	
63	17630	17807	-48.71	-48.71	208	Ond	501	505	
64	17807	18091	-49.01	-49.01	208	Ond	504	505	
65	18091	18341	-49.12	-49.12	208	Ond	505	524	
66	18341	18657	-50.00	-50.00	208	Ond	515	524	
67	18657	18861	-50.89	-50.89	208	Ond	524	560	
68	18861	19125	-52.25	-52.25	208	Ond	538	560	
69	17560	20650	22.38	22.98	212	Bov	290*	290	54
70	19125	19426	-54.76	-54.76	208	Ond	567	639	
71	19426	19654	-59.71	-59.71	207	Ond	624	639	
72	19654	19895	-63.57	-63.57	207	Ond	669	734	
73	19895	20120	-67.38	-67.38	206	Ond	713	734	
74	20120	20298	-71.03	-71.03	206	Ond	756	812	
75	20298	20650	-73.02	-73.02	205	Ond	779	812	
76	20650	20766	-81.90	-98.06	501	Ond	524*	524	54
77	20650	20986	13.78	98.44	503	Bov	524*	524	54
78	20766	21483	-83.99	-98.06	501	Ond	524*	524	54
79	21317	21650	14.02	98.44	503	Bov	524*	524	54
80	21483	21650	-80.37	-98.06	501	Ond	524*	524	54
81	21650	21912	-73.68	-73.68	205	Ond	787	817	
82	21912	22141	-71.39	-71.39	206	Ond	760	817	
83	22141	22485	-68.01	-68.01	206	Ond	720	733	
84	22485	22632	-64.44	-64.44	207	Ond	679	733	
85	22632	22934	-59.92	-59.92	207	Ond	626	648	
86	22934	23143	-55.85	-55.85	208	Ond	579	648	
87	21650	24477	22.38	22.98	212	Bov	290*	290	54
88	23143	23369	-52.18	-52.18	208	Ond	538	560	
89	23369	23594	-50.94	-50.94	208	Ond	524	560	
90	23594	23890	-49.87	-49.87	208	Ond	513	522	
91	23890	24106	-49.34	-49.34	208	Ond	507	522	

Hoofdwapening

Ligger:1. bedding laag

Geb.	Vanaf [mm]	Tot [mm]	$M_{E\,d}$ [kNm]	$M_{R\,d}$ [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
92	24106	24341	-48.81	-48.81	208	Ond	502	507	
93	24341	24652	-48.78	-48.78	208	Ond	502	507	
94	24652	24972	-48.96	-48.96	208	Ond	504	506	
95	24972	25165	-49.06	-49.06	208	Ond	505	506	
96	25165	25395	-49.20	-49.20	208	Ond	506	509	
97	24477	26155	22.37	22.98	212	Bov	290*	290	54
98	25395	25551	-49.35	-49.35	208	Ond	508	509	
99	25551	25947	-49.51	-49.51	208	Ond	509	512	
100	25947	26071	-49.65	-49.66	208	Ond	511	512	
101	26071	26414	-49.78	-49.78	208	Ond	512	519	
102	26414	26562	-50.29	-50.29	208	Ond	518	519	
103	26562	26872	-50.44	-50.44	208	Ond	519	528	
104	26872	27153	-50.94	-50.94	208	Ond	524	528	
105	26155	28226	20.52	22.98	212	Bov	290*	303	54
106	27153	27396	-51.49	-51.49	208	Ond	530	552	
107	27396	27672	-52.67	-52.67	208	Ond	543	552	
108	27672	27790	-53.68	-53.68	208	Ond	555	581	
109	27790	28396	-56.00	-56.00	208	Ond	581	599	
110	28396	28667	-57.15	-57.15	207	Ond	594	599	
111	28667	28818	-58.06	-58.06	207	Ond	605	605	
112	28818	29405	-58.07	-58.07	207	Ond	605	605	
113	28226	30000	30.06	30.25	211	Bov	383*	383	1
114	29405	29662	-55.75	-55.75	208	Ond	578	605	
115	29662	30000	-54.66	-54.66	208	Ond	566	578	
116	30000	30193	-55.09	-147.08	501	Ond	785*	785	54
117	30000	30500	29.56	147.67	503	Bov	785*	785	54
118	30193	30435	-49.75	-147.08	501	Ond	785*	785	54
119	30435	30616	-49.75	-147.08	501	Ond	785*	785	54
120	30500	31500	23.40	147.67	503	Bov	785*	785	54
121	30616	31500	-44.76	-147.08	501	Ond	785*	785	54

Hoofdwapening

Ligger:1. bedding laag

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.

Opmerkingen
[1] * = Eisen met betrekking tot minimum wapening zijn toegepast, zie nationale bijlage art. 9.2.1.1(1).
Alle maten zijn zonder verschuiving van de m-lijn en verankering
[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.
[93] De wapening bij de doorsnede overgang is niet getoetst vlg. NEN-EN 1992-1-1 art.9.9.

Schuifspanningen

Ligger:1. bedding laag

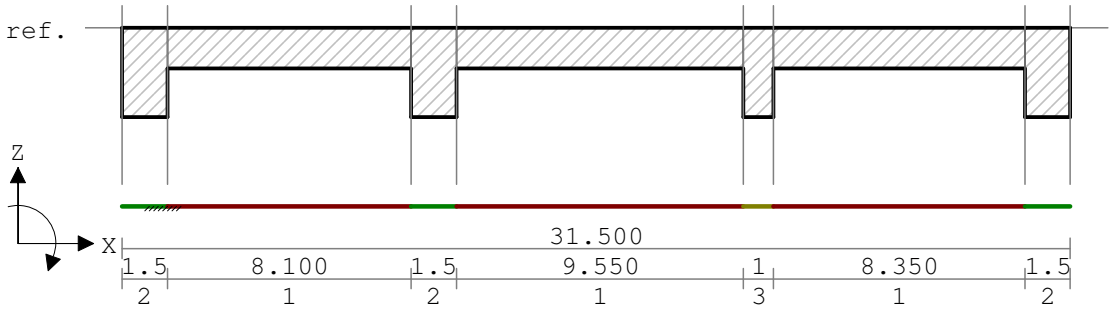
Geb.	Vanaf [mm]	Tot [mm]	θ [°]	V_{Ed} [kN]	v_{Ed}	< v_{Rd}	< $v_{Rd,max}$ [N/mm²]	v_{opg} [N/mm²]	Opm.
1	0	1500	21.8	272	0.36	0.40	2.62		71
2	1500	9600	21.8	119	0.55	0.62	3.36		71
3	9600	11100	21.8	259	0.34	0.40	3.58		71
4	11100	20650	21.8	119	0.55	0.61	3.37		71
5	20650	21650	21.8	113	0.22	0.40	2.62		71
6	21650	30000	21.8	89	0.42	0.53	2.52		71
7	30000	31500	21.8	101	0.13	0.40	2.53		71

Opmerkingen
[71] Er wordt voor platen geen minimale dwarskrachtwapening volgens art. 9.3.2 toegepast. Uitgangspunt hiervoor is dat er herverdeling van belastingen in dwarsrichting mogelijk is (zie art. 6.2.1(4)).

LIGGER:2. bedding hoog

GEOMETRIE

Ligger:2. bedding hoog



VELDLENGTEN

Ligger:2. bedding hoog

Veld	Vanaf	Tot	Lengte
1	0.000	31.500	31.500

DOORSNEDEN

Ligger:2. bedding hoog

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	1.500	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000
2	1.500	9.600	8.100	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
3	9.600	11.100	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000
4	11.100	20.650	9.550	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
5	20.650	21.650	1.000	3:B*H 1000*545	0.000	3:B*H 1000*545	0.000
6	21.650	30.000	8.350	1:B*H 1000*250	0.000	1:B*H 1000*250	0.000
7	30.000	31.500	1.500	2:B*H 1500*545	0.000	2:B*H 1500*545	0.000

sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	1.500	1.500	1:Vast	15000	1500
2	1.500	9.600	8.100	1:Vast	8000	1000
3	9.600	11.100	1.500	1:Vast	15000	1500
4	11.100	20.650	9.550	1:Vast	8000	1000
5	20.650	21.650	1.000	1:Vast	15000	1000
6	21.650	30.000	8.350	1:Vast	8000	1000
7	30.000	31.500	1.500	1:Vast	15000	1500

PROFIELVORMEN [mm]

1 B*H 1000*250



2 B*H 1500*545

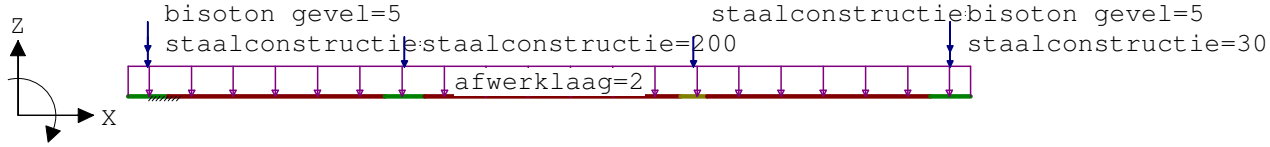


3 B*H 1000*545



VELDBELASTINGEN

Ligger:2. bedding hoog B.G:1 Permanent



VELDBELASTINGEN

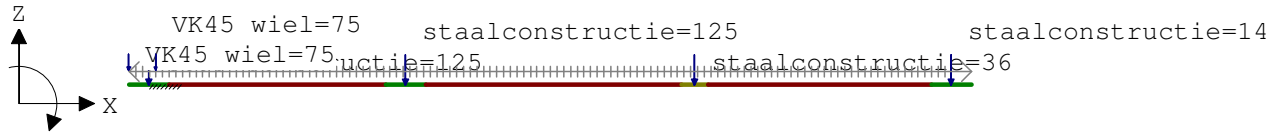
Ligger:2. bedding hoog B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		1:q-last	afwerklaag	-2.000	-2.000		0.000	31.500
2		8:Puntlast	staalconstructi	-200.000			0.750	
3		8:Puntlast	staalconstructi	-200.000			10.350	
4		8:Puntlast	staalconstructi	-38.000			21.150	
5		8:Puntlast	staalconstructi	-30.000			30.750	
6		8:Puntlast	bisoton gevel	-5.000			0.750	
7		8:Puntlast	bisoton gevel	-5.000			30.750	

0.00	:	(absoluut) grootste som reacties
-809.09	:	(absoluut) grootste som belastingen

VELDBELASTINGEN

Ligger:2. bedding hoog B.G:2 Veranderlijk



VELDBELASTINGEN

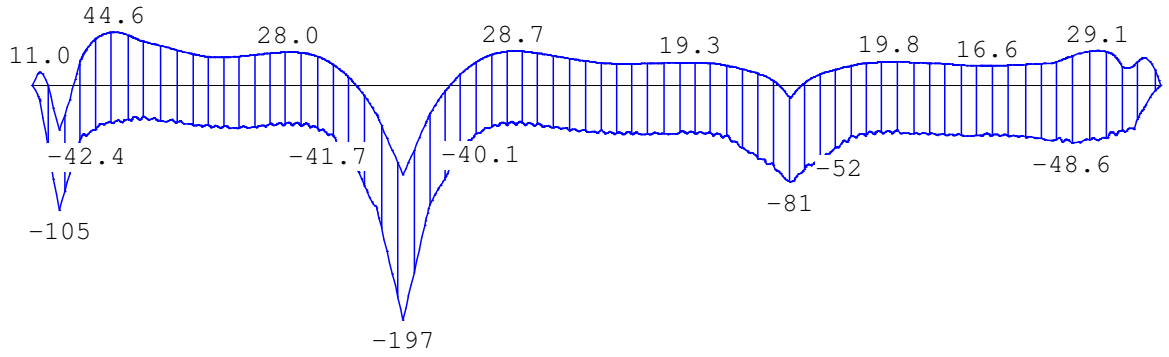
Ligger:2. bedding hoog B.G:2 Veranderlijk

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		15:Pass.stelsel	VK45 wiel	-75.000	0.250		0.000	31.500
2		17:Meelopend	VK45 wiel	-75.000			1.000	
3		8:Puntlast	staalconstructi	-125.000			0.750	
4		8:Puntlast	staalconstructi	-125.000			10.350	
5		8:Puntlast	staalconstructi	-36.000			21.150	
6		8:Puntlast	staalconstructi	-14.000			30.750	

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

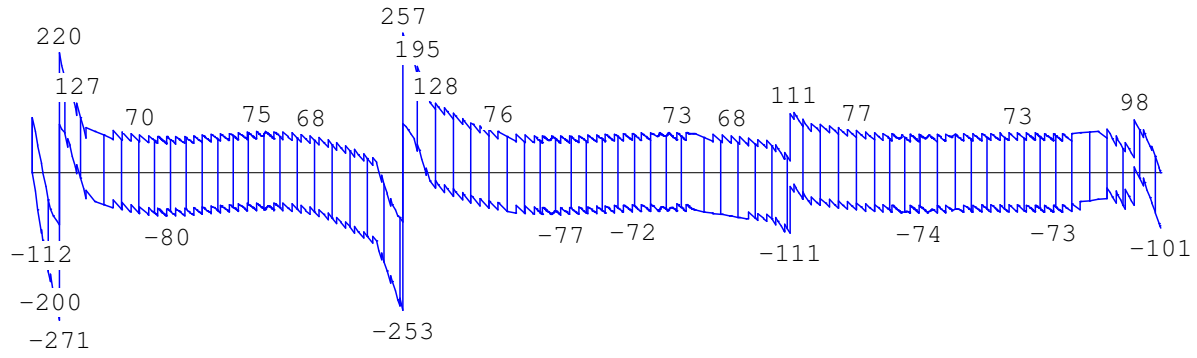
MOMENTEN

Fysisch lineair Ligger:2. bedding hoog Fundamentele combinatie



DWARSKRACHTEN

Fysisch lineairLigger:2.beddinghoogFundamentelecombinatie



TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	110.416	353.958	0.00	101.25	0.00	0.00
1	0.110	106.983	340.192	-50.46	63.98	-5.82	7.30
1	0.221	103.547	326.432	-99.57	26.82	-13.22	11.03
1	0.250	102.644	322.816	-112.29	17.06	-18.25	10.53
1	0.250	102.644	322.816	-103.85	17.06	-18.25	10.53
1	0.375	98.750	307.259	-152.64	-24.91	-39.88	4.77
1	0.500	94.844	291.704	-200.24	-66.88	-61.52	-6.37
1	0.500	94.844	291.704	-186.29	-66.88	-61.52	-6.37
1	0.625	90.918	276.139	-229.21	-81.70	-83.15	-22.00
1	0.750	86.963	260.545	-270.98	-95.93	-104.78	-37.62
1	0.750	86.963	260.545	88.57	220.42	-104.78	-37.62
1	0.875	82.960	244.886	75.24	182.26	-91.78	-27.56
1	1.000	78.926	229.188	46.65	144.11	-79.02	-16.37
1	1.000	78.926	229.188	62.51	179.38	-79.02	-16.37
1	1.125	74.870	214.467	30.76	142.39	-66.32	-3.31
1	1.250	70.800	203.183	-2.22	105.39	-53.63	10.82
1	1.250	70.800	203.183	15.07	127.10	-53.63	10.82
1	1.339	67.906	198.131	-7.38	104.38	-45.23	20.68
1	1.427	65.009	194.881	-29.82	81.66	-40.66	26.48
1	1.500	62.641	192.440	-48.17	63.10	-42.45	30.25
1	1.500	62.641	192.440	-31.67	82.99	-42.45	30.25
1	1.970	25.513	95.427	-57.83	69.71	-32.31	42.79
1	1.991	25.166	95.083	-58.29	69.11	-32.76	43.10
1	2.148	22.791	92.423	-61.68	64.67	-30.28	44.29
1	2.250	21.268	90.677	-63.89	61.24	-31.88	44.60
1	2.250	21.268	90.677	-49.82	77.22	-31.88	44.60
1	2.263	21.086	90.434	-50.82	76.28	-31.50	44.60
1	2.375	19.565	88.402	-59.18	68.49	-29.18	44.39
1	2.500	17.899	86.142	-68.49	59.81	-31.12	43.70
1	2.500	17.899	86.142	-54.80	74.49	-31.12	43.70
1	2.668	15.892	83.139	-66.66	63.35	-28.59	42.15
1	2.750	14.953	81.715	-72.44	57.92	-30.01	41.18
1	2.750	14.953	81.715	-58.96	71.76	-30.01	41.18
1	2.823	14.204	80.532	-63.86	67.19	-26.36	40.23
1	3.000	12.380	77.696	-75.71	56.14	-29.41	37.79
1	3.000	12.380	77.696	-62.34	69.64	-29.41	37.79
1	3.093	11.387	76.286	-68.17	64.06	-25.67	36.86
1	3.250	9.481	73.966	-77.96	54.66	-29.36	35.78
1	3.250	9.481	73.966	-64.62	67.97	-29.36	35.78
1	3.405	6.678	71.869	-73.73	59.05	-27.29	34.70
1	3.500	5.136	70.666	-79.28	53.63	-29.81	33.93
1	3.500	5.136	70.666	-65.92	66.85	-29.81	33.93
1	3.750	1.904	67.878	-79.76	53.10	-30.63	31.89
1	3.750	1.904	67.878	-66.37	66.31	-30.63	31.89
1	3.889	0.553	66.576	-73.72	58.89	-28.73	30.74
1	4.000		65.639	-79.56	53.07	-31.68	29.84
1	4.000		65.639	-66.14	66.31	-31.68	29.84
1	4.134		64.672	-72.96	59.39	-29.79	28.77
1	4.250		63.944	-78.83	53.49	-32.48	27.94
1	4.250		63.944	-65.38	66.79	-32.48	27.94

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	4.363		63.366	-70.93	61.13	-32.26	27.12
1	4.500		62.767	-77.71	54.28	-33.90	26.18
1	4.500		62.767	-64.24	67.63	-33.90	26.18
1	4.625		62.368	-70.25	61.45	-33.10	25.46
1	4.750		62.070	-76.34	55.34	-34.82	24.77
1	4.750		62.070	-62.85	68.75	-34.82	24.77
1	4.845		61.932	-67.36	64.05	-33.26	24.33
1	5.000		61.809	-74.84	56.56	-35.61	23.73
1	5.000		61.809	-61.35	70.01	-35.61	23.73
1	5.092		61.822	-65.71	65.53	-34.04	23.53
1	5.105		61.824	-66.36	64.87	-33.83	23.53
1	5.250		61.946	-73.33	57.85	-36.11	23.61
1	5.250		61.946	-59.84	71.33	-36.11	23.61
1	5.417		62.217	-67.88	63.12	-34.16	23.78
1	5.500		62.452	-71.94	59.13	-36.27	23.90
1	5.500		62.452	-58.45	72.63	-36.24	23.90
1	5.634		62.854	-64.99	65.99	-35.24	24.18
1	5.750	0.684	63.305	-70.79	60.35	-36.21	24.42
1	5.750	0.684	63.305	-57.31	73.86	-36.21	24.42
1	5.875	1.503	63.847	-63.55	67.55	-34.25	24.74
1	6.000	2.268	64.494	-69.87	61.31	-35.88	25.03
1	6.000	2.268	64.494	-56.39	74.85	-35.88	25.03
1	6.206	3.446	65.711	-66.93	64.17	-34.85	25.70
1	6.250	3.664	66.015	-69.24	61.94	-35.40	25.83
1	6.250	3.664	66.015	-55.76	75.48	-35.40	25.83
1	6.380	4.312	66.919	-62.53	68.48	-33.47	26.27
1	6.446	4.684	67.421	-65.99	68.26	-33.57	26.47
1	6.491	4.968	67.797	-68.45	73.82	-34.55	26.60
1	6.504	5.052	67.908	-66.64	75.47	-34.74	26.64
1	6.564	5.431	68.410	-60.97	72.09	-33.49	26.83
1	6.655	5.999	69.161	-63.78	67.07	-31.89	27.12
1	6.750	6.753	70.111	-69.12	61.79	-33.60	27.35
1	6.750	6.753	70.111	-55.65	75.40	-33.60	27.35
1	6.885	7.819	71.452	-63.22	67.55	-31.56	27.69
1	7.000	8.911	72.733	-69.77	60.84	-33.93	27.84
1	7.000	8.911	72.733	-56.31	74.50	-33.93	27.84
1	7.132	10.196	74.227	-64.12	66.47	-30.99	28.01
1	7.145	10.325	74.377	-64.91	65.66	-31.09	28.01
1	7.250	11.543	75.692	-71.09	59.30	-33.87	27.93
1	7.250	11.543	75.692	-57.68	73.03	-33.87	27.93
1	7.402	13.282	77.618	-67.18	63.40	-30.89	27.78
1	7.500	14.148	78.965	-73.30	57.20	-34.31	27.46
1	7.500	14.148	78.965	-60.00	71.02	-34.31	27.46
1	7.636	15.354	80.840	-68.96	61.95	-31.75	26.90
1	7.750	16.387	82.512	-76.43	54.39	-35.51	26.15
1	7.750	16.387	82.512	-63.33	68.30	-35.51	26.15
1	7.848	17.279	83.955	-70.12	61.44	-34.06	25.40
1	8.000	18.741	86.263	-80.65	50.81	-37.81	23.78
1	8.000	18.741	86.263	-67.91	64.83	-37.81	23.78
1	8.106	19.776	87.886	-75.64	57.05	-36.95	22.38

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	8.250	21.237	90.105	-86.18	46.44	-41.69	20.13
1	8.250	21.237	90.105	-74.02	60.55	-41.69	20.13
1	8.362	22.379	91.828	-82.63	51.93	-41.00	17.97
1	8.500	23.795	93.850	-93.25	41.26	-48.03	15.16
1	8.500	23.795	93.850	-81.73	55.44	-48.03	15.16
1	8.750	26.297	97.194	-101.86	35.29	-57.62	8.96
1	8.750	26.297	97.194	-90.11	49.47	-57.62	8.96
1	9.000	28.588	99.713	-110.91	28.56	-69.18	1.19
1	9.000	28.588	99.713	-98.98	42.66	-69.18	1.19
1	9.250	30.462	100.892	-120.14	21.22	-82.80	-7.93
1	9.250	30.462	100.892	-108.21	35.10	-82.80	-7.93
1	9.500	31.660	99.796	-129.29	13.50	-98.81	-18.79
1	9.500	31.660	99.796	-117.36	27.06	-98.81	-18.79
1	9.600	60.016	185.434	-125.53	18.48	-102.04	-23.84
1	9.600	60.016	185.434	-125.53	18.48	-102.04	-23.84
1	9.750	60.414	181.633	-160.27	-16.98	-119.78	-33.94
1	9.750	60.414	181.633	-146.82	-3.73	-119.78	-33.94
1	9.875	60.695	178.684	-175.04	-32.62	-135.89	-42.51
1	10.000	60.927	176.012	-203.27	-60.99	-152.00	-51.09
1	10.000	60.927	176.012	-188.53	-47.38	-152.00	-51.09
1	10.125	61.101	173.688	-216.77	-68.88	-168.11	-59.66
1	10.250	61.208	171.904	-245.00	-82.74	-184.22	-68.24
1	10.250	61.208	171.904	-230.56	-82.74	-184.22	-68.24
1	10.350	61.250	170.901	-253.31	-89.91	-197.11	-75.10
1	10.350	61.250	170.901	90.09	256.55	-197.11	-75.10
1	10.500	61.188	172.492	79.35	222.44	-177.15	-64.71
1	10.500	61.188	172.492	79.35	236.98	-177.15	-64.71
1	10.625	61.044	174.596	64.66	208.79	-160.65	-56.07
1	10.750	60.840	177.065	39.21	180.61	-144.14	-47.44
1	10.750	60.840	177.065	52.74	195.24	-144.14	-47.44
1	10.875	60.584	179.840	24.09	166.94	-127.64	-38.81
1	11.000	60.284	182.908	-4.99	138.64	-111.50	-30.24
1	11.000	60.284	182.908	8.25	151.69	-111.50	-30.24
1	11.100	60.019	185.543	-15.45	128.34	-100.02	-23.66
1	11.100	60.019	185.543	-15.45	128.34	-100.02	-23.66
1	11.250	31.497	100.280	-28.34	116.00	-91.01	-16.33
1	11.250	31.497	100.280	-14.71	127.86	-91.01	-16.33
1	11.500	30.151	100.847	-36.32	106.72	-79.46	-5.42
1	11.500	30.151	100.847	-22.39	118.67	-79.46	-5.42
1	11.750	28.192	99.449	-43.75	97.54	-66.18	3.34
1	11.750	28.192	99.449	-29.63	109.45	-66.18	3.34
1	12.000	25.870	96.746	-50.42	88.74	-54.91	10.91
1	12.000	25.870	96.746	-36.23	100.42	-54.91	10.91
1	12.250	23.380	93.302	-56.26	80.43	-45.76	16.86
1	12.250	23.380	93.302	-42.08	92.01	-45.72	16.86
1	12.470	21.173	90.008	-58.97	75.18	-39.79	21.27
1	12.500	20.875	89.558	-61.26	72.91	-40.07	21.76
1	12.500	20.875	89.558	-47.16	85.20	-40.07	21.76

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	12.640	19.516	87.440	-57.43	75.00	-35.59	23.86
1	12.750	18.464	85.786	-65.45	67.03	-36.50	25.18
1	12.750	18.464	85.786	-51.45	79.85	-36.50	25.18
1	12.890	17.207	83.822	-61.19	70.21	-33.10	26.57
1	13.000	16.224	82.289	-68.89	62.59	-34.43	27.33
1	13.000	16.224	82.289	-55.00	75.73	-34.43	27.33
1	13.130	15.167	80.609	-63.67	70.90	-30.81	28.06
1	13.249	14.214	79.092	-71.55	66.51	-33.39	28.41
1	13.371	13.087	77.667	-72.61	61.96	-30.54	28.69
1	13.418	12.659	77.127	-73.02	60.23	-31.13	28.72
1	13.500	11.905	76.191	-73.73	56.91	-33.01	28.67
1	13.500	11.905	76.191	-60.02	70.33	-33.01	28.67
1	13.601	10.974	75.152	-66.25	64.35	-30.26	28.64
1	13.750	9.638	73.646	-75.46	55.49	-33.43	28.31
1	13.750	9.638	73.646	-61.82	68.95	-33.43	28.31
1	13.852	8.876	72.730	-67.87	63.07	-31.33	28.05
1	14.000	7.837	71.455	-76.62	54.59	-34.05	27.49
1	14.000	7.837	71.455	-63.02	68.06	-34.05	27.49
1	14.117	7.164	70.562	-69.68	61.44	-31.91	27.03
1	14.250	6.470	69.612	-77.28	54.11	-34.90	26.39
1	14.250	6.470	69.612	-63.72	67.58	-34.90	26.39
1	14.411	5.786	68.598	-72.54	59.78	-33.94	25.60
1	14.443	5.650	68.397	-74.31	59.10	-34.58	25.43
1	14.491	5.485	68.150	-77.02	63.85	-35.55	25.18
1	14.503	5.446	68.092	-75.64	67.29	-35.75	25.12
1	14.571	5.214	67.743	-70.25	63.54	-35.22	24.76
1	14.661	4.910	67.288	-72.57	58.75	-34.98	24.29
1	14.750	4.579	66.911	-77.44	54.10	-36.64	23.81
1	14.750	4.579	66.911	-63.92	67.57	-36.64	23.81
1	14.906	3.985	66.293	-72.09	59.26	-35.66	23.01
1	15.000	3.728	66.003	-77.09	54.44	-37.86	22.52
1	15.000	3.728	66.003	-63.58	67.91	-37.86	22.52
1	15.121	3.419	65.649	-69.80	61.58	-36.64	21.93
1	15.250	3.185	65.351	-76.56	54.93	-38.78	21.30
1	15.250	3.185	65.351	-63.04	68.41	-38.78	21.30
1	15.398	2.964	65.051	-70.55	60.72	-37.14	20.68
1	15.500	2.903	64.923	-75.89	55.53	-39.58	20.24
1	15.500	2.903	64.923	-62.38	69.01	-39.58	20.24
1	15.666	2.825	64.736	-70.83	60.43	-38.46	19.63
1	15.750	2.836	64.688	-75.14	56.19	-40.25	19.35
1	15.750	2.836	64.688	-61.64	69.68	-40.25	19.35
1	15.875	2.854	64.618	-67.88	63.16	-37.32	18.96
1	15.875	2.854	64.618	-67.88	63.16	-37.32	18.96
1	16.000	2.946	64.660	-74.37	56.88	-40.76	18.59
1	16.000	2.946	64.660	-60.86	70.38	-40.76	18.59
1	16.114	3.030	64.698	-66.56	64.45	-38.95	18.34
1	16.250	3.097	64.813	-73.60	57.56	-41.17	18.14
1	16.250	3.097	64.813	-60.10	71.07	-41.17	18.14
1	16.352	3.148	64.900	-65.32	65.78	-39.40	18.12

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	16.500	3.239	65.092	-72.88	58.20	-41.43	18.03
1	16.500	3.239	65.092	-59.37	71.71	-41.43	18.03
1	16.524	3.254	65.123	-60.57	70.48	-40.82	18.03
1	16.614	3.308	65.249	-65.17	65.77	-39.04	18.07
1	16.625	3.315	65.269	-65.75	65.17	-39.13	18.08
1	16.716	3.366	65.424	-70.47	60.51	-40.51	18.06
1	16.750	3.385	65.482	-72.23	58.78	-41.26	18.07
1	16.750	3.385	65.482	-58.72	72.29	-41.26	18.07
1	16.869	3.465	65.701	-64.87	66.05	-39.53	18.16
1	17.000	3.579	65.973	-71.68	59.27	-41.53	18.22
1	17.000	3.579	65.973	-58.18	72.79	-41.53	18.22
1	17.178	3.777	66.384	-67.43	63.41	-40.81	18.38
1	17.250	3.869	66.561	-71.27	59.66	-41.42	18.43
1	17.250	3.869	66.561	-57.77	73.20	-41.42	18.43
1	17.359	4.025	66.846	-63.50	69.36	-39.44	18.58
1	17.447	4.170	67.095	-68.19	66.83	-40.17	18.66
1	17.496	4.250	67.231	-70.77	69.89	-40.74	18.71
1	17.506	4.267	67.260	-68.97	73.11	-40.68	18.72
1	17.557	4.355	67.405	-62.14	70.35	-40.39	18.78
1	17.571	4.387	67.450	-62.46	69.60	-40.31	18.80
1	17.623	4.505	67.616	-63.99	67.17	-40.53	18.87
1	17.738	4.762	67.978	-70.19	71.61	-41.00	18.95
1	17.754	4.798	68.030	-68.45	73.31	-41.02	18.96
1	17.824	4.980	68.267	-63.54	69.40	-40.77	19.03
1	17.930	5.282	68.641	-67.10	63.58	-40.47	19.15
1	18.000	5.480	68.886	-70.95	59.82	-40.88	19.20
1	18.000	5.480	68.886	-57.50	73.42	-40.88	19.20
1	18.155	6.025	69.483	-65.97	64.70	-38.16	19.31
1	18.250	6.367	69.851	-71.26	59.47	-40.28	19.30
1	18.250	6.367	69.851	-57.87	73.10	-40.28	19.30
1	18.262	6.413	69.899	-58.54	72.96	-40.44	19.31
1	18.348	6.800	70.261	-63.21	72.47	-38.85	19.35
1	18.362	6.866	70.322	-64.01	72.46	-38.59	19.34
1	18.418	7.117	70.557	-67.08	72.43	-39.18	19.32
1	18.501	7.497	70.912	-68.33	72.52	-40.91	19.26
1	18.634	8.220	71.517	-70.55	68.57	-39.08	19.15
1	18.740	8.797	72.000	-72.33	65.42	-40.68	18.97
1	18.901	9.850	72.768	-73.73	60.64	-39.42	18.64
1	19.000	10.429	73.240	-74.61	57.11	-42.39	18.34
1	19.000	10.429	73.240	-74.61	70.82	-42.39	18.34
1	19.108	10.782	73.753	-75.66	64.35	-40.27	17.97
1	19.250	11.240	74.421	-77.06	55.79	-44.15	17.34
1	19.250	11.240	74.421	-77.06	69.51	-44.15	17.34
1	19.398	11.678	75.068	-78.50	60.46	-41.96	16.53
1	19.500	11.981	75.486	-79.57	54.17	-47.09	15.94
1	19.500	11.981	75.486	-79.57	67.88	-47.09	15.94
1	19.615	12.319	75.909	-80.91	60.70	-46.78	15.16
1	19.750	12.708	76.330	-82.48	52.26	-51.58	14.16
1	19.750	12.708	76.330	-82.48	65.92	-51.58	14.16
1	20.000	13.377	76.681	-85.39	50.08	-56.50	12.07
1	20.000	13.377	76.681	-72.55	63.67	-56.50	12.07

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	20.018	13.420	76.662	-73.63	62.55	-56.40	11.95
1	20.250	13.934	76.000	-87.83	47.73	-61.45	10.00
1	20.250	13.934	76.000	-74.63	61.23	-61.45	10.00
1	20.275	13.979	75.841	-76.09	59.68	-61.45	9.73
1	20.500	14.308	73.990	-89.56	45.41	-66.34	6.89
1	20.500	14.308	73.990	-76.13	58.84	-66.34	6.89
1	20.650	27.084	135.653	-84.72	49.50	-65.27	4.43
1	20.650	27.084	135.653	-84.72	49.50	-65.27	4.43
1	20.750	27.141	133.453	-95.58	38.27	-71.33	2.32
1	20.750	27.141	133.453	-82.14	51.64	-71.33	2.32
1	20.833	27.185	131.738	-90.93	42.56	-72.27	0.15
1	20.917	27.216	130.498	-99.72	33.48	-75.12	-2.45
1	21.000	27.244	129.415	-108.51	24.40	-78.25	-5.18
1	21.000	27.244	129.415	-94.94	37.91	-78.25	-5.18
1	21.075	27.254	129.010	-102.85	29.96	-79.84	-7.99
1	21.150	27.264	128.604	-110.76	22.02	-81.43	-10.83
1	21.150	27.264	128.604	-24.54	108.25	-81.43	-10.83
1	21.250	27.249	129.173	-35.13	97.72	-79.89	-7.04
1	21.250	27.249	129.173	-21.61	111.29	-79.89	-7.04
1	21.333	27.234	129.794	-30.60	102.50	-76.38	-4.06
1	21.417	27.202	131.000	-39.59	93.71	-73.90	-1.34
1	21.500	27.166	132.324	-48.58	84.92	-72.46	1.14
1	21.500	27.166	132.324	-35.19	98.41	-72.46	1.14
1	21.575	27.123	133.942	-43.59	90.34	-68.81	2.98
1	21.650	27.080	135.559	-52.00	82.26	-66.36	4.51
1	21.650	27.080	135.559	-52.00	82.26	-66.36	4.51
1	21.750	14.350	73.427	-58.21	76.59	-67.18	6.19
1	21.750	14.350	73.427	-44.79	90.02	-67.18	6.19
1	22.000	14.023	75.669	-60.55	75.18	-62.26	9.66
1	22.000	14.023	75.669	-47.07	88.44	-62.26	9.66
1	22.250	13.501	76.617	-63.00	73.22	-57.26	11.91
1	22.250	13.501	76.617	-49.43	86.14	-57.26	11.91
1	22.453	12.988	76.655	-62.30	73.65	-51.70	13.55
1	22.500	12.858	76.557	-65.31	70.73	-52.28	13.99
1	22.500	12.858	76.557	-51.66	83.23	-52.28	13.99
1	22.643	12.462	76.242	-60.63	74.41	-46.23	15.13
1	22.750	12.153	75.833	-67.34	67.82	-47.54	15.92
1	22.750	12.153	75.833	-53.64	79.91	-47.54	15.92
1	22.840	11.892	75.488	-59.21	74.40	-42.36	16.47
1	23.000	11.433	74.785	-69.05	64.66	-44.00	17.46
1	23.000	11.433	74.785	-55.33	77.09	-44.00	17.46
1	23.085	11.189	74.396	-60.47	71.99	-40.39	17.88
1	23.250	10.631	73.619	-70.45	62.09	-42.29	18.58
1	23.250	10.631	73.619	-56.74	74.90	-42.29	18.58
1	23.355	10.257	73.118	-63.00	68.70	-38.67	18.95
1	23.500	9.418	72.454	-71.57	60.19	-41.15	19.29
1	23.500	9.418	72.454	-57.88	73.27	-41.15	19.29
1	23.633	8.635	71.849	-65.65	65.57	-38.13	19.57

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	23.750	8.072	71.354	-72.44	58.84	-40.59	19.68
1	23.750	8.072	71.354	-58.77	72.10	-40.59	19.68
1	23.874	7.489	70.836	-65.82	65.05	-37.76	19.80
1	23.907	7.360	70.709	-67.73	63.16	-38.33	19.81
1	23.972	7.108	70.460	-71.47	59.47	-39.65	19.79
1	24.000	7.000	70.353	-73.08	57.92	-40.41	19.79
1	24.000	7.000	70.353	-59.44	71.29	-40.41	19.79
1	24.106	6.591	69.949	-65.35	65.28	-37.83	19.81
1	24.138	6.500	69.843	-67.16	63.94	-37.74	19.80
1	24.182	6.377	69.698	-69.64	62.11	-38.81	19.77
1	24.246	6.197	69.486	-73.31	64.49	-40.37	19.72
1	24.278	6.107	69.380	-72.60	69.24	-40.17	19.70
1	24.296	6.055	69.319	-72.44	68.23	-39.97	19.69
1	24.424	5.744	68.941	-71.33	61.22	-39.97	19.55
1	24.500	5.581	68.736	-73.87	57.08	-40.69	19.45
1	24.500	5.581	68.736	-60.29	70.56	-40.69	19.45
1	24.701	5.236	68.240	-71.27	59.59	-40.15	19.20
1	24.750	5.171	68.128	-74.02	56.97	-40.99	19.13
1	24.750	5.171	68.128	-60.45	70.46	-40.99	19.13
1	24.827	5.069	67.953	-64.59	66.20	-40.06	19.04
1	24.922	4.975	67.771	-69.73	62.69	-40.12	18.88
1	24.993	4.910	67.640	-73.60	66.43	-41.20	18.76
1	25.034	4.872	67.563	-71.06	68.62	-40.72	18.70
1	25.088	4.821	67.461	-68.44	65.67	-39.91	18.62
1	25.112	4.812	67.427	-67.32	64.41	-40.16	18.58
1	25.250	4.755	67.221	-73.91	57.11	-41.66	18.33
1	25.250	4.755	67.221	-60.37	70.62	-41.66	18.33
1	25.420	4.709	66.998	-69.42	61.52	-40.44	18.05
1	25.500	4.697	66.908	-73.71	57.32	-41.96	17.90
1	25.500	4.697	66.908	-60.18	70.83	-41.96	17.90
1	25.649	4.536	66.762	-67.99	65.40	-41.46	17.65
1	25.669	4.493	66.746	-69.05	66.37	-41.43	17.61
1	25.758	4.302	66.676	-67.13	70.65	-42.05	17.42
1	25.846	4.105	66.613	-67.01	65.94	-40.90	17.27
1	25.857	4.078	66.608	-67.00	65.36	-41.01	17.25
1	26.000	3.725	66.542	-73.13	57.88	-42.41	16.96
1	26.000	3.725	66.542	-59.63	71.40	-42.41	16.96
1	26.071	3.550	66.510	-63.32	67.64	-42.31	16.80
1	26.250	3.153	66.487	-72.82	58.21	-42.52	16.55
1	26.250	3.153	66.487	-59.34	71.73	-42.52	16.55
1	26.461	2.735	66.511	-70.41	60.59	-41.73	16.49
1	26.500	2.660	66.520	-72.53	58.55	-42.50	16.48
1	26.500	2.660	66.520	-59.08	72.06	-42.50	16.48
1	26.643	2.426	66.581	-66.61	64.47	-40.16	16.57
1	26.739	2.286	66.637	-71.73	59.47	-42.32	16.56
1	26.750	2.270	66.643	-72.32	58.89	-42.63	16.57
1	26.750	2.270	66.643	-58.92	72.40	-42.63	16.57
1	26.841	2.158	66.708	-63.70	67.58	-41.01	16.66
1	27.000	2.020	66.857	-72.20	59.19	-42.74	16.76
1	27.000	2.020	66.857	-58.85	72.68	-42.74	16.76

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

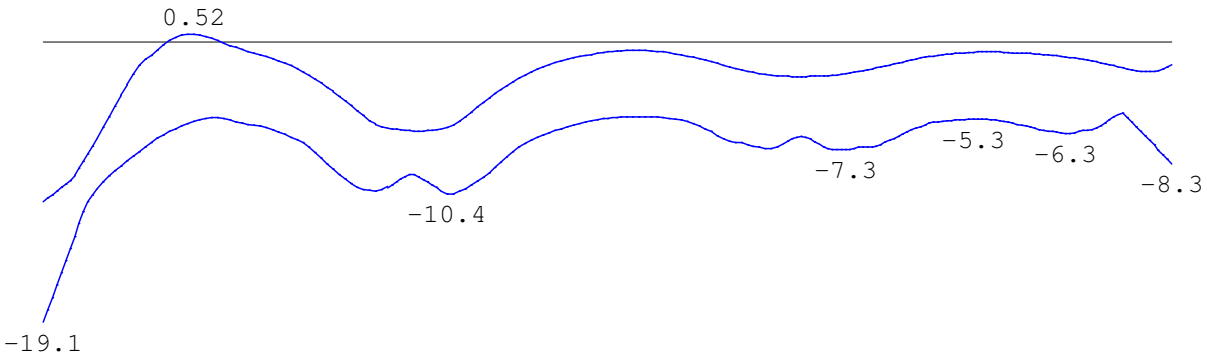
		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	27.163	1.966	67.046	-67.53	64.02	-41.01	16.90
1	27.250	1.959	67.156	-72.20	59.42	-42.91	16.96
1	27.250	1.959	67.156	-58.90	72.87	-42.91	16.96
1	27.384	2.038	67.347	-66.07	65.74	-42.10	17.12
1	27.500	2.150	67.524	-72.32	59.53	-43.21	17.24
1	27.500	2.150	67.524	-59.07	72.96	-43.21	17.24
1	27.618	2.365	67.711	-65.45	66.59	-42.61	17.44
1	27.750	2.671	67.923	-72.55	59.51	-43.69	17.58
1	27.750	2.671	67.923	-59.33	72.90	-43.69	17.58
1	27.867	3.073	68.097	-65.55	66.49	-43.00	17.77
1	28.000	3.610	68.287	-72.84	59.33	-44.41	17.90
1	28.000	3.610	68.287	-59.62	72.69	-44.41	17.90
1	28.022	3.699	68.318	-60.77	71.46	-44.25	17.94
1	28.250	5.071	68.514	-73.09	58.99	-45.42	18.27
1	28.250	5.071	68.514	-59.78	72.33	-45.34	18.27
1	28.500	6.205	68.458	-73.11	58.51	-46.51	19.03
1	28.500	6.205	68.458	-59.61	71.89	-46.51	19.03
1	28.661	6.724	68.137	-67.95	62.85	-43.99	20.77
1	28.750	6.990	67.932	-72.64	57.99	-47.68	21.80
1	28.750	6.990	67.932	-58.80	71.47	-47.68	21.80
1	28.847	7.321	67.603	-63.68	66.10	-45.40	22.90
1	29.000	7.861	67.034	-71.37	57.63	-48.57	24.56
1	29.000	7.861	67.034	-56.69	71.33	-48.57	24.56
1	29.227	8.789	65.613	-67.51	72.61	-47.39	26.71
1	29.250	8.883	65.467	-68.58	72.73	-48.02	26.90
1	29.250	8.883	65.467	-52.60	72.73	-48.02	26.90
1	29.263	8.937	65.381	-53.17	72.81	-47.77	27.00
1	29.424	9.694	63.702	-51.93	73.71	-45.04	28.11
1	29.509	10.097	62.809	-51.27	74.19	-46.05	28.56
1	29.615	10.502	61.378	-50.45	74.79	-44.04	28.92
1	29.730	10.944	59.821	-49.55	75.45	-45.92	29.06
1	29.754	11.035	59.498	-49.37	75.58	-46.08	29.05
1	29.904	11.465	56.996	-48.21	68.47	-43.62	28.64
1	30.000	22.011	103.875	-47.47	63.93	-44.50	28.06
1	30.000	22.011	103.875	-27.58	80.43	-44.50	28.06
1	30.090	22.501	101.564	-37.68	69.41	-39.30	27.01
1	30.170	22.935	99.987	-46.63	59.65	-39.78	25.44
1	30.250	23.369	99.804	-55.58	49.88	-41.96	23.19
1	30.250	23.369	99.804	-33.92	67.17	-41.96	23.19
1	30.339	23.852	101.778	-45.48	57.02	-38.35	19.82
1	30.428	24.334	106.542	-57.04	46.87	-37.73	15.48
1	30.500	24.722	111.060	-66.38	38.67	-38.93	14.43
1	30.500	24.722	111.060	-31.06	56.03	-38.93	14.43
1	30.613	25.328	118.605	-44.26	43.16	-36.10	14.80
1	30.750	26.060	127.807	-60.32	27.50	-36.78	16.98
1	30.750	26.060	127.807	11.26	97.63	-36.78	16.98
1	30.875	26.718	136.211	-6.25	81.55	-26.45	20.75
1	31.000	26.751	144.639	-24.18	65.40	-20.20	22.88
1	31.000	26.751	144.639	-9.38	79.35	-20.20	22.88

TUSSENPUNTEN Fysisch lineairLigger:2.beddinghoogFundamentele combinatie

Veld	Pos.	Grondspan.[kN/m2] min.	Grondspan.[kN/m2] max.	Dwarskr min.	Dwarskr max.	Moment min.	Moment max.
1	31.029	26.722	146.606	-14.61	74.95	-18.56	22.96
1	31.140	24.206	154.080	-34.77	57.97	-13.00	21.39
1	31.250	20.787	161.570	-55.00	40.75	-7.44	18.12
1	31.250	20.787	161.570	-55.00	49.19	-7.44	18.12
1	31.375	16.342	170.069	-77.90	25.02	-3.72	10.72
1	31.500	11.487	178.581	-101.25	0.00	0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGEN [mm] Fys.NLE.kortLigger:2.beddinghoogKarakteristiekecombinatie



N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

Hoofdwapening

Ligger:2. bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
1	0	448	11.03	147.67	503	Bov	785*	785	54
2	0	1427	-104.78	-147.08	501	Ond	785*	785	54
3	1154	1500	43.32	147.67	503	Bov	785*	785	54
4	1427	1500	-47.59	-147.08	501	Ond	785*	785	54
5	1500	1970	-47.59	-47.59	209	Ond	489	489	
6	1970	2148	-36.44	-40.78	209	Ond	418*	489	1
7	2148	2375	-32.17	-32.20	209	Ond	410*	418	1
8	2375	2668	-31.12	-31.16	210	Ond	397*	418	1
9	2668	2823	-30.01	-30.23	210	Ond	385*	397	1
10	2823	3093	-29.41	-29.60	210	Ond	377*	397	1
11	3093	3405	-29.36	-29.55	210	Ond	376*	391	1
12	1500	5092	44.60	44.60	210	Bov	455	455	
13	3405	3889	-30.75	-31.02	210	Ond	395*	415	1
14	3889	4134	-31.84	-31.88	210	Ond	406*	415	1
15	4134	4363	-32.80	-40.78	209	Ond	418*	418	1
16	4363	4625	-33.93	-40.78	209	Ond	418*	418	1
17	4625	4845	-34.82	-40.78	209	Ond	418*	418	1
18	4845	5105	-35.61	-40.78	209	Ond	418*	418	1
19	5105	5417	-36.11	-40.78	209	Ond	418*	418	1
20	5417	5634	-36.24	-40.78	209	Ond	418*	418	1

Hoofdwapening

Ligger:2. bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	$M_{E\,d}$ [kNm]	$M_{R\,d}$ [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
21	5634	5875	-36.21	-40.78	209	Ond	418*	418	1
22	5875	6206	-35.88	-40.78	209	Ond	418*	418	1
23	6206	6380	-35.55	-40.78	209	Ond	418*	418	1
24	6380	6655	-34.84	-40.78	209	Ond	418*	418	1
25	6655	6885	-34.23	-40.78	209	Ond	418*	418	1
26	6885	7132	-33.93	-40.78	209	Ond	418*	418	1
27	5092	9035	28.01	28.19	211	Bov	357*	357	1
28	7132	7402	-33.87	-40.78	209	Ond	418*	418	1
29	7402	7636	-34.31	-40.78	209	Ond	418*	418	1
30	7636	7848	-36.58	-40.78	209	Ond	418*	427	1
31	7848	8106	-40.17	-40.78	209	Ond	418*	427	1
32	8106	8362	-45.52	-45.53	209	Ond	467	613	
33	8362	9600	-128.16	-128.29	198	Ond	1456	1456	
34	9600	11100	-197.11	-227.92	500	Ond	978*	978	1
35	11100	12470	-107.50	-107.51	201	Ond	1195	1195	
36	12470	12640	-44.09	-44.09	209	Ond	452	607	
37	12640	12890	-38.66	-40.78	209	Ond	418*	418	1
38	12890	13130	-35.49	-40.78	209	Ond	418*	418	1
39	13130	13371	-33.39	-40.78	209	Ond	418*	418	1
40	13371	13601	-33.09	-40.78	209	Ond	418*	418	1
41	13601	13852	-33.43	-40.78	209	Ond	418*	418	1
42	13852	14117	-34.05	-40.78	209	Ond	418*	418	1
43	11652	16524	28.72	28.90	211	Bov	366*	366	1
44	14117	14411	-35.03	-40.78	209	Ond	418*	418	1
45	14411	14661	-36.12	-40.78	209	Ond	418*	418	1
46	14661	14906	-36.92	-40.78	209	Ond	418*	418	1
47	14906	15121	-37.93	-40.78	209	Ond	418*	418	1
48	15121	15398	-38.78	-40.78	209	Ond	418*	418	1
49	15398	15666	-39.58	-40.78	209	Ond	418*	418	1
50	15666	15875	-40.25	-40.78	209	Ond	418*	422	1
51	15875	16114	-40.76	-40.78	209	Ond	418*	422	1
52	16114	16353	-41.17	-41.17	209	Ond	422	424	
53	16353	16614	-41.43	-41.43	209	Ond	424	424	
54	16524	16716	18.14	22.98	212	Bov	290*	290	54
55	16614	16869	-41.29	-41.29	209	Ond	423	425	
56	16869	17178	-41.53	-41.53	209	Ond	425	425	
57	17178	17359	-41.42	-41.42	209	Ond	424	425	
58	17359	17571	-40.88	-40.88	209	Ond	419	425	
59	16716	18241	19.34	22.98	212	Bov	290*	290	54
60	17571	17930	-41.05	-41.05	209	Ond	420	420	
61	17930	18155	-40.88	-40.88	209	Ond	419	420	
62	18155	18362	-40.44	-40.78	209	Ond	418*	419	1
63	18362	18634	-40.91	-40.91	209	Ond	419	419	
64	18634	18901	-40.74	-40.78	209	Ond	418*	453	1
65	18901	19108	-42.39	-42.39	209	Ond	434	453	
66	19108	19398	-44.74	-44.74	209	Ond	459	548	
67	18241	20650	19.35	22.98	212	Bov	290*	290	54
68	19398	19615	-50.34	-50.34	208	Ond	518	548	
69	19615	20018	-59.56	-59.56	207	Ond	622	651	
70	20018	20275	-64.40	-64.40	207	Ond	678	782	

Hoofdwapening

Ligger:2. bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	$M_{E\,d}$ [kNm]	$M_{R\,d}$ [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Opm.
71	20275	20650	-69.21	-69.21	206	Ond	734	782	
72	20650	20839	11.06	98.44	503	Bov	524*	524	54
73	20650	21650	-81.43	-98.06	501	Ond	524*	524	54
74	21462	21650	11.25	98.44	503	Bov	524*	524	54
75	21650	22453	-70.76	-70.76	206	Ond	752	785	
76	22453	22643	-55.89	-55.89	208	Ond	580	663	
77	22643	22840	-50.75	-50.75	208	Ond	522	539	
78	21650	23972	19.81	22.98	212	Bov	290*	290	54
79	22840	23085	-45.98	-45.99	209	Ond	472	539	
80	23085	23355	-42.51	-42.51	209	Ond	436	452	
81	23355	23633	-41.15	-41.15	209	Ond	421	452	
82	23633	23874	-40.59	-40.78	209	Ond	418*	421	1
83	23874	24138	-40.41	-40.78	209	Ond	418*	421	1
84	24138	24296	-40.48	-40.78	209	Ond	418*	420	1
85	24296	24701	-40.69	-40.78	209	Ond	418*	420	1
86	24701	24827	-40.99	-40.99	209	Ond	420	427	
87	24827	25088	-41.33	-41.33	209	Ond	423	427	
88	23972	26499	19.81	22.98	212	Bov	290*	290	54
89	25088	25420	-41.66	-41.66	209	Ond	427	433	
90	25420	25678	-41.96	-41.96	209	Ond	430	433	
91	25678	25846	-42.22	-42.22	209	Ond	433	436	
92	25846	26071	-42.42	-42.42	209	Ond	435	436	
93	26071	26461	-42.52	-42.52	209	Ond	436	437	
94	26461	26643	-42.53	-42.53	209	Ond	436	437	
95	26499	26739	16.67	22.98	212	Bov	290*	290	54
96	26643	26841	-42.63	-42.63	209	Ond	437	440	
97	26841	27163	-42.74	-42.74	209	Ond	438	440	
98	27163	27384	-42.91	-42.91	209	Ond	440	448	
99	27384	27618	-43.41	-43.41	209	Ond	445	448	
100	27618	27867	-44.04	-44.04	209	Ond	452	466	
101	27867	28022	-44.99	-44.99	209	Ond	462	466	
102	28022	28661	-46.51	-46.51	209	Ond	478	486	
103	26739	30000	29.06	29.25	211	Bov	370*	370	1
104	28661	28847	-47.68	-47.68	209	Ond	490	499	
105	28847	29227	-48.57	-48.57	209	Ond	499	499	
106	29227	29424	-48.33	-48.33	209	Ond	497	499	
107	29424	29615	-47.25	-47.25	209	Ond	485	499	
108	29615	29904	-46.08	-46.09	209	Ond	473	485	
109	29904	30000	-45.48	-45.49	209	Ond	467	485	
110	30000	30090	-45.84	-147.08	501	Ond	785*	785	54
111	30000	30492	28.46	147.67	503	Bov	785*	785	54
112	30090	30428	-44.50	-147.08	501	Ond	785*	785	54
113	30428	30613	-44.50	-147.08	501	Ond	785*	785	54
114	30492	31500	22.96	147.67	503	Bov	785*	785	54
115	30613	31500	-41.72	-147.08	501	Ond	785*	785	54

Hoofdwapening

Ligger:2. bedding hoog

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.

Opmerkingen
[1] * = Eisen met betrekking tot minimum wapening zijn toegepast, zie nationale bijlage art. 9.2.1.1(1).
Alle maten zijn zonder verschuiving van de m-lijn en verankering
[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.
[93] De wapening bij de doorsnede overgang is niet getoetst vlg. NEN-EN 1992-1-1 art.9.9.

Schuifspanningen

Ligger:2. bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	θ [°]	V_{Ed} [kN]	v_{Ed}	< v_{Rd}	< $v_{Rd,max}$ [N/mm²]	v_{opg} [N/mm²]	Opm.
1	0	1500	21.8	271	0.35	0.40	2.62	71	
2	1500	9600	21.8	129	0.60	0.62	3.36	71	
3	9600	11100	21.8	257	0.34	0.40	3.58	71	
4	11100	20650	21.8	128	0.60	0.60	3.38	71	
5	20650	21650	21.8	111	0.22	0.40	2.62	71	
6	21650	30000	21.8	90	0.42	0.53	2.31	71	
7	30000	31500	21.8	101	0.13	0.40	2.53	71	

Opmerkingen
[71] Er wordt voor platen geen minimale dwarskrachtwapening volgens art. 9.3.2 toegepast. Uitgangspunt hiervoor is dat er herverdeling van belastingen in dwarsrichting mogelijk is (zie art. 6.2.1(4)).

5.3 Funderingsstroken gevels

(voor figuur zie uitvoer)

Technosoft Liggers release 6.75 10 jan 2023

```
Dimensies....: kN/m/rad
Datum.......: 06/07/2022
Bestand......: T:\WERKEN\2022060\Constructie\Berekeningen\
               strokenfundering.dlw

Betrouwbaarheidsklasse        : 1        Referentieperiode          : 50
Herverdelen van momenten      : nee      Maximale deellengte        : 0.500
Ouderdom bij belasten         :  28      Relatieve vochtigheid      : 50%
Doorbuigingen(beton) zijn dmv gecorrigeerde stijfheden berekend.

Fysisch lineair : Er is gerekend met de e-modulus uit de materiaaltabel.
Fys.NLE.kort    : Er is gerekend met een gecorrigeerde e-modulus (korte duur).
Deze e-mod. is berekend mbv de krachten uit de fysisch lineair berekening.
```

Toegepaste normen volgens Eurocode met Nederlandse NB

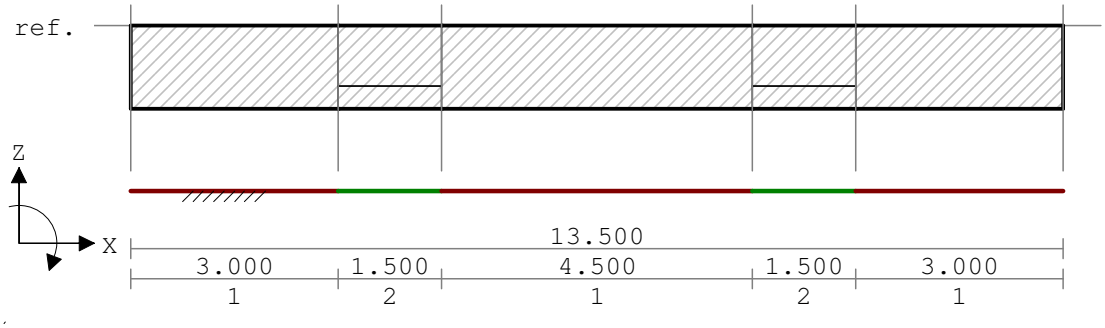
Belastingen	NEN-EN 1990:2002	C2:2010,A1:2019	NB:2019(nl)
	NEN-EN 1991-1-1:2002	C1/C11:2019	NB:2019(nl)
Beton	NEN-EN 1992-1-1:2011(nl)	C2/A1:2015(nl)	NB:2016(nl)

K82509

LIGGER:langsgevel bedding laag

GEOMETRIE

Ligger:langsgevel bedding laag



VELDLENGTEN

Ligger:langsgevel bedding laag

Veld	Vanaf	Tot	Lengte
1	0.000	13.500	13.500

MATERIALEN

Mt	Kwaliteit	E-modulus[N/mm2]	S.G.	Pois.	Uitz. coëff
1	C30/37	9465	25.0	0.20	1.0000e-05

MATERIALEN vervolg

Mt	Kwaliteit	Cement	Kruipfac.
1	C30/37	N	2.47

PROFIELEN [mm]

Prof.	Omschrijving	Materiaal	Oppervlak	Traagheid	Vormf.
1	B*H 700*900	1:C30/37	6.3000e+05	4.2525e+10	0.00
2	B*H 1500*900	1:C30/37	8.3000e+05	5.9601e+10	0.00
3	B*H 600*900	1:C30/37	4.8500e+05	2.9695e+10	0.00

PROFIELEN vervolg [mm]

Prof.	Staaftype	Breedte	Hoogte	e	Type	b1	h1	b2	h2
1	0:Normaal	700	900	450.0	0:RH				
2	0:Normaal	1500	900	371.7	6:T2	400	650	400	650
3	0:Normaal	600	900	413.1	2:L2	220	250		

DOORSNEDEN

Ligger:langsgevel bedding laag

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	3.000	3.000	1:B*H 700*900	0.000	1:B*H 700*900	0.000
2	3.000	4.500	1.500	2:B*H 1500*900	0.000	2:B*H 1500*900	0.000
3	4.500	9.000	4.500	1:B*H 700*900	0.000	1:B*H 700*900	0.000
4	9.000	10.500	1.500	2:B*H 1500*900	0.000	2:B*H 1500*900	0.000
5	10.500	13.500	3.000	1:B*H 700*900	0.000	1:B*H 700*900	0.000

sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	3.000	3.000	1:Vast	5000	700
2	3.000	4.500	1.500	1:Vast	12000	1500
3	4.500	9.000	4.500	1:Vast	5000	700
4	9.000	10.500	1.500	1:Vast	12000	1500
5	10.500	13.500	3.000	1:Vast	5000	700

PROFIELVORMEN [mm]

1 B*H 700*900



2 B*H 1500*900



3 B*H 600*900



BELASTINGGEVALLEN

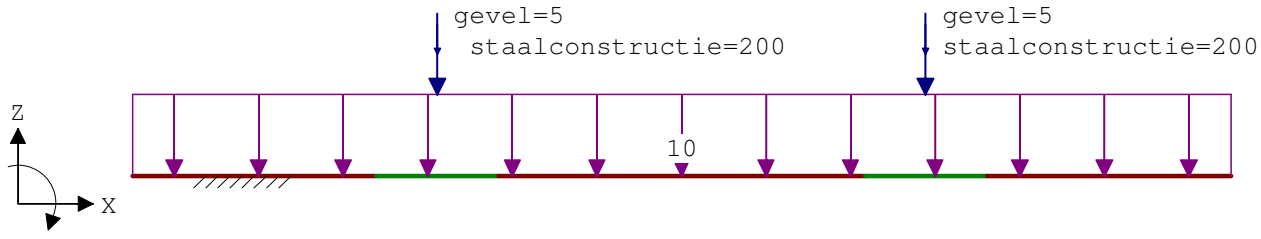
B.G.	Omschrijving	Belast/onbelast	ψ_0	ψ_1	ψ_2	e.g.
1	Permanent	2:Permanent EN1991				-1.00
2	Veranderlijk	3:Kraanbaan	0.70	0.50	0.30	0.00

BELASTINGGEVALLEN

B.G.	Omschrijving	Type
1	Permanent	1 Permanente belasting
2	Veranderlijk	2 Ver. bel. pers. ed. (q_k)

VELDBELASTINGEN

Ligger:langsgevel bedding laag B.G:1 Permanent



VELDBELASTINGEN

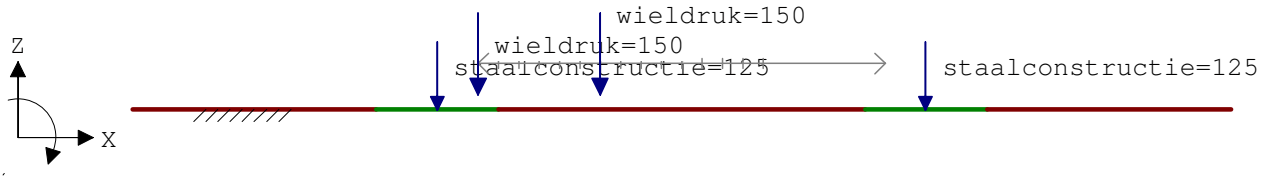
Ligger:langsgevel bedding laag B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast	staalconstruct	-200.000			3.750	
2		8:Puntlast	staalconstructi	-200.000			9.750	
3		1:q-last		-10.000	-10.000		0.000	13.500
4		8:Puntlast	gevel	-5.000			3.750	
5		8:Puntlast	gevel	-5.000			9.750	

0.00 : (absoluut) grootste som reacties
-772.62 : (absoluut) grootste som belastingen

VELDBELASTINGEN

Ligger:langsgevel bedding laag B.G:2 Veranderlijk



VELDBELASTINGEN

Ligger:langsgevel bedding laag B.G:2 Veranderlijk

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast	staalconstructi	-125.000			3.750	
2		8:Puntlast	staalconstructi	-125.000			9.750	
3		15:Pass.stelsel	wieldruk	-150.000	0.250		4.250	5.000
4		17:Meelopend	wieldruk	-150.000			1.500	

BELASTINGCOMBINATIES

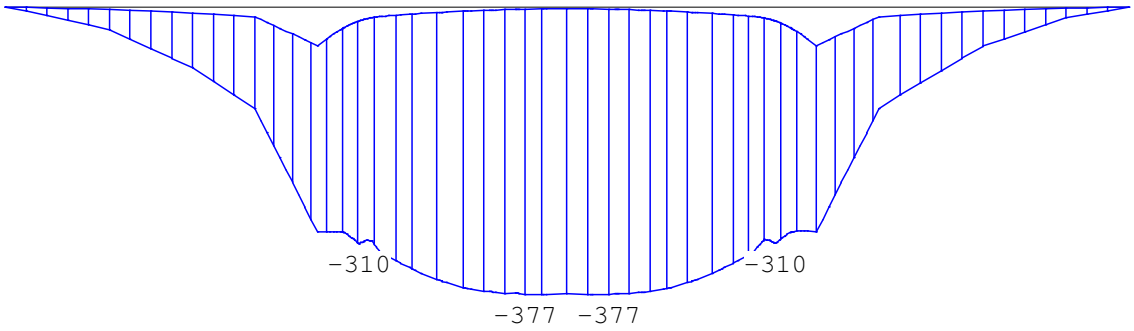
BC	Type	BG	Gen. Factor	BG	Gen. Factor	BG	Gen. Factor	BG	Gen. Factor
1	Fund.	1	Perm 1.22						
2	Fund.	1	Perm 1.22	2	psi0 1.35				
3	Fund.	1	Perm 1.08	2	Extr 1.35				
4	Fund.	1	Perm 0.90						
5	Fund.	1	Perm 0.90	2	psi0 1.35				
6	Fund.	1	Perm 0.90	2	Extr 1.35				
7	Kar.	1	Perm 1.00	2	Extr 1.00				
8	Freq.	1	Perm 1.00						
9	Freq.	1	Perm 1.00	2	psi1 1.00				
10	Quas.	1	Perm 1.00						
11	Quas.	1	Perm 1.00	2	psi2 1.00				
12	Blij.	1	Perm 1.00						

GUNSTIGE WERKING PERMANENTE BELASTINGEN

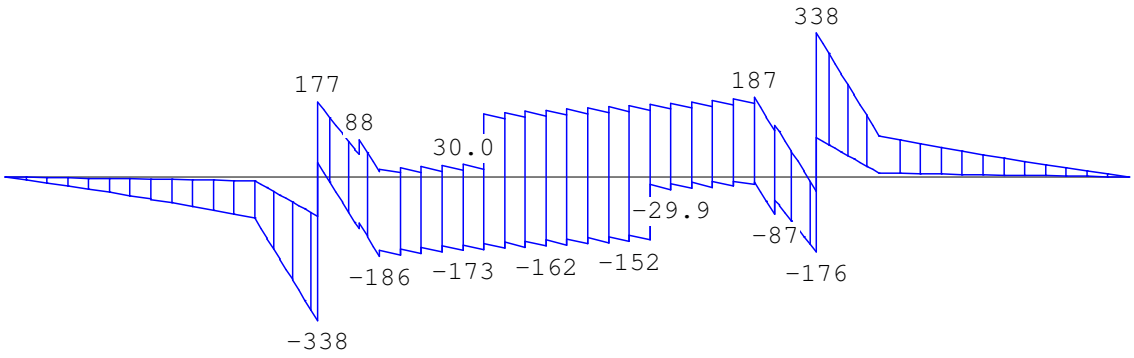
BC	Velden met gunstige werking
1	Geen
2	Geen
3	Geen
4	Alle velden de factor:0.90
5	Alle velden de factor:0.90
6	Alle velden de factor:0.90

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

MOMENTEN Fysisch lineairLigger:langsgevelbeddinglaagFundamentelecombinatie



DWARSKRACHTEN FysischLigger:langsgevellineairbeddinglaagFundamentelecombinatie



TUSSENPUNTEN FysischLigger:langsgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	34.645	74.050	0.00	0.00	0.00	0.00
1	0.300	36.614	76.410	-8.39	-0.79	-5.85	-0.56
1	0.600	36.807	78.769	-17.06	-1.61	-13.26	-1.26
1	0.900	36.999	81.122	-25.73	-2.42	-20.68	-1.96
1	1.200	37.191	83.464	-34.40	-3.24	-28.09	-2.66
1	1.500	37.380	85.785	-44.15	-4.14	-41.89	-3.95
1	1.800	37.566	88.069	-54.12	-5.06	-56.97	-5.37
1	2.100	37.747	90.302	-64.09	-5.98	-72.06	-6.78
1	2.400	37.921	92.468	-74.54	-6.94	-90.21	-8.48
1	2.700	38.088	94.545	-85.46	-7.94	-111.44	-10.46
1	3.000	91.784	231.623	-96.39	-8.94	-132.66	-12.44
1	3.000	91.784	231.623	-96.39	-8.94	-132.66	-12.44
1	3.150	91.959	233.856	-144.71	-25.53	-164.88	-19.92
1	3.300	92.127	236.017	-193.05	-42.13	-197.37	-27.49
1	3.450	92.285	238.093	-241.39	-58.72	-229.87	-35.06
1	3.600	92.430	240.070	-289.73	-75.31	-262.36	-42.63

TUSSENPUNTEN FysischLigger:langsgevellineairbeddinglaagFundamentelecombinatie

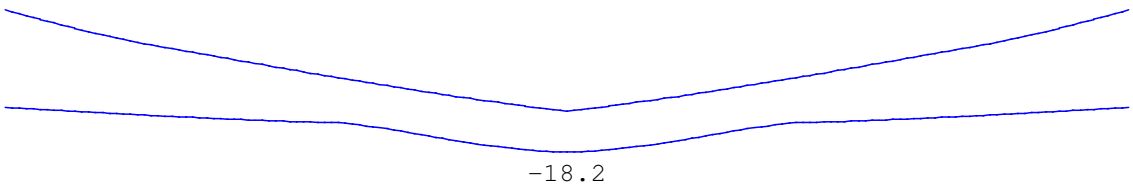
		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	3.750	92.556	241.928	-338.07	-91.90	-294.86	-50.21
1	3.750	92.556	241.928	33.56	176.68	-294.86	-50.21
1	3.859	92.632	243.176	-0.04	149.64	-294.30	-41.78
1	3.989	92.713	244.589	-40.65	117.22	-294.33	-31.98
1	4.120	92.782	245.898	-81.42	84.81	-299.24	-23.89
1	4.250	92.843	247.102	-122.19	52.40	-310.38	-17.95
1	4.250	92.843	247.102	-108.20	87.69	-310.38	-17.95
1	4.340	92.881	247.878	-136.44	60.52	-305.69	-15.17
1	4.420	92.912	248.501	-161.61	36.32	-308.95	-13.43
1	4.500	92.942	249.115	-186.77	12.12	-319.98	-12.09
1	4.500	92.942	249.115	-172.31	17.53	-319.98	-12.09
1	4.750	38.759	104.430	-183.23	10.79	-335.91	-10.02
1	4.750	38.759	104.430	-168.82	20.87	-335.91	-10.02
1	5.000	38.784	104.874	-179.83	10.28	-349.13	-8.17
1	5.000	38.784	104.874	-165.49	24.07	-349.13	-8.17
1	5.250	38.803	105.401	-176.60	12.68	-359.72	-6.48
1	5.250	38.803	105.401	-162.33	27.10	-359.72	-6.48
1	5.500	38.816	105.933	-173.53	15.62	-367.75	-5.15
1	5.500	38.816	105.933	-159.33	29.97	-367.75	-5.15
1	5.750	38.826	106.420	-170.61	18.40	-373.27	-4.02
1	5.750	38.826	106.420	-156.46	148.59	-373.27	-4.02
1	5.820	38.828	106.531	-159.62	145.45	-373.24	-3.72
1	6.000	38.833	106.820	-167.80	137.29	-376.37	-3.16
1	6.000	38.833	106.820	-153.70	151.57	-376.37	-3.16
1	6.132	38.835	106.973	-159.70	145.55	-374.71	-2.77
1	6.250	38.837	107.110	-165.07	140.18	-377.07	-2.56
1	6.250	38.837	107.110	-150.98	154.38	-377.07	-2.56
1	6.500	38.840	107.323	-162.36	142.92	-376.69	-2.44
1	6.500	38.840	107.323	-148.28	157.06	-376.69	-2.44
1	6.750	38.840	107.396	-159.64	145.54	-376.31	-2.32
1	6.750	38.840	107.396	-145.54	159.64	-376.31	-2.32
1	7.000	38.840	107.323	-157.06	148.28	-376.69	-2.45
1	7.000	38.840	107.323	-142.92	162.36	-376.69	-2.45
1	7.250	38.837	107.110	-154.38	150.98	-377.07	-2.58
1	7.250	38.837	107.110	-140.18	165.07	-377.07	-2.58
1	7.322	38.836	107.026	-143.46	161.79	-375.63	-2.68
1	7.500	38.833	106.820	-151.57	153.70	-376.37	-3.15
1	7.500	38.833	106.820	-137.29	167.80	-376.37	-3.15
1	7.750	38.826	106.420	-148.59	156.46	-373.27	-4.04
1	7.750	38.826	106.420	-18.40	170.61	-373.27	-4.04
1	8.000	38.816	105.933	-29.97	159.33	-367.75	-5.18
1	8.000	38.816	105.933	-15.62	173.53	-367.75	-5.18
1	8.250	38.803	105.401	-27.10	162.33	-359.72	-6.52
1	8.250	38.803	105.401	-12.68	176.60	-359.72	-6.52
1	8.500	38.784	104.874	-24.07	165.49	-349.13	-8.21
1	8.500	38.784	104.874	-10.28	179.83	-349.13	-8.21
1	8.750	38.759	104.430	-20.87	168.82	-335.91	-10.06
1	8.750	38.759	104.430	-10.79	183.23	-335.91	-10.06
1	9.000	92.942	249.115	-17.53	172.31	-319.98	-12.09

TUSSENPUNTEN FysischLigger:langsgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	9.000	92.942	249.115	-12.12	186.77	-319.98	-12.09
1	9.124	92.895	248.167	-49.51	147.89	-304.84	-14.22
1	9.250	92.843	247.102	-87.69	108.20	-309.80	-17.97
1	9.250	92.843	247.102	-54.58	122.19	-309.80	-17.97
1	9.351	92.796	246.178	-79.32	90.63	-301.50	-22.40
1	9.453	92.746	245.203	-104.06	59.08	-294.64	-27.87
1	9.554	92.688	244.135	-128.79	27.53	-293.31	-35.17
1	9.652	92.625	243.053	-152.74	-3.02	-294.08	-42.69
1	9.750	92.556	241.928	-176.68	-33.56	-294.86	-50.21
1	9.750	92.556	241.928	91.90	338.07	-294.86	-50.21
1	9.900	92.430	240.070	75.31	289.72	-262.20	-42.58
1	10.050	92.285	238.093	58.72	241.39	-229.81	-35.04
1	10.200	92.127	236.017	42.13	193.05	-197.43	-27.51
1	10.350	91.959	233.856	25.53	144.72	-165.05	-19.98
1	10.500	91.784	231.623	8.94	96.39	-132.66	-12.44
1	10.500	91.784	231.623	8.94	96.39	-132.66	-12.44
1	10.800	38.088	94.545	7.95	85.52	-111.78	-10.49
1	11.100	37.921	92.468	6.97	74.91	-92.60	-8.70
1	11.400	37.747	90.302	6.00	64.30	-73.42	-6.91
1	11.700	37.566	88.069	5.02	53.70	-54.24	-5.12
1	12.000	37.380	85.785	4.13	44.16	-41.75	-3.94
1	12.300	37.191	83.464	3.26	34.84	-30.59	-2.89
1	12.600	36.999	81.122	2.39	25.51	-19.43	-1.84
1	12.900	36.807	78.769	1.56	16.68	-11.08	-1.05
1	13.200	36.614	76.410	0.78	8.34	-5.54	-0.53
1	13.500	34.645	74.050	0.00	0.00	0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGENLigger:langsgevel[mm]Fys.NLE.kortbeddinglaagKarakteristiekecombinatie



N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

PROFIELGEGEVENS Balk [N] [mm] t.b.v. profiel:1 B*H 700*900

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 700 hoogte : 900 zwaartepunt tov onderkant : 450

Fictieve dikte : 393.8

Betonkwaliteit element	:	C30/37	Kruipcoëf.	:	2.470
Staalkwaliteit hoofdwapening	:	500	ε_{uk}	:	5.00
Staalkwaliteit beugels	:	500			

Betondekking		Boven	Onder
Milieu	:	XC4 (XF1)	XC4 (XF1)
Hoofdwapening	:	2de laag	2de laag
Nominale dekking	:	35	35
Toegepaste dekking	:	45	45
Toegepaste zijdekking	:	45	
Beugel / Verdeelwapening	:	1ste laag	1ste laag
Nominale dekking	:	35	35
Toegepaste dekking	:	35	35
Toegepaste zijdekking	:	35	

Wapening		Boven	Onder
Basiswapening buitenste laag	:	3x10	7x12
Basiswapening 2e laag	:	7x12	
H.o.h.afstand 2e laag	:	250	0

Beugels

Beugeldiameter : 10

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

PROFIELGEGEVENS Balk [N] [mm] t.b.v.profiel:2 B*H 1500*900

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 1500 hoogte : 900 zwaartepunt tov onderkant : 372

Fictieve dikte : 345.8

Betonkwaliteit element	:	C30/37	Kruipcoëf.	:	2.470
Staalkwaliteit hoofdwapening	:	500	ε_{uk}	:	5.00
Staalkwaliteit beugels	:	500			

Betondekking		Boven	Onder
Milieu	:	XC4 (XF1)	XC4 (XF1)
Hoofdwapening	:	2de laag	2de laag
Nominale dekking	:	35	35
Toegepaste dekking	:	45	45
Toegepaste zijdekking	:	45	
Beugel / Verdeelwapening	:	1ste laag	1ste laag
Nominale dekking	:	35	35
Toegepaste dekking	:	35	35
Toegepaste zijdekking	:	35	

Wapening		Boven	Onder
Basiswapening buitenste laag	:	3x10	7*12+6*12
Basiswapening 2e laag	:	7x12	
H.o.h.afstand 2e laag	:	250	0

Beugels

Beugeldiameter : 10

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

PROFIELGEGEVENS Balk [N] [mm] t.b.v. profiel:3 B*H 600*900

Algemeen

Materiaal : C30/37

Doorsnede

breedte : 600 hoogte : 900 zwaartepunt tov onderkant : 413

Fictieve dikte : 323.3

Betonkwaliteit element	:	C30/37	Kruipcoëf.	:	2.470
Staalkwaliteit hoofdwapening	:	500	ε_{uk}	:	5.00
Staalkwaliteit beugels	:	500			

Betondekking		Boven	Onder
Milieu	:	XC4 (XF1)	XC4 (XF1)
Hoofdwapening	:	2de laag	2de laag
Nominale dekking	:	35	35
Toegepaste dekking	:	45	45
Toegepaste zijdekking	:	45	
Beugel / Verdeelwapening	:	1ste laag	1ste laag
Nominale dekking	:	35	35
Toegepaste dekking	:	35	35
Toegepaste zijdekking	:	35	

Wapening		Boven	Onder
Basiswapening buitenste laag	:	4*12	7x12
Basiswapening 2e laag	:	2*10	
H.o.h.afstand 2e laag	:	250	0

Beugels

Beugeldiameter : 10

Min. hoek betondrukdiagonaal θ : 21.8 z berekenen via: MRd

Hoofdwapening

Ligger:langsgevel bedding laag

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
1	3000	-294.86	-399.45	555	Ond	762	792	7x12	
2	3750	-294.86	-637.49	625	Ond	1066*	1471	13x12	54
3	4250	-357.82	-637.49	625	Ond	1154*	1471	13x12	1
4	4500	-366.31	-637.49	625	Ond	1182*	1471	13x12	1
5	5750	-376.38	-399.45	555	Ond	972	792	7x12	28
6	6000	-376.62	-399.45	555	Ond	973	792	7x12	28
7	6250	-377.07	-399.45	555	Ond	974	792	7x12	28
8	7250	-377.07	-399.45	555	Ond	974	792	7x12	28
9	7500	-376.62	-399.45	555	Ond	973	792	7x12	28
10	9000	-366.31	-637.49	625	Ond	1182*	1471	13x12	1
11	9255	-357.62	-637.49	625	Ond	1154*	1471	13x12	1
12	9750	-333.05	-637.49	625	Ond	1073*	1471	13x12	1
13	10500	-294.86	-399.45	555	Ond	762	792	7x12	

Hoofdwapening

Ligger:langsgevel bedding laag

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.

Opmerkingen
[1] * = Eisen met betrekking tot minimum wapening zijn toegepast, zie nationale bijlage art. 9.2.1.1(1).
[28] Berekening van Ab houdt geen rekening met wapening gedrukte zijde.
[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.
[93] De wapening bij de doorsnede overgang is niet getoetst vlg. NEN-EN 1992-1-1 art.9.9.

Dwarskrachtwapening

Ligger:langsgevel bedding laag

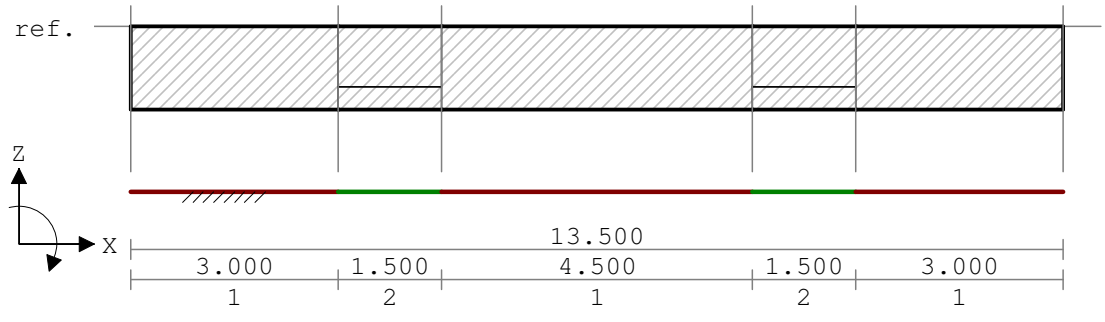
Geb.	Vanaf [mm]	Tot [mm]	Beugels	Lengte [mm]	A_{sw} [mm²/m]	V_{Ed} [kN]	A_{opg} [mm²]	Opm.
1	0	3000	Ø10-300(3s)	3000	613	96	8	
2	3000	3300	Ø10-300(3s)	300	613	192	8	
3	3300	3900	Ø10-300(3s)	600	613	338	6,8	
4	3900	4500	Ø10-300(3s)	600	613	186	8	
5	4500	9000	Ø10-300(3s)	4500	613	183	8	
6	9000	9600	Ø10-300(3s)	600	613	186	8	
7	9600	10200	Ø10-300(3s)	600	613	338	6,8	
8	10200	10500	Ø10-300(3s)	300	613	192	8	
9	10500	13500	Ø10-300(3s)	3000	613	96	8	

Opmerkingen
[6] 9.2.2 (4) 50% van de dwarskrachtwapening moet uit beugels bestaan.
[8] Er zijn meer dan 2 beugelsneden per doorsnede toegepast.

LIGGER:langsgevel bedding hoog

GEOMETRIE

Ligger:langsgevel bedding hoog



VELDLENGTEN

Ligger:langsgevel bedding hoog

Veld	Vanaf	Tot	Lengte
1	0.000	13.500	13.500

DOORSNEDEN

Ligger:langsgevel bedding hoog

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	3.000	3.000	1:B*H 700*900	0.000	1:B*H 700*900	0.000
2	3.000	4.500	1.500	2:B*H 1500*900	0.000	2:B*H 1500*900	0.000
3	4.500	9.000	4.500	1:B*H 700*900	0.000	1:B*H 700*900	0.000
4	9.000	10.500	1.500	2:B*H 1500*900	0.000	2:B*H 1500*900	0.000
5	10.500	13.500	3.000	1:B*H 700*900	0.000	1:B*H 700*900	0.000

sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	3.000	3.000	1:Vast	8000	700
2	3.000	4.500	1.500	1:Vast	15000	1500
3	4.500	9.000	4.500	1:Vast	8000	700
4	9.000	10.500	1.500	1:Vast	15000	1500
5	10.500	13.500	3.000	1:Vast	8000	700

PROFIELVORMEN [mm]

1 B*H 700*900



2 B*H 1500*900

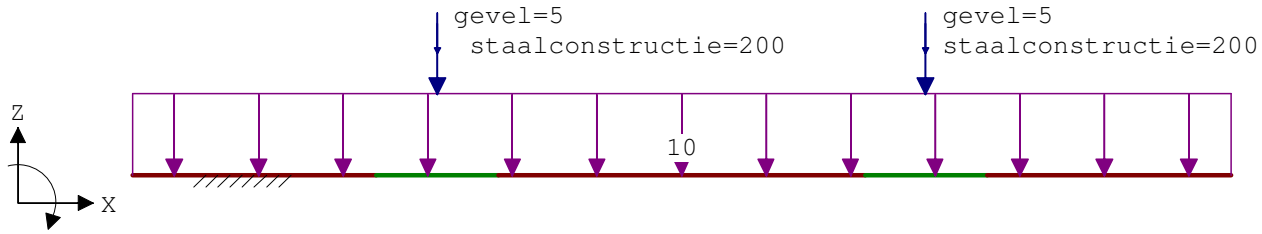


3 B*H 600*900



VELDBELASTINGEN

Ligger:langsgevel bedding hoog B.G:1 Permanent



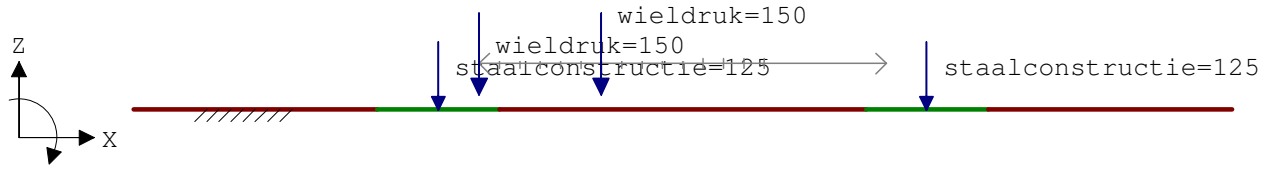
VELDBELASTINGEN

Ligger:langsgevel bedding hoog B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast	staalconstruct	-200.000			3.750	
2		8:Puntlast	staalconstructi	-200.000			9.750	
3		1:q-last		-10.000	-10.000		0.000	13.500
4		8:Puntlast	gevel	-5.000			3.750	
5		8:Puntlast	gevel	-5.000			9.750	

0.00 : (absoluut) grootste som reacties
-772.62 : (absoluut) grootste som belastingen

VELDBELASTINGEN Ligger:langsgevel bedding hoog B.G:2 Veranderlijk

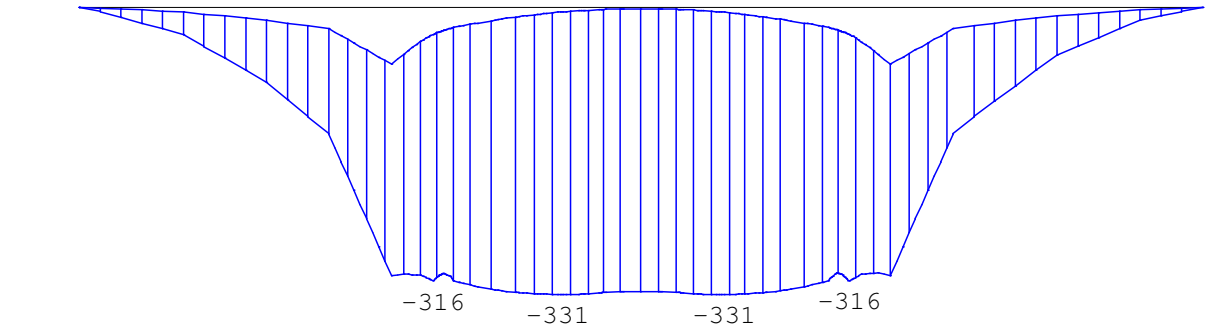


VELDBELASTINGEN Ligger:langsgevel bedding hoog B.G:2 Veranderlijk

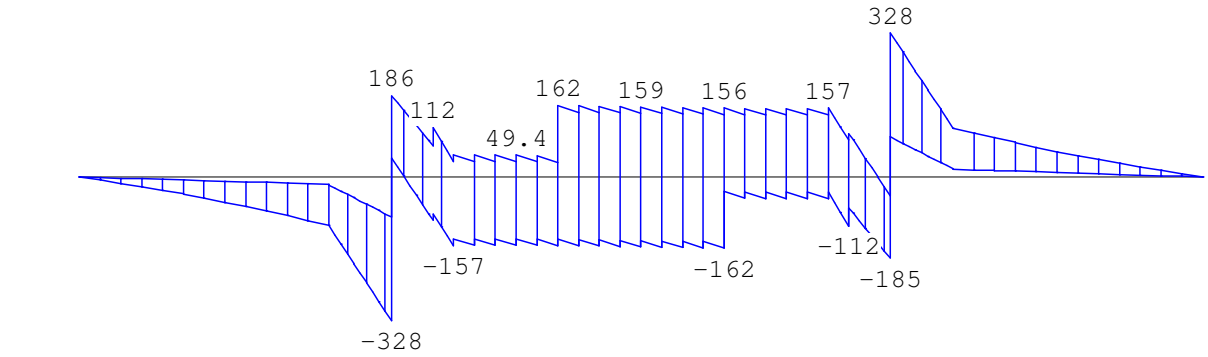
Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast	staalconstructi	-125.000			3.750	
2		8:Puntlast	staalconstructi	-125.000			9.750	
3		15:Pass.stelsel	wieldruk	-150.000	0.250		4.250	5.000
4		17:Meelopend	wieldruk	-150.000			1.500	

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

MOMENTEN Fysisch lineairLigger:langsgevelbeddinghoogFundamentelecombinatie



DWARSKRACHTEN FysischLigger:langsgevellineairbeddinghoogFundamentelecombinatie



TUSSENPUNTEN FysischLigger:langsgevellineairbeddinghoogFundamentelecombinatie

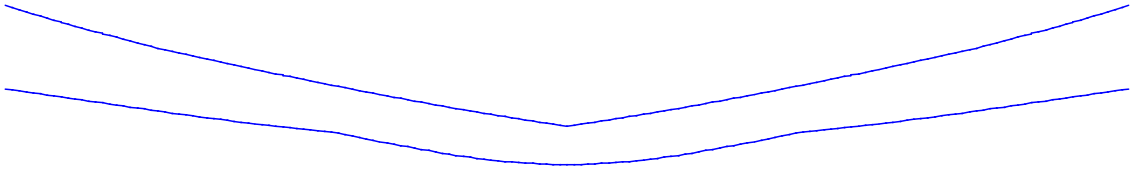
		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	33.655	72.775	0.00	0.00	0.00	0.00
1	0.300	37.603	76.788	-8.96	-1.54	-6.12	-0.96
1	0.600	40.257	80.798	-18.38	-3.14	-13.99	-2.26
1	0.900	40.763	84.799	-27.80	-4.75	-21.86	-3.56
1	1.200	41.265	88.782	-37.23	-6.35	-29.73	-4.85
1	1.500	41.762	92.732	-48.50	-8.18	-44.86	-7.46
1	1.800	42.248	96.618	-60.14	-10.06	-61.46	-10.32
1	2.100	42.719	100.421	-71.77	-11.94	-78.05	-13.18
1	2.400	43.170	104.108	-84.22	-13.92	-98.25	-16.61
1	2.700	43.595	107.641	-97.49	-16.00	-122.05	-20.60
1	3.000	82.474	208.084	-110.75	-18.08	-145.85	-24.59
1	3.000	82.474	208.084	-110.75	-18.08	-145.85	-24.59
1	3.150	82.813	211.043	-154.16	-32.66	-178.35	-32.68
1	3.300	83.134	213.903	-197.60	-47.24	-211.11	-40.86
1	3.450	83.435	216.647	-241.03	-61.83	-243.87	-49.03
1	3.600	83.710	219.257	-284.46	-76.41	-276.63	-57.21
1	3.750	83.953	221.709	-327.90	-90.99	-309.38	-65.39
1	3.750	83.953	221.709	43.55	185.57	-309.38	-65.39
1	3.900	84.160	223.982	1.34	151.63	-308.07	-53.98
1	4.017	84.297	225.608	-32.09	124.83	-308.37	-45.53
1	4.133	84.419	227.133	-65.52	98.02	-310.11	-37.58
1	4.250	84.529	228.555	-98.96	71.22	-316.14	-31.21
1	4.250	84.529	228.555	-84.42	112.37	-316.14	-31.21
1	4.380	84.639	230.014	-122.20	71.85	-306.89	-26.21
1	4.500	84.730	231.241	-156.90	34.44	-315.77	-23.02
1	4.500	84.730	231.241	-142.07	49.47	-315.77	-23.02
1	4.750	45.271	124.433	-156.22	34.79	-321.60	-18.58
1	4.750	45.271	124.433	-141.50	49.72	-321.60	-18.58
1	5.000	45.330	125.394	-155.83	34.87	-325.95	-14.54
1	5.000	45.330	125.394	-141.23	49.69	-325.95	-14.54
1	5.250	45.370	126.379	-155.73	34.65	-328.95	-10.95
1	5.250	45.370	126.379	-141.26	49.35	-328.95	-10.95
1	5.500	45.397	127.297	-155.91	34.15	-330.73	-8.08
1	5.500	45.397	127.297	-141.55	48.74	-330.73	-8.08
1	5.540	45.400	127.427	-143.94	46.26	-330.70	-7.65
1	5.750	45.415	128.095	-156.33	33.41	-331.38	-5.64
1	5.750	45.415	128.095	-142.05	162.30	-331.38	-5.64
1	6.000	45.425	128.731	-156.92	147.39	-331.00	-3.73
1	6.000	45.425	128.731	-142.71	161.84	-331.00	-3.73
1	6.250	45.430	129.172	-157.63	146.79	-329.66	-2.37
1	6.250	45.430	129.172	-143.46	161.12	-329.66	-2.37
1	6.500	45.433	129.482	-158.39	145.94	-327.78	-1.95
1	6.500	45.433	129.482	-144.22	160.20	-327.78	-1.95
1	6.750	45.434	129.594	-159.13	144.92	-327.71	-1.76
1	6.750	45.434	129.594	-144.92	159.13	-327.71	-1.76
1	6.960	45.433	129.500	-157.77	146.59	-327.65	-1.94
1	7.000	45.433	129.482	-160.20	144.22	-327.84	-1.97
1	7.000	45.433	129.482	-145.94	158.39	-327.84	-1.97

TUSSENPUNTEN FysischLigger:langsgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	7.250	45.430	129.172	-161.12	143.46	-329.66	-2.35
1	7.250	45.430	129.172	-146.79	157.63	-329.66	-2.35
1	7.500	45.425	128.731	-161.84	142.71	-331.00	-3.72
1	7.500	45.425	128.731	-147.39	156.92	-331.00	-3.72
1	7.750	45.415	128.095	-162.30	142.05	-331.38	-5.65
1	7.750	45.415	128.095	-33.41	156.33	-331.38	-5.65
1	8.000	45.397	127.297	-48.74	141.55	-330.73	-8.06
1	8.000	45.397	127.297	-34.15	155.91	-330.73	-8.06
1	8.250	45.370	126.379	-49.35	141.26	-328.95	-11.01
1	8.250	45.370	126.379	-34.65	155.73	-328.95	-11.01
1	8.500	45.330	125.394	-49.69	141.23	-325.95	-14.59
1	8.500	45.330	125.394	-34.87	155.83	-325.95	-14.59
1	8.750	45.271	124.433	-49.72	141.50	-321.60	-18.56
1	8.750	45.271	124.433	-34.79	156.22	-321.60	-18.56
1	9.000	84.730	231.241	-49.47	142.07	-315.77	-23.02
1	9.000	84.730	231.241	-34.44	156.90	-315.77	-23.02
1	9.105	84.651	230.167	-67.16	126.55	-306.39	-25.72
1	9.250	84.529	228.555	-112.37	84.42	-315.44	-31.23
1	9.250	84.529	228.555	-71.16	98.96	-315.44	-31.23
1	9.367	84.419	227.133	-97.98	65.71	-309.91	-37.67
1	9.483	84.297	225.608	-124.81	32.45	-307.46	-45.32
1	9.600	84.160	223.982	-151.63	-0.80	-306.42	-54.10
1	9.750	83.953	221.709	-185.57	-43.55	-309.38	-65.39
1	9.750	83.953	221.709	90.99	327.90	-309.38	-65.39
1	9.900	83.710	219.257	76.41	284.45	-276.48	-57.16
1	10.050	83.435	216.647	61.83	241.03	-243.82	-49.02
1	10.200	83.134	213.903	47.24	197.60	-211.16	-40.87
1	10.350	82.813	211.043	32.66	154.18	-178.51	-32.73
1	10.500	82.474	208.084	18.08	110.75	-145.85	-24.59
1	10.500	82.474	208.084	18.08	110.75	-145.85	-24.59
1	10.800	43.595	107.641	16.01	97.58	-122.45	-20.66
1	11.100	43.170	104.108	14.00	84.86	-101.05	-17.05
1	11.400	42.719	100.421	11.98	72.13	-79.65	-13.43
1	11.700	42.248	96.618	9.97	59.41	-58.25	-9.82
1	12.000	41.762	92.732	8.18	48.51	-44.62	-7.47
1	12.300	41.265	88.782	6.44	37.97	-32.53	-5.38
1	12.600	40.763	84.799	4.70	27.43	-20.45	-3.29
1	12.900	40.257	80.798	3.06	17.73	-11.53	-1.80
1	13.200	37.603	76.788	1.53	8.87	-5.76	-0.90
1	13.500	33.655	72.775	0.00	0.00	0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGENLigger:langsgevel[mm]Fys.NLE.kortbeddinghoogKarakteristiekecombinatie



-13.4

N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

Hoofdwapening

Ligger:langsgevel bedding hoog

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
1	3000	-309.38	-399.45	555	Ond	799	792	7x12	28
2	3750	-309.38	-637.49	625	Ond	1066*	1471	13x12	54
3	4250	-328.42	-637.49	625	Ond	1066*	1471	13x12	54
4	4500	-330.40	-637.49	625	Ond	1066*	1471	13x12	54
5	5500	-330.73	-399.45	555	Ond	855	792	7x12	28
6	5750	-331.38	-399.45	555	Ond	857	792	7x12	28
7	7750	-331.38	-399.45	555	Ond	857	792	7x12	28
8	9000	-330.40	-637.49	625	Ond	1066*	1471	13x12	54
9	9256	-328.34	-637.49	625	Ond	1066*	1471	13x12	54
10	9750	-320.49	-637.49	625	Ond	1066*	1471	13x12	54
11	10500	-309.38	-399.45	555	Ond	799	792	7x12	28

Opmerkingen

[28] Berekening van Ab houdt geen rekening met wapening gedrukte zijde.

[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.

[93] De wapening bij de doorsnede overgang is niet getoetst vlg. NEN-EN 1992-1-1 art.9.9.

Dwarskrachtwapening

Ligger:langsgevel bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	Beugels	Lengte [mm]	A_{sw} [mm²/m]	V_{Ed} [kN]	A_{opg} [mm²]	Opm.
1	0	3000	Ø10-300(3s)	3000	613	111	8	
2	3000	3300	Ø10-300(3s)	300	613	197	8	
3	3300	3900	Ø10-300(3s)	600	613	328	6,8	
4	3900	4500	Ø10-300(3s)	600	613	156	8	
5	4500	9000	Ø10-300(3s)	4500	613	162	8	
6	9000	9600	Ø10-300(3s)	600	613	156	8	
7	9600	10200	Ø10-300(3s)	600	613	328	6,8	
8	10200	10500	Ø10-300(3s)	300	613	197	8	
9	10500	13500	Ø10-300(3s)	3000	613	111	8	

Dwarskrachtwapening

Ligger:langsgevel bedding hoog

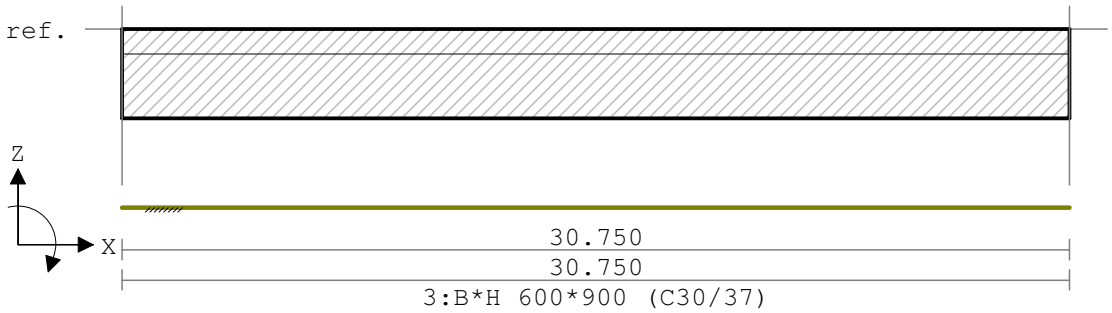
Geb.	Vanaf [mm]	Tot [mm]	Beugels	Lengte [mm]	A_{sw} [mm²/m]	V_{Ed} [kN]	A_{opg} [mm²]	Opm.

Opmerkingen
[6] 9.2.2 (4) 50% van de dwarskrachtwapening moet uit beugels bestaan.
[8] Er zijn meer dan 2 beugelsneden per doorsnede toegepast.

LIGGER:kopgevel bedding laag

GEOMETRIE

Ligger:kopgevel bedding laag



VELDLENGTEN

Ligger:kopgevel bedding laag

Veld	Vanaf	Tot	Lengte
1	0.000	30.750	30.750

DOORSNEDEN

Ligger:kopgevel bedding laag

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	30.750	30.750	3:B*H 600*900	0.000	3:B*H 600*900	0.000

sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	30.750	30.750	1:Vast	5000	600

PROFIELVORMEN [mm]

1 B*H 700*900



2 B*H 1500*900

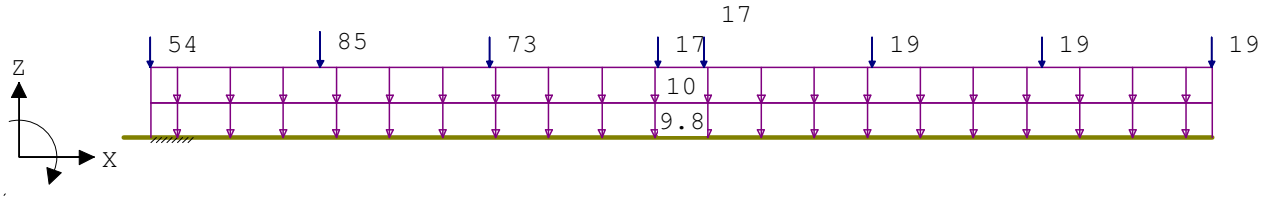


3 B*H 600*900



VELDBELASTINGEN

Ligger:kopgevel bedding laag B.G:1 Permanent



VELDBELASTINGEN

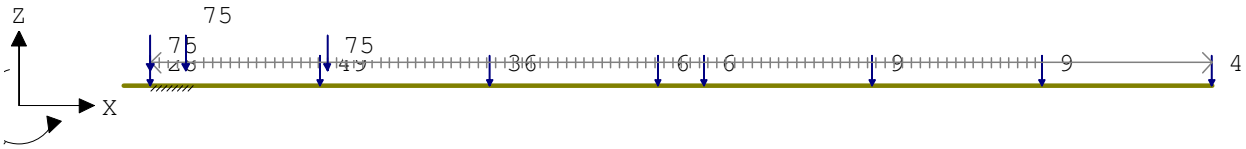
Ligger:kopgevel bedding laag B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		1:q-last		-9.800	-9.800		0.750	30.000
2		1:q-last		-10.000	-10.000		0.750	30.000
3		8:Puntlast		-54.000			0.750	
4		8:Puntlast		-85.000			5.550	
5		8:Puntlast		-73.000			10.350	
6		8:Puntlast		-17.000			15.100	
7		8:Puntlast		-17.000			16.400	
8		8:Puntlast		-19.000			21.150	
9		8:Puntlast		-19.000			25.950	
10		8:Puntlast		-19.000			30.750	

0.00 : (absoluut) grootste som reacties
-1269.84 : (absoluut) grootste som belastingen

VELDBELASTINGEN

Ligger:kopgevel bedding laag B.G:2 Veranderlijk



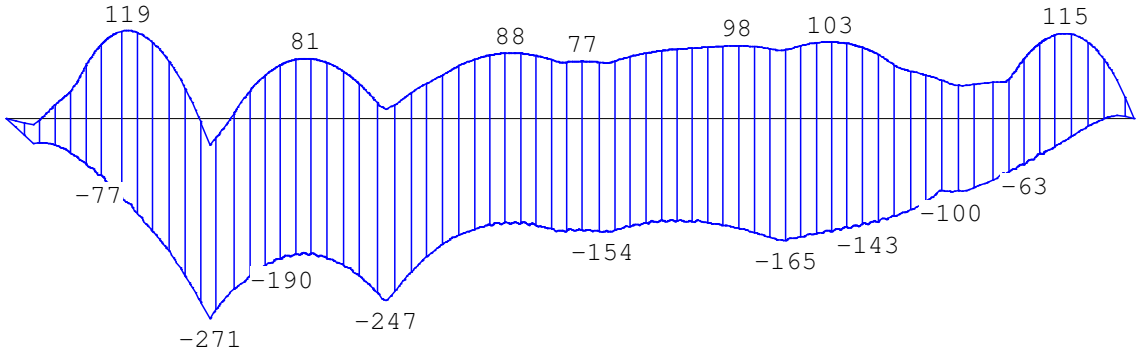
VELDBELASTINGEN

Ligger:kopgevel bedding laag B.G:2 Veranderlijk

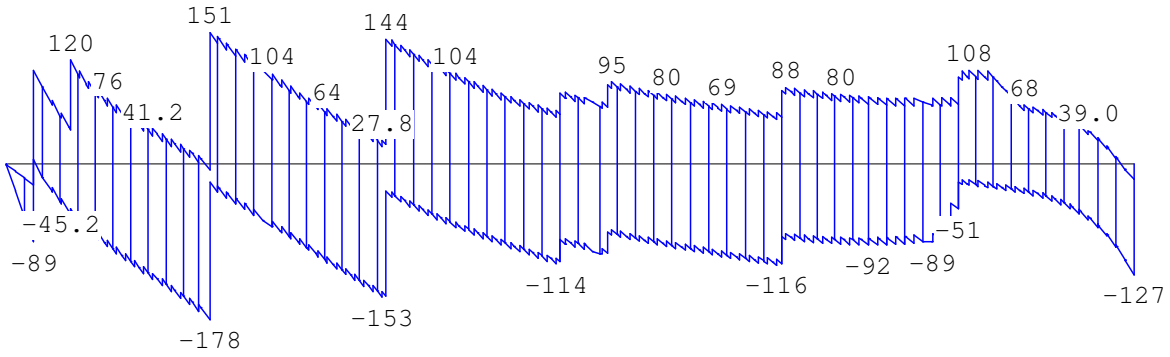
Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast		-28.000			0.750	
2		8:Puntlast		-49.000			5.550	
3		8:Puntlast		-36.000			10.350	
4		8:Puntlast		-6.000			15.100	
5		8:Puntlast		-6.000			16.400	
6		8:Puntlast		-9.000			21.150	
7		8:Puntlast		-9.000			25.950	
8		8:Puntlast		-4.000			30.750	
9		15:Pass.stelsel		-75.000	0.250		0.750	30.000
10		17:Meelopend		-75.000			1.000	
11		17:Meelopend		-75.000			5.000	

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

MOMENTEN Fysisch lineairLigger:kopgevelbeddinglaagFundamentele combinatie



DWARSKRACHTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie



TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	70.339	226.457	0.00	0.00	0.00	0.00
1	0.375	70.398	220.459	-45.29	-11.75	-16.93	-4.40
1	0.750	70.451	214.438	-89.38	-23.49	-33.86	-8.81
1	0.750	70.451	214.438	5.44	107.99	-33.86	-8.81
1	0.990	70.476	210.551	-15.25	88.74	-32.63	1.76
1	1.250	70.500	206.329	-31.63	67.77	-34.94	14.67
1	1.250	70.500	206.329	-26.29	73.28	-34.94	14.67
1	1.500	70.525	202.278	-45.23	52.88	-40.32	25.93
1	1.500	70.525	202.278	-39.29	59.01	-40.32	25.93
1	1.513	70.526	202.072	-40.20	58.02	-40.31	26.46
1	1.750	70.557	198.251	-57.20	39.72	-47.55	36.82
1	1.750	70.557	198.251	-50.79	119.91	-47.55	36.82
1	2.000	70.599	194.262	-67.85	99.10	-56.23	56.03
1	2.000	70.599	194.262	-61.06	106.91	-56.23	56.03
1	2.250	70.655	190.334	-77.41	87.21	-66.02	78.26
1	2.250	70.655	190.334	-70.33	95.38	-66.02	78.26

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	2.500	70.725	186.493	-86.09	76.62	-76.68	95.51
1	2.500	70.725	186.493	-78.81	85.06	-76.68	95.51
1	2.513	70.730	186.298	-79.62	84.15	-76.68	96.27
1	2.750	70.812	182.757	-94.53	67.52	-88.05	107.92
1	2.750	70.812	182.757	-87.10	76.14	-88.05	107.92
1	3.000	70.914	179.141	-102.70	59.50	-100.00	115.64
1	3.000	70.914	179.141	-95.18	68.24	-100.00	115.64
1	3.250	71.030	175.651	-110.48	52.14	-112.50	118.79
1	3.250	71.030	175.651	-102.93	60.93	-112.50	118.79
1	3.302	71.056	174.944	-106.05	57.69	-113.79	118.88
1	3.500	71.159	172.293	-118.00	45.26	-125.54	117.51
1	3.500	71.159	172.293	-110.43	54.07	-125.54	117.51
1	3.750	71.298	169.064	-125.34	38.73	-139.12	111.92
1	3.750	71.298	169.064	-117.78	47.52	-139.12	111.92
1	4.000	71.442	165.958	-132.57	32.44	-153.30	102.15
1	4.000	71.442	165.958	-125.05	41.17	-153.30	102.15
1	4.250	71.587	163.244	-139.75	26.30	-169.07	89.23
1	4.250	71.587	163.244	-131.70	34.96	-169.07	89.23
1	4.500	71.727	161.351	-146.32	20.24	-184.34	72.68
1	4.500	71.727	161.351	-139.53	28.80	-184.34	72.68
1	4.750	71.854	160.168	-154.13	14.20	-203.16	52.45
1	4.750	71.854	160.168	-146.80	22.66	-203.16	52.45
1	5.000	71.962	159.384	-161.37	8.14	-222.95	28.67
1	5.000	71.962	159.384	-154.11	16.50	-222.95	28.67
1	5.250	72.040	158.818	-168.67	2.04	-244.01	1.43
1	5.250	72.040	158.818	-160.85	10.28	-244.01	1.43
1	5.550	72.086	158.284	-178.30	-6.99	-270.95	-35.67
1	5.550	72.086	158.284	-20.78	151.38	-270.95	-35.67
1	5.750	72.074	157.952	-31.82	139.32	-256.44	-23.74
1	5.750	72.074	157.952	-24.77	146.70	-256.44	-23.74
1	6.000	72.023	157.574	-38.52	131.69	-241.48	-8.45
1	6.000	72.023	157.574	-31.53	139.60	-241.48	-8.45
1	6.250	71.935	157.112	-45.23	124.65	-229.41	10.44
1	6.250	71.935	157.112	-38.30	132.47	-229.41	10.44
1	6.500	71.818	156.667	-51.96	117.57	-220.74	28.45
1	6.500	71.818	156.667	-45.08	125.92	-220.74	28.45
1	6.750	71.679	156.282	-58.67	111.08	-209.12	43.62
1	6.750	71.679	156.282	-51.83	118.12	-209.12	43.62
1	7.250	71.351	155.237	-72.03	96.25	-194.78	65.90
1	7.250	71.351	155.237	-65.26	103.76	-194.78	65.90
1	7.470	71.193	154.788	-77.04	90.91	-189.85	72.45
1	7.500	71.171	154.724	-78.65	89.15	-189.91	73.20
1	7.500	71.171	154.724	-71.91	96.60	-189.91	73.20
1	7.673	71.042	154.360	-81.10	86.58	-185.98	76.81
1	7.750	70.984	154.194	-85.22	82.07	-186.64	78.07
1	7.750	70.984	154.194	-78.51	89.47	-186.64	78.07
1	7.879	70.885	153.914	-85.34	82.05	-183.63	79.67
1	8.000	70.790	153.646	-91.77	75.06	-184.98	80.62
1	8.000	70.790	153.646	-85.07	82.42	-184.98	80.62
1	8.078	70.729	153.471	-89.37	78.16	-182.01	80.95

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	8.152	70.670	153.304	-93.49	74.09	-182.79	81.06
1	8.250	70.592	153.080	-98.90	68.74	-184.97	80.92
1	8.250	70.592	153.080	-92.22	76.06	-184.97	80.92
1	8.319	70.535	152.920	-96.03	72.29	-182.45	80.62
1	8.500	70.387	152.496	-105.96	62.46	-186.60	79.07
1	8.500	70.387	152.496	-99.28	69.75	-186.60	79.07
1	8.596	70.306	152.265	-104.54	64.55	-185.37	77.80
1	8.750	70.175	151.889	-112.93	56.24	-189.89	75.15
1	8.750	70.175	151.889	-106.26	63.51	-189.89	75.15
1	8.761	70.165	151.862	-106.84	62.94	-189.86	74.94
1	9.000	69.952	151.257	-119.82	50.08	-194.84	69.25
1	9.000	69.952	151.257	-113.15	57.33	-194.84	69.25
1	9.250	69.717	150.594	-126.60	44.00	-201.06	61.44
1	9.250	69.717	150.594	-119.93	51.23	-201.06	61.44
1	9.500	69.464	149.894	-133.29	37.99	-209.70	51.79
1	9.500	69.464	149.894	-126.62	45.21	-209.70	51.79
1	9.750	69.188	149.151	-139.86	32.07	-219.59	40.39
1	9.750	69.188	149.151	-133.19	39.29	-219.59	40.39
1	10.000	68.884	148.358	-146.31	26.26	-231.09	27.29
1	10.000	68.884	148.358	-139.63	33.47	-231.09	27.29
1	10.250	68.544	147.496	-152.64	20.55	-244.18	15.35
1	10.250	68.544	147.496	-145.95	27.76	-244.18	15.35
1	10.350	68.401	147.139	-151.10	22.63	-246.60	12.59
1	10.350	68.401	147.139	-30.61	143.88	-246.60	12.59
1	10.500	68.162	146.554	-37.96	135.85	-239.72	16.06
1	10.500	68.162	146.554	-31.27	143.06	-239.72	16.06
1	10.750	67.740	145.538	-43.39	129.80	-224.20	24.27
1	10.750	67.740	145.538	-36.70	137.01	-224.20	24.27
1	11.000	67.285	144.464	-48.67	123.91	-209.88	33.65
1	11.000	67.285	144.464	-41.97	131.12	-209.88	33.65
1	11.250	66.806	143.348	-53.80	118.18	-197.16	41.69
1	11.250	66.806	143.348	-47.08	125.40	-197.16	41.69
1	11.500	66.310	142.206	-58.76	112.63	-185.86	48.57
1	11.500	66.310	142.206	-52.04	119.85	-185.86	48.57
1	11.750	65.802	141.050	-63.56	107.25	-175.92	55.02
1	11.750	65.802	141.050	-56.84	114.48	-175.92	55.02
1	12.000	65.289	139.891	-68.20	102.06	-167.31	61.82
1	12.000	65.289	139.891	-61.47	109.29	-167.31	61.82
1	12.250	64.774	138.741	-72.68	97.04	-160.58	68.84
1	12.250	64.774	138.741	-65.94	104.27	-160.58	68.84
1	12.500	64.263	137.606	-77.00	92.19	-155.09	74.87
1	12.500	64.263	137.606	-70.25	99.43	-155.09	74.87
1	12.750	63.759	136.494	-81.16	87.52	-150.67	79.74
1	12.750	63.759	136.494	-74.41	94.77	-150.67	79.74
1	12.919	63.423	135.760	-81.67	86.84	-147.25	82.41
1	13.000	63.263	135.411	-85.17	83.02	-147.27	83.48
1	13.000	63.263	135.411	-78.42	90.27	-147.27	83.48
1	13.120	63.029	134.900	-83.51	84.71	-143.76	84.91
1	13.250	62.779	134.361	-89.03	78.68	-144.39	86.13
1	13.250	62.779	134.361	-82.28	85.94	-144.39	86.13

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	13.371	62.548	133.862	-87.36	80.39	-141.43	87.06
1	13.500	62.308	133.347	-92.76	74.50	-143.40	87.73
1	13.500	62.308	133.347	-85.99	81.76	-143.40	87.73
1	13.600	62.121	132.947	-90.17	77.28	-140.37	88.10
1	13.734	61.878	132.432	-95.80	71.27	-142.52	88.31
1	13.750	61.850	132.372	-96.45	70.57	-142.86	88.31
1	13.750	61.850	132.372	-89.68	77.84	-142.86	88.31
1	13.861	61.649	131.947	-94.42	73.06	-140.33	88.26
1	14.000	61.405	131.437	-100.31	67.10	-143.19	87.90
1	14.000	61.405	131.437	-93.55	74.37	-143.19	87.90
1	14.066	61.289	131.194	-96.32	71.57	-140.24	87.62
1	14.250	60.974	130.539	-104.05	63.76	-144.38	86.54
1	14.250	60.974	130.539	-97.28	71.03	-144.38	86.54
1	14.331	60.835	130.252	-100.64	67.62	-141.95	85.89
1	14.500	60.554	129.677	-107.64	60.54	-146.37	84.27
1	14.500	60.554	129.677	-100.87	67.81	-146.37	84.27
1	14.542	60.484	129.534	-102.60	66.06	-146.09	83.77
1	14.750	60.146	128.849	-111.12	57.43	-148.88	81.10
1	14.750	60.146	128.849	-104.35	64.70	-148.88	81.10
1	15.000	59.745	128.051	-114.47	54.44	-152.69	77.07
1	15.000	59.745	128.051	-107.70	61.71	-152.69	77.07
1	15.100	59.586	127.736	-111.70	57.63	-151.60	75.79
1	15.100	59.586	127.736	-86.12	81.92	-151.60	75.79
1	15.112	59.568	127.700	-86.58	81.42	-151.48	75.78
1	15.166	59.483	127.537	-88.68	79.14	-152.15	75.73
1	15.250	59.351	127.284	-91.92	75.62	-153.45	76.06
1	15.250	59.351	127.284	-85.15	82.89	-153.45	76.06
1	15.328	59.230	127.048	-88.11	79.66	-150.10	76.50
1	15.375	59.156	126.904	-89.92	77.68	-150.16	76.73
1	15.375	59.156	126.904	-89.92	77.68	-150.16	76.73
1	15.500	58.963	126.529	-94.71	72.49	-152.27	77.13
1	15.500	58.963	126.529	-87.94	79.77	-152.27	77.13
1	15.610	58.794	126.205	-92.09	75.25	-150.27	77.28
1	15.702	58.653	125.940	-95.60	71.44	-151.31	77.34
1	15.750	58.581	125.803	-97.40	69.48	-152.38	77.32
1	15.750	58.581	125.803	-90.63	76.75	-152.38	77.32
1	15.871	58.398	125.466	-95.33	73.96	-150.61	77.11
1	15.990	58.220	125.141	-99.92	71.23	-152.56	76.80
1	16.028	58.164	125.040	-100.38	70.36	-152.29	76.66
1	16.250	57.836	124.448	-103.12	64.37	-153.92	75.50
1	16.250	57.836	124.448	-96.35	71.64	-153.92	75.50
1	16.355	57.683	124.174	-100.31	67.58	-152.15	74.93
1	16.370	57.660	124.132	-100.91	66.97	-152.31	74.86
1	16.400	57.617	124.055	-102.03	65.82	-152.61	75.09
1	16.400	57.617	124.055	-77.85	91.49	-152.61	75.09
1	16.500	57.472	123.801	-81.53	87.51	-153.28	76.31
1	16.500	57.472	123.801	-74.76	94.78	-153.28	76.31
1	16.750	57.115	123.179	-83.88	84.89	-149.72	80.26
1	16.750	57.115	123.179	-77.11	92.16	-149.72	80.26

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	16.886	56.923	122.849	-82.03	86.82	-146.19	82.17
1	17.000	56.767	122.586	-86.14	82.36	-146.73	83.70
1	17.000	56.767	122.586	-79.37	89.63	-146.73	83.70
1	17.128	56.592	122.291	-83.97	84.64	-143.65	85.23
1	17.250	56.431	122.025	-88.33	79.92	-144.30	86.59
1	17.250	56.431	122.025	-81.56	87.18	-144.30	86.59
1	17.400	56.233	121.701	-86.89	81.40	-141.60	88.05
1	17.500	56.107	121.500	-90.45	77.55	-142.40	88.97
1	17.500	56.107	121.500	-83.68	84.81	-142.40	88.97
1	17.580	56.007	121.340	-86.49	81.77	-138.95	89.61
1	17.750	55.799	121.012	-92.50	75.26	-141.02	90.89
1	17.750	55.799	121.012	-85.73	82.52	-141.02	90.89
1	17.849	55.682	120.830	-89.18	78.78	-137.84	91.51
1	18.000	55.508	120.564	-94.49	73.04	-139.59	92.40
1	18.000	55.508	120.564	-87.71	80.30	-139.59	92.40
1	18.121	55.372	120.360	-91.91	75.75	-137.56	93.00
1	18.250	55.234	120.157	-96.42	70.88	-139.75	93.57
1	18.250	55.234	120.157	-89.64	78.14	-139.75	93.57
1	18.362	55.115	119.984	-93.53	73.93	-137.88	94.02
1	18.500	54.978	119.789	-98.30	68.78	-139.84	94.49
1	18.500	54.978	119.789	-91.51	76.03	-139.84	94.49
1	18.650	54.831	119.583	-96.70	70.47	-138.88	94.96
1	18.750	54.741	119.461	-100.15	66.76	-140.38	95.24
1	18.750	54.741	119.461	-93.36	74.02	-140.38	95.24
1	18.840	54.659	119.352	-96.52	70.76	-137.77	95.49
1	19.000	54.522	119.172	-102.13	64.96	-140.70	95.93
1	19.000	54.522	119.172	-95.33	72.22	-140.70	95.93
1	19.250	54.322	118.920	-104.05	63.19	-142.82	96.68
1	19.250	54.322	118.920	-97.24	70.46	-142.82	96.68
1	19.400	54.209	118.782	-102.45	65.06	-142.49	97.25
1	19.500	54.140	118.702	-105.92	61.46	-144.68	97.65
1	19.500	54.140	118.702	-99.09	68.73	-144.68	97.65
1	19.546	54.109	118.666	-100.67	67.09	-144.36	97.81
1	19.750	53.976	118.516	-107.74	59.76	-146.95	98.30
1	19.750	53.976	118.516	-100.88	67.04	-146.95	98.30
1	19.900	53.883	118.414	-106.06	61.67	-148.34	98.41
1	20.000	53.827	118.357	-109.51	58.09	-149.62	98.37
1	20.000	53.827	118.357	-102.62	65.38	-149.62	98.37
1	20.250	53.694	118.221	-111.21	56.45	-152.53	97.83
1	20.250	53.694	118.221	-104.30	63.76	-152.53	97.83
1	20.500	53.575	118.103	-112.86	54.85	-156.08	96.66
1	20.500	53.575	118.103	-105.91	62.17	-156.08	96.66
1	20.750	53.467	117.998	-114.45	53.27	-159.82	94.82
1	20.750	53.467	117.998	-107.17	60.62	-159.82	94.82
1	21.000	53.369	117.901	-115.66	51.73	-163.89	92.55
1	21.000	53.369	117.901	-108.91	59.11	-163.89	92.55
1	21.150	53.314	117.844	-113.98	53.79	-164.74	92.23
1	21.150	53.314	117.844	-82.96	84.69	-164.74	92.23
1	21.250	53.279	117.804	-86.31	81.07	-165.31	92.85
1	21.250	53.279	117.804	-79.19	88.49	-165.31	92.85

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	21.376	53.236	117.755	-83.36	83.96	-161.78	94.39
1	21.500	53.197	117.705	-87.49	79.47	-162.60	96.28
1	21.500	53.197	117.705	-80.30	86.92	-162.60	96.28
1	21.662	53.148	117.641	-85.65	81.10	-159.64	98.45
1	21.750	53.124	117.609	-88.57	77.92	-160.09	99.48
1	21.750	53.124	117.609	-81.30	85.42	-160.09	99.48
1	21.898	53.086	117.557	-86.17	80.12	-156.36	100.95
1	22.000	53.063	117.526	-89.55	76.43	-156.95	101.77
1	22.000	53.063	117.526	-82.18	84.39	-156.95	101.77
1	22.156	53.030	117.479	-87.31	78.80	-154.95	102.72
1	22.250	53.014	117.452	-90.40	75.44	-155.51	103.10
1	22.250	53.014	117.452	-82.93	82.65	-155.51	103.10
1	22.350	52.996	117.424	-86.20	79.07	-151.58	103.34
1	22.446	52.985	117.374	-89.33	75.64	-152.30	103.41
1	22.500	52.979	117.346	-91.11	73.69	-153.33	103.38
1	22.500	52.979	117.346	-83.53	81.39	-153.33	103.38
1	22.630	52.966	117.302	-87.77	76.75	-149.63	103.10
1	22.750	52.960	117.311	-91.69	72.45	-151.12	102.57
1	22.750	52.960	117.311	-83.97	80.24	-151.12	102.57
1	22.848	52.955	117.314	-87.17	76.73	-146.82	101.93
1	23.000	52.957	117.294	-92.11	71.30	-148.31	100.58
1	23.000	52.957	117.294	-84.24	79.19	-148.31	100.58
1	23.115	52.961	117.283	-87.97	75.10	-144.37	99.25
1	23.250	52.971	117.277	-92.36	70.26	-146.33	97.34
1	23.250	52.971	117.277	-84.34	78.25	-146.33	97.34
1	23.366	52.983	117.278	-88.09	74.13	-141.90	95.40
1	23.500	53.003	117.288	-92.45	69.33	-143.26	92.77
1	23.500	53.003	117.288	-84.26	77.44	-143.26	92.77
1	23.675	53.037	117.319	-89.92	71.20	-139.05	88.73
1	23.750	53.053	117.335	-92.36	68.51	-140.43	86.78
1	23.750	53.053	117.335	-83.98	76.75	-140.43	86.78
1	23.893	53.091	117.387	-88.70	71.70	-135.01	82.67
1	24.000	53.122	117.431	-92.21	67.93	-136.81	79.28
1	24.000	53.122	117.431	-83.64	76.31	-136.81	79.28
1	24.163	53.178	117.530	-89.03	70.59	-131.60	73.55
1	24.250	53.209	117.588	-91.93	67.51	-132.58	70.71
1	24.250	53.209	117.588	-83.15	76.04	-132.58	70.71
1	24.438	53.287	117.764	-89.40	69.42	-127.52	66.71
1	24.500	53.314	117.825	-91.48	67.21	-127.62	65.87
1	24.500	53.314	117.825	-82.49	75.90	-127.62	65.87
1	24.750	53.437	118.162	-90.89	67.03	-121.82	62.95
1	24.750	53.437	118.162	-81.05	75.88	-121.82	62.95
1	25.250	53.733	119.263	-89.38	66.95	-107.13	55.81
1	25.250	53.733	119.263	-79.72	76.15	-107.13	55.81
1	25.448	53.866	119.907	-86.68	68.93	-97.39	52.44
1	25.500	53.903	120.113	-88.53	67.01	-97.99	51.48
1	25.500	53.903	120.113	-78.65	76.38	-97.99	51.48
1	25.750	54.087	121.275	-87.68	67.09	-99.65	46.89
1	25.750	54.087	121.275	-44.67	76.64	-99.65	46.89
1	25.950	54.242	122.427	-50.88	69.07	-97.99	44.82
1	25.950	54.242	122.427	-20.18	100.28	-97.99	44.82

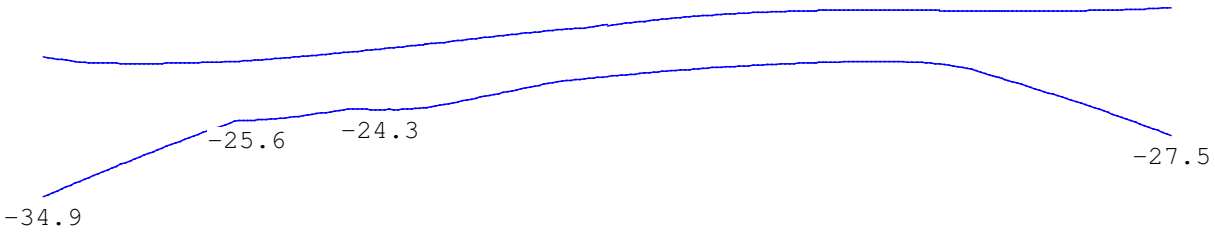
TUSSENPUNTEN FysischLigger:kopgevellineairbeddinglaagFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	25.977	54.264	122.630	-20.99	99.23	-97.78	44.67
1	26.050	54.324	123.180	-23.17	96.37	-99.07	44.29
1	26.050	54.324	123.180	-17.73	106.74	-99.07	44.29
1	26.250	54.490	124.832	-23.80	98.78	-96.39	45.40
1	26.250	54.490	124.832	-17.59	107.97	-96.39	45.40
1	26.500	54.710	127.396	-25.25	97.73	-91.61	46.95
1	26.500	54.710	127.396	-19.00	107.72	-91.61	46.95
1	26.750	54.945	130.134	-26.74	97.09	-86.58	48.15
1	26.750	54.945	130.134	-20.44	107.18	-86.58	48.15
1	27.000	55.198	132.875	-28.27	96.07	-81.26	48.85
1	27.000	55.198	132.875	-21.95	96.07	-81.26	48.85
1	27.168	55.377	134.728	-27.31	88.39	-74.09	49.00
1	27.250	55.470	135.640	-29.90	84.67	-75.58	49.57
1	27.250	55.470	135.640	-23.56	84.67	-75.58	49.57
1	27.469	55.725	138.103	-30.68	74.72	-68.87	62.02
1	27.487	55.747	138.311	-31.27	73.89	-69.12	63.35
1	27.500	55.762	138.454	-31.67	73.32	-68.96	64.26
1	27.500	55.762	138.454	-25.34	73.32	-68.96	64.26
1	27.695	56.005	140.694	-31.83	64.49	-61.92	77.49
1	27.750	56.076	141.339	-33.65	62.01	-63.03	80.88
1	27.750	56.076	141.339	-27.36	68.01	-63.03	80.88
1	27.972	56.374	143.975	-34.96	60.51	-55.43	93.01
1	28.000	56.412	144.313	-35.91	59.56	-55.55	94.35
1	28.000	56.412	144.313	-29.69	65.50	-55.55	94.35
1	28.166	56.648	146.344	-35.65	59.75	-47.45	101.52
1	28.250	56.771	147.390	-38.65	56.86	-48.55	104.57
1	28.250	56.771	147.390	-32.54	62.69	-48.55	104.57
1	28.500	57.153	150.584	-42.06	53.88	-41.26	111.42
1	28.500	57.153	150.584	-36.12	59.56	-41.26	111.42
1	28.750	57.408	153.900	-46.11	50.33	-33.45	114.77
1	28.750	57.408	153.900	-40.40	55.79	-33.45	114.77
1	28.867	57.447	155.485	-45.33	51.25	-29.48	115.11
1	29.000	57.382	157.343	-50.97	46.06	-25.60	114.51
1	29.000	57.382	157.343	-45.56	51.23	-25.60	114.51
1	29.250	57.202	160.912	-56.82	40.89	-17.93	110.50
1	29.250	57.202	160.912	-51.80	45.69	-17.93	110.50
1	29.500	56.940	164.603	-63.87	34.63	-10.38	102.60
1	29.500	56.940	164.603	-59.35	38.96	-10.38	102.60
1	29.750	56.584	168.408	-72.39	27.03	-4.47	90.71
1	29.750	56.584	168.408	-68.25	30.78	-4.47	90.71
1	30.000	56.147	172.313	-82.47	17.84	1.41	74.64
1	30.000	56.147	172.313	-79.47	21.05	1.41	74.64
1	30.250	55.622	176.301	-94.95	6.86	3.41	54.21
1	30.250	55.622	176.301	-92.67	8.94	3.41	54.21
1	30.270	55.579	176.620	-94.05	7.72	3.49	52.45
1	30.500	55.013	180.349	-109.92	-6.58	3.42	29.35
1	30.500	55.013	180.349	-109.92	-5.39	3.42	29.35
1	30.750	54.328	184.430	-127.17	-17.10	-0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGEN

[mm]Ligger:kopgevelFys.NLE.kortbeddinglaagKarakteristiekecombinatie



N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

Hoofdwapening

Ligger:kopgevel bedding laag

Geb.	Pos. [mm]	$M_{E\,d}$ [kNm]	$M_{R\,d}$ [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
1	750	-33.86	-321.09	732	Ond	587*	792	7x12	54
2	1500	-73.46	-321.09	732	Ond	587*	792	7x12	54
3	2500	-121.37	-321.09	732	Ond	587*	792	7x12	54
4	3302	118.88	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
5	5550	-270.95	-321.09	732	Ond	704	792	7x12	
6	7500	-218.02	-321.09	732	Ond	587*	792	7x12	54
7	7750	-207.32	-321.09	732	Ond	587*	792	7x12	54
8	8000	-199.32	-321.09	732	Ond	587*	792	7x12	54
9	8250	-199.45	-321.09	732	Ond	587*	792	7x12	54
10	8152	81.06	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
11	8500	-207.23	-321.09	732	Ond	587*	792	7x12	54
12	8750	-217.17	-321.09	732	Ond	587*	792	7x12	54
13	10350	-246.60	-321.09	732	Ond	639	792	7x12	
14	13734	88.31	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
15	13000	-165.49	-321.09	732	Ond	587*	792	7x12	54
16	13242	-159.61	-321.09	732	Ond	587*	792	7x12	54
17	13500	-154.07	-321.09	732	Ond	587*	792	7x12	54
18	13750	-149.70	-321.09	732	Ond	587*	792	7x12	54
19	14000	-151.27	-321.09	732	Ond	587*	792	7x12	54
20	14250	-152.70	-321.09	732	Ond	587*	792	7x12	54
21	14500	-151.70	-321.09	732	Ond	587*	792	7x12	54
22	15000	-152.69	-321.09	732	Ond	587*	792	7x12	54
23	15250	-153.45	-321.09	732	Ond	587*	792	7x12	54
24	15491	-152.92	-321.09	732	Ond	587*	792	7x12	54
25	15750	-152.38	-321.09	732	Ond	587*	792	7x12	54
26	15702	81.14	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
27	15990	-152.56	-321.09	732	Ond	587*	792	7x12	54

Hoofdwapening

Ligger:kopgevel bedding laag

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
28	16250	-153.92	-321.09	732	Ond	587*	792	7x12	54
29	16500	-153.28	-321.09	732	Ond	587*	792	7x12	54
30	17000	-152.32	-321.09	732	Ond	587*	792	7x12	54
31	17250	-153.01	-321.09	732	Ond	587*	792	7x12	54
32	17500	-152.13	-321.09	732	Ond	587*	792	7x12	54
33	17750	-148.31	-321.09	732	Ond	587*	792	7x12	54
34	18007	-145.27	-321.09	732	Ond	587*	792	7x12	54
35	18250	-143.28	-321.09	732	Ond	587*	792	7x12	54
36	18500	-143.70	-321.09	732	Ond	587*	792	7x12	54
37	18750	-145.84	-321.09	732	Ond	587*	792	7x12	54
38	19900	98.41	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
39	19250	-151.44	-321.09	732	Ond	587*	792	7x12	54
40	19500	-155.36	-321.09	732	Ond	587*	792	7x12	54
41	21250	-165.31	-321.09	732	Ond	587*	792	7x12	54
42	21500	-162.60	-321.09	732	Ond	587*	792	7x12	54
43	21750	-160.40	-321.09	732	Ond	587*	792	7x12	54
44	22000	-164.14	-321.09	732	Ond	587*	792	7x12	54
45	22250	-164.00	-321.09	732	Ond	587*	792	7x12	54
46	22500	-161.70	-321.09	732	Ond	587*	792	7x12	54
47	22750	-158.87	-321.09	732	Ond	587*	792	7x12	54
48	23006	-156.16	-321.09	732	Ond	587*	792	7x12	54
49	23250	-153.67	-321.09	732	Ond	587*	792	7x12	54
50	23491	-152.18	-321.09	732	Ond	587*	792	7x12	54
51	22446	103.41	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
52	23750	-149.05	-321.09	732	Ond	587*	792	7x12	54
53	24000	-146.85	-321.09	732	Ond	587*	792	7x12	54
54	24250	-144.51	-321.09	732	Ond	587*	792	7x12	54
55	24500	-141.17	-321.09	732	Ond	587*	792	7x12	54
56	25750	-120.56	-321.09	732	Ond	587*	792	7x12	54
57	26050	-111.32	-321.09	732	Ond	587*	792	7x12	54
58	27250	-95.54	-321.09	732	Ond	587*	792	7x12	54
59	27487	-90.96	-321.09	732	Ond	587*	792	7x12	54
60	27750	-85.63	-321.09	732	Ond	587*	792	7x12	54
61	28009	-78.61	-321.09	732	Ond	587*	792	7x12	54
62	28867	115.11	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
63	28255	-73.45	-321.09	732	Ond	587*	792	7x12	54

Hoofdwapening

Ligger:kopgevel bedding laag

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.

Opmerkingen
[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.

Dwarskrachtwapening

Ligger:kopgevel bedding laag

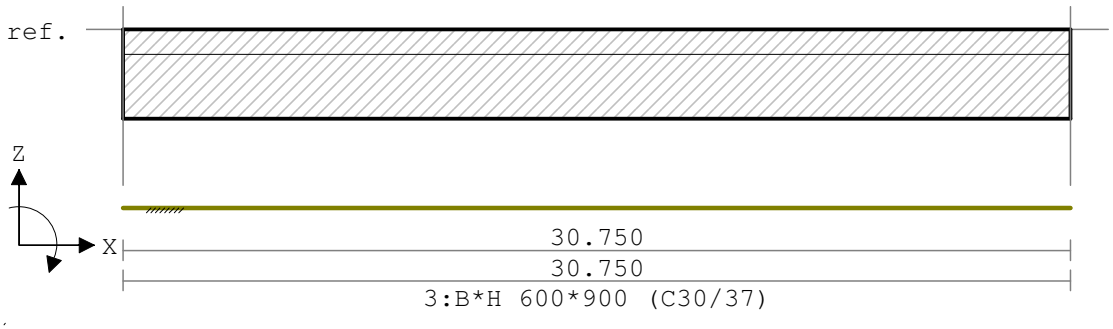
Geb.	Vanaf [mm]	Tot [mm]	Beugels	Lengte [mm]	A_{sw} [mm²/m]	V_{Ed} [kN]	A_{opg} [mm²]	Opm.
1	0	1725	Ø10-300(3s)	1725	333	108	8	
2	1725	2025	Ø10-300(3s)	300	333	120	6,8	
3	2025	2925	Ø10-300(3s)	900	333	105	8	
4	2925	3225	Ø10-300(3s)	300	333	109	6,8	
5	3225	7125	Ø10-300(3s)	3900	333	178	6,8	
6	7125	8625	Ø10-300(3s)	1500	333	106	8	
7	8625	11925	Ø10-300(3s)	3300	333	153	6,8	
8	11925	14925	Ø10-300(3s)	3000	333	111	8	
9	14925	15225	Ø10-300(3s)	300	333	114	6,8	
10	15225	20325	Ø10-300(3s)	5100	333	111	8	
11	20325	21225	Ø10-300(3s)	900	333	116	6,8	
12	21225	27525	Ø10-300(3s)	6300	333	108	8	
13	27525	30225	Ø10-300(3s)	2700	333	93	8	
14	30225	30750	Ø10-300(3s)	525	333	127	6,8	

Opmerkingen
[6] 9.2.2 (4) 50% van de dwarskrachtwapening moet uit beugels bestaan.
[8] Er zijn meer dan 2 beugelsneden per doorsnede toegepast.

LIGGER:kopgevel bedding hoog

GEOMETRIE

Ligger:kopgevel bedding hoog



VELDLENGTEN

Ligger:kopgevel bedding hoog

Veld	Vanaf	Tot	Lengte
1	0.000	30.750	30.750

DOORSNEDEN

Ligger:kopgevel bedding hoog

sector	Vanaf	Tot	Lengte	Profiel begin	z-begin	Profiel eind	z-eind
1	0.000	30.750	30.750	3:B*H 600*900	0.000	3:B*H 600*900	0.000

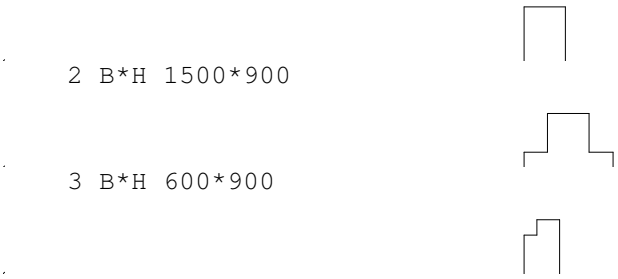
sector	Vanaf	Tot	Lengte	Eindcode	Bedding	Br.[mm]
1	0.000	30.750	30.750	1:Vast	8000	600

PROFIELVORMEN [mm]

1 B*H 700*900

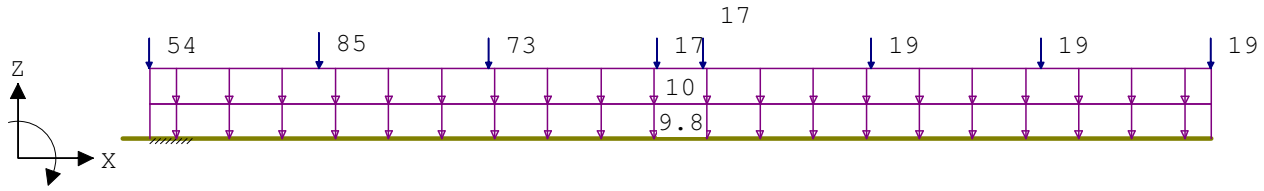
2 B*H 1500*900

3 B*H 600*900



VELDBELASTINGEN

Ligger:kopgevel bedding hoog B.G:1 Permanent



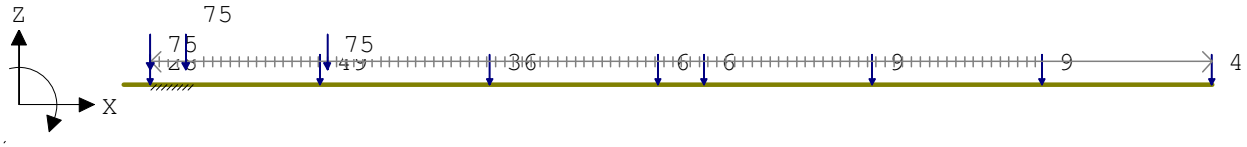
VELDBELASTINGEN

Ligger:kopgevel bedding hoog B.G:1 Permanent

Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		1:q-last		-9.800	-9.800		0.750	30.000
2		1:q-last		-10.000	-10.000		0.750	30.000
3		8:Puntlast		-54.000			0.750	
4		8:Puntlast		-85.000			5.550	
5		8:Puntlast		-73.000			10.350	
6		8:Puntlast		-17.000			15.100	
7		8:Puntlast		-17.000			16.400	
8		8:Puntlast		-19.000			21.150	
9		8:Puntlast		-19.000			25.950	
10		8:Puntlast		-19.000			30.750	

0.00 : (absoluut) grootste som reacties
-1269.84 : (absoluut) grootste som belastingen

VELDBELASTINGEN Ligger:kopgevel bedding hoog B.G:2 Veranderlijk

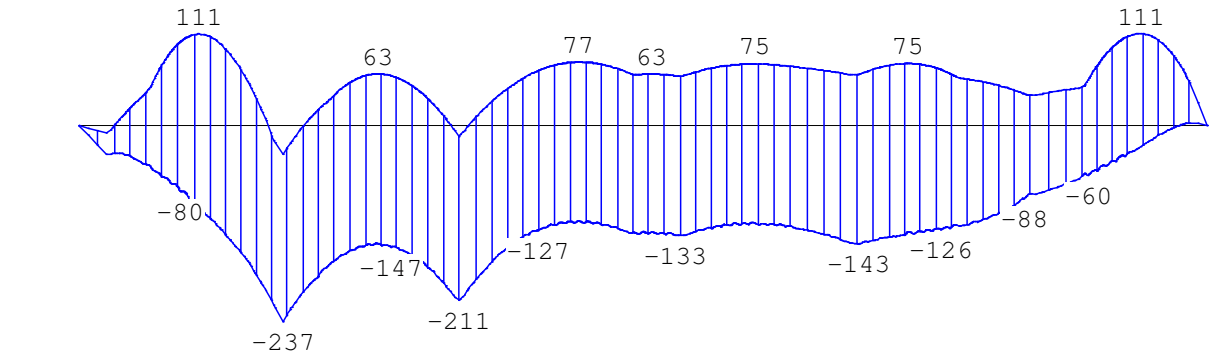


VELDBELASTINGEN Ligger:kopgevel bedding hoog B.G:2 Veranderlijk

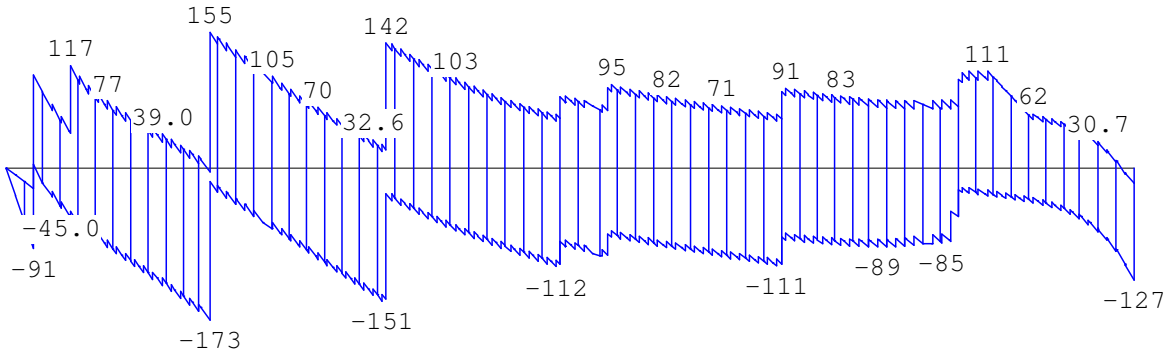
Last	Ref.	Type	Omschrijving	q1/p/m	q2	psi	Afstand	Lengte
1		8:Puntlast		-28.000			0.750	
2		8:Puntlast		-49.000			5.550	
3		8:Puntlast		-36.000			10.350	
4		8:Puntlast		-6.000			15.100	
5		8:Puntlast		-6.000			16.400	
6		8:Puntlast		-9.000			21.150	
7		8:Puntlast		-9.000			25.950	
8		8:Puntlast		-4.000			30.750	
9		15:Pass.stelsel		-75.000	0.250		0.750	30.000
10		17:Meelopend		-75.000			1.000	
11		17:Meelopend		-75.000			5.000	

OMHULLENDE VAN DE FUNDAMENTELE COMBINATIES

MOMENTEN Fysisch lineairLigger:kopgevelbeddinghoogFundamentele combinatie



DWARSKRACHTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie



TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	0.000	69.787	230.852	0.00	0.00	0.00	0.00
1	0.375	69.858	224.204	-46.20	-11.63	-17.26	-4.36
1	0.750	69.920	217.520	-91.07	-23.25	-34.53	-8.72
1	0.750	69.920	217.520	4.38	106.30	-34.53	-8.72
1	1.032	69.950	212.418	-19.16	83.76	-33.19	4.21
1	1.250	69.969	208.474	-32.33	66.26	-35.39	15.25
1	1.250	69.969	208.474	-26.15	72.66	-35.39	15.25
1	1.500	69.995	203.952	-45.12	52.15	-40.14	26.73
1	1.500	69.995	203.952	-38.31	59.22	-40.14	26.73
1	1.750	70.033	199.465	-56.20	39.90	-46.39	36.69
1	1.750	70.033	199.465	-48.92	116.94	-46.39	36.69
1	2.000	70.089	195.031	-65.93	95.98	-53.72	52.52
1	2.000	70.089	195.031	-58.31	104.93	-53.72	52.52
1	2.250	70.166	190.690	-74.61	85.16	-61.82	73.61
1	2.250	70.166	190.690	-66.74	94.44	-61.82	73.61
1	2.280	70.178	190.176	-68.65	92.17	-61.80	75.81
1	2.500	70.270	186.479	-82.49	75.65	-70.51	90.06
1	2.500	70.270	186.479	-74.46	85.14	-70.51	90.06
1	2.531	70.285	185.977	-76.37	82.97	-70.25	91.71
1	2.750	70.400	182.426	-90.04	67.39	-79.66	101.66
1	2.750	70.400	182.426	-81.92	77.01	-79.66	101.66
1	2.813	70.437	181.439	-85.85	72.81	-79.24	103.84
1	3.000	70.557	178.553	-97.60	60.29	-89.24	108.59
1	3.000	70.557	178.553	-89.45	69.96	-89.24	108.59
1	3.250	70.741	174.872	-104.90	53.72	-99.24	110.97
1	3.250	70.741	174.872	-96.75	63.38	-99.24	110.97
1	3.500	70.947	171.385	-112.05	47.51	-109.71	108.95
1	3.500	70.947	171.385	-103.94	57.11	-109.71	108.95
1	3.750	71.171	168.193	-119.14	41.50	-120.74	102.66
1	3.750	71.171	168.193	-111.09	51.01	-120.74	102.66
1	4.000	71.409	165.870	-126.24	35.60	-132.42	92.22
1	4.000	71.409	165.870	-118.27	44.99	-132.42	92.22
1	4.250	71.652	164.591	-133.40	29.70	-144.97	78.12
1	4.250	71.652	164.591	-124.88	38.96	-144.97	78.12

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	4.500	71.891	163.920	-140.00	23.75	-158.05	60.93
1	4.500	71.891	163.920	-132.84	32.88	-158.05	60.93
1	4.750	72.116	163.571	-148.01	17.71	-175.43	40.09
1	4.750	72.116	163.571	-140.29	26.69	-175.43	40.09
1	5.000	72.315	163.414	-155.47	11.55	-192.62	15.72
1	5.000	72.315	163.414	-147.84	20.39	-192.62	15.72
1	5.250	72.473	163.340	-163.05	5.26	-211.66	-12.08
1	5.250	72.473	163.340	-154.79	13.97	-211.66	-12.08
1	5.550	72.595	163.234	-173.09	-4.18	-236.96	-34.30
1	5.550	72.595	163.234	-15.39	154.85	-236.96	-34.30
1	5.750	72.612	163.121	-26.99	142.17	-222.11	-21.20
1	5.750	72.612	163.121	-19.56	149.94	-222.11	-21.20
1	6.000	72.584	162.843	-34.02	134.13	-206.79	-6.16
1	6.000	72.584	162.843	-26.64	142.49	-206.79	-6.16
1	6.250	72.504	162.502	-41.06	126.72	-193.38	7.39
1	6.250	72.504	162.502	-33.73	134.98	-193.38	7.39
1	6.500	72.386	162.094	-48.09	119.27	-183.21	18.94
1	6.500	72.386	162.094	-40.80	128.11	-183.21	18.94
1	6.750	72.239	161.759	-55.09	112.44	-170.80	28.70
1	6.750	72.239	161.759	-47.83	119.91	-170.80	28.70
1	7.250	71.893	160.555	-68.96	96.89	-155.17	48.66
1	7.250	71.893	160.555	-61.74	104.89	-155.17	48.66
1	7.470	71.729	160.047	-74.11	91.33	-149.94	54.90
1	7.500	71.706	159.978	-75.80	89.48	-149.95	55.61
1	7.500	71.706	159.978	-68.59	97.43	-149.95	55.61
1	7.695	71.559	159.529	-79.46	85.51	-146.04	59.36
1	7.750	71.517	159.399	-82.56	82.11	-146.49	60.17
1	7.750	71.517	159.399	-75.36	90.03	-146.49	60.17
1	7.861	71.432	159.137	-81.53	83.29	-143.39	61.45
1	8.000	71.326	158.807	-89.28	74.84	-144.80	62.43
1	8.000	71.326	158.807	-82.08	82.73	-144.80	62.43
1	8.081	71.265	158.611	-86.79	78.04	-141.96	62.69
1	8.129	71.228	158.496	-89.57	75.27	-142.45	62.73
1	8.250	71.136	158.204	-96.57	68.30	-144.88	62.49
1	8.250	71.136	158.204	-89.37	76.17	-144.88	62.49
1	8.372	71.042	157.906	-96.42	69.15	-144.02	61.74
1	8.500	70.944	157.592	-103.78	61.82	-146.73	60.43
1	8.500	70.944	157.592	-96.58	69.68	-146.73	60.43
1	8.619	70.852	157.297	-103.40	62.88	-146.11	58.72
1	8.750	70.749	156.969	-110.88	55.42	-150.06	56.33
1	8.750	70.749	156.969	-103.68	63.27	-150.06	56.33
1	9.000	70.546	156.328	-117.89	49.10	-155.71	50.29
1	9.000	70.546	156.328	-110.68	56.94	-155.71	50.29
1	9.250	70.330	155.664	-124.79	42.86	-162.74	42.36
1	9.250	70.330	155.664	-117.57	50.70	-162.74	42.36
1	9.500	70.095	154.963	-131.59	36.72	-171.62	32.64
1	9.500	70.095	154.963	-124.36	44.56	-171.62	32.64
1	9.750	69.830	154.211	-138.27	30.68	-182.13	21.17
1	9.750	69.830	154.211	-131.03	38.52	-182.13	21.17
1	10.000	69.528	153.392	-144.82	24.74	-194.13	8.04
1	10.000	69.528	153.392	-137.58	32.59	-194.13	8.04

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	10.250	69.176	152.484	-151.25	18.94	-207.69	-6.87
1	10.250	69.176	152.484	-143.99	26.79	-207.69	-6.87
1	10.350	69.026	152.104	-149.39	21.37	-211.13	-13.02
1	10.350	69.026	152.104	-28.73	142.44	-211.13	-13.02
1	10.500	68.763	151.469	-36.48	133.96	-204.41	-5.81
1	10.500	68.763	151.469	-29.22	141.82	-204.41	-5.81
1	10.750	68.294	150.353	-41.97	127.82	-189.52	7.40
1	10.750	68.294	150.353	-34.70	135.69	-189.52	7.40
1	11.000	67.778	149.159	-47.29	121.86	-176.28	19.28
1	11.000	67.778	149.159	-40.01	129.73	-176.28	19.28
1	11.250	67.229	147.910	-52.44	116.09	-164.26	29.89
1	11.250	67.229	147.910	-45.16	123.96	-164.26	29.89
1	11.500	66.657	146.628	-57.42	110.51	-153.78	39.25
1	11.500	66.657	146.628	-50.13	118.39	-153.78	39.25
1	11.750	66.072	145.332	-62.22	105.13	-144.67	47.42
1	11.750	66.072	145.332	-54.92	113.02	-144.67	47.42
1	12.000	65.482	144.036	-66.83	99.95	-137.15	54.69
1	12.000	65.482	144.036	-59.53	107.85	-137.15	54.69
1	12.250	64.894	142.755	-71.27	94.97	-131.30	61.25
1	12.250	64.894	142.755	-63.97	102.87	-131.30	61.25
1	12.478	64.363	141.608	-74.54	91.28	-126.47	66.19
1	12.500	64.314	141.501	-75.54	90.19	-126.54	66.61
1	12.500	64.314	141.501	-68.23	98.09	-126.54	66.61
1	12.750	63.746	140.281	-79.63	85.59	-122.82	70.82
1	12.750	63.746	140.281	-72.32	93.49	-122.82	70.82
1	12.850	63.522	139.800	-76.82	88.57	-119.17	72.19
1	13.000	63.196	139.104	-83.56	81.18	-120.11	73.91
1	13.000	63.196	139.104	-76.25	89.08	-120.11	73.91
1	13.137	62.901	138.477	-82.32	82.43	-116.78	75.14
1	13.250	62.664	137.975	-87.34	76.94	-118.00	75.94
1	13.250	62.664	137.975	-80.02	84.85	-118.00	75.94
1	13.387	62.381	137.374	-86.02	78.28	-115.69	76.60
1	13.500	62.154	136.895	-90.96	72.87	-117.53	76.93
1	13.500	62.154	136.895	-83.64	80.78	-117.48	76.93
1	13.586	61.982	136.533	-87.46	76.85	-115.14	77.06
1	13.600	61.953	136.472	-88.10	76.20	-115.26	77.06
1	13.750	61.665	135.868	-94.80	69.32	-117.58	76.94
1	13.750	61.665	135.868	-87.48	77.23	-117.58	76.94
1	13.850	61.473	135.465	-91.90	72.72	-115.45	76.68
1	14.000	61.197	134.891	-98.55	65.96	-118.49	75.99
1	14.000	61.197	134.891	-91.23	73.88	-118.49	75.99
1	14.100	61.013	134.509	-95.60	69.42	-116.76	75.36
1	14.250	60.749	133.964	-102.15	62.74	-120.21	74.13
1	14.250	60.749	133.964	-94.83	70.66	-120.21	74.13
1	14.388	60.508	133.470	-100.78	64.59	-119.67	72.71
1	14.500	60.318	133.082	-105.63	59.64	-122.71	71.37
1	14.500	60.318	133.082	-98.30	67.56	-122.71	71.37
1	14.564	60.211	132.862	-101.02	64.79	-121.96	70.55
1	14.750	59.903	132.240	-108.97	56.66	-125.96	67.76
1	14.750	59.903	132.240	-101.65	64.58	-125.96	67.76

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	15.000	59.498	131.432	-112.19	53.79	-129.94	63.32
1	15.000	59.498	131.432	-104.87	61.71	-129.94	63.32
1	15.100	59.338	131.114	-109.03	57.43	-129.19	61.93
1	15.100	59.338	131.114	-83.23	81.50	-129.19	61.93
1	15.111	59.320	131.077	-83.69	81.00	-129.12	61.90
1	15.163	59.237	130.910	-85.79	78.71	-129.74	61.76
1	15.250	59.100	130.634	-89.30	74.90	-131.10	62.05
1	15.250	59.100	130.634	-81.97	82.82	-131.10	62.05
1	15.375	58.903	130.263	-86.95	77.35	-128.23	62.46
1	15.375	58.903	130.263	-86.95	77.35	-128.23	62.46
1	15.500	58.708	129.891	-91.96	71.91	-130.60	62.65
1	15.500	58.708	129.891	-84.63	79.83	-130.60	62.65
1	15.580	58.583	129.652	-87.85	76.43	-128.83	62.71
1	15.600	58.552	129.593	-88.67	75.57	-128.42	62.70
1	15.750	58.322	129.154	-94.70	69.22	-130.66	62.45
1	15.750	58.322	129.154	-87.38	77.14	-130.66	62.45
1	15.901	58.092	128.719	-93.45	73.59	-129.65	61.96
1	15.990	57.956	128.461	-97.07	71.48	-131.23	61.66
1	16.089	57.808	128.184	-98.23	69.15	-129.31	61.19
1	16.250	57.565	127.741	-100.14	64.39	-132.86	60.07
1	16.250	57.565	127.741	-92.82	72.30	-132.86	60.07
1	16.332	57.443	127.525	-96.05	68.96	-132.35	59.77
1	16.400	57.341	127.347	-98.74	66.18	-132.12	60.19
1	16.400	57.341	127.347	-74.38	91.68	-132.12	60.19
1	16.500	57.194	127.085	-78.24	87.49	-132.45	60.81
1	16.500	57.194	127.085	-70.91	95.41	-132.45	60.81
1	16.750	56.826	126.439	-80.43	85.03	-129.08	64.23
1	16.750	56.826	126.439	-73.11	92.94	-129.08	64.23
1	16.900	56.609	126.061	-78.78	86.77	-125.87	66.21
1	17.000	56.467	125.821	-82.55	82.65	-126.25	67.35
1	17.000	56.467	125.821	-75.23	90.57	-126.25	67.35
1	17.150	56.256	125.462	-80.85	84.45	-123.28	68.97
1	17.250	56.120	125.237	-84.59	80.37	-123.94	69.89
1	17.250	56.120	125.237	-77.27	88.28	-123.94	69.89
1	17.375	55.951	124.958	-81.90	83.24	-121.12	70.95
1	17.500	55.788	124.692	-86.56	78.17	-122.11	71.86
1	17.500	55.788	124.692	-79.24	86.08	-122.11	71.86
1	17.574	55.692	124.537	-81.98	83.09	-119.16	72.32
1	17.750	55.472	124.189	-88.46	76.04	-120.77	73.29
1	17.750	55.472	124.189	-81.14	83.95	-120.77	73.29
1	17.828	55.378	124.042	-83.98	80.86	-117.97	73.61
1	18.000	55.176	123.732	-90.30	73.98	-119.73	74.22
1	18.000	55.176	123.732	-82.98	81.89	-119.73	74.22
1	18.102	55.060	123.557	-86.69	77.85	-117.68	74.44
1	18.250	54.900	123.322	-92.08	71.99	-119.46	74.67
1	18.250	54.900	123.322	-84.77	79.90	-119.46	74.67
1	18.322	54.824	123.212	-87.38	77.05	-116.79	74.70
1	18.417	54.725	123.070	-90.82	73.32	-117.74	74.73
1	18.500	54.645	122.960	-93.82	70.05	-119.47	74.69
1	18.500	54.645	122.960	-86.50	77.96	-119.47	74.69

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	18.676	54.477	122.731	-92.94	71.14	-118.75	74.46
1	18.750	54.412	122.647	-95.63	68.29	-119.73	74.31
1	18.750	54.412	122.647	-88.31	76.19	-119.73	74.31
1	18.853	54.321	122.530	-92.09	72.24	-118.51	74.03
1	19.000	54.200	122.381	-97.48	66.63	-120.76	73.58
1	19.000	54.200	122.381	-90.16	74.53	-120.76	73.58
1	19.097	54.123	122.289	-93.69	70.85	-118.74	73.20
1	19.250	54.009	122.161	-99.29	65.00	-122.02	72.55
1	19.250	54.009	122.161	-91.96	72.90	-122.02	72.55
1	19.400	53.902	122.045	-97.42	67.20	-121.71	71.84
1	19.500	53.839	121.984	-101.06	63.40	-123.69	71.30
1	19.500	53.839	121.984	-93.72	71.30	-123.69	71.30
1	19.750	53.687	121.845	-102.79	61.82	-125.75	69.90
1	19.750	53.687	121.845	-95.45	69.72	-125.75	69.90
1	20.000	53.553	121.741	-104.50	60.25	-127.95	68.45
1	20.000	53.553	121.741	-97.14	68.15	-127.95	68.45
1	20.250	53.434	121.666	-106.18	58.69	-131.04	67.05
1	20.250	53.434	121.666	-98.80	66.60	-131.04	67.05
1	20.500	53.327	121.612	-107.82	57.15	-134.26	65.74
1	20.500	53.327	121.612	-100.42	65.07	-134.26	65.74
1	20.535	53.313	121.606	-101.68	63.75	-134.22	65.53
1	20.750	53.230	121.572	-109.42	55.62	-137.74	63.96
1	20.750	53.230	121.572	-101.76	63.54	-137.74	63.96
1	21.000	53.139	121.538	-110.73	54.10	-141.77	61.92
1	21.000	53.139	121.538	-103.52	62.04	-141.77	61.92
1	21.150	53.087	121.518	-108.88	56.38	-142.48	61.54
1	21.150	53.087	121.518	-77.86	87.28	-142.48	61.54
1	21.250	53.053	121.502	-81.41	83.43	-143.12	62.28
1	21.250	53.053	121.502	-73.90	91.40	-143.12	62.28
1	21.408	52.999	121.477	-79.47	85.33	-139.92	64.59
1	21.500	52.968	121.460	-82.70	81.81	-140.41	66.08
1	21.500	52.968	121.460	-75.14	89.80	-140.41	66.08
1	21.750	52.890	121.412	-83.92	80.22	-137.98	69.66
1	21.750	52.890	121.412	-76.30	88.24	-137.98	69.66
1	21.941	52.835	121.373	-82.99	80.92	-135.21	71.85
1	22.000	52.820	121.360	-85.06	78.67	-135.27	72.42
1	22.000	52.820	121.360	-77.36	87.09	-135.27	72.42
1	22.191	52.774	121.297	-84.03	79.82	-133.66	73.92
1	22.250	52.761	121.267	-86.09	77.56	-133.90	74.27
1	22.250	52.761	121.267	-78.31	85.28	-133.90	74.27
1	22.469	52.720	121.227	-85.93	76.91	-131.89	75.12
1	22.500	52.715	121.229	-87.01	75.72	-132.16	75.17
1	22.500	52.715	121.229	-79.12	83.89	-132.16	75.17
1	22.577	52.703	121.234	-81.79	80.96	-128.35	75.25
1	22.590	52.701	121.235	-82.24	80.46	-128.47	75.25
1	22.750	52.686	121.204	-87.79	74.35	-130.54	75.04
1	22.750	52.686	121.204	-79.79	82.59	-130.54	75.04
1	22.879	52.676	121.181	-84.25	77.67	-127.36	74.54
1	23.000	52.673	121.166	-88.43	73.06	-129.00	73.80
1	23.000	52.673	121.166	-80.29	81.38	-128.96	73.80

TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	23.084	52.671	121.156	-83.17	78.20	-126.00	73.13
1	23.250	52.679	121.151	-88.90	71.86	-127.12	71.37
1	23.250	52.679	121.151	-80.61	80.28	-127.12	71.37
1	23.357	52.687	121.151	-84.29	76.19	-124.06	69.95
1	23.500	52.704	121.154	-89.19	70.76	-125.65	67.67
1	23.500	52.704	121.154	-80.72	79.29	-125.65	67.67
1	23.660	52.732	121.165	-86.19	73.22	-122.49	64.60
1	23.750	52.750	121.173	-89.28	69.77	-123.63	62.61
1	23.750	52.750	121.173	-80.62	78.43	-123.63	62.61
1	23.840	52.772	121.186	-83.71	75.01	-119.47	60.43
1	24.000	52.816	121.215	-89.19	68.94	-121.94	58.01
1	24.000	52.816	121.215	-80.33	77.74	-121.94	58.01
1	24.250	52.904	121.291	-89.00	68.37	-119.45	56.01
1	24.250	52.904	121.291	-79.91	77.31	-119.45	56.01
1	24.380	52.960	121.353	-84.42	72.44	-115.76	55.15
1	24.500	53.012	121.413	-88.58	67.94	-116.44	54.30
1	24.500	53.012	121.413	-79.24	77.05	-116.44	54.30
1	24.684	53.106	121.549	-85.63	70.16	-112.45	52.75
1	24.750	53.141	121.599	-87.94	67.66	-112.76	52.11
1	24.750	53.141	121.599	-77.67	76.96	-112.76	52.11
1	24.921	53.242	121.785	-83.62	73.89	-107.84	50.38
1	24.990	53.282	121.860	-86.03	72.64	-108.03	49.59
1	25.250	53.455	122.271	-86.01	67.56	-102.81	46.35
1	25.250	53.455	122.271	-75.85	77.28	-102.81	46.35
1	25.500	53.638	122.822	-84.77	67.73	-96.22	42.69
1	25.500	53.638	122.822	-74.32	77.66	-96.22	42.69
1	25.710	53.801	123.424	-81.95	69.57	-87.97	39.20
1	25.750	53.835	123.577	-83.40	68.01	-88.35	38.50
1	25.750	53.835	123.577	-48.58	78.17	-88.35	38.50
1	25.873	53.936	124.051	-52.52	73.36	-83.10	36.83
1	25.909	53.966	124.187	-53.65	71.97	-81.78	36.86
1	25.950	54.000	124.346	-54.98	70.36	-82.12	36.90
1	25.950	54.000	124.346	-24.42	101.72	-82.12	36.90
1	26.050	54.087	124.907	-27.50	97.70	-82.94	36.97
1	26.050	54.087	124.907	-22.00	108.82	-82.94	36.97
1	26.250	54.264	126.112	-28.24	100.66	-80.69	38.44
1	26.250	54.264	126.112	-21.90	110.54	-80.69	38.44
1	26.500	54.500	128.068	-29.76	100.12	-76.87	40.77
1	26.500	54.500	128.068	-23.36	110.94	-76.87	40.77
1	26.750	54.755	130.631	-31.28	100.19	-72.94	42.63
1	26.750	54.755	130.631	-24.81	111.20	-72.94	42.63
1	27.000	55.032	133.354	-32.79	100.02	-68.84	43.93
1	27.000	55.032	133.354	-26.28	100.02	-68.84	43.93
1	27.250	55.336	136.098	-34.35	88.43	-64.49	45.69
1	27.250	55.336	136.098	-27.79	88.43	-64.49	45.69
1	27.411	55.544	137.892	-33.09	81.27	-57.54	49.30
1	27.500	55.667	138.902	-35.98	77.34	-59.82	55.60
1	27.500	55.667	138.902	-29.39	77.34	-59.82	55.60
1	27.713	55.974	141.371	-36.52	67.87	-53.85	70.76
1	27.750	56.029	141.805	-37.74	66.24	-54.77	73.14
1	27.750	56.029	141.805	-31.14	66.24	-54.77	73.14

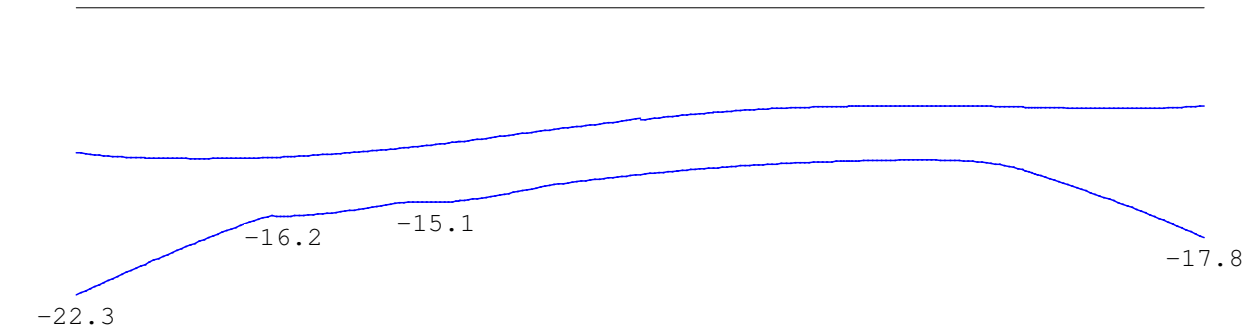
TUSSENPUNTEN FysischLigger:kopgevellineairbeddinghoogFundamentelecombinatie

		Grondspan.[kN/m2]		Dwarskr		Moment	
Veld	Pos.	min.	max.	min.	max.	min.	max.
1	27.907	56.271	143.680	-36.51	59.62	-47.32	82.54
1	28.000	56.424	144.836	-39.70	55.68	-49.10	87.54
1	28.000	56.424	144.836	-33.13	61.90	-49.10	87.54
1	28.207	56.775	147.461	-40.44	54.71	-42.38	96.98
1	28.250	56.851	148.022	-41.96	53.22	-43.25	98.66
1	28.250	56.851	148.022	-35.46	59.38	-43.25	98.66
1	28.448	57.212	150.661	-42.86	52.42	-35.62	105.06
1	28.500	57.312	151.381	-44.82	50.57	-37.16	106.39
1	28.500	57.312	151.381	-38.45	56.61	-37.16	106.39
1	28.750	57.806	154.928	-48.35	47.51	-30.54	110.60
1	28.750	57.806	154.928	-42.16	53.38	-30.54	110.60
1	28.939	58.041	157.741	-50.07	46.13	-25.34	111.36
1	29.000	58.082	158.671	-52.63	43.78	-23.72	111.15
1	29.000	58.082	158.671	-46.72	49.40	-23.72	111.15
1	29.250	58.058	162.610	-57.88	39.20	-16.89	107.90
1	29.250	58.058	162.610	-52.35	44.47	-16.89	107.90
1	29.500	57.876	166.739	-64.36	33.53	-10.06	100.69
1	29.500	57.876	166.739	-59.31	38.34	-10.06	100.69
1	29.750	57.583	171.046	-72.35	26.50	-4.43	89.43
1	29.750	57.583	171.046	-67.71	30.70	-4.43	89.43
1	30.000	57.181	175.512	-82.03	17.77	0.46	73.89
1	30.000	57.181	175.512	-78.60	21.40	0.46	73.89
1	30.250	56.669	180.109	-94.32	7.11	3.61	53.91
1	30.250	56.669	180.109	-91.70	9.50	3.61	53.91
1	30.500	56.043	184.802	-109.43	-6.28	3.37	29.26
1	30.500	56.043	184.802	-109.43	-4.91	3.37	29.26
1	30.750	55.315	189.547	-127.17	-17.10	-0.00	0.00

OMHULLENDE VAN DE KARAKTERISTIEKE COMBINATIES

VERPLAATSINGEN

[mm]Ligger:kopgevelFys.NLE.kortbeddinghoogKarakteristiekecombinatie



N.B. In deze verplaatsingen is de kruipvervorming (w2) niet verwerkt!

Hoofdwapening

Ligger:kopgevel bedding hoog

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
1	750	-34.53	-321.09	732	Ond	587*	792	7x12	54
2	2250	-96.00	-321.09	732	Ond	587*	792	7x12	54
3	2500	-107.81	-321.09	732	Ond	587*	792	7x12	54
4	2750	-118.02	-321.09	732	Ond	587*	792	7x12	54
5	3250	110.97	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
6	5550	-236.96	-321.09	732	Ond	614	792	7x12	
7	7500	-179.95	-321.09	732	Ond	587*	792	7x12	54
8	7750	-168.80	-321.09	732	Ond	587*	792	7x12	54
9	8000	-160.06	-321.09	732	Ond	587*	792	7x12	54
10	8129	62.73	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
11	8250	-160.78	-321.09	732	Ond	587*	792	7x12	54
12	8500	-169.24	-321.09	732	Ond	587*	792	7x12	54
13	10350	-211.13	-321.09	732	Ond	587*	792	7x12	54
14	12500	-151.91	-321.09	732	Ond	587*	792	7x12	54
15	13600	77.06	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
16	13000	-135.65	-321.09	732	Ond	587*	792	7x12	54
17	13243	-129.90	-321.09	732	Ond	587*	792	7x12	54
18	13499	-125.36	-321.09	732	Ond	587*	792	7x12	54
19	13750	-124.64	-321.09	732	Ond	587*	792	7x12	54
20	14000	-128.85	-321.09	732	Ond	587*	792	7x12	54
21	14250	-130.36	-321.09	732	Ond	587*	792	7x12	54
22	14500	-129.74	-321.09	732	Ond	587*	792	7x12	54
23	15000	-130.62	-321.09	732	Ond	587*	792	7x12	54
24	15250	-131.69	-321.09	732	Ond	587*	792	7x12	54
25	15500	-132.30	-321.09	732	Ond	587*	792	7x12	54
26	15580	69.68	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
27	15748	-130.68	-321.09	732	Ond	587*	792	7x12	54
28	15990	-131.23	-321.09	732	Ond	587*	792	7x12	54
29	16250	-132.86	-321.09	732	Ond	587*	792	7x12	54
30	16500	-132.45	-321.09	732	Ond	587*	792	7x12	54
31	17000	-130.11	-321.09	732	Ond	587*	792	7x12	54
32	17250	-132.48	-321.09	732	Ond	587*	792	7x12	54
33	17500	-131.74	-321.09	732	Ond	587*	792	7x12	54
34	17750	-128.05	-321.09	732	Ond	587*	792	7x12	54
35	17996	-125.35	-321.09	732	Ond	587*	792	7x12	54
36	18250	-122.76	-321.09	732	Ond	587*	792	7x12	54
37	18500	-122.80	-321.09	732	Ond	587*	792	7x12	54
38	18417	74.73	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
39	18745	-125.20	-321.09	732	Ond	587*	792	7x12	54
40	19000	-127.52	-321.09	732	Ond	587*	792	7x12	54
41	19250	-130.21	-321.09	732	Ond	587*	792	7x12	54
42	20500	-140.17	-321.09	732	Ond	587*	792	7x12	54
43	21250	-143.12	-321.09	732	Ond	587*	792	7x12	54
44	21500	-140.41	-321.09	732	Ond	587*	792	7x12	54

Hoofdwapening

Ligger:kopgevel bedding hoog

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.
45	22000	-141.98	-321.09	732	Ond	587*	792	7x12	54
46	22250	-142.16	-321.09	732	Ond	587*	792	7x12	54
47	22500	-139.96	-321.09	732	Ond	587*	792	7x12	54
48	22750	-137.02	-321.09	732	Ond	587*	792	7x12	54
49	22999	-134.73	-321.09	732	Ond	587*	792	7x12	54
50	23254	-133.42	-321.09	732	Ond	587*	792	7x12	54
51	23497	-130.00	-321.09	732	Ond	587*	792	7x12	54
52	22590	75.25	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
53	23741	-129.62	-321.09	732	Ond	587*	792	7x12	54
54	24000	-127.38	-321.09	732	Ond	587*	792	7x12	54
55	24500	-124.20	-321.09	732	Ond	587*	792	7x12	54
56	24750	-121.55	-321.09	732	Ond	587*	792	7x12	54
57	24990	-121.31	-321.09	732	Ond	587*	792	7x12	54
58	25750	-111.20	-321.09	732	Ond	587*	792	7x12	54
59	26050	-105.09	-321.09	732	Ond	587*	792	7x12	54
60	27500	-76.16	-321.09	732	Ond	587*	792	7x12	54
61	27750	-72.21	-321.09	732	Ond	587*	792	7x12	54
62	27998	-68.10	-321.09	732	Ond	587*	792	7x12	54
63	28939	111.36	220.00	608	Bov	602*	453	4x12	54
					Bov2		158	2x10	
64	28252	-62.21	-321.09	732	Ond	587*	792	7x12	54
65	28500	-57.69	-321.09	732	Ond	587*	792	7x12	54

Hoofdwapening

Ligger:kopgevel bedding hoog

Geb.	Pos. [mm]	M_{Ed} [kNm]	M_{Rd} [kNm]	z [mm]	B/O	A_b [mm²]	A_a [mm²]	Basiswapening +Bijlegwapening	Opm.

Opmerkingen
[54] * = Eisen met betrekking tot minimum wapening ten behoeve van gecontroleerde scheurvorming zijn toegepast volgens art. 7.3.2.

Dwarskrachtwapening

Ligger:kopgevel bedding hoog

Geb.	Vanaf [mm]	Tot [mm]	Beugels	Lengte [mm]	A_{sw} [mm²/m]	V_{Ed} [kN]	A_{opg} [mm²]	Opm.
1	0	1725	Ø10-300(3s)	1725	333	106	8	
2	1725	2025	Ø10-300(3s)	300	333	117	6,8	
3	2025	3225	Ø10-300(3s)	1200	333	103	8	
4	3225	3525	Ø10-300(3s)	300	333	112	6,8	
5	3525	7125	Ø10-300(3s)	3600	333	173	6,8	
6	7125	8625	Ø10-300(3s)	1500	333	105	8	
7	8625	11925	Ø10-300(3s)	3300	333	151	6,8	
8	11925	14925	Ø10-300(3s)	3000	333	109	8	
9	14925	15225	Ø10-300(3s)	300	333	112	6,8	
10	15225	27525	Ø10-300(3s)	12300	333	111	8	
11	27525	30225	Ø10-300(3s)	2700	333	93	8	
12	30225	30750	Ø10-300(3s)	525	333	127	6,8	

Opmerkingen
[6] 9.2.2 (4) 50% van de dwarskrachtwapening moet uit beugels bestaan.
[8] Er zijn meer dan 2 beugelsneden per doorsnede toegepast.

6. Bijlagen

6.1 Uitvoer staalconstructie

6.2 Funderingsadvies



Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

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AxisVM X6 R2j-hf1 · Geregistreerd aan Ingenieursbureau HeRoCon

Model 1.axs

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Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ps.S	21
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.O	22
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.P	22
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.S	22
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.O	23
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.P	23
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.S	23
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.O	24
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.P	24
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.S	24
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.O	25
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.P	25
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.S	25
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.O	26
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.P	26
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.S	26
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.O	27
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.P	27
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.S	27
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.O	28
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.P	28
Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.S	28
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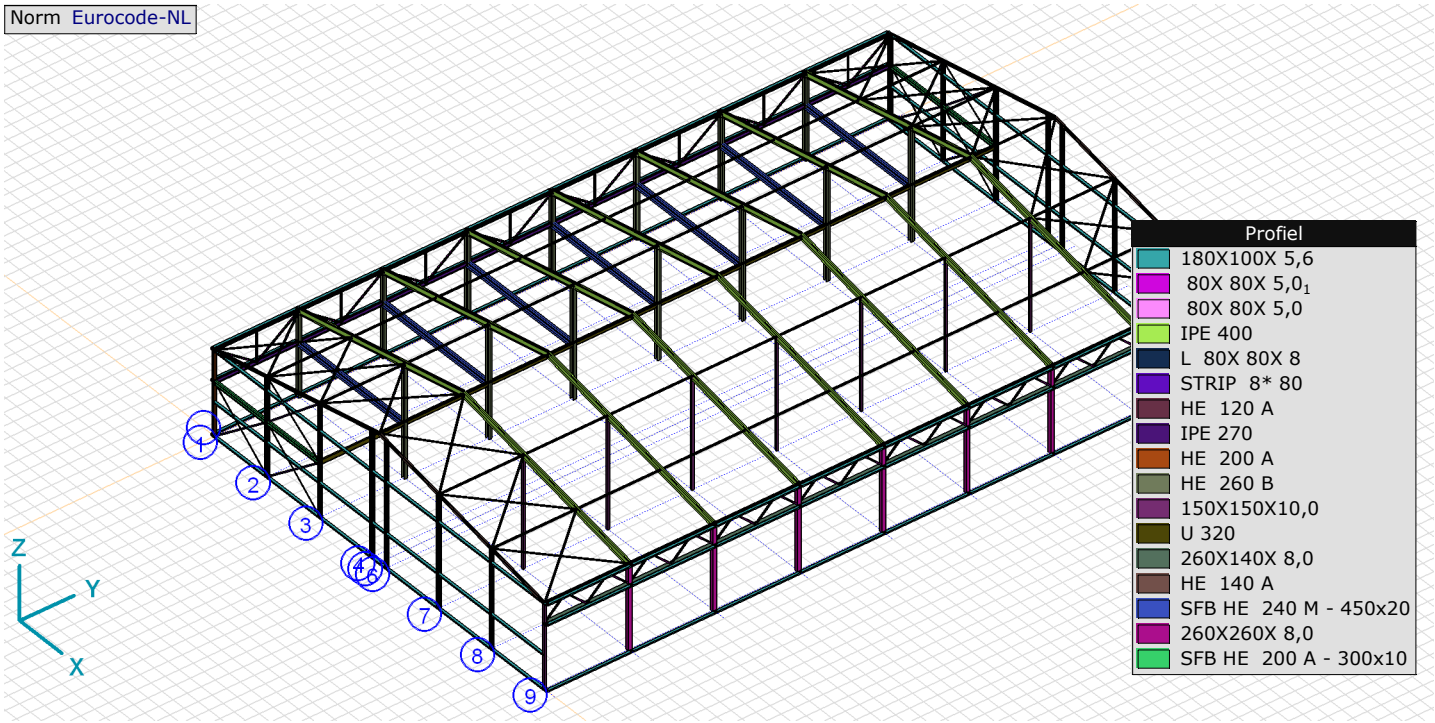


Rapport Overzicht

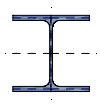
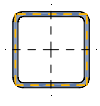
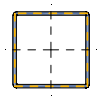
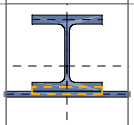
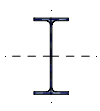
Modelgegevens

Materialen

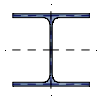
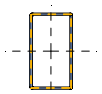
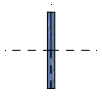
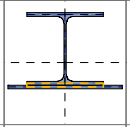
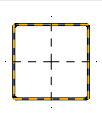
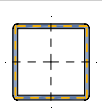
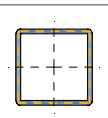
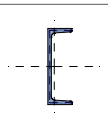
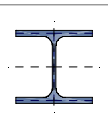
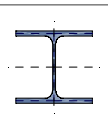
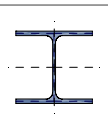
	Naam	*Type*	*Nationale norm*	*Materiaalnorm*	*E_x [N/mm²]*	*E_y [N/mm²]*	*ρ [kg/m³]*
1	S 235	Staal	Eurocode-NL	10025-2	210000	210000	7850
2	S 355	Staal	Eurocode-NL	10025-2	210000	210000	7850

Naam: Materiaalnaam; **Type:** Type materiaal; **E_x:** Elasticiteitsmodulus in lokale x richting; **E_y:** Elasticiteitsmodulus in lokale y richting; **ρ:** Dichtheid;

Profielen

	Naam	*Tekening*	*h [mm]*	*b [mm]*	*tw [mm]*	*tf [mm]*	*Ax [mm²]*
1	HE 260 B		260,0	260,0	10,0	17,5	11846,74
2	150X150X10,0		150,0	150,0	10,0	10,0	5341,28
3	220X220X10,0		220,0	220,0	10,0	10,0	8296,51
4	SFB HE 240 M - 450x20		270,0	248,0	18,0	32,0	28958,83
5	IPE 400		400,0	180,0	8,6	13,5	8448,12

Profielen

	Naam	Tekening	h [mm]	b [mm]	tw [mm]	tf [mm]	Ax [mm²]
6	HE 200 A		190,0	200,0	6,5	10,0	5384,41
7	180X100X 5,6		180,0	100,0	5,6	5,6	2979,65
8	STRIP 8* 80		8,0	80,0	0	0	640,00
9	SFB HE 200 A - 300x10		190,0	200,0	6,5	10,0	8383,32
10	200X200X 5,0		200,0	200,0	5,0	5,0	3843,95
11	80X 80X 5,0_1		80,0	80,0	5,0	5,0	1478,44
12	80X 80X 5,0		80,0	80,0	5,0	5,0	1478,44
13	L 80X 80X 8		80,0	80,0	8,0	8,0	1226,78
14	U 320		320,0	100,0	14,0	17,5	7517,20
15	IPE 270		270,0	135,0	6,6	10,2	4595,40
16	HE 100 A		96,0	100,0	5,0	8,0	2124,18
17	HE 120 A		114,0	120,0	5,0	8,0	2534,18
18	HE 140 A		133,0	140,0	5,5	8,5	3142,19

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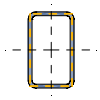
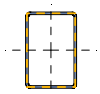
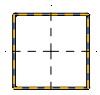
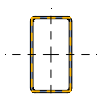
Profielen

	Naam	Tekening	h [mm]	b [mm]	tw [mm]	tf [mm]	Ax [mm²]
19	250X150X12,5		250,0	150,0	12,5	12,5	8970,76
20	150X100X 5,0		150,0	100,0	5,0	5,0	2343,94
21	260X260X 8,0		260,0	260,0	8,0	8,0	7995,00
22	260X140X 8,0		260,0	140,0	8,0	8,0	5978,42

Naam: Doorsnede naam; **h:** Doorsnede hoogte; **b:** Doorsnede breedte; **tw:** Lijfdikte; **tf:** Flensdikte; **Ax:** Doorsnede-oppervlak;

Veereigenschappen

	Naam	Type	Vrijheidsgraden	Model	K	K_V
1	Verend - translatie	N-N	translatie	Lineair	1E+0 kN/m	1E+0 kN/m
2	Vast - translatie	N-N	translatie	Lineair	1E+10 kN/m	1E+10 kN/m
3	Verend - rotatie	N-N	rotatie	Lineair	1E+0 kNm/rad	1E+0 kNm/rad
4	Vast - rotatie	N-N	rotatie	Lineair	1E+10 kNm/rad	1E+10 kNm/rad
5	Compleet - indirect	Kromrtrekken aansluiting	Kromtrekken	Lineair	—	—
6	Totaal - direct	Kromrtrekken aansluiting	Kromtrekken	Lineair	—	—
7	Vast	Kromrtrekken aansluiting	Kromtrekken	Lineair	—	—

Naam: Naam van de veereigenschappen; **Model:** Materiaal model; **K:** Initiële stijfheid; **K_V:** Trillingsstijfheid;

Referenties

	Naam	Type	X_1 [m]	Y_1 [m]	Z_1 [m]	X_2 [m]	Y_2 [m]	Z_2 [m]	X_3 [m]	Y_3 [m]	Z_3 [m]
1	R1	Ve	0	6,000	0	−0,196	6,000	0,981			
2	R2	Ve	0	6,000	0	0,196	6,000	0,981			
3	R3	Ve	0	6,000	0	0	6,000	1,000			
4	R4		90,00								
5	R5	Ve	0	48,000	0	0,621	48,000	0,784			
6	R6	Ve	0	48,000	0	−0,621	48,000	0,784			
7	R7	Ve	0	48,000	0	0,550	48,000	0,835			
8	R8	Ve	0	48,000	0	−0,651	48,000	0,759			
9	R9	Ve	0	6,000	0	0	5,318	0,731			
10	R10	Ve	0	6,000	0	0	6,682	0,731			
11	R11	Ve	0	6,000	0	0	6,608	0,794			
12	R12	Ve	0	6,000	0	0	5,392	0,794			
13	R13	Ve	0	42,000	0	−0,077	42,097	0,992			
14	R14	Ve	0	42,000	0	−0,077	41,903	0,992			
15	R15	Ve	0	42,000	0	−0,089	42,099	0,991			
16	R16	Ve	0	42,000	0	−0,089	41,901	0,991			
17	R17	Ve	0	42,000	0	0,089	42,099	0,991			
18	R18	Ve	0	42,000	0	0,089	41,901	0,991			
19	R19	Ve	0	42,000	0	0,077	42,097	0,992			
20	R20	Ve	0	42,000	0	0,077	41,903	0,992			

Naam: Referentie naam; **Type:** Type van %s;

Belastinggevallen

	Naam	Groep	Groepstype
1	Permanent	Permanent	Permanent
2	Veranderlijk	Veranderlijk	Veranderlijk
3	Sneeuw UD	Sneeuw	Sneeuw
4	Sneeuw DX+	Sneeuw	Sneeuw
5	Sneeuw DX-	Sneeuw	Sneeuw
6	Wind [gevel en dak] X+.Pp.O	Wind	Wind
7	Wind [gevel en dak] X+.Pp.P	Wind	Wind
8	Wind [gevel en dak] X+.Pp.S	Wind	Wind
9	Wind [gevel en dak] X+.Ps.O	Wind	Wind
10	Wind [gevel en dak] X+.Ps.P	Wind	Wind
11	Wind [gevel en dak] X+.Ps.S	Wind	Wind
12	Wind [gevel en dak] X+.Sp.O	Wind	Wind
13	Wind [gevel en dak] X+.Sp.P	Wind	Wind
14	Wind [gevel en dak] X+.Sp.S	Wind	Wind
15	Wind [gevel en dak] X+.Ss.O	Wind	Wind
16	Wind [gevel en dak] X+.Ss.P	Wind	Wind
17	Wind [gevel en dak] X+.Ss.S	Wind	Wind
18	Wind [gevel en dak] X-.Pp.O	Wind	Wind

	Naam	Groep	Groepstype
19	Wind [gevel en dak] X-.Pp.P	Wind	Wind
20	Wind [gevel en dak] X-.Pp.S	Wind	Wind
21	Wind [gevel en dak] X-.Ps.O	Wind	Wind
22	Wind [gevel en dak] X-.Ps.P	Wind	Wind
23	Wind [gevel en dak] X-.Ps.S	Wind	Wind
24	Wind [gevel en dak] X-.Sp.O	Wind	Wind
25	Wind [gevel en dak] X-.Sp.P	Wind	Wind
26	Wind [gevel en dak] X-.Sp.S	Wind	Wind
27	Wind [gevel en dak] X-.Ss.O	Wind	Wind
28	Wind [gevel en dak] X-.Ss.P	Wind	Wind
29	Wind [gevel en dak] X-.Ss.S	Wind	Wind
30	Wind [gevel en dak] Y+.S.O	Wind	Wind
31	Wind [gevel en dak] Y+.S.P	Wind	Wind
32	Wind [gevel en dak] Y+.S.S	Wind	Wind
33	Wind [gevel en dak] Y-.S.O	Wind	Wind
34	Wind [gevel en dak] Y-.S.P	Wind	Wind
35	Wind [gevel en dak] Y-.S.S	Wind	Wind

Naam: Naam belastinggeval; **Groep:** Belastinggroep; **Groepstype:** Belastinggroep type;

Belastinggroepen (Eurocode-NL)

	Groep	Type	$\gamma_{G,sup}$	$\gamma_{G,inf}$	ξ	γ	Ψ_0	Ψ_1	Ψ_2	Additive
1	Permanent	Permanent	1,200	0,900	0,917					✓
2	Veranderlijk	Veranderlijk				1,350	1,000	0,900	0,800	–
3	Wind	Wind				1,350	0	0,200	0	
4	Sneeuw	Sneeuw				1,350	0	0,200	0	

Groep: Belastinggroep; **Ψ_0, Ψ_1, Ψ_2:** Psi factor; **Additive:** Gelijktijdige belastinggevallen;

Knopen

	X [m]	Y [m]	Z [m]
1	0	6,000	0
2	0	6,000	6,000
3	9,600	6,000	0
4	9,600	6,000	7,920
5	20,400	6,000	0
6	20,400	6,000	7,920
7	30,000	6,000	0
8	30,000	6,000	6,000
9	15,000	6,000	9,000
10	0	6,000	3,800
11	9,600	6,000	3,800
12	0	6,000	0
13	20,400	12,000	0
14	20,400	12,000	7,920
15	30,000	12,000	0
16	30,000	12,000	6,000
17	0	12,000	6,000
18	0	12,000	3,800
19	9,600	12,000	3,800
20	9,600	12,000	0
21	9,600	12,000	7,920
22	15,000	12,000	9,000
23	0	12,000	0
24	20,400	18,000	0
25	20,400	18,000	7,920
26	30,000	18,000	0
27	30,000	18,000	6,000

	X [m]	Y [m]	Z [m]
28	0	18,000	6,000
29	0	18,000	3,800
30	9,600	18,000	3,800
31	9,600	18,000	0
32	9,600	18,000	7,920
33	15,000	18,000	9,000
34	0	18,000	0
35	20,400	24,000	0
36	20,400	24,000	7,920
37	30,000	24,000	0
38	30,000	24,000	6,000
39	0	24,000	6,000
40	0	24,000	3,800
41	9,600	24,000	3,800
42	9,600	24,000	0
43	9,600	24,000	7,920
44	15,000	24,000	9,000
45	0	24,000	0
46	20,400	30,000	0
47	20,400	30,000	7,920
48	30,000	30,000	0
49	30,000	30,000	6,000
50	0	30,000	6,000
51	0	30,000	3,800
52	9,600	30,000	3,800
53	9,600	30,000	0
54	9,600	30,000	7,920

	X [m]	Y [m]	Z [m]
55	15,000	30,000	9,000
56	0	30,000	0
57	20,400	36,000	0
58	20,400	36,000	7,920
59	30,000	36,000	0
60	30,000	36,000	6,000
61	0	36,000	6,000
62	0	36,000	3,800
63	9,600	36,000	3,800
64	9,600	36,000	0
65	9,600	36,000	7,920
66	15,000	36,000	9,000
67	0	36,000	0
68	20,400	42,000	0
69	20,400	42,000	7,920
70	30,000	42,000	0
71	30,000	42,000	6,000
72	0	42,000	6,000
73	0	42,000	3,800
74	9,600	42,000	3,800
75	9,600	42,000	0
76	9,600	42,000	7,920
77	15,000	42,000	9,000
78	0	42,000	0
79	20,400	0	0
80	20,400	0	7,920
81	30,000	0	0

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Knopen

	X [m]	Y [m]	Z [m]
82	30,000	0	6,000
83	0	0	6,000
84	0	0	2,400
85	9,600	0	2,400
86	9,600	0	0
87	9,600	0	7,920
88	15,000	0	9,000
89	0	0	0
90	4,800	0	0
91	4,800	0	6,960
92	4,800	0	2,400
93	14,350	0	0
94	14,350	0	2,400
95	14,350	0	8,870
96	15,650	0	0
97	15,650	0	2,400
98	15,650	0	8,870
99	25,200	0	0
100	25,200	0	2,400
101	25,200	0	6,960
102	20,400	0	2,400
103	30,000	0	2,400
104	0	0	3,800
105	9,600	0	3,800
106	4,800	0	3,800
107	4,800	0	6,000
108	9,600	0	6,000
109	14,350	0	6,000
110	15,650	0	6,000
111	20,400	0	6,000
112	25,200	0	6,000
113	9,600	48,000	2,400
114	9,600	48,000	0
115	0	48,000	2,400
116	0	48,000	0
117	4,800	48,000	0
118	4,800	48,000	2,400
119	0	48,000	6,000
120	4,800	48,000	6,960
121	9,600	48,000	7,920
122	14,350	48,000	0
123	14,350	48,000	2,400
124	15,650	48,000	0
125	15,650	48,000	2,400
126	25,200	48,000	0
127	25,200	48,000	2,400
128	20,400	48,000	7,920
129	25,200	48,000	6,960
130	30,000	48,000	6,000
131	14,350	48,000	8,870
132	15,000	48,000	9,000
133	15,650	48,000	8,870
134	20,400	48,000	2,400
135	20,400	48,000	0
136	30,000	48,000	2,400
137	30,000	48,000	0
138	0	48,000	3,800
139	9,600	48,000	3,800
140	4,800	48,000	3,800
141	4,800	48,000	6,000
142	9,600	48,000	6,000
143	14,350	48,000	6,000
144	15,650	48,000	6,000
145	20,400	48,000	6,000
146	25,200	48,000	6,000
147	30,000	6,000	4,600
148	30,000	0	4,600
149	30,000	1,500	6,000
150	30,000	4,500	6,000
151	30,000	3,000	4,600
152	30,000	7,500	6,000
153	30,000	10,500	6,000
154	30,000	12,000	4,600
155	30,000	9,000	4,600
156	30,000	13,500	6,000
157	30,000	16,500	6,000
158	30,000	18,000	4,600
159	30,000	15,000	4,600
160	30,000	19,500	6,000
161	30,000	22,500	6,000
162	30,000	24,000	4,600
163	30,000	21,000	4,600
164	30,000	25,500	6,000
165	30,000	28,500	6,000
166	30,000	30,000	4,600
167	30,000	27,000	4,600
168	30,000	31,500	6,000
169	30,000	34,500	6,000
170	30,000	36,000	4,600
171	30,000	33,000	4,600
172	30,000	37,500	6,000
173	30,000	40,500	6,000
174	30,000	42,000	4,600
175	30,000	39,000	4,600
176	30,000	43,500	6,000
177	30,000	46,500	6,000
178	30,000	48,000	4,600
179	30,000	45,000	4,600
180	0	6,000	3,700
181	0	0	3,700
182	0	3,000	3,800
183	0	3,000	6,000
184	0	9,000	3,800
185	0	9,000	6,000
186	0	12,000	3,700
187	0	15,000	3,800
188	0	15,000	6,000
189	0	18,000	3,700
190	0	21,000	3,800
191	0	21,000	6,000
192	0	24,000	3,700
193	0	27,000	3,800
194	0	27,000	6,000
195	0	30,000	3,700
196	0	33,000	3,800
197	0	33,000	6,000
198	0	36,000	3,700
199	0	39,000	3,800
200	0	39,000	6,000
201	0	42,000	3,700
202	0	45,000	3,800
203	0	45,000	6,000
204	0	48,000	3,700
205	4,800	6,000	6,960
206	4,800	12,000	6,960
207	4,800	18,000	6,960
208	4,800	24,000	6,960
209	4,800	30,000	6,960
210	4,800	36,000	6,960
211	4,800	42,000	6,960
212	25,200	6,000	6,960
213	25,200	12,000	6,960
214	25,200	18,000	6,960
215	25,200	24,000	6,960
216	25,200	30,000	6,960
217	25,200	36,000	6,960
218	25,200	42,000	6,960
219	30,220	0	4,600
220	30,220	6,000	4,600
221	30,220	0	6,000
222	30,220	6,000	6,000
223	30,220	0	0
224	30,220	6,000	0
225	30,220	12,000	0
226	30,220	12,000	4,600
227	30,220	12,000	6,000
228	30,220	18,000	6,000
229	30,220	18,000	4,600
230	30,220	18,000	0
231	30,220	24,000	0
232	30,220	24,000	4,600
233	30,220	24,000	6,000
234	30,220	30,000	0
235	30,220	30,000	4,600
236	30,220	30,000	6,000
237	30,220	36,000	0
238	30,220	36,000	4,600
239	30,220	36,000	6,000
240	30,220	42,000	0
241	30,220	42,000	4,600
242	30,220	42,000	6,000
243	30,220	48,000	0
244	30,220	48,000	4,600
245	30,220	48,000	6,000
246	−0,220	48,000	0
247	−0,220	48,000	3,800
248	−0,220	48,000	6,000
249	−0,220	42,000	0
250	−0,220	42,000	3,800
251	−0,220	42,000	6,000
252	−0,220	36,000	0
253	−0,220	36,000	3,800
254	−0,220	36,000	6,000
255	−0,220	30,000	0
256	−0,220	30,000	3,800
257	−0,220	30,000	6,000
258	−0,220	24,000	0
259	−0,220	24,000	3,800
260	−0,220	24,000	6,000
261	−0,220	18,000	0
262	−0,220	18,000	3,800
263	−0,220	18,000	6,000
264	−0,220	12,000	0

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Knopen

	X [m]	Y [m]	Z [m]		X [m]	Y [m]	Z [m]		X [m]	Y [m]	Z [m]
265	−0,220	12,000	3,800	269	−0,220	6,000	6,000	273	3,032	0	2,400
266	−0,220	12,000	6,000	270	−0,220	0	0	274	1,768	0	2,400
267	−0,220	6,000	0	271	−0,220	0	3,800	275	1,768	48,000	2,400
268	−0,220	6,000	3,800	272	−0,220	0	6,000	276	3,032	48,000	2,400

Vakwerkstaven

	Start-punt	Eind-punt	Lengte [m]	Lokaal X	Materiaal	Profiel	Ref_z	Non-lin.
1	86	106	6,122	i - j	S 235	8	Auto	Trek
2	90	105	6,122	i - j	S 235	8	Auto	Trek
3	105	91	5,747	j - i	S 235	8	Auto	Trek
4	106	87	6,326	j - i	S 235	8	Auto	Trek
5	114	140	6,122	i - j	S 235	8	R5	Trek
6	117	139	6,122	i - j	S 235	8	R6	Trek
7	139	120	5,747	j - i	S 235	8	R7	Trek
8	140	121	6,326	j - i	S 235	8	R8	Trek
9	2	91	7,743	i - j	S 235	13	Auto	Trek
10	83	205	7,743	i - j	S 235	13	Auto	Trek
11	205	87	7,743	j - i	S 235	13	Auto	Trek
12	91	4	7,743	j - i	S 235	13	Auto	Trek
13	4	88	8,144	i - j	S 235	13	Auto	Trek
14	87	9	8,144	j - i	S 235	13	Auto	Trek
15	88	6	8,144	j - i	S 235	13	Auto	Trek
16	9	80	8,144	i - j	S 235	13	Auto	Trek
17	80	212	7,743	i - j	S 235	13	Auto	Trek
18	6	101	7,743	i - j	S 235	13	Auto	Trek
19	101	8	7,743	j - i	S 235	13	Auto	Trek
20	212	82	7,743	j - i	S 235	13	Auto	Trek
21	119	211	7,743	i - j	S 235	13	R13	Trek
22	72	120	7,743	i - j	S 235	13	R14	Trek
23	120	76	7,743	j - i	S 235	13	R13	Trek
24	211	121	7,743	j - i	S 235	13	R14	Trek
25	121	77	8,144	j - i	S 235	13	R15	Trek
26	76	132	8,144	i - j	S 235	13	R16	Trek
27	77	128	8,144	i - j	S 235	13	R17	Trek
28	132	69	8,144	j - i	S 235	13	R18	Trek
29	69	129	7,743	i - j	S 235	13	R19	Trek
30	128	218	7,743	i - j	S 235	13	R20	Trek
31	218	130	7,743	j - i	S 235	13	R19	Trek
32	129	71	7,743	j - i	S 235	13	R20	Trek
33	273	106	2,256	j - i	S 235	8	Auto	.
34	104	274	2,256	i - j	S 235	8	Auto	Trek
35	275	138	2,256	j - i	S 235	8	Auto	.
36	140	276	2,256	i - j	S 235	8	Auto	Trek
37	274	90	3,867	j - i	S 235	8	Auto	.
38	89	273	3,867	i - j	S 235	8	Auto	Trek
39	276	116	3,867	j - i	S 235	8	Auto	.
40	117	275	3,867	i - j	S 235	8	Auto	Trek

Lengte: Elementlengte; **Lokaal X:** Lokale X-richting; **Ref_z:** Referentie voor lokale Z-richting; **Non-lin.:** Niet-lineaire parameters;

Staven

	Start-punt	Eind-punt	Lengte	Materiaal	<– Aansluitingen	Aansluitingen –>
1	1	2	6,000	S 235	.	.
2	3	4	7,920	S 235	.	.
12	23	17	6,000	S 235	.	.

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Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
14	20	21	7,920	S 235	.	.
21	34	28	6,000	S 235	.	.
23	31	32	7,920	S 235	.	.
30	45	39	6,000	S 235	.	.
32	42	43	7,920	S 235	.	.
39	56	50	6,000	S 235	.	.
41	53	54	7,920	S 235	.	.
48	67	61	6,000	S 235	.	.
50	64	65	7,920	S 235	.	.
57	78	72	6,000	S 235	.	.
59	75	76	7,920	S 235	.	.
3	5	6	7,920	S 235	.	.
10	13	14	7,920	S 235	.	.
19	24	25	7,920	S 235	.	.
28	35	36	7,920	S 235	.	.
37	46	47	7,920	S 235	.	.
46	57	58	7,920	S 235	.	.
55	68	69	7,920	S 235	.	.
65	81	82	6,000	S 235	.	Schar-YZ
109	137	130	6,000	S 235	.	Schar-YZ
5	10	11	9,600	S 355	.	.
13	18	19	9,600	S 355	.	.
22	29	30	9,600	S 355	.	.
31	40	41	9,600	S 355	.	.
40	51	52	9,600	S 355	.	.
49	62	63	9,600	S 355	.	.
58	73	74	9,600	S 355	.	.
6	2	4	9,790	S 235	.	.
7	4	9	5,507	S 235	.	.
8	9	6	5,507	S 235	.	.
9	6	8	9,790	S 235	.	.
15	17	21	9,790	S 235	.	.
16	21	22	5,507	S 235	.	.
17	22	14	5,507	S 235	.	.
18	14	16	9,790	S 235	.	.
24	28	32	9,790	S 235	.	.
25	32	33	5,507	S 235	.	.
26	33	25	5,507	S 235	.	.
27	25	27	9,790	S 235	.	.
33	39	43	9,790	S 235	.	.
34	43	44	5,507	S 235	.	.
35	44	36	5,507	S 235	.	.
36	36	38	9,790	S 235	.	.
42	50	54	9,790	S 235	.	.
43	54	55	5,507	S 235	.	.
44	55	47	5,507	S 235	.	.
45	47	49	9,790	S 235	.	.
51	61	65	9,790	S 235	.	.
52	65	66	5,507	S 235	.	.
53	66	58	5,507	S 235	.	.
54	58	60	9,790	S 235	.	.
60	72	76	9,790	S 235	.	.
61	76	77	5,507	S 235	.	.
62	77	69	5,507	S 235	.	.
63	69	71	9,790	S 235	.	.
64	79	80	7,920	S 235	.	Schar-YZ
66	89	83	6,000	S 235	.	Schar-YZ
67	86	87	7,920	S 235	.	Schar-YZ
72	90	91	6,960	S 235	.	Schar-YZ
73	93	95	8,870	S 235	.	Schar-YZ

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

Model: **Model 1.axs**

Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
74	96	98	8,870	S 235	.	Schar-YZ
75	99	101	6,960	S 235	.	Schar-YZ
92	114	121	7,920	S 235	.	Schar-YZ
93	116	119	6,000	S 235	.	Schar-YZ
94	117	120	6,960	S 235	.	Schar-YZ
96	122	131	8,870	S 235	.	Schar-YZ
97	124	133	8,870	S 235	.	Schar-YZ
98	126	129	6,960	S 235	.	Schar-YZ
106	135	128	7,920	S 235	.	Schar-YZ
76	84	92	4,800	S 235	Schar-YZ	Schar-YZ
77	92	85	4,800	S 235	Schar-YZ	Schar-YZ
78	85	94	4,750	S 235	Schar-YZ	Schar-YZ
79	94	97	1,300	S 235	Schar-YZ	Schar-YZ
80	97	102	4,750	S 235	Schar-YZ	Schar-YZ
81	102	100	4,800	S 235	Schar-YZ	Schar-YZ
82	100	103	4,800	S 235	Schar-YZ	Schar-YZ
85	83	107	4,800	S 235	Schar-YZ	Schar-YZ
86	108	109	4,750	S 235	Schar-YZ	Schar-YZ
87	109	110	1,300	S 235	Schar-YZ	Schar-YZ
88	110	111	4,750	S 235	Schar-YZ	Schar-YZ
89	111	112	4,800	S 235	Schar-YZ	Schar-YZ
90	112	82	4,800	S 235	Schar-YZ	Schar-YZ
91	107	108	4,800	S 235	Schar-YZ	Schar-YZ
102	115	118	4,800	S 235	Schar-YZ	Schar-YZ
103	113	123	4,750	S 235	Schar-YZ	Schar-YZ
104	123	125	1,300	S 235	Schar-YZ	Schar-YZ
105	125	134	4,750	S 235	Schar-YZ	Schar-YZ
107	134	127	4,800	S 235	Schar-YZ	Schar-YZ
108	127	136	4,800	S 235	Schar-YZ	Schar-YZ
112	118	113	4,800	S 235	Schar-YZ	Schar-YZ
113	119	141	4,800	S 235	Schar-YZ	Schar-YZ
114	142	143	4,750	S 235	Schar-YZ	Schar-YZ
115	143	144	1,300	S 235	Schar-YZ	Schar-YZ
116	144	145	4,750	S 235	Schar-YZ	Schar-YZ
117	145	146	4,800	S 235	Schar-YZ	Schar-YZ
118	146	130	4,800	S 235	Schar-YZ	Schar-YZ
119	141	142	4,800	S 235	Schar-YZ	Schar-YZ
263	116	117	4,800	S 235	Schar-YZ	Schar-YZ
264	117	114	4,800	S 235	Schar-YZ	Schar-YZ
265	114	122	4,750	S 235	Schar-YZ	Schar-YZ
266	122	124	1,300	S 235	Schar-YZ	Schar-YZ
267	124	135	4,750	S 235	Schar-YZ	Schar-YZ
268	135	126	4,800	S 235	Schar-YZ	Schar-YZ
269	126	137	4,800	S 235	Schar-YZ	Schar-YZ
270	89	90	4,800	S 235	Schar-YZ	Schar-YZ
271	90	86	4,800	S 235	Schar-YZ	Schar-YZ
272	86	93	4,750	S 235	Schar-YZ	Schar-YZ
273	93	96	1,300	S 235	Schar-YZ	Schar-YZ
274	96	79	4,750	S 235	Schar-YZ	Schar-YZ
275	79	99	4,800	S 235	Schar-YZ	Schar-YZ
276	99	81	4,800	S 235	Schar-YZ	Schar-YZ
277	148	219	0,220	S 235	.	.
278	219	220	6,000	S 235	.	.
279	82	221	0,220	S 235	.	.
280	221	222	6,000	S 235	.	.
281	81	223	0,220	S 235	.	.
282	223	224	6,000	S 235	.	.
283	7	224	0,220	S 235	.	.
284	224	225	6,000	S 235	.	.
285	147	220	0,220	S 235	.	.

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

Model: **Model 1.axs** 10-1-2023 Pag. 12

Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
286	220	226	6,000	S 235	.	.
287	8	222	0,220	S 235	.	.
288	222	227	6,000	S 235	.	.
289	16	227	0,220	S 235	.	.
290	227	228	6,000	S 235	.	.
291	154	226	0,220	S 235	.	.
292	226	229	6,000	S 235	.	.
293	15	225	0,220	S 235	.	.
294	225	230	6,000	S 235	.	.
295	26	230	0,220	S 235	.	.
296	230	231	6,000	S 235	.	.
297	158	229	0,220	S 235	.	.
298	229	232	6,000	S 235	.	.
299	27	228	0,220	S 235	.	.
300	228	233	6,000	S 235	.	.
301	37	231	0,220	S 235	.	.
302	231	234	6,000	S 235	.	.
303	162	232	0,220	S 235	.	.
304	232	235	6,000	S 235	.	.
305	38	233	0,220	S 235	.	.
306	233	236	6,000	S 235	.	.
307	48	234	0,220	S 235	.	.
308	234	237	6,000	S 235	.	.
309	166	235	0,220	S 235	.	.
310	235	238	6,000	S 235	.	.
311	49	236	0,220	S 235	.	.
312	236	239	6,000	S 235	.	.
313	59	237	0,220	S 235	.	.
314	237	240	6,000	S 235	.	.
315	170	238	0,220	S 235	.	.
316	238	241	6,000	S 235	.	.
317	60	239	0,220	S 235	.	.
318	239	242	6,000	S 235	.	.
319	70	240	0,220	S 235	.	.
320	240	243	6,000	S 235	.	.
321	174	241	0,220	S 235	.	.
322	241	244	6,000	S 235	.	.
323	71	242	0,220	S 235	.	.
324	242	245	6,000	S 235	.	.
325	137	243	0,220	S 235	.	.
326	178	244	0,220	S 235	.	.
327	130	245	0,220	S 235	.	.
328	116	246	0,220	S 235	.	.
329	138	247	0,220	S 235	.	.
330	119	248	0,220	S 235	.	.
331	78	249	0,220	S 235	.	.
332	73	250	0,220	S 235	.	.
333	72	251	0,220	S 235	.	.
334	246	249	6,000	S 235	.	.
335	247	250	6,000	S 235	.	.
336	248	251	6,000	S 235	.	.
337	67	252	0,220	S 235	.	.
338	62	253	0,220	S 235	.	.
339	61	254	0,220	S 235	.	.
340	249	252	6,000	S 235	.	.
341	250	253	6,000	S 235	.	.
342	251	254	6,000	S 235	.	.
343	56	255	0,220	S 235	.	.
344	51	256	0,220	S 235	.	.
345	50	257	0,220	S 235	.	.

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

Model: **Model 1.axs** 10-1-2023 Pag. 13

Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
346	252	255	6,000	S 235	.	.
347	253	256	6,000	S 235	.	.
348	254	257	6,000	S 235	.	.
349	45	258	0,220	S 235	.	.
350	40	259	0,220	S 235	.	.
351	39	260	0,220	S 235	.	.
352	255	258	6,000	S 235	.	.
353	256	259	6,000	S 235	.	.
354	257	260	6,000	S 235	.	.
355	34	261	0,220	S 235	.	.
356	29	262	0,220	S 235	.	.
357	28	263	0,220	S 235	.	.
358	258	261	6,000	S 235	.	.
359	259	262	6,000	S 235	.	.
360	260	263	6,000	S 235	.	.
361	23	264	0,220	S 235	.	.
362	18	265	0,220	S 235	.	.
363	17	266	0,220	S 235	.	.
364	261	264	6,000	S 235	.	.
365	262	265	6,000	S 235	.	.
366	263	266	6,000	S 235	.	.
367	1	267	0,220	S 235	.	.
368	10	268	0,220	S 235	.	.
369	2	269	0,220	S 235	.	.
370	264	267	6,000	S 235	.	.
371	265	268	6,000	S 235	.	.
372	266	269	6,000	S 235	.	.
373	89	270	0,220	S 235	.	.
374	104	271	0,220	S 235	.	.
375	83	272	0,220	S 235	.	.
376	267	270	6,000	S 235	.	.
377	268	271	6,000	S 235	.	.
378	269	272	6,000	S 235	.	.
83	104	106	4,800	S 355	Schar-YZ	Schar-YZ
84	106	105	4,800	S 355	Schar-YZ	Schar-YZ
110	140	139	4,800	S 355	Schar-YZ	Schar-YZ
111	138	140	4,800	S 355	Schar-YZ	Schar-YZ
122	148	149	2,052	S 235	Schar-YZ	Schar-YZ
123	149	151	2,052	S 235	Schar-YZ	Schar-YZ
124	151	150	2,052	S 235	Schar-YZ	Schar-YZ
125	150	147	2,052	S 235	Schar-YZ	Schar-YZ
128	147	152	2,052	S 235	Schar-YZ	Schar-YZ
129	152	155	2,052	S 235	Schar-YZ	Schar-YZ
130	155	153	2,052	S 235	Schar-YZ	Schar-YZ
131	153	154	2,052	S 235	Schar-YZ	Schar-YZ
134	154	156	2,052	S 235	Schar-YZ	Schar-YZ
135	156	159	2,052	S 235	Schar-YZ	Schar-YZ
136	159	157	2,052	S 235	Schar-YZ	Schar-YZ
137	157	158	2,052	S 235	Schar-YZ	Schar-YZ
140	158	160	2,052	S 235	Schar-YZ	Schar-YZ
141	160	163	2,052	S 235	Schar-YZ	Schar-YZ
142	163	161	2,052	S 235	Schar-YZ	Schar-YZ
143	161	162	2,052	S 235	Schar-YZ	Schar-YZ
146	162	164	2,052	S 235	Schar-YZ	Schar-YZ
147	164	167	2,052	S 235	Schar-YZ	Schar-YZ
148	167	165	2,052	S 235	Schar-YZ	Schar-YZ
149	165	166	2,052	S 235	Schar-YZ	Schar-YZ
152	166	168	2,052	S 235	Schar-YZ	Schar-YZ
153	168	171	2,052	S 235	Schar-YZ	Schar-YZ
154	171	169	2,052	S 235	Schar-YZ	Schar-YZ

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

Model: **Model 1.axs** 10-1-2023 Pag. 14

Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
155	169	170	2,052	S 235	Schar-YZ	Schar-YZ
158	170	172	2,052	S 235	Schar-YZ	Schar-YZ
159	172	175	2,052	S 235	Schar-YZ	Schar-YZ
160	175	173	2,052	S 235	Schar-YZ	Schar-YZ
161	173	174	2,052	S 235	Schar-YZ	Schar-YZ
164	174	176	2,052	S 235	Schar-YZ	Schar-YZ
165	176	179	2,052	S 235	Schar-YZ	Schar-YZ
166	179	177	2,052	S 235	Schar-YZ	Schar-YZ
167	177	178	2,052	S 235	Schar-YZ	Schar-YZ
169	182	183	2,200	S 235	Schar-YZ	Schar-YZ
170	83	182	3,720	S 235	Schar-YZ	Schar-YZ
171	182	2	3,720	S 235	Schar-YZ	Schar-YZ
172	184	185	2,200	S 235	Schar-YZ	Schar-YZ
174	2	184	3,720	S 235	Schar-YZ	Schar-YZ
175	184	17	3,720	S 235	Schar-YZ	Schar-YZ
176	187	188	2,200	S 235	Schar-YZ	Schar-YZ
178	17	187	3,720	S 235	Schar-YZ	Schar-YZ
179	187	28	3,720	S 235	Schar-YZ	Schar-YZ
180	190	191	2,200	S 235	Schar-YZ	Schar-YZ
182	28	190	3,720	S 235	Schar-YZ	Schar-YZ
183	190	39	3,720	S 235	Schar-YZ	Schar-YZ
184	193	194	2,200	S 235	Schar-YZ	Schar-YZ
186	39	193	3,720	S 235	Schar-YZ	Schar-YZ
187	193	50	3,720	S 235	Schar-YZ	Schar-YZ
188	196	197	2,200	S 235	Schar-YZ	Schar-YZ
190	50	196	3,720	S 235	Schar-YZ	Schar-YZ
191	196	61	3,720	S 235	Schar-YZ	Schar-YZ
192	199	200	2,200	S 235	Schar-YZ	Schar-YZ
194	61	199	3,720	S 235	Schar-YZ	Schar-YZ
195	199	72	3,720	S 235	Schar-YZ	Schar-YZ
196	202	203	2,200	S 235	Schar-YZ	Schar-YZ
198	72	202	3,720	S 235	Schar-YZ	Schar-YZ
199	202	119	3,720	S 235	Schar-YZ	Schar-YZ
200	205	91	6,000	S 235	Schar-YZ	Schar-YZ
201	4	87	6,000	S 235	Schar-YZ	Schar-YZ
202	9	88	6,000	S 235	Schar-YZ	Schar-YZ
203	6	80	6,000	S 235	Schar-YZ	Schar-YZ
204	212	101	6,000	S 235	Schar-YZ	Schar-YZ
205	206	205	6,000	S 235	Schar-YZ	Schar-YZ
206	207	206	6,000	S 235	Schar-YZ	Schar-YZ
207	208	207	6,000	S 235	Schar-YZ	Schar-YZ
208	209	208	6,000	S 235	Schar-YZ	Schar-YZ
209	210	209	6,000	S 235	Schar-YZ	Schar-YZ
210	211	210	6,000	S 235	Schar-YZ	Schar-YZ
211	120	211	6,000	S 235	Schar-YZ	Schar-YZ
212	21	4	6,000	S 235	Schar-YZ	Schar-YZ
213	32	21	6,000	S 235	Schar-YZ	Schar-YZ
214	43	32	6,000	S 235	Schar-YZ	Schar-YZ
215	54	43	6,000	S 235	Schar-YZ	Schar-YZ
216	65	54	6,000	S 235	Schar-YZ	Schar-YZ
217	76	65	6,000	S 235	Schar-YZ	Schar-YZ
218	121	76	6,000	S 235	Schar-YZ	Schar-YZ
219	22	9	6,000	S 235	Schar-YZ	Schar-YZ
220	33	22	6,000	S 235	Schar-YZ	Schar-YZ
221	44	33	6,000	S 235	Schar-YZ	Schar-YZ
222	55	44	6,000	S 235	Schar-YZ	Schar-YZ
223	66	55	6,000	S 235	Schar-YZ	Schar-YZ
224	77	66	6,000	S 235	Schar-YZ	Schar-YZ
225	132	77	6,000	S 235	Schar-YZ	Schar-YZ
226	14	6	6,000	S 235	Schar-YZ	Schar-YZ

Staven

	Start-punt	*Eind-punt*	*Lengte*	*Materiaal*	*<– Aansluitingen*	*Aansluitingen –>*
227	25	14	6,000	S 235	Schar-YZ	Schar-YZ
228	36	25	6,000	S 235	Schar-YZ	Schar-YZ
229	47	36	6,000	S 235	Schar-YZ	Schar-YZ
230	58	47	6,000	S 235	Schar-YZ	Schar-YZ
231	69	58	6,000	S 235	Schar-YZ	Schar-YZ
232	128	69	6,000	S 235	Schar-YZ	Schar-YZ
233	213	212	6,000	S 235	Schar-YZ	Schar-YZ
234	214	213	6,000	S 235	Schar-YZ	Schar-YZ
235	215	214	6,000	S 235	Schar-YZ	Schar-YZ
236	216	215	6,000	S 235	Schar-YZ	Schar-YZ
237	217	216	6,000	S 235	Schar-YZ	Schar-YZ
238	218	217	6,000	S 235	Schar-YZ	Schar-YZ
239	129	218	6,000	S 235	Schar-YZ	Schar-YZ
240	105	11	6,000	S 235	Schar-YZ	Schar-YZ
241	11	19	6,000	S 235	Schar-YZ	Schar-YZ
242	19	30	6,000	S 235	Schar-YZ	Schar-YZ
243	30	41	6,000	S 235	Schar-YZ	Schar-YZ
244	41	52	6,000	S 235	Schar-YZ	Schar-YZ
245	52	63	6,000	S 235	Schar-YZ	Schar-YZ
246	63	74	6,000	S 235	Schar-YZ	Schar-YZ
247	74	139	6,000	S 235	Schar-YZ	Schar-YZ
248	104	182	3,000	S 235	.	.
249	182	10	3,000	S 235	.	.
250	10	184	3,000	S 235	.	.
251	184	18	3,000	S 235	.	.
252	18	187	3,000	S 235	.	.
253	187	29	3,000	S 235	.	.
254	29	190	3,000	S 235	.	.
255	190	40	3,000	S 235	.	.
256	40	193	3,000	S 235	.	.
257	193	51	3,000	S 235	.	.
258	51	196	3,000	S 235	.	.
259	196	62	3,000	S 235	.	.
260	62	73	6,000	S 235	.	.
261	73	202	3,000	S 235	.	.
262	202	138	3,000	S 235	.	.
120	82	8	6,000	S 235	Schar-YZ	Schar-YZ
126	8	16	6,000	S 235	Schar-YZ	Schar-YZ
132	16	27	6,000	S 235	Schar-YZ	Schar-YZ
138	27	38	6,000	S 235	Schar-YZ	Schar-YZ
144	38	49	6,000	S 235	Schar-YZ	Schar-YZ
150	49	60	6,000	S 235	Schar-YZ	Schar-YZ
156	60	71	6,000	S 235	Schar-YZ	Schar-YZ
162	71	130	6,000	S 235	Schar-YZ	Schar-YZ
168	83	2	6,000	S 235	Schar-YZ	Schar-YZ
173	2	17	6,000	S 235	Schar-YZ	Schar-YZ
177	17	28	6,000	S 235	Schar-YZ	Schar-YZ
181	28	39	6,000	S 235	Schar-YZ	Schar-YZ
185	39	50	6,000	S 235	Schar-YZ	Schar-YZ
189	50	61	6,000	S 235	Schar-YZ	Schar-YZ
193	61	72	6,000	S 235	Schar-YZ	Schar-YZ
197	72	119	6,000	S 235	Schar-YZ	Schar-YZ
68	83	87	9,790	S 235	.	.
69	87	88	5,507	S 235	.	.
70	88	80	5,507	S 235	.	.
71	80	82	9,790	S 235	.	.
95	119	121	9,790	S 235	.	.
99	128	130	9,790	S 235	.	.
100	121	132	5,507	S 235	.	.
101	132	128	5,507	S 235	.	.

Staven

	Start-punt	Eind-punt	Lengte	Materiaal	<– Aansluitingen	Aansluitingen –>
4	7	8	6,000	S 355	.	.
11	15	16	6,000	S 355	.	.
20	26	27	6,000	S 355	.	.
29	37	38	6,000	S 355	.	.
38	48	49	6,000	S 355	.	.
47	59	60	6,000	S 355	.	.
56	70	71	6,000	S 355	.	.
121	148	147	6,000	S 355	Schar-YZ	Schar-YZ
127	147	154	6,000	S 355	Schar-YZ	Schar-YZ
133	154	158	6,000	S 355	Schar-YZ	Schar-YZ
139	158	162	6,000	S 355	Schar-YZ	Schar-YZ
145	162	166	6,000	S 355	Schar-YZ	Schar-YZ
151	166	170	6,000	S 355	Schar-YZ	Schar-YZ
157	170	174	6,000	S 355	Schar-YZ	Schar-YZ
163	174	178	6,000	S 355	Schar-YZ	Schar-YZ

Lengte: Elementlengte; **<– Aansluitingen:** Staafeindaansluitingen op startpunt; **Aansluitingen –>:** Staafeindaansluitingen op eindpunt;

Knoopopleggingen

	Knoop	X [m]	Y [m]	Z [m]	Type	$Naam_x$	K_x [kN/m]	K_{xV} [kN/m]	$Naam_y$	K_y [kN/m]	K_{yV} [kN/m]
1	1	0	6,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
2	3	9,600	6,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
3	5	20,400	6,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
4	7	30,000	6,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
5	23	0	12,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
6	20	9,600	12,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
7	13	20,400	12,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
8	15	30,000	12,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
9	34	0	18,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
10	31	9,600	18,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10

	Knoop	$Naam_z$	K_z [kN/m]	K_{zV} [kN/m]	$Naam_{xx}$	K_{xx} [kNm/rad]	K_{xxV} [kNm/rad]	$Naam_{yy}$	K_{yy} [kNm/rad]	K_{yyV} [kNm/rad]	$Naam_{zz}$
1	1	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
2	3	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
3	5	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
4	7	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
5	23	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
6	20	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
7	13	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
8	15	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
9	34	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
10	31	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—

	Knoop	K_{zz} [kNm/rad]	K_{zzV} [kNm/rad]
1	1	0	0
2	3	0	0
3	5	0	0
4	7	0	0
5	23	0	0
6	20	0	0
7	13	0	0
8	15	0	0
9	34	0	0
10	31	0	0

Knoopopleggingen

	Knoop	X [m]	Y [m]	Z [m]	Type	$Naam_x$	K_x [kN/m]	K_{xV} [kN/m]	$Naam_y$	K_y [kN/m]	K_{yV} [kN/m]
11	24	20,400	18,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
12	26	30,000	18,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
13	45	0	24,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
14	42	9,600	24,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
15	35	20,400	24,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
16	37	30,000	24,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
17	56	0	30,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
18	53	9,600	30,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
19	46	20,400	30,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
20	48	30,000	30,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
21	67	0	36,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
22	64	9,600	36,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
23	57	20,400	36,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
24	59	30,000	36,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
25	78	0	42,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
26	75	9,600	42,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
27	68	20,400	42,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10

	Knoop	$Naam_z$	K_z [kN/m]	K_{zV} [kN/m]	$Naam_{xx}$	K_{xx} [kNm/rad]	K_{xxV} [kNm/rad]	$Naam_{yy}$	K_{yy} [kNm/rad]	K_{yyV} [kNm/rad]	$Naam_{zz}$
11	24	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
12	26	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
13	45	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
14	42	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
15	35	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
16	37	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
17	56	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
18	53	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
19	46	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
20	48	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
21	67	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
22	64	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
23	57	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
24	59	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
25	78	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
26	75	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
27	68	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—

	Knoop	K_{zz} [kNm/rad]	K_{zzV} [kNm/rad]
11	24	0	0
12	26	0	0
13	45	0	0
14	42	0	0
15	35	0	0
16	37	0	0
17	56	0	0
18	53	0	0
19	46	0	0
20	48	0	0
21	67	0	0
22	64	0	0
23	57	0	0
24	59	0	0
25	78	0	0
26	75	0	0
27	68	0	0

Knoopopleggingen

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*Type*	*Naam$_x$*	*K_x [kN/m]*	*K_{xV} [kN/m]*	*Naam$_y$*	*K_y [kN/m]*	*K_{yV} [kN/m]*
28	70	30,000	42,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
29	89	0	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
30	86	9,600	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
31	79	20,400	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
32	81	30,000	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
33	90	4,800	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
34	93	14,350	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
35	96	15,650	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
36	99	25,200	0	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
37	116	0	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
38	114	9,600	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
39	135	20,400	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
40	137	30,000	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
41	117	4,800	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
42	122	14,350	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
43	124	15,650	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10
44	126	25,200	48,000	0	Glob.	Vast - translatie	1E+10	1E+10	Vast - translatie	1E+10	1E+10

	Knoop	*Naam$_z$*	*K_z [kN/m]*	*K_{zV} [kN/m]*	*Naam$_{xx}$*	*K_{xx} [kNm/rad]*	*K_{xxV} [kNm/rad]*	*Naam$_{yy}$*	*K_{yy} [kNm/rad]*	*K_{yyV} [kNm/rad]*	*Naam$_{zz}$*
28	70	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
29	89	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
30	86	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
31	79	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
32	81	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
33	90	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
34	93	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
35	96	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
36	99	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
37	116	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
38	114	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
39	135	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
40	137	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
41	117	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
42	122	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
43	124	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—
44	126	Vast - translatie	1E+10	1E+10	—	0	0	—	0	0	—

	Knoop	*K_{zz} [kNm/rad]*	*K_{zzV} [kNm/rad]*
28	70	0	0
29	89	0	0
30	86	0	0
31	79	0	0
32	81	0	0
33	90	0	0
34	93	0	0
35	96	0	0
36	99	0	0
37	116	0	0
38	114	0	0
39	135	0	0
40	137	0	0
41	117	0	0
42	122	0	0
43	124	0	0
44	126	0	0

Knoop: Ondersteunde knoop; **Type:** Opleggingstype; **K_x, K_y, K_z, K_{xx}, K_{yy}, K_{zz}:** Initiële stijfheid;

Gewicht per materiaal

	Materiaalnaam	*ρ [kg/m³]*	*Σ V [m³]*	*Σ G [kg]*
1	S 235	7850	7,191	56452,488
2	S 355	7850	2,730	21428,516
	Totaal		**9,921**	**77881,003**

ρ: Dichtheid; **Σ V:** Totaal volume; **Σ G:** Totale massa;

Gewicht per doorsnede

	Profiel	*Materiaalnaam*	*Σ L [m]*	*Σ V [m³]*	*M [kg/m]*	*Σ G [kg]*	*Σ A_o [m²]*	*Σ A_i [m²]*
1	HE 260 B	S 235	97,440	1,154	92,997	9061,616	146,043	0
2	150X150X10,0	S 235	67,440	0,360	41,929	2827,697	38,148	33,911
4	SFB HE 240 M - 450x20	S 355	67,200	1,946	227,327	15276,361	127,945	0
5	IPE 400	S 235	214,159	1,809	66,318	14202,525	314,117	0
6	HE 200 A	S 235	107,000	0,576	42,268	4522,639	121,562	0
7	180X100X 5,6	S 235	479,880	1,430	23,390	11224,527	263,790	246,905
8	STRIP 8* 80	S 235	73,122	0,047	5,024	367,363	12,869	0
9	SFB HE 200 A - 300x10	S 355	19,200	0,161	65,809	1263,534	26,037	0
11	80X 80X 5,0_1	S 235	142,782	0,211	11,606	1657,092	44,465	39,979
12	80X 80X 5,0	S 235	240,000	0,355	11,606	2785,381	74,740	67,200
13	L 80X 80X 8	S 235	189,049	0,232	9,630	1820,580	58,873	0
14	U 320	S 235	48,000	0,361	59,010	2832,480	47,210	0
15	IPE 270	S 235	48,000	0,221	36,074	1731,547	49,970	0
17	HE 120 A	S 235	96,000	0,243	19,893	1909,762	65,030	0
18	HE 140 A	S 235	61,188	0,192	24,666	1509,278	48,608	0
21	260X260X 8,0	S 355	42,000	0,336	62,761	2635,952	43,031	40,920
22	260X140X 8,0	S 355	48,000	0,287	46,931	2252,669	37,081	34,669
	Totaal			**9,921**		**77881,003**	**1519,520**	**463,583**

Σ L: Totale lengte; **Σ V:** Totaal volume; **M:** Massa per lengte; **Σ G:** Totale massa; **Σ A_o:** Oppervlakte (buitenste); **Σ A_i:** Oppervlakte (binnenste);

Windbelasting-parameters [gevel en dak]

	Richting	*Terrein categorie*	*z_0 [m]*	*z_{min} [m]*	*I_v [kN/m²]*	*v_m [m/s]*	*q_p [kN/m²]*	*φ [°]*
	X+	II - Onbebouwd gebied	0,200	4,000	0,263	19,5	0,68	0
	X–	II - Onbebouwd gebied	0,200	4,000	0,263	19,5	0,68	0
	Y+	II - Onbebouwd gebied	0,200	4,000	0,263	19,5	0,68	90
	Y–	II - Onbebouwd gebied	0,200	4,000	0,263	19,5	0,68	90
	v_{b0} = 24,5 m/s							
	c_{season} = 1,000							
	c_o = 1,000							
	p = 0,020							
	$c_s c_d$ = 1,000							

z_0, z_{min}: Terreinfactor; **I_v:** Turbelentiefactor; **v_m:** Basiswindsnelheid; **q_p:** Maximale winddruk; **φ:** Windrichting ten opzichte van de nok;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Pp.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	0,123	0	0,08	0	0,08
F2	9,000	11,2	0,123	0	0,08	0	0,08
G2	9,000	11,2	0,123	0	0,08	0	0,08
H2	9,000	11,2	0,123	0	0,08	0	0,08
I	9,000	11,2	0,077	0	0,05	0	0,05
J	9,000	11,2	0,077	0	0,05	0	0,05

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Pp.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
F2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
G2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
H2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
I	9,000	11,2	0,077	0,200	0,05	0,14	−0,08
J	9,000	11,2	0,077	0,200	0,05	0,14	−0,08

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Pp.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
F2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
G2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
H2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
I	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26
J	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ps.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	0,123	0	0,08	0	0,08
F2	9,000	11,2	0,123	0	0,08	0	0,08
G2	9,000	11,2	0,123	0	0,08	0	0,08
H2	9,000	11,2	0,123	0	0,08	0	0,08
I	9,000	11,2	−0,477	0	−0,32	0	−0,32
J	9,000	11,2	−0,846	0	−0,57	0	−0,57

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ps.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
F2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
G2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
H2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
I	9,000	11,2	−0,477	0,200	−0,32	0,14	−0,46
J	9,000	11,2	−0,846	0,200	−0,57	0,14	−0,71

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ps.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
F2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
G2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
H2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
I	9,000	11,2	−0,477	−0,300	−0,32	−0,20	−0,12
J	9,000	11,2	−0,846	−0,300	−0,57	−0,20	−0,37

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,208	0	−0,82	0	−0,82
F2	9,000	11,2	−1,208	0	−0,82	0	−0,82
G2	9,000	11,2	−0,954	0	−0,65	0	−0,65
H2	9,000	11,2	−0,415	0	−0,28	0	−0,28
I	9,000	11,2	0,077	0	0,05	0	0,05
J	9,000	11,2	0,077	0	0,05	0	0,05

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
F2	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
G2	9,000	11,2	−0,954	0,200	−0,65	0,14	−0,78
H2	9,000	11,2	−0,415	0,200	−0,28	0,14	−0,42
I	9,000	11,2	0,077	0,200	0,05	0,14	−0,08
J	9,000	11,2	0,077	0,200	0,05	0,14	−0,08

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Sp.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
F2	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
G2	9,000	11,2	−0,954	−0,300	−0,65	−0,20	−0,44
H2	9,000	11,2	−0,415	−0,300	−0,28	−0,20	−0,08
I	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26
J	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,208	0	−0,82	0	−0,82
F2	9,000	11,2	−1,208	0	−0,82	0	−0,82
G2	9,000	11,2	−0,954	0	−0,65	0	−0,65
H2	9,000	11,2	−0,415	0	−0,28	0	−0,28
I	9,000	11,2	−0,477	0	−0,32	0	−0,32
J	9,000	11,2	−0,846	0	−0,57	0	−0,57

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
F2	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
G2	9,000	11,2	−0,954	0,200	−0,65	0,14	−0,78
H2	9,000	11,2	−0,415	0,200	−0,28	0,14	−0,42
I	9,000	11,2	−0,477	0,200	−0,32	0,14	−0,46
J	9,000	11,2	−0,846	0,200	−0,57	0,14	−0,71

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X+.Ss.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
F2	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
G2	9,000	11,2	−0,954	−0,300	−0,65	−0,20	−0,44
H2	9,000	11,2	−0,415	−0,300	−0,28	−0,20	−0,08
I	9,000	11,2	−0,477	−0,300	−0,32	−0,20	−0,12
J	9,000	11,2	−0,846	−0,300	−0,57	−0,20	−0,37

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	0,123	0	0,08	0	0,08
F2	9,000	11,2	0,123	0	0,08	0	0,08
G	9,000	11,2	0,123	0	0,08	0	0,08
H	9,000	11,2	0,123	0	0,08	0	0,08
I2	9,000	11,2	0,077	0	0,05	0	0,05
J	9,000	11,2	0,077	0	0,05	0	0,05

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
F2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
G	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
H	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
I2	9,000	11,2	0,077	0,200	0,05	0,14	−0,08
J	9,000	11,2	0,077	0,200	0,05	0,14	−0,08

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Pp.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
F2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
G	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
H	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
I2	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26
J	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	0,123	0	0,08	0	0,08
F2	9,000	11,2	0,123	0	0,08	0	0,08
G	9,000	11,2	0,123	0	0,08	0	0,08
H	9,000	11,2	0,123	0	0,08	0	0,08
I2	9,000	11,2	−0,477	0	−0,32	0	−0,32
J	9,000	11,2	−0,846	0	−0,57	0	−0,57

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
F2	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
G	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
H	9,000	11,2	0,123	0,200	0,08	0,14	−0,05
I2	9,000	11,2	−0,477	0,200	−0,32	0,14	−0,46
J	9,000	11,2	−0,846	0,200	−0,57	0,14	−0,71

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ps.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
F2	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
G	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
H	9,000	11,2	0,123	−0,300	0,08	−0,20	0,29
I2	9,000	11,2	−0,477	−0,300	−0,32	−0,20	−0,12
J	9,000	11,2	−0,846	−0,300	−0,57	−0,20	−0,37

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,208	0	−0,82	0	−0,82
F2	9,000	11,2	−1,208	0	−0,82	0	−0,82
G	9,000	11,2	−0,954	0	−0,65	0	−0,65
H	9,000	11,2	−0,415	0	−0,28	0	−0,28
I2	9,000	11,2	0,077	0	0,05	0	0,05
J	9,000	11,2	0,077	0	0,05	0	0,05

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
F2	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
G	9,000	11,2	−0,954	0,200	−0,65	0,14	−0,78
H	9,000	11,2	−0,415	0,200	−0,28	0,14	−0,42
I2	9,000	11,2	0,077	0,200	0,05	0,14	−0,08
J	9,000	11,2	0,077	0,200	0,05	0,14	−0,08

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Sp.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
F2	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
G	9,000	11,2	−0,954	−0,300	−0,65	−0,20	−0,44
H	9,000	11,2	−0,415	−0,300	−0,28	−0,20	−0,08
I2	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26
J	9,000	11,2	0,077	−0,300	0,05	−0,20	0,26

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,208	0	−0,82	0	−0,82
F2	9,000	11,2	−1,208	0	−0,82	0	−0,82
G	9,000	11,2	−0,954	0	−0,65	0	−0,65
H	9,000	11,2	−0,415	0	−0,28	0	−0,28
I2	9,000	11,2	−0,477	0	−0,32	0	−0,32
J	9,000	11,2	−0,846	0	−0,57	0	−0,57

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
F2	9,000	11,2	−1,208	0,200	−0,82	0,14	−0,95
G	9,000	11,2	−0,954	0,200	−0,65	0,14	−0,78
H	9,000	11,2	−0,415	0,200	−0,28	0,14	−0,42
I2	9,000	11,2	−0,477	0,200	−0,32	0,14	−0,46
J	9,000	11,2	−0,846	0,200	−0,57	0,14	−0,71

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] X-.Ss.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	*w [kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
F2	9,000	11,2	−1,208	−0,300	−0,82	−0,20	−0,61
G	9,000	11,2	−0,954	−0,300	−0,65	−0,20	−0,44
H	9,000	11,2	−0,415	−0,300	−0,28	−0,20	−0,08
I2	9,000	11,2	−0,477	−0,300	−0,32	−0,20	−0,12
J	9,000	11,2	−0,846	−0,300	−0,57	−0,20	−0,37

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,415	0	−0,96	0	−0,96
F2	9,000	11,2	−1,415	0	−0,96	0	−0,96
G1	9,000	11,2	−1,300	0	−0,88	0	−0,88
G2	9,000	11,2	−1,300	0	−0,88	0	−0,88
H1	9,000	11,2	−0,638	0	−0,43	0	−0,43
H2	9,000	11,2	−0,638	0	−0,43	0	−0,43
I1	9,000	11,2	−0,538	0	−0,36	0	−0,36
I2	9,000	11,2	−0,538	0	−0,36	0	−0,36

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,415	0,200	−0,96	0,14	−1,09
F2	9,000	11,2	−1,415	0,200	−0,96	0,14	−1,09
G1	9,000	11,2	−1,300	0,200	−0,88	0,14	−1,01
G2	9,000	11,2	−1,300	0,200	−0,88	0,14	−1,01
H1	9,000	11,2	−0,638	0,200	−0,43	0,14	−0,57
H2	9,000	11,2	−0,638	0,200	−0,43	0,14	−0,57
I1	9,000	11,2	−0,538	0,200	−0,36	0,14	−0,50
I2	9,000	11,2	−0,538	0,200	−0,36	0,14	−0,50

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y+.S.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,415	−0,300	−0,96	−0,20	−0,75
F2	9,000	11,2	−1,415	−0,300	−0,96	−0,20	−0,75
G1	9,000	11,2	−1,300	−0,300	−0,88	−0,20	−0,68
G2	9,000	11,2	−1,300	−0,300	−0,88	−0,20	−0,68
H1	9,000	11,2	−0,638	−0,300	−0,43	−0,20	−0,23
H2	9,000	11,2	−0,638	−0,300	−0,43	−0,20	−0,23
I1	9,000	11,2	−0,538	−0,300	−0,36	−0,20	−0,16
I2	9,000	11,2	−0,538	−0,300	−0,36	−0,20	−0,16

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y-.S.O

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	0	−0,81	0	−0,81
B	9,000	0	−0,800	0	−0,54	0	−0,54
C	9,000	0	−0,500	0	−0,34	0	−0,34
D	9,000	0	0,800	0	0,54	0	0,54
E	9,000	0	−0,500	0	−0,34	0	−0,34
F1	9,000	11,2	−1,415	0	−0,96	0	−0,96
F2	9,000	11,2	−1,415	0	−0,96	0	−0,96
G1	9,000	11,2	−1,300	0	−0,88	0	−0,88
G2	9,000	11,2	−1,300	0	−0,88	0	−0,88
H1	9,000	11,2	−0,638	0	−0,43	0	−0,43
H2	9,000	11,2	−0,638	0	−0,43	0	−0,43
I1	9,000	11,2	−0,538	0	−0,36	0	−0,36
I2	9,000	11,2	−0,538	0	−0,36	0	−0,36

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y-.S.P

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	0,200	−0,81	0,14	−0,95
B	9,000	0	−0,800	0,200	−0,54	0,14	−0,68
C	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
D	9,000	0	0,800	0,200	0,54	0,14	0,41
E	9,000	0	−0,500	0,200	−0,34	0,14	−0,47
F1	9,000	11,2	−1,415	0,200	−0,96	0,14	−1,09
F2	9,000	11,2	−1,415	0,200	−0,96	0,14	−1,09
G1	9,000	11,2	−1,300	0,200	−0,88	0,14	−1,01
G2	9,000	11,2	−1,300	0,200	−0,88	0,14	−1,01
H1	9,000	11,2	−0,638	0,200	−0,43	0,14	−0,57
H2	9,000	11,2	−0,638	0,200	−0,43	0,14	−0,57
I1	9,000	11,2	−0,538	0,200	−0,36	0,14	−0,50
I2	9,000	11,2	−0,538	0,200	−0,36	0,14	−0,50

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Parameters belastinggeval wind, [gevel en dak], Wind [gevel en dak] Y-.S.S

Zone	*z [m]*	*α [°]*	c_{pe}	c_{pi}	w_e *[kN/m²]*	w_i *[kN/m²]*	w *[kN/m²]*
A	9,000	0	−1,200	−0,300	−0,81	−0,20	−0,61
B	9,000	0	−0,800	−0,300	−0,54	−0,20	−0,34
C	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
D	9,000	0	0,800	−0,300	0,54	−0,20	0,74
E	9,000	0	−0,500	−0,300	−0,34	−0,20	−0,14
F1	9,000	11,2	−1,415	−0,300	−0,96	−0,20	−0,75
F2	9,000	11,2	−1,415	−0,300	−0,96	−0,20	−0,75
G1	9,000	11,2	−1,300	−0,300	−0,88	−0,20	−0,68
G2	9,000	11,2	−1,300	−0,300	−0,88	−0,20	−0,68
H1	9,000	11,2	−0,638	−0,300	−0,43	−0,20	−0,23
H2	9,000	11,2	−0,638	−0,300	−0,43	−0,20	−0,23
I1	9,000	11,2	−0,538	−0,300	−0,36	−0,20	−0,16
I2	9,000	11,2	−0,538	−0,300	−0,36	−0,20	−0,16

z: Hoogte van de windzone; **α:** Hoek van het dak; **c_{pe}:** Uitwendige drukfactor; **c_{pi}:** Interne drukfactor; **w_e:** Externe winddruk; **w_i:** Interne winddruk; **w:** Resulterende winddruk;

Sneeuw belasting parameters

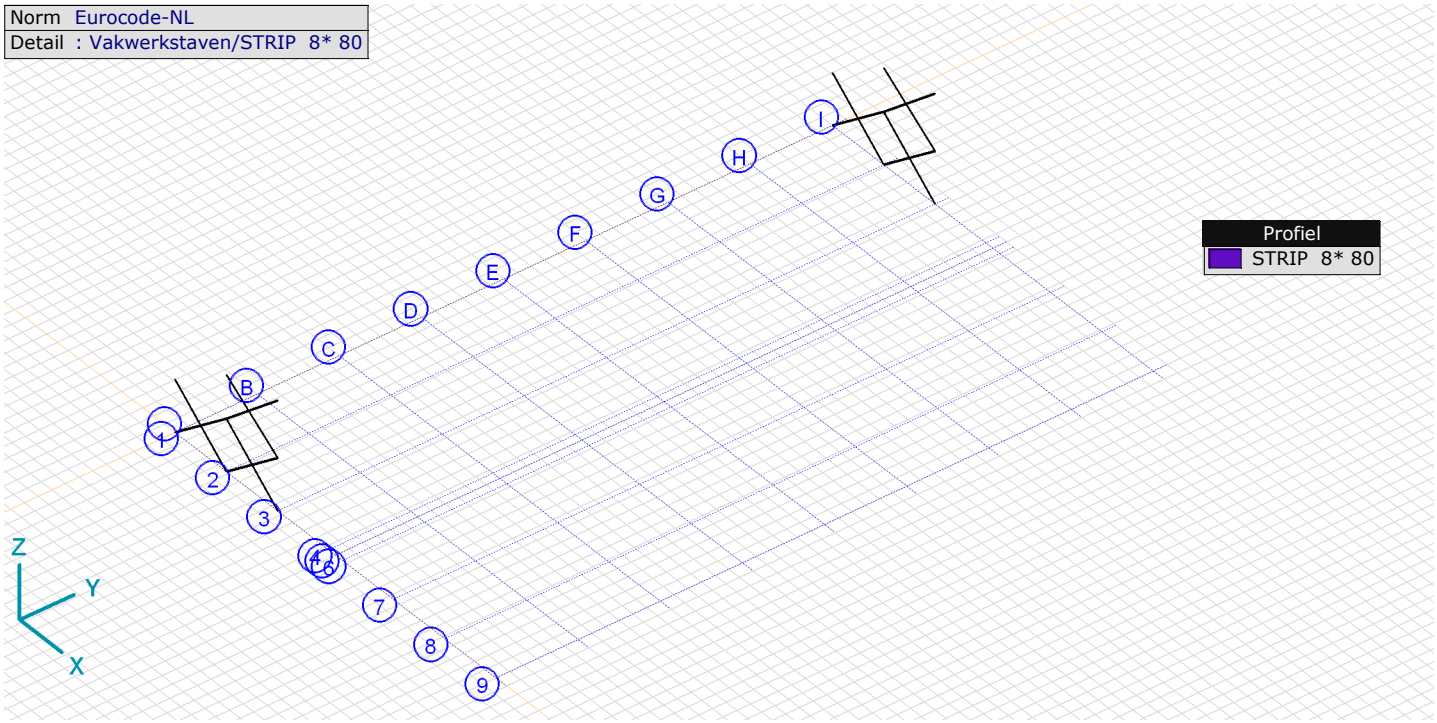
	A [m]	*C_e [-]*	*C_t [-]*	*s_k [kN/m²]*
	0	1,000	1,000	0,70

A: Hoogte boven zee-niveau; **C_e:** Blootstellings coëfficiënt; **C_t:** Thermische coëfficiënt; **s_k:** Karakteristieke sneeuwlast op de grond;

Logische onderdelen

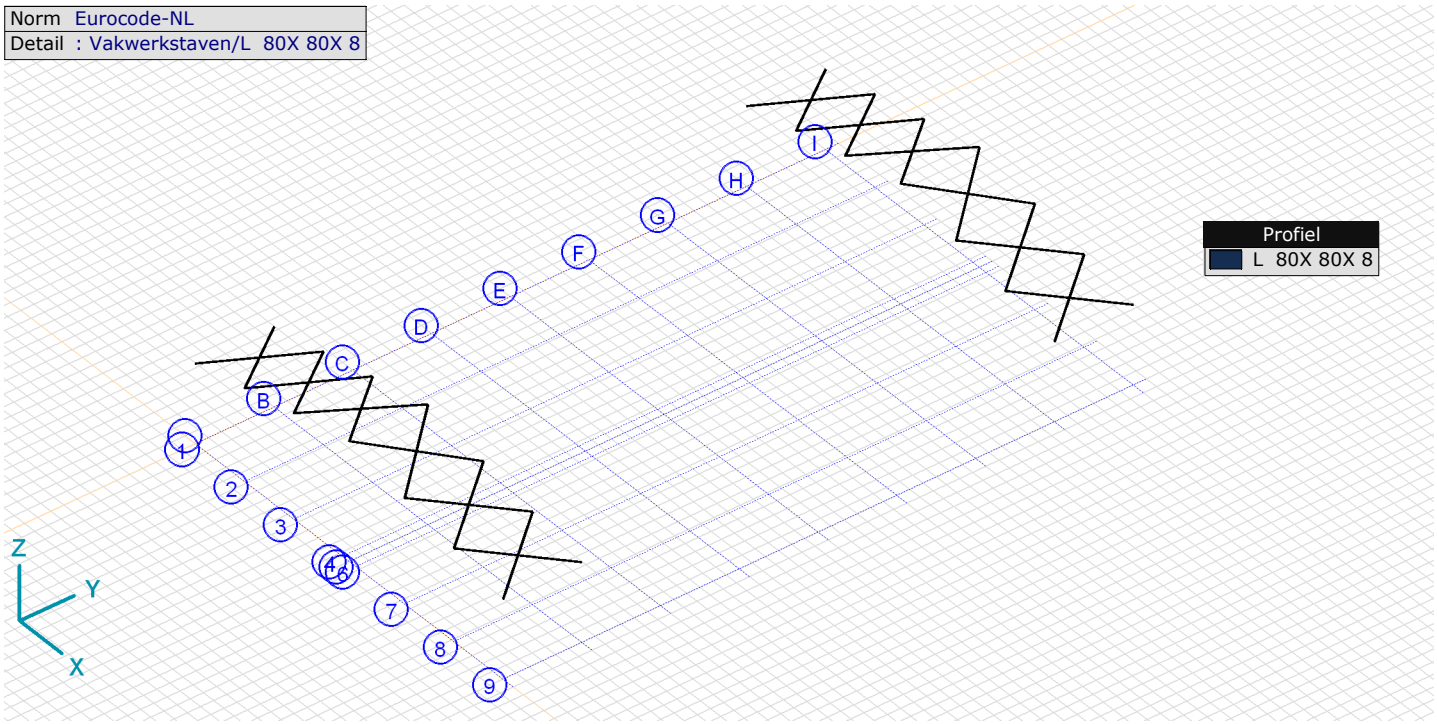
Vakwerkstaven

STRIP 8* 80



Rapport Vakwerkstaaf, STRIP 8 80*

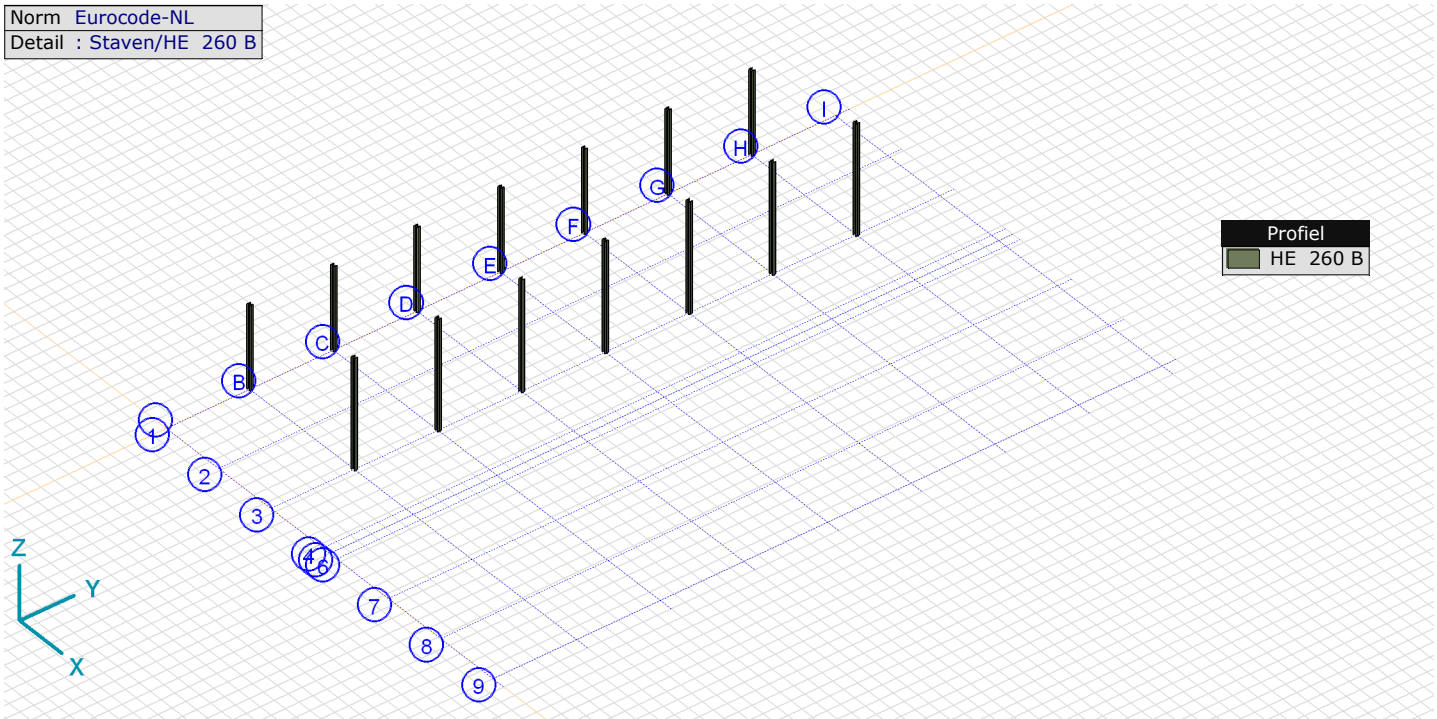
L 80X 80X 8



Rapport Vakwerkstaaf, L 80X 80X 8

Staven

HE 260 B



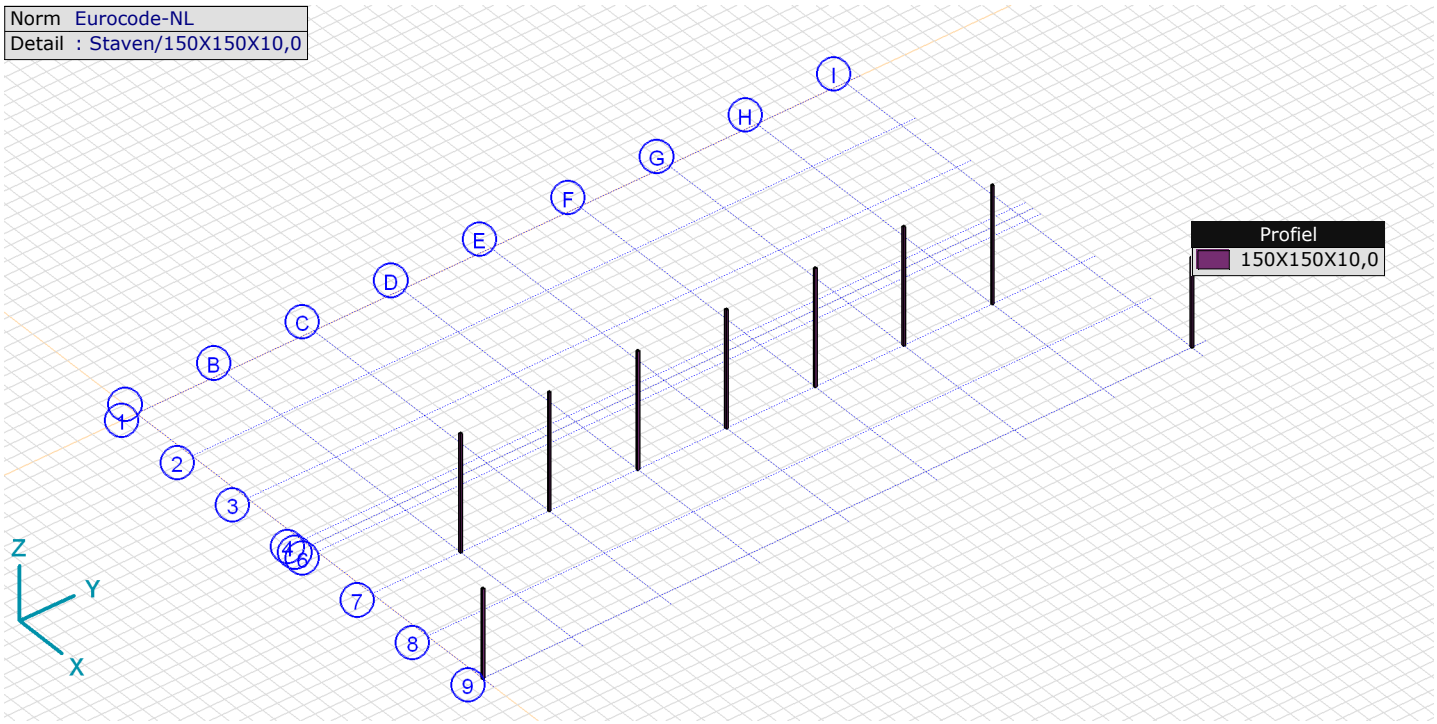
Rapport Staaf, HE 260 B

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

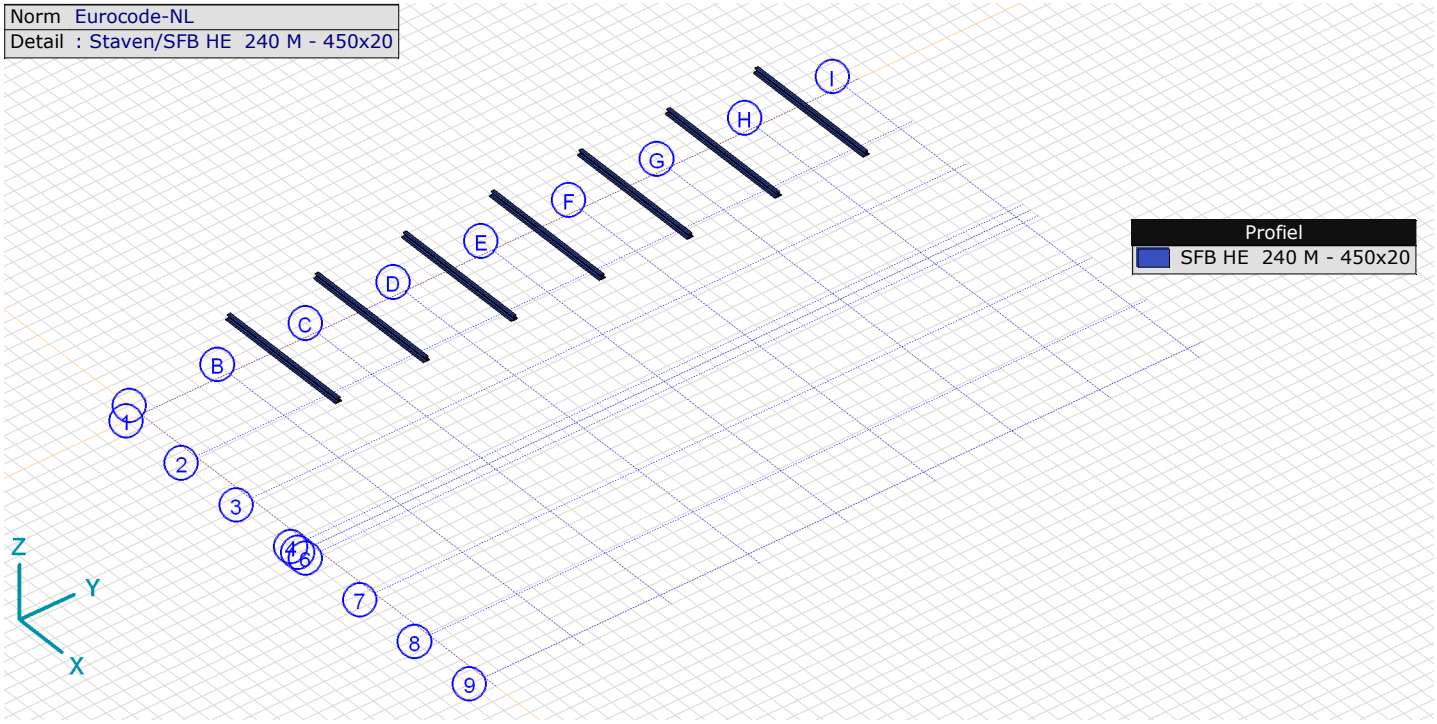
Model: **Model 1.axs** 10-1-2023 Pag. 32

150X150X10,0



Rapport Staaf, 150X150X10,0

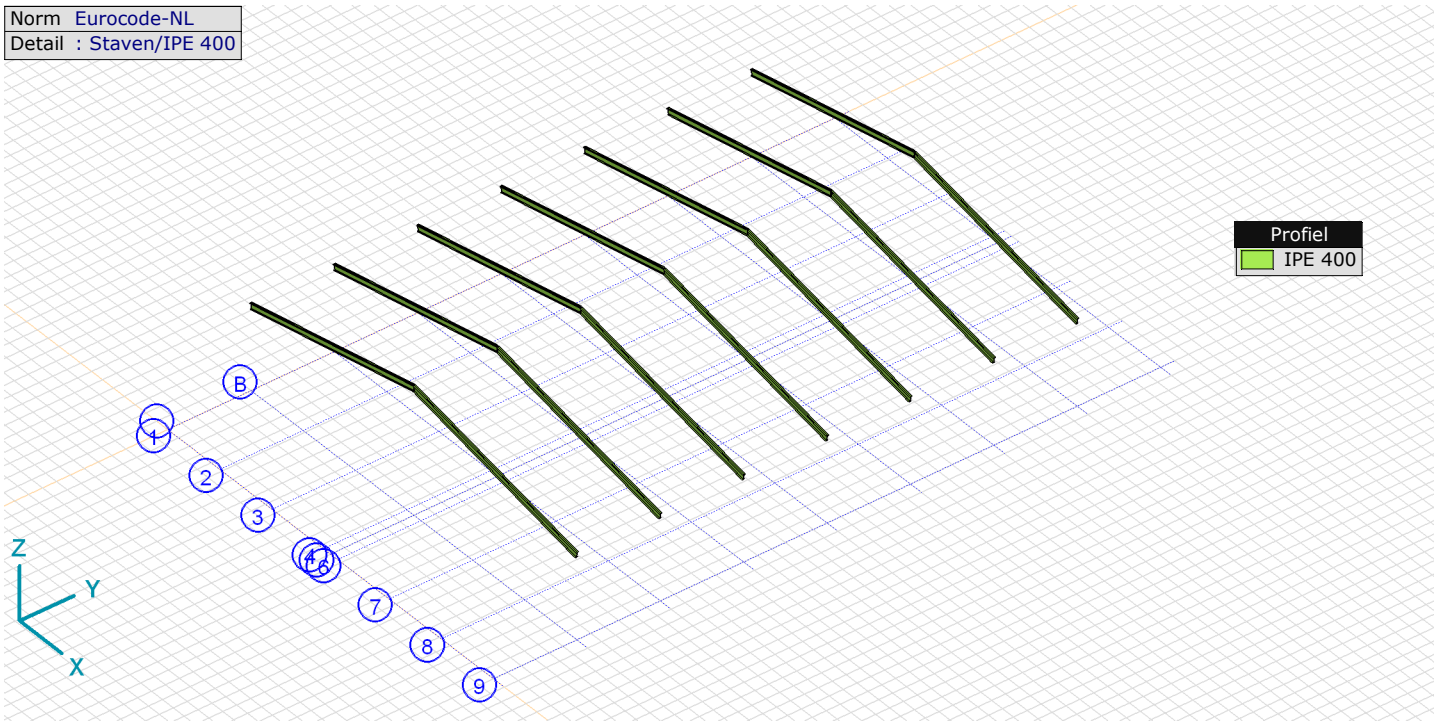
SFB HE 240 M - 450x20



Rapport Staaf, SFB HE 240 M - 450x20

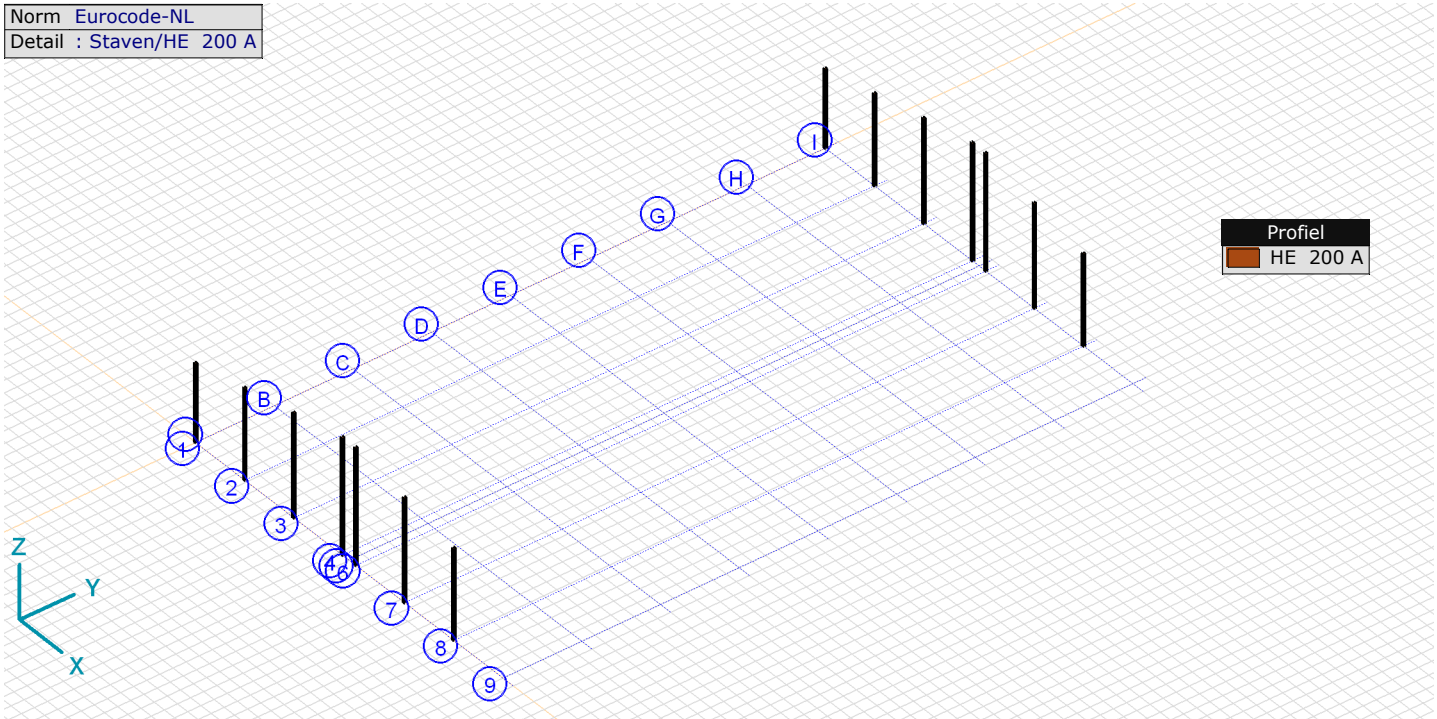
Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort
Ingenieursbureau HeRoCon
Model: **Model 1.axs** 10-1-2023 Pag. 33

IPE 400



Rapport Staaf, IPE 400

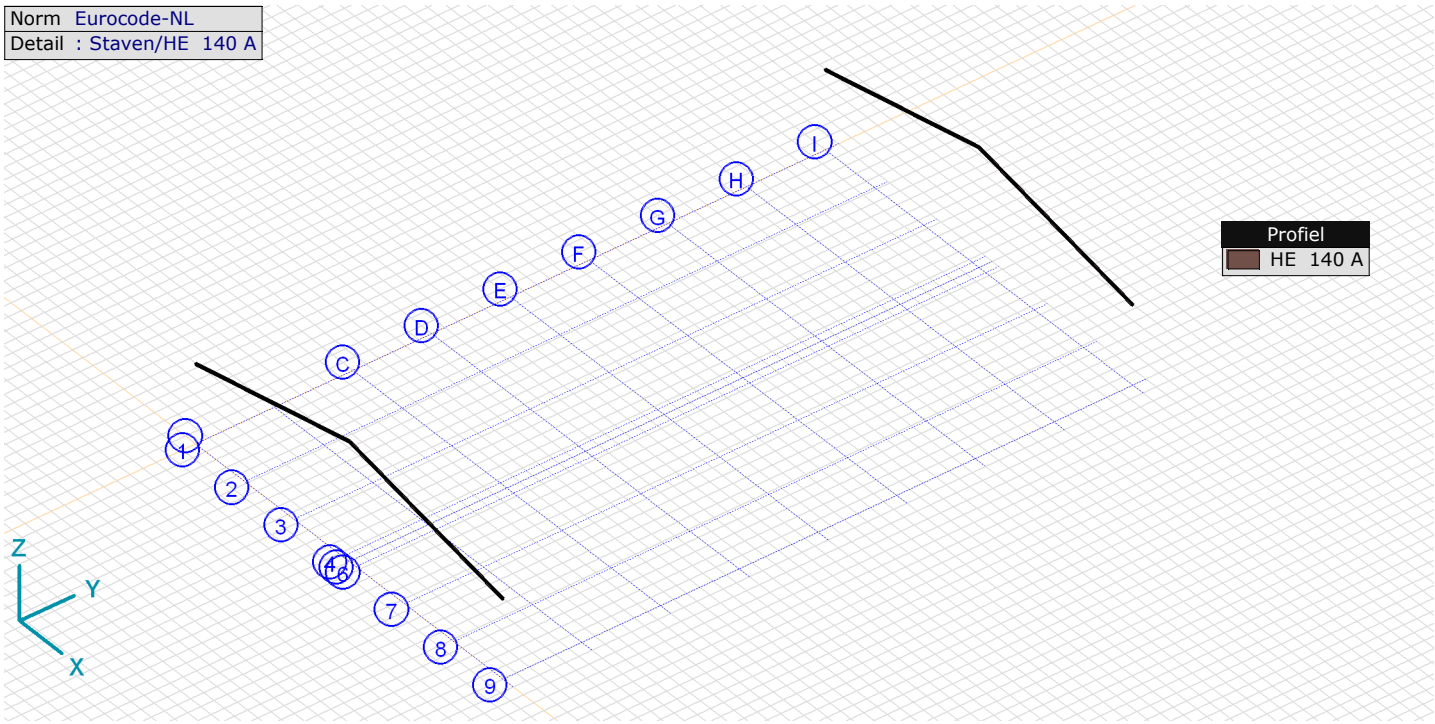
HE 200 A



Rapport Staaf, HE 200 A

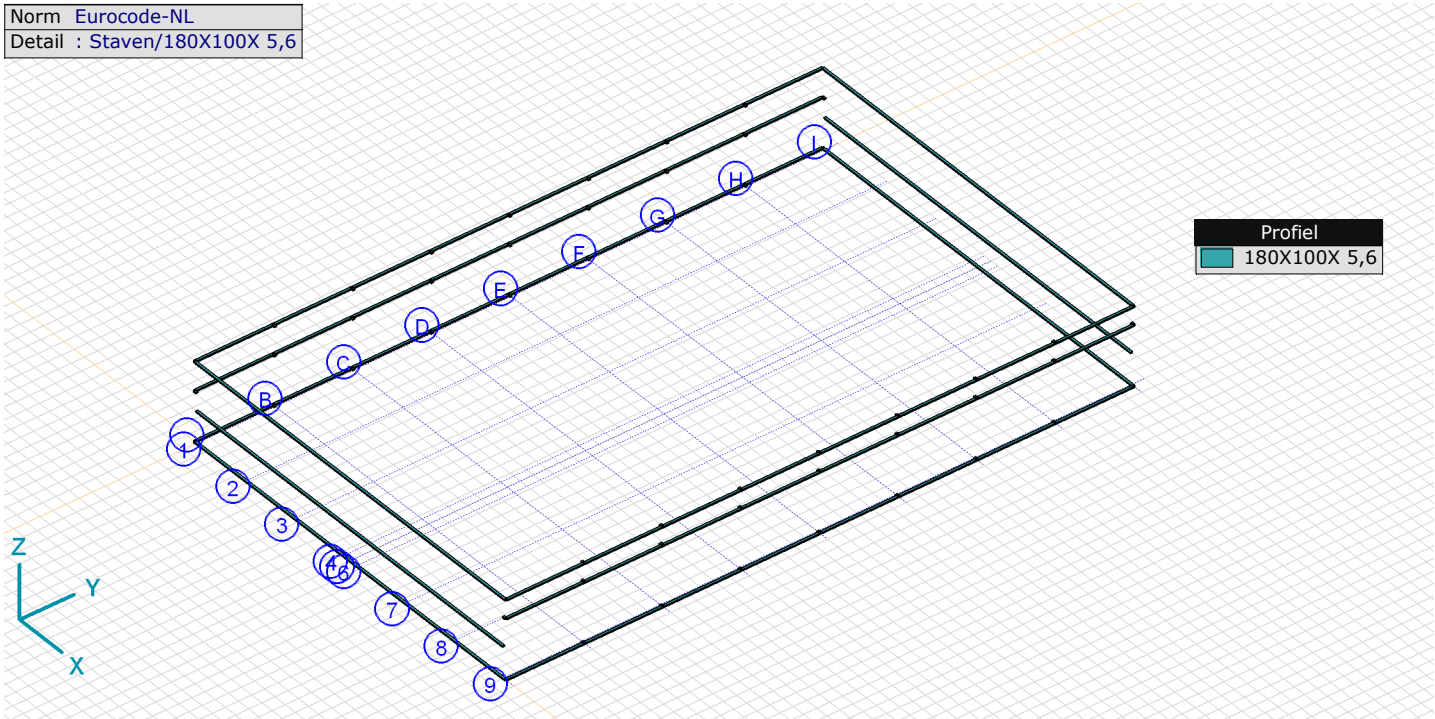
Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort
Ingenieursbureau HeRoCon
Model: **Model 1.axs** 10-1-2023 Pag. 34

HE 140 A



Rapport Staaf, HE 140 A

180X100X 5,6



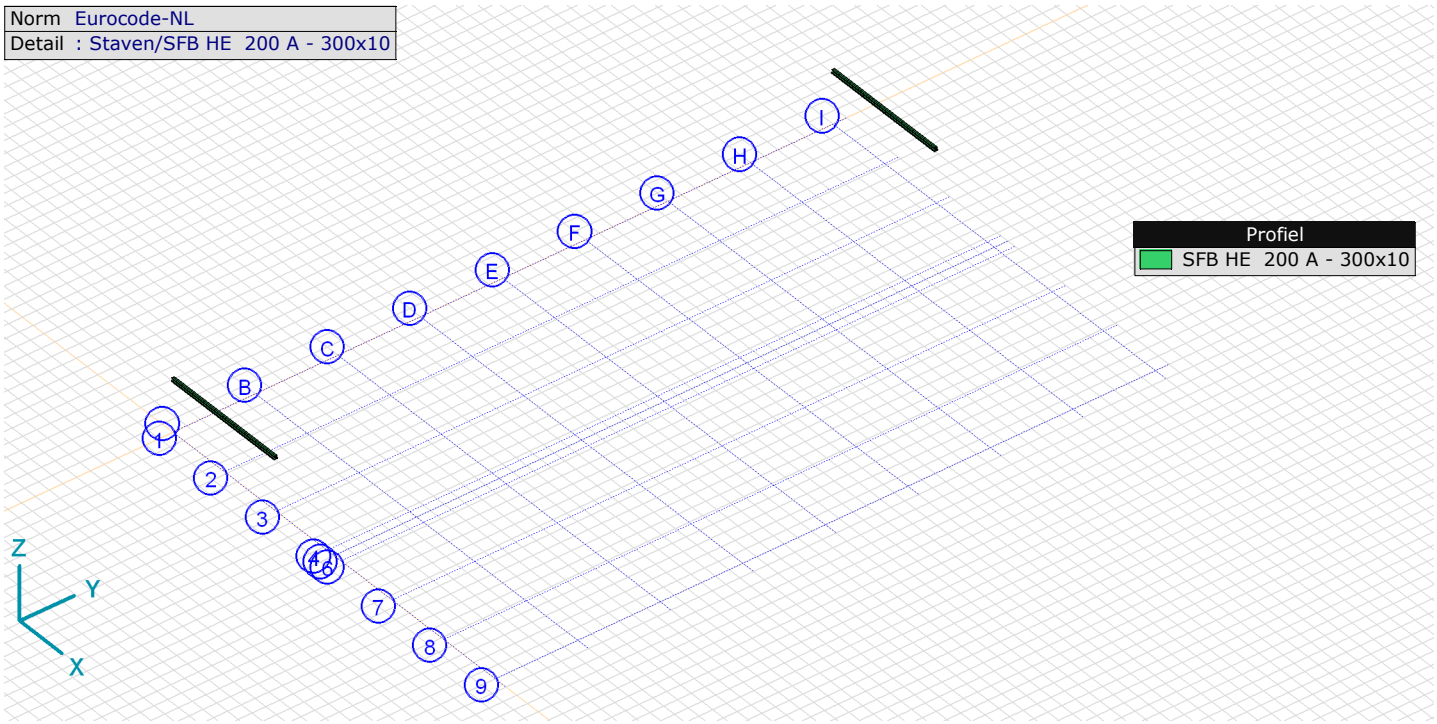
Rapport Staaf, 180X100X 5,6

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

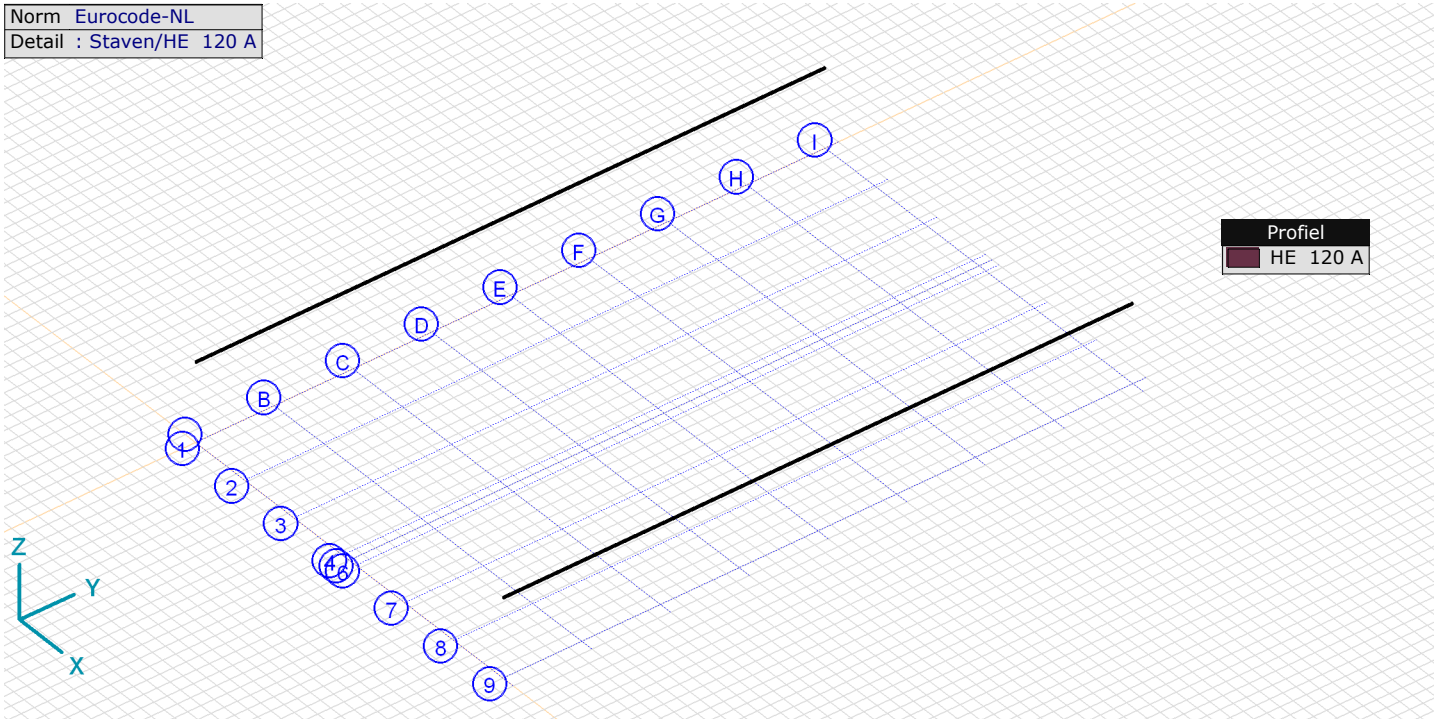
Model: **Model 1.axs** 10-1-2023 Pag. 35

SFB HE 200 A - 300x10



Rapport Staaf, SFB HE 200 A - 300x10

HE 120 A



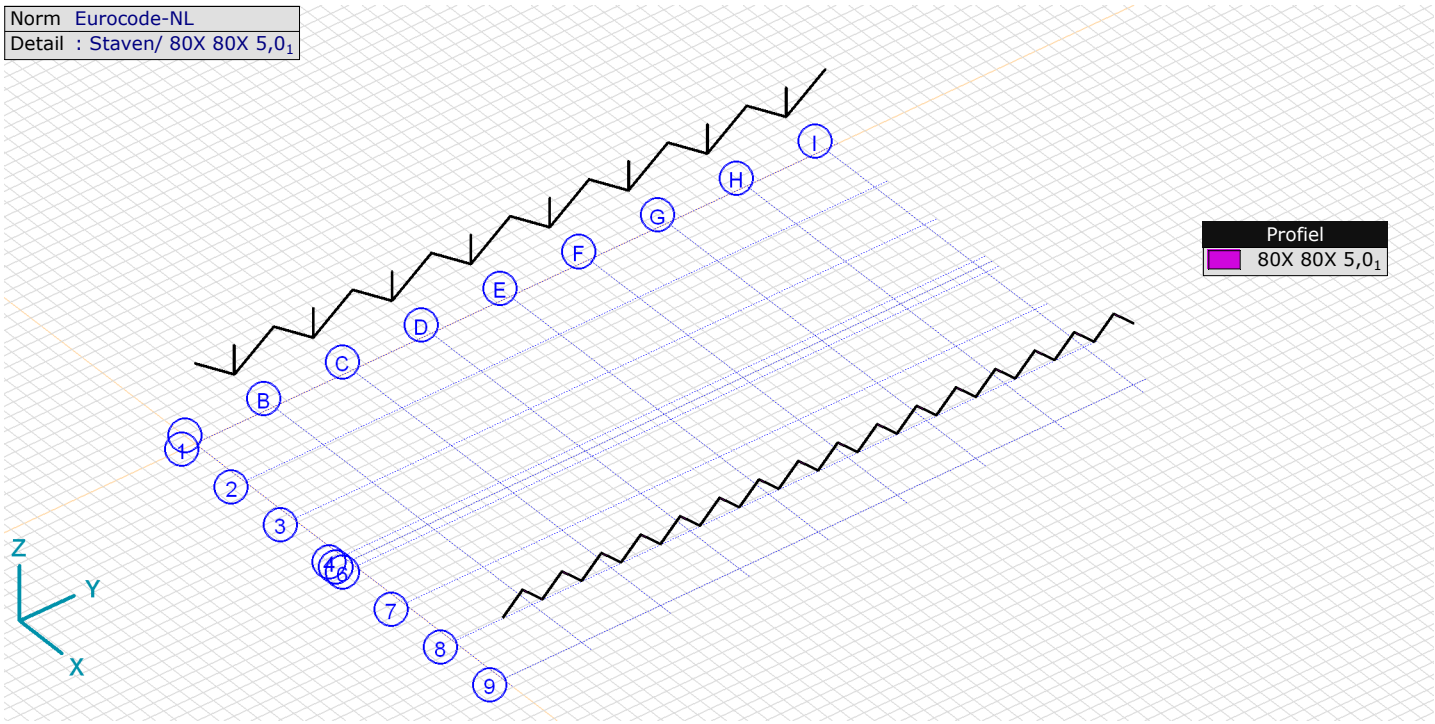
Rapport Staaf, HE 120 A

Nieuwbouw bedrijfshal Achthoven-Oost 13 te Montfoort

Ingenieursbureau HeRoCon

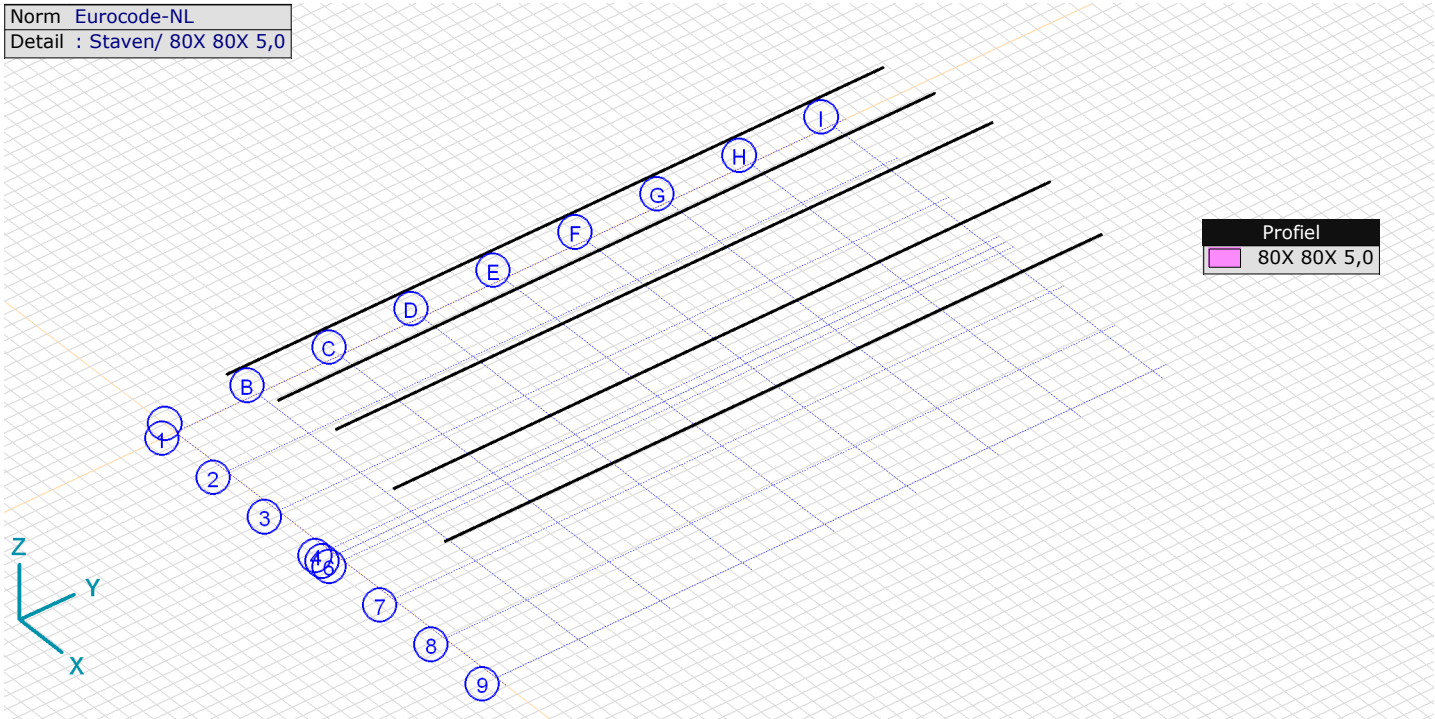
Model: **Model 1.axs** 10-1-2023 Pag. 36

80X 80X 5,0_1



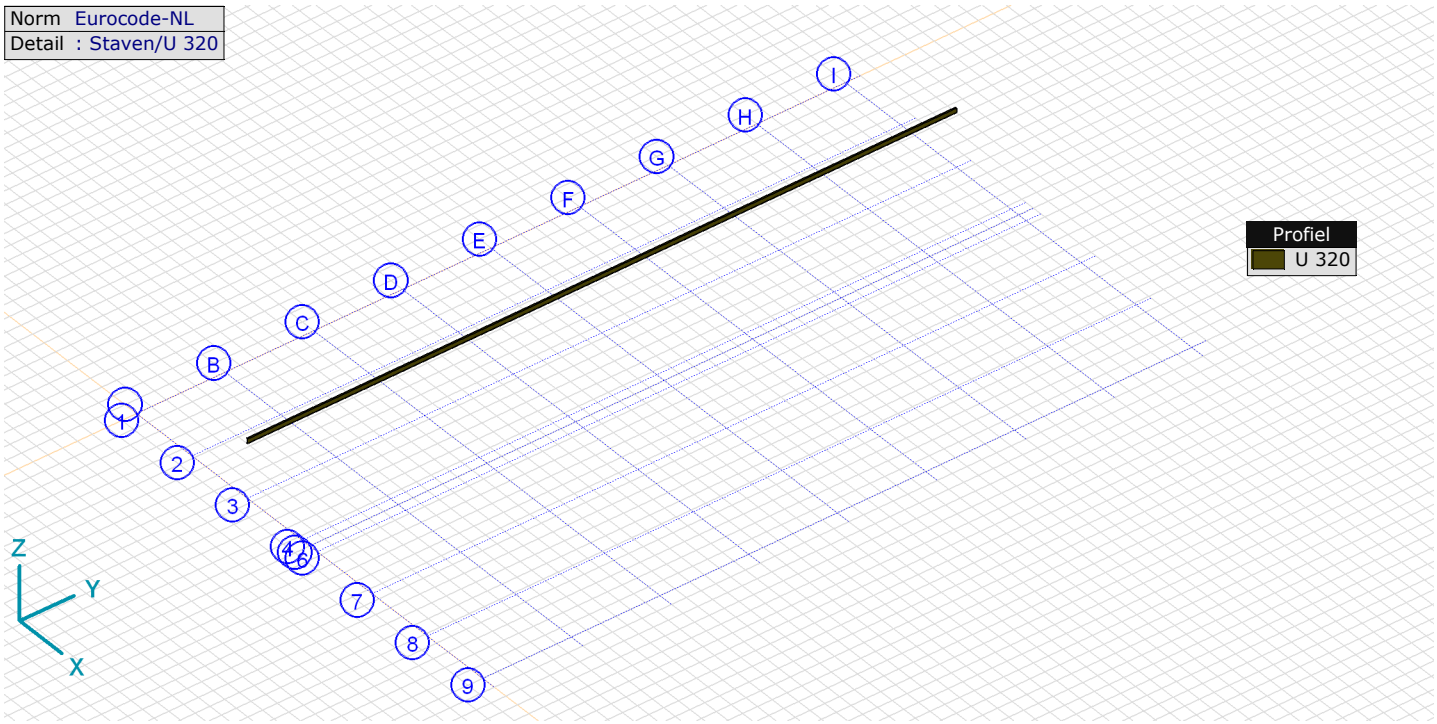
Rapport Staaf, 80X 80X 5,0_1

80X 80X 5,0



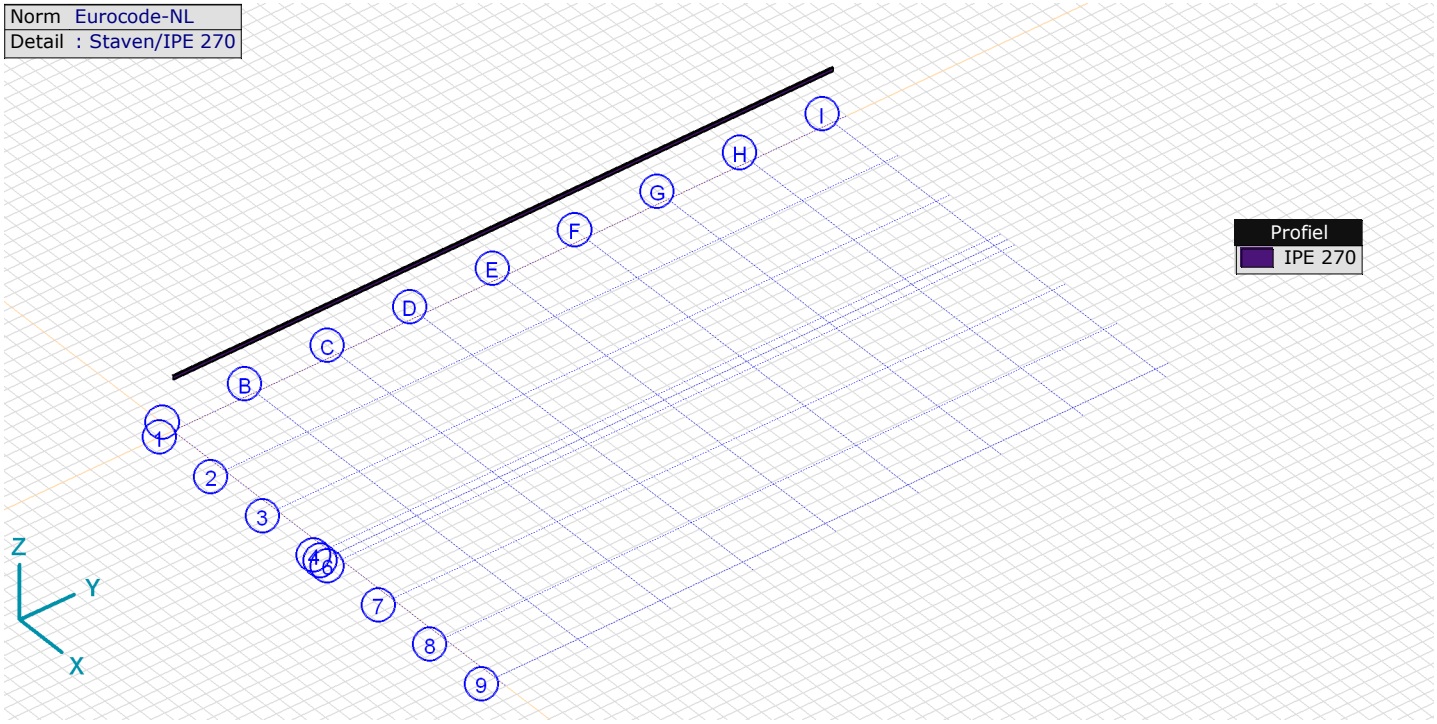
Rapport Staaf, 80X 80X 5,0

U 320



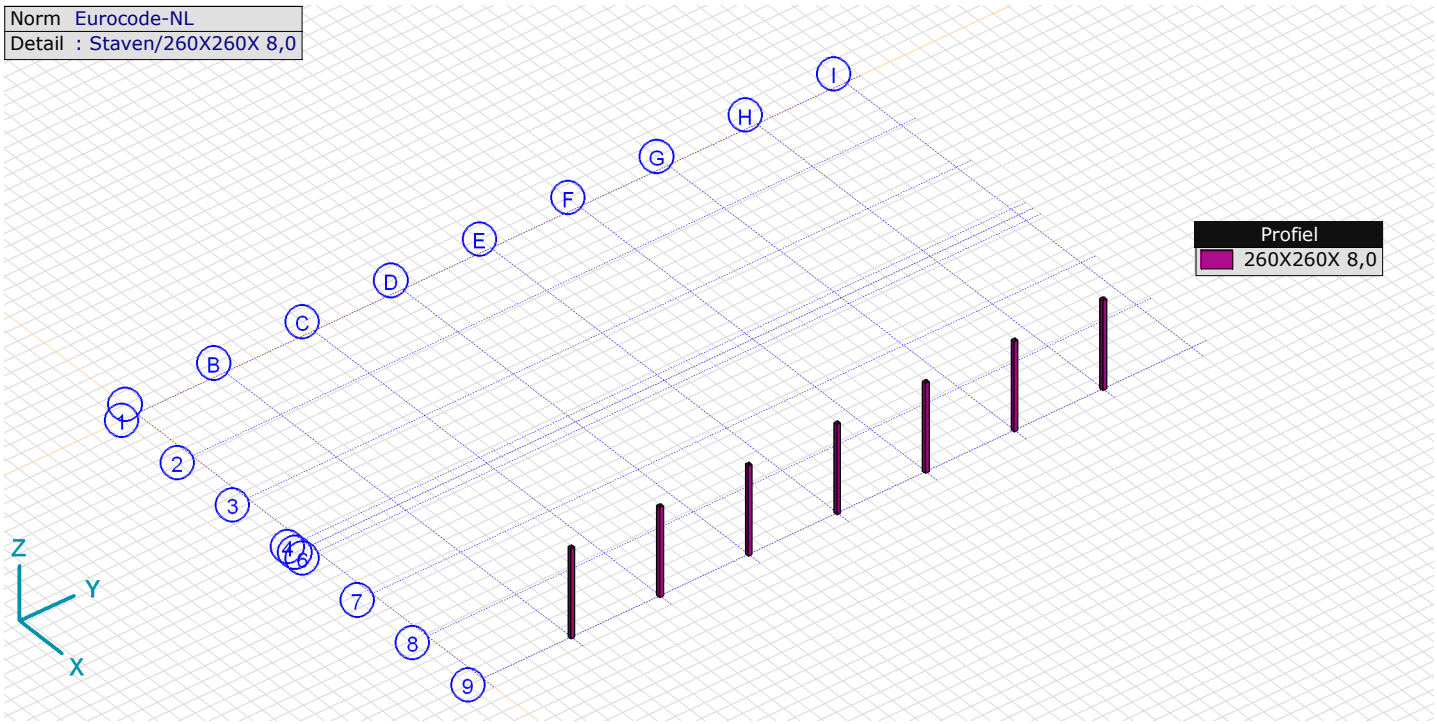
Rapport Staaf, U 320

IPE 270



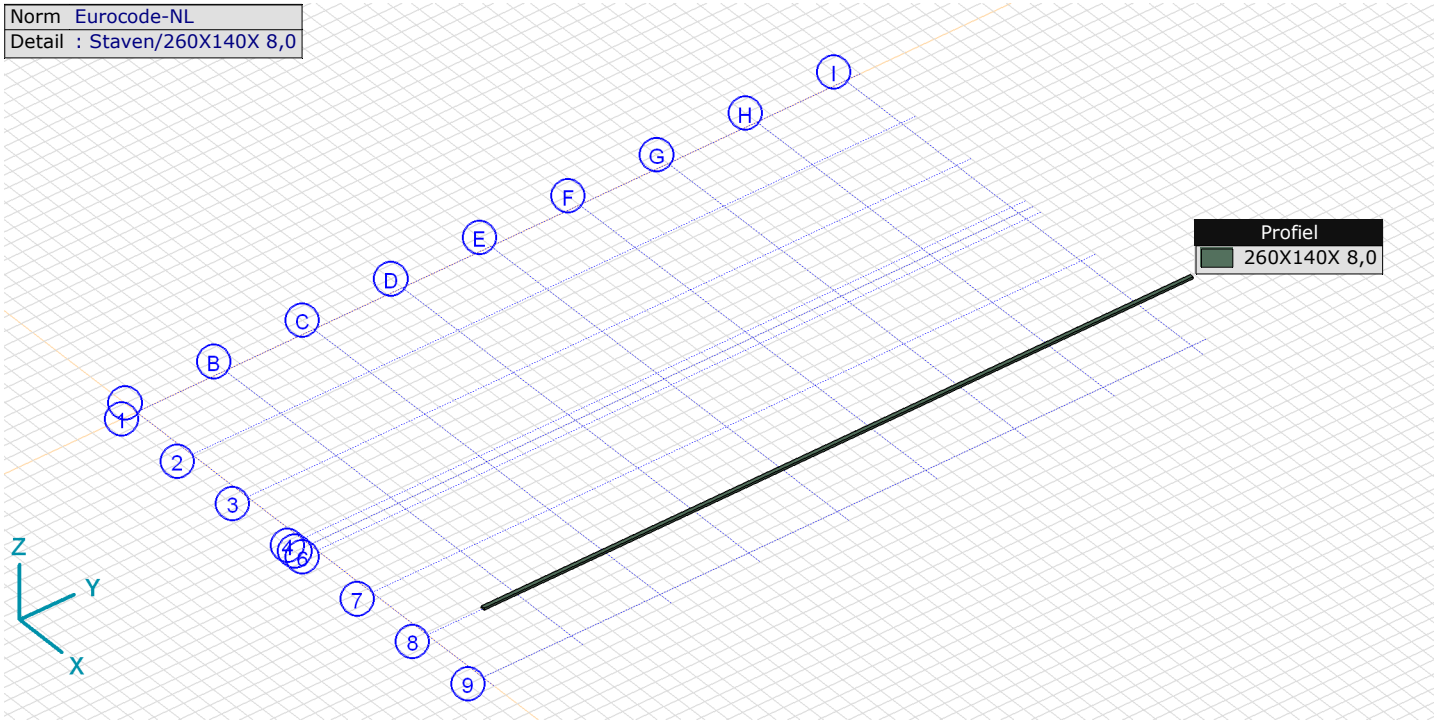
Rapport Staaf, IPE 270

260X260X 8,0



Rapport Staaf, 260X260X 8,0

260X140X 8,0



Rapport Staaf, 260X140X 8,0

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
239(23–18)	HE 260 B	0,944	−349,521	−9,125	−52,512	−0,002	−200,227	28,261
238(34–29)	HE 260 B	0,942	−347,935	−9,129	−52,418	0,002	−199,944	28,244
237(45–40)	HE 260 B	0,939	−348,470	−9,125	−52,166	0,001	−198,994	28,233
235(67–62)	HE 260 B	0,939	−349,290	9,061	−52,205	0,002	−199,060	−28,063
236(56–51)	HE 260 B	0,939	−347,909	−9,131	−52,155	0,001	−198,946	28,253
281(1–10)	HE 260 B	0,897	−360,098	9,078	−48,756	−0,007	−185,561	−27,914
234(78–73)	HE 260 B	0,895	−359,742	−9,144	−48,532	0,007	−184,695	28,116
479(72–73)	HE 260 B	0,891	−43,454	0,269	−133,955	0,008	263,497	0,286
521(2–10)	HE 260 B	0,890	−43,652	−0,244	−133,785	−0,007	263,156	−0,233
490(52–54)	HE 260 B	0,889	−48,969	−0,033	91,461	0	−261,233	−0,134
504(30–32)	HE 260 B	0,889	−48,965	0,001	91,469	0	−261,279	0,004
497(41–43)	HE 260 B	0,889	−48,934	−0,016	91,435	0	−261,182	−0,065
483(63–65)	HE 260 B	0,886	−48,477	−0,050	91,031	0	−260,151	−0,203
511(19–21)	HE 260 B	0,885	−48,473	0,018	91,051	0	−260,255	0,073
477(74–75)	HE 260 B	0,871	−381,476	0,071	53,902	0	204,828	−0,270
519(3–11)	HE 260 B	0,867	−381,434	−0,036	53,703	0	204,073	0,138
484(63–64)	HE 260 B	0,861	−399,139	0,053	52,564	0	199,741	−0,201
491(52–53)	HE 260 B	0,860	−399,839	0,035	52,479	0	199,421	−0,132
498(41–42)	HE 260 B	0,859	−399,769	0,017	52,452	0	199,317	−0,065
512(19–20)	HE 260 B	0,858	−399,058	−0,019	52,438	0	199,266	0,071
505(30–31)	HE 260 B	0,858	−399,795	−0,001	52,417	0	199,184	0,003
518(4–11)	HE 260 B	0,842	6,379	−2,103	80,444	−0,006	−235,777	−8,674
476(74–76)	HE 260 B	0,839	6,223	2,055	80,449	0,006	−235,558	8,478
486(61–62)	HE 260 B	0,795	−37,001	0,033	−112,297	0,007	235,574	0,097
514(17–18)	HE 260 B	0,795	−36,969	−0,008	−112,277	−0,006	235,459	−0,046
493(50–51)	HE 260 B	0,791	−36,227	0,024	−111,357	0,002	234,307	0,052
500(39–40)	HE 260 B	0,791	−36,298	0,012	−111,397	0	234,335	0,023
507(28–29)	HE 260 B	0,790	−36,217	−0,001	−111,353	−0,002	234,256	−0,004
223(54–209)	IPE 400	0,730	−83,310	0,005	49,017	0	129,536	−0,016
227(32–207)	IPE 400	0,730	−83,303	−0,007	49,005	0	129,501	0,021
225(43–208)	IPE 400	0,729	−83,389	−0,001	48,992	0	129,438	0,002
221(65–210)	IPE 400	0,726	−84,414	0,026	48,749	0	128,355	−0,049
229(21–206)	IPE 400	0,726	−84,413	−0,028	48,722	0	128,272	0,053
396(138–140)	SFB HE 200 A - 300x10	0,673	0	0	0	−0,002	−104,399	0
397(139–140)	SFB HE 200 A - 300x10	0,673	0	0	0	0	−104,399	0
447(104–106)	SFB HE 200 A - 300x10	0,673	0	0	0	0,001	−104,399	0
448(105–106)	SFB HE 200 A - 300x10	0,673	0	0	0	0	−104,399	0
211(120–211)	80X 80X 5,0	0,634	−39,408	0	0	0,026	−0,574	0
218(91–205)	80X 80X 5,0	0,633	−39,371	0	0	−0,025	−0,574	0
219(76–211)	IPE 400	0,616	−123,406	0,022	42,233	0	99,164	−0,060
231(4–205)	IPE 400	0,615	−123,804	−0,024	42,141	0	98,808	0,063
492(51–52)	SFB HE 240 M - 450x20	0,549	0	0	346,975	−0,001	460,653	0
499(40–41)	SFB HE 240 M - 450x20	0,549	0	0	346,940	0	460,500	0
506(29–30)	SFB HE 240 M - 450x20	0,549	0	0	346,935	0,001	460,463	0
485(62–63)	SFB HE 240 M - 450x20	0,548	0	0	346,767	−0,002	459,891	0
513(18–19)	SFB HE 240 M - 450x20	0,548	0	0	346,690	0,002	459,519	0
172(101–212)	80X 80X 5,0	0,544	−33,271	0	0	−0,004	−0,574	0
165(129–218)	80X 80X 5,0	0,542	−33,141	0	0	0,004	−0,574	0
520(10–11)	SFB HE 240 M - 450x20	0,541	0	0	−344,095	0,004	455,560	0
478(73–74)	SFB HE 240 M - 450x20	0,541	0	0	−343,970	−0,004	454,989	0
393(117–139)	STRIP 8* 80	0,520 (*)	78,280					
444(90–105)	STRIP 8* 80	0,499 (*)	74,978					
445(86–106)	STRIP 8* 80	0,492 (*)	74,068					
502(25–33)	IPE 400	0,475	−13,662	−0,004	45,307	0,001	86,889	0,014
488(47–55)	IPE 400	0,475	−13,690	0,004	45,299	−0,001	86,854	−0,015
495(36–44)	IPE 400	0,475	−13,779	0	45,281	0	86,827	−0,001
509(14–22)	IPE 400	0,472	−15,077	−0,003	45,022	0,002	86,368	0,007
481(58–66)	IPE 400	0,472	−15,118	0,004	45,008	−0,002	86,305	−0,009
210(4–87)	80X 80X 5,0	0,471	−28,317	0	0	0,083	−0,574	0
203(76–121)	80X 80X 5,0	0,469	−28,196	0	0	−0,083	−0,574	0

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
517(4–9)	IPE 400	0,469	−43,828	−0,128	19,210	−0,005	−70,150	0,071
475(76–77)	IPE 400	0,468	−43,643	0,128	19,167	0,005	−70,066	−0,069
394(114–140)	STRIP 8* 80	0,467 (*)	70,259					
202(9–88)	80X 80X 5,0	0,462	−27,695	0	0	−0,013	−0,574	0
423(87–106)	STRIP 8* 80	0,461 (*)	69,373					
195(77–132)	80X 80X 5,0	0,460	−27,540	0	0	0,013	−0,574	0
372(121–140)	STRIP 8* 80	0,456 (*)	68,539					
194(6–80)	80X 80X 5,0	0,436	−25,931	0	0	0,013	−0,574	0
187(69–128)	80X 80X 5,0	0,434	−25,768	0	0	−0,013	−0,574	0
461(80–98)	HE 140 A	0,413	−10,002	0,808	1,656	−0,033	−1,156	−6,421
410(128–133)	HE 140 A	0,413	−9,979	−0,808	1,656	0,033	−1,157	6,421
419(119–120)	HE 140 A	0,413	7,557	0,050	10,537	−0,001	8,915	−0,058
470(83–91)	HE 140 A	0,413	7,737	−0,050	10,536	0,001	8,914	0,058
59(240–243)	180X100X 5,6	0,411	24,691	−3,230	7,962	−0,280	−9,604	−5,574
97(223–224)	180X100X 5,6	0,410	24,675	3,226	−7,965	0,292	−9,611	−5,561
182(25–214)	IPE 400	0,409	4,157	−0,003	−41,995	0	84,102	0,013
178(47–216)	IPE 400	0,409	4,126	0,002	−41,973	0	84,040	−0,015
180(36–215)	IPE 400	0,409	4,032	−0,001	−41,977	0	84,032	−0,001
184(14–213)	IPE 400	0,408	2,664	−0,028	−41,948	0	83,652	0,006
176(58–217)	IPE 400	0,407	2,618	0,026	−41,904	0	83,533	−0,008
474(69–77)	IPE 400	0,402	−54,335	0,009	37,315	−0,004	72,935	−0,030
516(6–9)	IPE 400	0,402	−54,601	−0,008	37,272	0,004	72,915	0,029
412(121–131)	HE 140 A	0,396	−7,839	0,813	−1,623	−0,042	−1,066	6,379
463(87–95)	HE 140 A	0,396	−7,824	−0,813	−1,623	0,042	−1,067	−6,379
186(6–212)	IPE 400	0,393	−24,120	−0,021	−41,161	0	72,472	0,028
174(69–218)	IPE 400	0,392	−23,992	0,020	−41,105	0	72,390	−0,030
57(241–244)	180X100X 5,6	0,387	23,518	−2,566	10,360	0,015	−12,300	−3,095
101(219–220)	180X100X 5,6	0,386	23,535	2,566	−10,357	−0,018	−12,291	−3,095
465(80–101)	HE 140 A	0,376	−0,539	−0,013	9,359	0	8,973	0,061
414(128–129)	HE 140 A	0,375	−0,385	0,013	9,359	0	8,972	−0,061
428(102–111)	HE 200 A	0,375	−3,998	1,036	−1,153	0	30,783	1,845
377(134–145)	HE 200 A	0,371	−4,002	0,973	1,153	0	−30,783	1,639
455(79–102)	HE 200 A	0,364	−7,591	−0,769	13,238	0	31,096	1,845
459(84–92)	180X100X 5,6	0,364	8,336	−4,506	2,192	−0,039	9,874	−3,611
460(88–98)	HE 140 A	0,363	−8,956	9,513	−1,853	−0,033	−1,156	−6,421
409(132–133)	HE 140 A	0,362	−8,936	−9,513	−1,856	0,033	−1,157	6,421
464(82–101)	HE 140 A	0,362	−12,989	0,075	−10,606	0	8,990	0,062
413(129–130)	HE 140 A	0,361	−12,635	−0,074	−10,605	0	8,989	−0,062
3(267–270)	180X100X 5,6	0,360	19,781	−2,974	6,529	−0,294	−7,800	−5,249
45(246–249)	180X100X 5,6	0,360	19,781	2,972	−6,529	0,303	−7,800	−5,244
404(134–135)	HE 200 A	0,360	−7,594	−0,683	−13,238	0	−31,096	1,639
418(120–121)	HE 140 A	0,357	−2,843	−0,013	−9,349	0	8,870	−0,067
2(268–271)	180X100X 5,6	0,357	8,527	−2,602	9,500	0,944	−10,286	−3,149
44(247–250)	180X100X 5,6	0,356	8,527	2,601	−9,500	−0,946	−10,286	−3,145
411(131–132)	HE 140 A	0,356	−7,523	9,448	1,713	−0,042	−1,066	6,379
462(88–95)	HE 140 A	0,356	−7,512	−9,447	1,711	0,042	−1,067	−6,379
469(87–91)	HE 140 A	0,356	−2,651	0,013	−9,348	0	8,869	0,067
232(2–205)	IPE 400	0,356	−141,087	0,080	−30,489	0	41,740	0,339
220(72–211)	IPE 400	0,353	−140,743	−0,077	−30,397	0	41,198	−0,326
65(237–240)	180X100X 5,6	0,345	7,448	−2,967	6,506	−0,126	−6,814	−5,098
95(224–225)	180X100X 5,6	0,345	7,440	2,963	−6,509	0,131	−6,822	−5,087
63(238–241)	180X100X 5,6	0,336	0,467	−2,237	−9,545	−0,086	10,493	−2,213
93(220–226)	180X100X 5,6	0,336	0,597	2,237	9,541	0,085	10,486	−2,212
399(113–139)	HE 200 A	0,336	−179,472	−4,398	−11,695	0	−10,082	4,171
71(234–237)	180X100X 5,6	0,333	5,526	−2,994	6,287	0,015	−6,143	−5,156
427(100–112)	HE 200 A	0,333	−12,337	0,854	3,464	0	−25,700	2,145
85(225–230)	180X100X 5,6	0,333	5,526	2,990	−6,290	−0,011	−6,151	−5,145
398(118–140)	HE 200 A	0,330	−184,505	−4,670	−11,302	0	−8,299	4,542
222(61–210)	IPE 400	0,327	−63,738	−0,357	13,904	0,005	−36,455	−1,430
233(115–138)	HE 200 A	0,327	−104,652	−2,002	5,757	0,001	19,754	2,150

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
230(17–206)	IPE 400	0,327	−63,734	0,360	13,879	−0,005	−36,289	1,444
280(84–104)	HE 200 A	0,326	−104,889	−1,798	−5,692	−0,001	−19,558	2,203
466(99–100)	HE 200 A	0,325	−15,948	−0,894	−10,990	0	−25,861	2,145
224(50–209)	IPE 400	0,322	−65,846	−0,307	13,805	0,005	−36,058	−1,233
228(28–207)	IPE 400	0,322	−65,839	0,310	13,791	−0,005	−35,959	1,246
376(127–146)	HE 200 A	0,316	−1,457	1,081	3,543	0	−26,220	1,683
435(94–109)	HE 200 A	0,315	−18,252	1,312	−0,805	0	−21,722	−2,817
429(80–111)	HE 200 A	0,314	1,070	−0,981	−14,338	0	27,530	−1,883
378(128–145)	HE 200 A	0,314	1,067	−0,970	14,338	0	−27,530	−1,863
431(97–110)	HE 200 A	0,313	−2,790	0,981	0,731	0	25,448	−1,671
380(125–144)	HE 200 A	0,312	−2,772	0,917	−0,731	0	−25,450	−1,650
226(39–208)	IPE 400	0,312	−68,494	0,265	13,495	−0,006	−34,464	1,064
9(264–267)	180X100X 5,6	0,309	5,670	−2,769	5,346	−0,076	−5,551	−4,898
39(249–252)	180X100X 5,6	0,308	5,670	2,765	−5,346	0,049	−5,551	−4,886
434(95–109)	HE 200 A	0,308	−15,924	−0,982	7,772	0	−22,305	−2,817
415(126–127)	HE 200 A	0,307	−5,068	−0,701	−10,922	0	−26,096	1,683
60(70–240)	180X100X 5,6	0,305	7,507	−4,247	−11,474	−6,991	−0,283	−0,768
96(7–224)	180X100X 5,6	0,304	7,507	−4,247	11,470	6,977	0,293	−0,764
384(123–143)	HE 200 A	0,303	−3,347	0,938	−0,801	0	−24,419	−1,688
69(235–238)	180X100X 5,6	0,302	2,463	−2,257	−9,059	−0,001	9,094	−2,257
87(226–229)	180X100X 5,6	0,302	2,522	2,257	9,059	0,002	9,094	−2,257
408(115–118)	180X100X 5,6	0,301	2,307	1,595	−2,192	0,041	−9,874	1,717
81(229–232)	180X100X 5,6	0,300	2,639	2,257	9,045	0,001	9,050	−2,256
75(232–235)	180X100X 5,6	0,300	2,628	−2,257	−9,044	0,001	9,046	−2,257
15(261–264)	180X100X 5,6	0,300	4,017	−2,788	5,181	−0,001	−5,045	−4,937
33(252–255)	180X100X 5,6	0,299	4,017	2,783	−5,181	0,001	−5,045	−4,923
420(117–118)	HE 200 A	0,297	−187,119	0,832	3,152	0	7,472	−1,996
430(98–110)	HE 200 A	0,296	−0,462	−0,582	−8,704	0	24,980	−1,671
379(133–144)	HE 200 A	0,296	−0,444	−0,575	8,704	0	−24,980	−1,650
383(131–143)	HE 200 A	0,295	−1,019	−0,588	8,633	0	−24,777	−1,688
14(262–265)	180X100X 5,6	0,294	1,395	−2,423	8,158	0,004	−7,974	−2,757
32(253–256)	180X100X 5,6	0,294	1,395	2,423	−8,158	0	−7,974	−2,754
402(127–136)	180X100X 5,6	0,294	−2,225	0	−0,230	0,633	−10,494	2,167
83(230–231)	180X100X 5,6	0,294	0,040	−2,989	4,372	0,002	−4,294	−5,147
77(231–234)	180X100X 5,6	0,294	0,039	2,989	−4,373	−0,001	−4,295	−5,146
12(1–267)	180X100X 5,6	0,293	6,180	−3,715	−9,501	−6,732	0,005	−0,578
453(100–103)	180X100X 5,6	0,292	−1,518	0	0,230	−0,633	10,494	2,167
48(78–249)	180X100X 5,6	0,292	6,180	−3,714	9,501	6,704	−0,005	−0,575
489(54–55)	IPE 400	0,288	−5,069	−0,004	−2,190	0,001	−53,316	0,002
503(32–33)	IPE 400	0,288	−5,039	0,005	−2,193	−0,001	−53,326	0
496(43–44)	IPE 400	0,288	−5,157	0	−2,171	0	−53,268	0,001
450(85–105)	HE 200 A	0,287	−177,606	−0,732	11,667	0	9,985	1,974
510(21–22)	IPE 400	0,286	−6,455	0,012	−1,912	−0,002	−52,585	0,002
482(65–66)	IPE 400	0,286	−6,499	−0,011	−1,909	0,002	−52,573	0
86(15–225)	180X100X 5,6	0,285	2,550	−3,862	0,308	−6,533	0,299	−0,691
395(113–118)	180X100X 5,6	0,285	5,715	0	0	0,014	8,679	2,167
403(127–134)	180X100X 5,6	0,284	5,880	0	0	−0,541	8,679	2,167
454(100–102)	180X100X 5,6	0,284	6,059	0	0	0,541	−8,679	2,167
446(85–92)	180X100X 5,6	0,284	6,254	0	0	−0,012	−8,679	2,167
66(59–237)	180X100X 5,6	0,284	8,910	−3,870	−2,126	6,508	−0,196	−0,697
467(96–97)	HE 200 A	0,283	−6,739	−0,775	9,847	0	23,256	1,861
84(26–230)	180X100X 5,6	0,283	8,854	−3,875	1,445	−6,497	0,014	−0,834
72(48–234)	180X100X 5,6	0,283	4,460	−3,881	−6,269	−6,496	0,039	−0,836
78(37–231)	180X100X 5,6	0,283	2,467	−3,878	1,530	−6,490	−0,005	−0,869
24(34–261)	180X100X 5,6	0,282	3,668	−3,483	−4,713	−6,478	−0,002	−0,755
36(56–255)	180X100X 5,6	0,282	2,079	−3,481	0,598	−6,477	0	−0,755
30(45–258)	180X100X 5,6	0,282	2,028	−3,481	1,234	−6,475	−0,001	−0,762
42(67–252)	180X100X 5,6	0,282	2,100	−3,488	0,793	−6,470	−0,001	−0,707
18(23–264)	180X100X 5,6	0,281	5,315	−3,460	−0,158	−6,443	0,001	−0,680
416(124–125)	HE 200 A	0,279	−6,721	−0,688	−9,847	0	−23,257	1,652

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
468(93–94)	HE 200 A	0,278	−7,316	−0,791	9,918	0	22,590	1,899
449(92–106)	HE 200 A	0,278	−191,075	−1,579	7,227	0	5,392	3,165
405(125–134)	180X100X 5,6	0,277	6,984	0	0	−0,228	8,499	2,122
456(97–102)	180X100X 5,6	0,277	7,240	0	0	0,228	−8,499	2,122
471(90–92)	HE 200 A	0,276	−207,807	−0,587	−1,978	0	−4,691	1,408
407(113–123)	180X100X 5,6	0,275	9,202	0	0	1,265	8,499	2,122
458(85–94)	180X100X 5,6	0,274	9,616	0	0	−1,266	−8,499	2,122
417(122–123)	HE 200 A	0,274	−7,296	−0,704	−9,918	0	−22,594	1,689
422(113–114)	HE 200 A	0,268	−183,715	0,828	1,387	0	4,999	−1,987
27(255–258)	180X100X 5,6	0,268	0,048	−2,786	3,611	0,001	−3,545	−4,934
21(258–261)	180X100X 5,6	0,267	0,048	2,782	−3,611	0,001	−3,545	−4,920
440(110–111)	180X100X 5,6	0,264	0,654	0,015	−0,085	−0,636	7,690	2,115
389(144–145)	180X100X 5,6	0,263	1,931	0,015	0,085	0,636	−7,690	2,115
442(108–109)	180X100X 5,6	0,263	−9,273	−0,015	−0,094	0,536	−8,459	2,115
391(142–143)	180X100X 5,6	0,263	−9,228	−0,015	0,094	−0,534	8,459	2,115
50(138–247)	180X100X 5,6	0,259	10,883	−1,913	−8,527	−1,082	−9,702	0,946
5(104–271)	180X100X 5,6	0,259	10,883	−1,912	8,527	1,078	9,702	0,944
421(115–116)	HE 200 A	0,257	−103,737	0,852	7,779	0,003	13,369	−0,884
201(9–22)	80X 80X 5,0	0,256	−13,618	0	0	0,002	−0,574	0
196(66–77)	80X 80X 5,0	0,256	−13,613	0	0	−0,002	−0,574	0
200(22–33)	80X 80X 5,0	0,253	−13,414	0	0	0	−0,574	0
197(55–66)	80X 80X 5,0	0,253	−13,409	0	0	0	−0,574	0
199(33–44)	80X 80X 5,0	0,251	−13,327	0	0	0	−0,574	0
198(44–55)	80X 80X 5,0	0,251	−13,323	0	0	0	−0,574	0
472(84–89)	HE 200 A	0,248	−105,167	0,665	−7,733	−0,003	−13,292	−0,455
381(139–142)	HE 200 A	0,245	−31,924	4,395	−7,525	−0,057	−11,554	−4,515
432(105–108)	HE 200 A	0,245	−31,935	4,440	7,562	0,057	11,490	−4,527
473(85–86)	HE 200 A	0,244	−181,849	−0,395	−1,415	0	−5,061	0,949
424(107–108)	180X100X 5,6	0,244	−14,265	−0,016	−0,095	−0,154	−7,270	1,935
373(141–142)	180X100X 5,6	0,243	−14,171	−0,016	0,095	0,152	7,270	1,935
38(250–253)	180X100X 5,6	0,243	0,104	−2,432	5,750	−0,055	−5,741	−2,797
8(265–268)	180X100X 5,6	0,243	0,104	2,432	−5,750	0,055	−5,741	−2,796
494(46–47)	150X150X10,0	0,241	−89,837	0	0,355	0	2,813	0,001
501(35–36)	150X150X10,0	0,241	−89,823	0	0,353	0	2,794	0
508(24–25)	150X150X10,0	0,241	−89,867	0	0,352	0	2,786	−0,001
487(57–58)	150X150X10,0	0,239	−89,469	0	0,347	0	2,748	0,002
515(13–14)	150X150X10,0	0,238	−89,526	0	0,340	0	2,692	−0,002
185(8–212)	IPE 400	0,237	−12,644	0,089	−0,733	0	−44,386	0,043
173(71–218)	IPE 400	0,237	−12,645	−0,088	−0,726	0	−44,357	−0,043
443(83–107)	180X100X 5,6	0,236	0,083	−0,016	−0,046	0,278	7,101	1,709
438(82–112)	180X100X 5,6	0,235	0,641	0,016	0,046	0,647	7,101	1,709
392(119–141)	180X100X 5,6	0,235	−25,146	−0,016	0,095	−0,158	5,895	1,709
98(81–223)	180X100X 5,6	0,233	3,899	−3,095	−11,987	−5,337	0,049	−0,848
51(116–246)	180X100X 5,6	0,232	3,228	−2,947	−9,807	−5,330	−0,003	−1,162
54(137–243)	180X100X 5,6	0,232	3,902	−3,091	12,001	5,325	−0,044	−0,833
387(130–146)	180X100X 5,6	0,232	3,710	0,016	−0,046	−0,659	−7,101	1,709
439(111–112)	180X100X 5,6	0,231	0,801	0,016	−0,087	0,135	6,609	1,935
6(89–270)	180X100X 5,6	0,231	3,228	−2,937	9,808	5,301	0,003	−1,141
388(145–146)	180X100X 5,6	0,231	1,183	0,016	0,087	−0,134	−6,609	1,935
382(121–142)	HE 200 A	0,229	−28,530	−2,351	5,661	−0,057	−10,869	−4,515
433(87–108)	HE 200 A	0,228	−28,541	−2,358	−5,623	0,057	10,797	−4,527
20(259–262)	180X100X 5,6	0,227	−0,002	−2,257	−9,041	0	9,041	−2,258
26(256–259)	180X100X 5,6	0,227	−0,001	−2,257	−6,575	0	6,575	−2,257
183(16–213)	IPE 400	0,204	−4,444	0,087	−1,301	0	−39,977	0,045
175(60–217)	IPE 400	0,204	−4,452	−0,086	−1,294	0	−39,959	−0,044
209(4–21)	80X 80X 5,0	0,204	−10,078	0	0	0,022	−0,574	0
204(65–76)	80X 80X 5,0	0,203	−10,030	0	0	−0,021	−0,574	0
188(58–69)	80X 80X 5,0	0,202	−9,943	0	0	0,037	−0,574	0
193(6–14)	80X 80X 5,0	0,202	−9,937	0	0	−0,037	−0,574	0
181(27–214)	IPE 400	0,201	−3,542	0,018	−1,334	0	−39,869	0,007

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Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
179(38–215)	IPE 400	0,201	−4,333	0	2,266	0	−39,638	0
177(49–216)	IPE 400	0,201	−3,547	−0,017	−1,330	0	−39,861	−0,007
385(140–141)	HE 200 A	0,199	−12,173	4,919	6,007	0,015	4,921	−6,280
192(14–25)	80X 80X 5,0	0,199	−9,760	0	0	0	−0,574	0
191(25–36)	80X 80X 5,0	0,199	−9,758	0	0	0,001	−0,574	0
190(36–47)	80X 80X 5,0	0,199	−9,751	0	0	0	−0,574	0
189(47–58)	80X 80X 5,0	0,199	−9,750	0	0	0,001	−0,574	0
368(103–148)	150X150X10,0	0,192	0,096	3,024	3,530	−0,371	−3,853	8,572
436(106–107)	HE 200 A	0,192	−1,390	5,108	3,261	0,017	7,091	−5,677
283(130–178)	150X150X10,0	0,191	2,521	−3,903	−5,015	−1,022	7,021	−5,464
437(91–107)	HE 200 A	0,191	1,648	−5,913	−7,710	0,017	7,401	−5,677
386(120–141)	HE 200 A	0,191	1,648	−5,904	7,719	−0,017	−7,411	−5,668
369(82–148)	150X150X10,0	0,190	2,499	3,899	−4,984	1,025	6,978	5,459
282(136–178)	150X150X10,0	0,188	0,214	−3,011	3,446	0,366	−3,593	−8,581
426(101–112)	HE 200 A	0,183	3,257	−2,322	−14,514	0	13,934	−2,229
480(68–69)	150X150X10,0	0,182	−80,754	0	0,075	0	0,593	0,003
375(129–146)	HE 200 A	0,182	3,253	−2,299	14,514	0	−13,934	−2,207
522(5–6)	150X150X10,0	0,180	−80,765	0	0,062	0	0,492	−0,003
43(248–251)	180X100X 5,6	0,176	2,514	1,558	−4,069	−0,172	−4,780	−1,695
1(269–272)	180X100X 5,6	0,176	2,560	−1,558	4,066	0,170	−4,768	−1,695
154(8–101)	L 80X 80X 8	0,173 (*)	49,932					
152(119–211)	L 80X 80X 8	0,173 (*)	49,920					
163(83–205)	L 80X 80X 8	0,173 (*)	49,837					
141(71–129)	L 80X 80X 8	0,173 (*)	49,824					
208(21–32)	80X 80X 5,0	0,172	−7,897	0	0	0,001	−0,574	0
205(54–65)	80X 80X 5,0	0,171	−7,868	0	0	−0,001	−0,574	0
295(60–170)	260X260X 8,0	0,171	0,765	−10,482	24,036	0,379	−33,016	−12,793
303(16–154)	260X260X 8,0	0,170	0,812	−10,523	−23,940	−0,383	32,888	−12,577
297(49–166)	260X260X 8,0	0,166	0,122	−8,673	24,070	0,779	−32,985	−11,529
301(27–158)	260X260X 8,0	0,165	0,149	−8,698	−23,975	−0,783	32,857	−11,414
296(59–170)	260X260X 8,0	0,165	−18,213	2,653	−8,876	0,247	−34,391	−12,898
304(15–154)	260X260X 8,0	0,164	−18,168	2,610	8,833	−0,274	34,226	−12,700
452(81–103)	150X150X10,0	0,163	−1,709	−4,209	−1,778	−0,371	−3,853	8,150
298(48–166)	260X260X 8,0	0,162	−18,735	2,296	−8,881	−0,039	−34,358	−11,397
102(148–219)	180X100X 5,6	0,162	10,042	−1,947	−23,328	−1,241	−6,634	0,039
53(178–244)	180X100X 5,6	0,161	10,040	−1,947	23,335	1,240	6,626	0,033
302(26–158)	260X260X 8,0	0,161	−18,720	2,279	8,839	0,014	34,194	−11,320
293(71–174)	260X260X 8,0	0,161	4,691	−13,522	23,731	−0,182	−33,070	−10,275
401(136–137)	150X150X10,0	0,161	−1,592	4,222	−1,664	0,366	−3,593	−8,162
370(8–147)	260X260X 8,0	0,159	4,761	−13,602	−23,635	0,185	32,941	−9,972
300(37–162)	260X260X 8,0	0,158	−19,375	1,923	−8,882	0,005	−34,368	−9,713
299(38–162)	260X260X 8,0	0,157	5,248	−9,881	24,074	0,514	−33,007	−9,251
294(70–174)	260X260X 8,0	0,156	−14,451	1,866	−9,044	0,440	−34,625	−9,355
371(7–147)	260X260X 8,0	0,155	−14,365	1,789	9,001	−0,464	34,461	−8,992
103(81–99)	180X100X 5,6	0,150	0	0	0,092	−1,057	4,198	1,311
110(126–137)	180X100X 5,6	0,150	0	0	−0,092	1,057	−4,198	1,311
116(116–117)	180X100X 5,6	0,150	0	0	0,092	−0,083	−4,198	1,311
109(89–90)	180X100X 5,6	0,150	0	0	−0,092	0,085	4,198	1,311
451(83–104)	HE 200 A	0,144	14,289	1,760	−3,297	0,014	7,252	3,872
207(32–43)	80X 80X 5,0	0,143	−5,922	0	0	0	−0,574	0
206(43–54)	80X 80X 5,0	0,143	−5,911	0	0	0	−0,574	0
400(119–138)	HE 200 A	0,142	14,252	1,743	3,269	−0,014	−7,192	3,835
156(80–212)	L 80X 80X 8	0,139 (*)	40,050					
143(128–218)	L 80X 80X 8	0,138 (*)	39,908					
150(76–120)	L 80X 80X 8	0,135 (*)	38,948					
161(4–91)	L 80X 80X 8	0,135 (*)	38,912					
94(147–220)	180X100X 5,6	0,134	−18,818	−4,695	−18,105	0,230	−4,256	−0,172
104(79–99)	180X100X 5,6	0,133	0	0	0	0,674	−3,472	1,311
108(86–90)	180X100X 5,6	0,133	0	0	0	0,042	−3,472	1,311
111(126–135)	180X100X 5,6	0,133	0	0	0	−0,674	3,472	1,311

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
115(114–117)	180X100X 5,6	0,133	0	0	0	−0,036	3,472	1,311
58(174–241)	180X100X 5,6	0,132	−18,775	−4,693	18,116	−0,224	4,176	−0,138
99(221–222)	180X100X 5,6	0,131	5,550	1,283	−2,728	−0,322	−3,587	−1,363
55(242–245)	180X100X 5,6	0,131	5,574	−1,283	2,724	0,319	−3,573	−1,362
105(79–96)	180X100X 5,6	0,130	0	0	0	0	−3,400	1,284
107(86–93)	180X100X 5,6	0,130	0	0	0	−1,580	−3,400	1,284
112(124–135)	180X100X 5,6	0,130	0	0	0	0	3,400	1,284
114(114–122)	180X100X 5,6	0,130	0	0	0	1,578	3,400	1,284
91(222–227)	180X100X 5,6	0,126	3,580	1,090	2,687	0,061	3,755	−1,062
166(217–218)	80X 80X 5,0	0,126	−4,797	0	0	0,001	−0,574	0
61(239–242)	180X100X 5,6	0,126	3,572	−1,090	−2,686	−0,062	3,753	−1,062
171(212–213)	80X 80X 5,0	0,126	−4,785	0	0	−0,001	−0,574	0
167(216–217)	80X 80X 5,0	0,123	−4,595	0	0	0	−0,574	0
170(213–214)	80X 80X 5,0	0,123	−4,591	0	0	−0,001	−0,574	0
164(2–91)	L 80X 80X 8	0,123 (*)	35,541					
151(72–120)	L 80X 80X 8	0,123 (*)	35,524					
169(214–215)	80X 80X 5,0	0,118	−4,224	0	0	−0,001	−0,574	0
168(215–216)	80X 80X 5,0	0,118	−4,220	0	0	0,001	−0,574	0
276(83–182)	80X 80X 5,0_1	0,117	−16,111	0	0	0,049	−0,178	0
240(119–202)	80X 80X 5,0_1	0,117	−16,086	0	0	−0,049	−0,178	0
277(83–183)	HE 120 A	0,116	−33,639	0,002	−0,025	0,001	−0,187	−0,002
278(2–183)	HE 120 A	0,116	−33,639	0,002	0,025	0,001	−0,187	0,002
242(72–203)	HE 120 A	0,116	−33,637	−0,001	−0,025	−0,001	−0,187	0,002
243(119–203)	HE 120 A	0,116	−33,637	−0,001	0,025	−0,001	−0,187	−0,002
7(266–269)	180X100X 5,6	0,111	−6,764	−1,259	3,460	0,238	−4,328	−1,163
37(251–254)	180X100X 5,6	0,111	−6,341	−1,380	1,167	−0,169	−0,463	−1,526
47(73–250)	180X100X 5,6	0,106	−18,347	−4,734	−6,044	0,356	0,767	−1,855
162(87–205)	L 80X 80X 8	0,105 (*)	30,203					
149(121–211)	L 80X 80X 8	0,105 (*)	30,189					
11(10–268)	180X100X 5,6	0,104	−18,347	−4,730	6,044	−0,350	−0,767	−1,810
31(254–257)	180X100X 5,6	0,103	−2,268	−1,315	−2,346	−0,007	2,167	−1,310
13(263–266)	180X100X 5,6	0,102	−5,109	−1,319	−3,446	0,015	3,603	−1,325
25(257–260)	180X100X 5,6	0,101	0,085	−1,252	2,224	0	−2,456	−1,124
19(260–263)	180X100X 5,6	0,101	0,091	1,252	−2,224	0	−2,455	−1,124
142(130–218)	L 80X 80X 8	0,100 (*)	28,772					
153(82–212)	L 80X 80X 8	0,100 (*)	28,725					
131(10–182)	IPE 270	0,097	0	0	4,437	0,021	10,326	0
118(73–202)	IPE 270	0,097	0	0	−4,425	−0,021	10,290	0
117(138–202)	IPE 270	0,097	0	0	4,165	0	10,221	0
132(104–182)	IPE 270	0,096	0	0	−4,016	0	10,108	0
129(18–184)	IPE 270	0,094	0	0	4,092	0,033	9,886	0
120(62–199)	IPE 270	0,093	0	0	−4,062	−0,033	9,798	0
67(236–239)	180X100X 5,6	0,092	6,629	1,117	2,187	−0,003	2,429	−1,111
89(227–228)	180X100X 5,6	0,092	6,633	−1,117	−2,186	0,003	2,426	−1,111
127(29–187)	IPE 270	0,090	0	0	3,871	0,029	9,532	0
125(40–190)	IPE 270	0,090	0	0	3,811	0,029	9,447	0
122(51–196)	IPE 270	0,090	0	0	−3,842	−0,029	9,446	0
79(228–233)	180X100X 5,6	0,090	2,781	1,118	2,113	0	2,118	−1,118
119(73–199)	IPE 270	0,089	0	0	3,722	0,028	9,392	0
73(233–236)	180X100X 5,6	0,089	2,781	−1,118	−2,111	0	2,111	−1,118
123(51–193)	IPE 270	0,089	0	0	3,790	0,029	9,404	0
124(40–193)	IPE 270	0,089	0	0	−3,782	−0,029	9,361	0
121(62–196)	IPE 270	0,089	0	0	3,736	0,029	9,334	0
130(10–184)	IPE 270	0,089	0	0	−3,655	−0,014	9,303	0
126(29–190)	IPE 270	0,089	0	0	−3,761	−0,029	9,318	0
128(18–187)	IPE 270	0,088	0	0	−3,707	−0,029	9,249	0
241(72–202)	80X 80X 5,0_1	0,084	−10,705	0	0	0,056	−0,178	0
275(2–182)	80X 80X 5,0_1	0,083	−10,671	0	0	−0,056	−0,178	0
374(120–139)	STRIP 8* 80	0,079 (*)	11,812					
271(2–184)	80X 80X 5,0_1	0,078	−9,823	0	0	0,069	−0,178	0

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
245(72–199)	80X 80X 5,0_1	0,078	−9,783	0	0	−0,069	−0,178	0
56(71–242)	180X100X 5,6	0,076	−4,108	−2,570	11,092	−0,436	2,670	0,230
10(2–269)	180X100X 5,6	0,076	6,633	−2,932	−9,324	−0,189	−3,116	0,068
46(72–251)	180X100X 5,6	0,076	6,643	−2,931	9,330	0,190	3,109	0,064
158(6–88)	L 80X 80X 8	0,076 (*)	21,784					
92(8–222)	180X100X 5,6	0,075	−4,101	−2,570	−11,101	0,436	−2,643	0,230
145(69–132)	L 80X 80X 8	0,075 (*)	21,565					
425(91–105)	STRIP 8* 80	0,072 (*)	10,793					
217(205–206)	80X 80X 5,0	0,071	−0,998	0	0	−0,008	−0,574	0
212(210–211)	80X 80X 5,0	0,071	−0,990	0	0	0,008	−0,574	0
159(9–87)	L 80X 80X 8	0,069 (*)	19,959					
41(62–253)	180X100X 5,6	0,069	−18,086	−4,572	−0,258	0,012	0,044	−1,147
17(18–265)	180X100X 5,6	0,069	−18,086	−4,572	0,258	−0,015	−0,044	−1,143
148(77–121)	L 80X 80X 8	0,068 (*)	19,745					
291(130–177)	HE 120 A	0,066	−31,761	−0,007	−0,197	0,005	0,095	−0,010
367(82–149)	HE 120 A	0,066	−31,711	0,007	0,197	−0,005	0,095	−0,010
216(206–207)	80X 80X 5,0	0,065	−0,633	0	0	0	−0,574	0
213(209–210)	80X 80X 5,0	0,065	−0,627	0	0	0	−0,574	0
214(208–209)	80X 80X 5,0	0,064	0,553	0	0	0	−0,627	0
215(207–208)	80X 80X 5,0	0,064	0,551	0	0	0	−0,627	0
290(176–177)	HE 120 A	0,064	−17,933	−0,010	0,259	−0,002	0,101	0,040
365(149–150)	HE 120 A	0,064	−17,927	0,010	−0,259	0,002	0,101	0,040
23(29–262)	180X100X 5,6	0,064	5,753	−4,570	−2,792	−1,006	−1,360	−1,008
35(51–256)	180X100X 5,6	0,064	5,753	−4,570	2,792	0,995	1,360	−1,008
82(158–229)	180X100X 5,6	0,064	−18,047	−4,571	0,914	−0,003	−0,085	−0,994
70(166–235)	180X100X 5,6	0,063	−18,048	−4,571	−0,879	0,003	0,074	−0,994
88(154–226)	180X100X 5,6	0,063	−18,479	−4,553	−3,928	−0,034	−0,115	−0,947
76(162–232)	180X100X 5,6	0,063	−18,089	−4,570	0,010	−0,001	−0,006	−0,999
29(40–259)	180X100X 5,6	0,063	−18,082	−4,571	0	−0,001	0	−0,999
64(170–238)	180X100X 5,6	0,062	−18,490	−4,553	4,172	0,034	0,088	−0,943
16(17–266)	180X100X 5,6	0,062	3,535	−2,696	2,143	0,332	−1,469	−0,819
270(17–184)	80X 80X 5,0_1	0,062	−7,717	0	0	−0,024	−0,146	0
246(61–199)	80X 80X 5,0_1	0,062	−7,701	0	0	0,024	−0,146	0
40(61–254)	180X100X 5,6	0,061	3,530	−2,696	−2,198	−0,329	1,450	−0,817
49(119–248)	180X100X 5,6	0,060	−2,924	−1,093	9,435	−0,341	1,920	−0,407
4(83–272)	180X100X 5,6	0,060	−2,920	−1,092	−9,367	0,338	−1,906	−0,405
353(147–152)	80X 80X 5,0_1	0,057	−15,206	0	0	−0,013	−0,049	0
305(173–174)	80X 80X 5,0_1	0,057	−15,169	0	0	0,013	−0,049	0
287(174–176)	80X 80X 5,0_1	0,052	−13,712	0	0	−0,003	−0,049	0
359(147–150)	80X 80X 5,0_1	0,052	−13,683	0	0	0,002	−0,049	0
358(8–152)	HE 120 A	0,052	30,695	−0,006	−0,066	0,002	0	0
312(71–173)	HE 120 A	0,051	30,603	0,006	−0,262	−0,002	0,147	0,008
22(28–263)	180X100X 5,6	0,050	1,998	−2,693	2,176	0,381	−1,246	−0,600
362(148–149)	80X 80X 5,0_1	0,050	−13,129	0	0	0,017	−0,049	0
144(69–129)	L 80X 80X 8	0,050 (*)	14,366					
284(177–178)	80X 80X 5,0_1	0,050	−13,090	0	0	−0,017	−0,049	0
34(50–257)	180X100X 5,6	0,050	1,999	−2,693	−2,176	−0,377	1,228	−0,600
155(6–101)	L 80X 80X 8	0,050 (*)	14,315					
366(8–150)	HE 120 A	0,049	−23,514	0,004	−0,225	−0,001	0,092	0,006
292(71–176)	HE 120 A	0,049	−23,464	−0,004	0,225	0,001	0,092	0,006
344(154–156)	80X 80X 5,0_1	0,048	−12,628	0	0	0,005	−0,049	0
314(169–170)	80X 80X 5,0_1	0,048	−12,599	0	0	−0,005	−0,049	0
308(170–172)	80X 80X 5,0_1	0,048	−12,570	0	0	0,001	−0,049	0
350(153–154)	80X 80X 5,0_1	0,048	−12,551	0	0	−0,001	−0,049	0
335(158–160)	80X 80X 5,0_1	0,048	−12,468	0	0	0,001	−0,049	0
323(165–166)	80X 80X 5,0_1	0,047	−12,437	0	0	−0,002	−0,049	0
317(166–168)	80X 80X 5,0_1	0,047	−12,316	0	0	0,001	−0,049	0
341(157–158)	80X 80X 5,0_1	0,047	−12,298	0	0	−0,001	−0,049	0
326(162–164)	80X 80X 5,0_1	0,047	−12,269	0	0	−0,001	−0,049	0
332(161–162)	80X 80X 5,0_1	0,047	−12,250	0	0	0,001	−0,049	0

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

Ontwerp-element	Profiel	Max.	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
90(16–227)	180X100X 5,6	0,047	1,114	−2,268	−0,576	0,405	−1,371	−0,392
62(60–239)	180X100X 5,6	0,046	1,120	−2,268	0,532	−0,404	1,345	−0,392
266(17–187)	80X 80X 5,0_1	0,046	−4,595	0	0	0,036	−0,178	0
250(61–196)	80X 80X 5,0_1	0,046	−4,571	0	0	−0,036	−0,178	0
28(39–260)	180X100X 5,6	0,045	1,109	−2,690	2,284	0,392	−1,030	−0,578
52(130–245)	180X100X 5,6	0,043	−1,680	−0,867	−7,804	−0,187	1,220	−0,482
100(82–221)	180X100X 5,6	0,042	−1,688	−0,868	7,796	0,187	−1,194	−0,481
351(153–155)	80X 80X 5,0_1	0,042	−10,730	0	0	−0,012	−0,049	0
307(172–175)	80X 80X 5,0_1	0,042	−10,693	0	0	0,012	−0,049	0
265(28–187)	80X 80X 5,0_1	0,041	−3,815	0	0	−0,026	−0,178	0
251(50–196)	80X 80X 5,0_1	0,041	−3,806	0	0	0,027	−0,178	0
352(152–155)	80X 80X 5,0_1	0,040	14,027	0	−0,096	−0,011	0	0
306(173–175)	80X 80X 5,0_1	0,040	13,990	0	0,096	0,010	0	0
285(177–179)	80X 80X 5,0_1	0,038	−9,818	0	0	−0,024	−0,040	0
361(149–151)	80X 80X 5,0_1	0,038	−9,802	0	0	0,024	−0,040	0
261(28–190)	80X 80X 5,0_1	0,037	−3,235	0	0	0,039	−0,178	0
255(50–193)	80X 80X 5,0_1	0,037	−3,205	0	0	−0,039	−0,178	0
286(176–179)	80X 80X 5,0_1	0,036	12,526	0	−0,096	0	0	0
360(150–151)	80X 80X 5,0_1	0,036	12,497	0	0,096	0	0	0
260(39–190)	80X 80X 5,0_1	0,035	−2,930	0	0	−0,026	−0,178	0
256(39–193)	80X 80X 5,0_1	0,035	−2,926	0	0	0,026	−0,178	0
80(27–228)	180X100X 5,6	0,035	0,869	−2,294	4,372	0,453	−0,726	−0,494
321(60–169)	HE 120 A	0,035	−16,625	0	−0,197	−0,001	0,094	0
349(16–156)	HE 120 A	0,035	−16,612	0	0,197	0,001	0,094	0
68(49–236)	180X100X 5,6	0,034	0,868	−2,294	−4,355	−0,451	0,697	−0,494
272(2–185)	HE 120 A	0,034	−8,673	−0,008	0,396	0,001	0,204	0,023
273(17–185)	HE 120 A	0,034	−8,673	−0,008	−0,396	0,001	0,204	−0,023
247(61–200)	HE 120 A	0,033	−8,638	0,008	0,396	−0,001	0,204	−0,023
248(72–200)	HE 120 A	0,033	−8,638	0,008	−0,396	−0,001	0,204	0,023
342(157–159)	80X 80X 5,0_1	0,033	−8,492	0	0	0,001	−0,040	0
316(168–171)	80X 80X 5,0_1	0,033	−8,475	0	0	−0,001	−0,040	0
343(156–159)	80X 80X 5,0_1	0,033	11,465	0	−0,096	0,006	0	0
315(169–171)	80X 80X 5,0_1	0,033	11,437	0	0,096	−0,006	0	0
147(76–132)	L 80X 80X 8	0,033 (*)	9,382					
334(160–163)	80X 80X 5,0_1	0,033	11,306	0	−0,096	0,002	0	0
160(4–88)	L 80X 80X 8	0,033 (*)	9,375					
333(161–163)	80X 80X 5,0_1	0,032	−8,328	0	0	0,001	−0,040	0
324(165–167)	80X 80X 5,0_1	0,032	11,274	0	0,096	−0,002	0	0
325(164–167)	80X 80X 5,0_1	0,032	−8,307	0	0	−0,001	−0,040	0
74(38–233)	180X100X 5,6	0,032	0,797	−2,292	2,538	0,456	−0,628	−0,489
441(109–110)	180X100X 5,6	0,032	−9,071	0	0	0,175	−0,693	0,138
390(143–144)	180X100X 5,6	0,032	−9,048	0	0	−0,175	0,693	0,138
340(27–160)	HE 120 A	0,032	18,939	0,001	−0,074	0	0	0
330(49–165)	HE 120 A	0,032	18,894	−0,001	−0,254	0	0,135	−0,001
133(74–139)	U 320	0,032	0	0	0	0,043	−3,187	0
140(11–105)	U 320	0,032	0	0	0	−0,043	−3,187	0
134(63–74)	U 320	0,032	0	0	0	−0,001	−3,187	0
135(52–63)	U 320	0,032	0	0	0	0	−3,187	0
136(41–52)	U 320	0,032	0	0	0	0	−3,187	0
137(30–41)	U 320	0,032	0	0	0	0	−3,187	0
138(19–30)	U 320	0,032	0	0	0	0	−3,187	0
139(11–19)	U 320	0,032	0	0	0	0,001	−3,187	0
331(38–164)	HE 120 A	0,030	17,637	0	−0,074	0,001	0	0
339(38–161)	HE 120 A	0,030	17,593	0	−0,254	−0,001	0,135	0
364(147–151)	260X140X 8,0	0,029	−41,402	−0,939	0,004	−0,110	−0,011	−0,495
288(174–179)	260X140X 8,0	0,029	−41,397	0,939	−0,004	0,095	−0,011	−0,495
113(122–124)	180X100X 5,6	0,029	0	−0,296	−0,712	−0,665	0	0
106(93–96)	180X100X 5,6	0,029	0	−0,296	0,712	0,664	0	0
311(172–173)	HE 120 A	0,028	−7,679	−0,001	−0,339	0	0,149	0,004
356(152–153)	HE 120 A	0,028	−7,657	0,001	0,339	0	0,149	0,004

Constructie-element unity-check (Eurocode-NL) [Non-lin., Omhullende (UGT (a, b))]

	Ontwerp-element	Profiel	Max.		Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
	348(27–157)	HE 120 A	0,024		−11,459	0,001	−0,192	−0,002	0,087	0,002
	322(49–168)	HE 120 A	0,024		−11,435	−0,001	0,193	0,001	0,087	0,001
	347(156–157)	HE 120 A	0,021		−5,606	0,001	0,338	0	0,148	0,003
	320(168–169)	HE 120 A	0,021		−5,604	−0,001	−0,338	0	0,148	0,003
	406(123–125)	180X100X 5,6	0,021		−3,266	0	0	−0,425	−0,579	0,130
	146(77–128)	L 80X 80X 8	0,020 (*)		5,722					
	157(9–80)	L 80X 80X 8	0,020 (*)		5,711					
	363(148–151)	260X140X 8,0	0,020		−26,018	0,939	0,004	−0,132	0,011	−0,495
	289(178–179)	260X140X 8,0	0,020		−26,002	−0,939	−0,004	0,116	0,011	−0,495
	313(60–172)	HE 120 A	0,019		11,293	0	−0,069	0	0	0
	357(16–153)	HE 120 A	0,019		11,283	0	−0,259	0	0,142	0
	457(94–97)	180X100X 5,6	0,019		1,213	0	0	0,425	0,579	0,159
	309(170–175)	260X140X 8,0	0,015		−19,358	0,941	0	−0,099	−0,001	−0,501
	355(154–155)	260X140X 8,0	0,015		−19,314	−0,941	0	0,104	−0,001	−0,501
	318(166–171)	260X140X 8,0	0,013		−16,221	0,944	0	−0,035	−0,001	−0,508
	346(158–159)	260X140X 8,0	0,013		−16,204	−0,944	0	0,040	−0,001	−0,508
	252(50–197)	HE 120 A	0,011		−2,265	0	0,402	0	0,222	0
	253(61–197)	HE 120 A	0,011		−2,265	0	−0,402	0	0,222	0
	267(17–188)	HE 120 A	0,010		−2,251	0	0,402	0	0,222	0
	268(28–188)	HE 120 A	0,010		−2,251	0	−0,402	0	0,222	0
	262(28–191)	HE 120 A	0,009		−0,573	0	0,440	0	0,247	0
	263(39–191)	HE 120 A	0,009		−0,573	0	−0,440	0	0,247	0
	257(39–194)	HE 120 A	0,009		−0,575	0	0,440	0	0,247	0
	258(50–194)	HE 120 A	0,009		−0,575	0	−0,440	0	0,247	0
	274(184–185)	80X 80X 5,0_1	0,007		−1,073	0	0	−0,047	0	0
	249(199–200)	80X 80X 5,0_1	0,007		−1,073	0	0	0,046	0	0
	327(162–167)	260X140X 8,0	0,007		−6,044	0,944	0	−0,028	0,001	−0,508
	337(162–163)	260X140X 8,0	0,007		−6,027	−0,944	0	0,033	0,001	−0,508
	329(164–165)	HE 120 A	0,007		−1,272	0	−0,338	0	0,143	−0,001
	338(160–161)	HE 120 A	0,007		−1,271	0	0,338	0	0,143	−0,001
	310(174–175)	260X140X 8,0	0,006		−5,130	−0,941	0	−0,092	0,001	−0,501
	354(147–155)	260X140X 8,0	0,006		−5,113	0,941	0	0,098	0,001	−0,501
	336(158–163)	260X140X 8,0	0,006		−4,621	0,945	0	0,003	0,001	−0,511
	328(166–167)	260X140X 8,0	0,006		−4,606	−0,945	0	0,002	0,001	−0,511
	345(154–159)	260X140X 8,0	0,005		−3,396	0,944	0	0,016	0,001	−0,508
	319(170–171)	260X140X 8,0	0,005		−3,382	−0,944	0	−0,011	0,001	−0,508
	244(202–203)	80X 80X 5,0_1	0,005		−1,072	0	0	0,031	0	0
	279(182–183)	80X 80X 5,0_1	0,004		−1,072	0	0	−0,030	0	0
	269(187–188)	80X 80X 5,0_1	0,004		−1,188	0	0	−0,001	0	0
	254(196–197)	80X 80X 5,0_1	0,004		−1,188	0	0	0,001	0	0
	264(190–191)	80X 80X 5,0_1	0,004		−1,187	0	0	0	0	0
	259(193–194)	80X 80X 5,0_1	0,004		−1,187	0	0	0	0	0
	239(23–18)	HE 260 B	0,944 (*)		−349,521	−9,125	−52,512	−0,002	−200,227	28,261

Ontwerpelement: Ontwerpelement (eindpunten); **Max.:** Maximum waarde; **Nx:** Normaalkracht; **Vy:** Dwarskracht in lokale y-richting; **Vz:** Dwarskracht in lokale z-richting; **Tx:** Torsiemoment; **My:** Buigend moment in lokale y-richting; **Mz:** Buigend moment in lokale z-richting;

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
1	1	HE 260 B						
			−411,717	−0,020	−46,635	0	−0,361	−0,047
			−0,356	−0,108	−38,762	−0,010	14,128	0,267
			−386,158	**−9,240**	−46,545	−0,005	−0,374	−6,722
			−338,284	**9,095**	−43,461	−0,002	−0,207	6,571
			−56,177	−0,225	**−135,945**	−0,008	257,811	−0,214
			−187,144	0,019	**−16,102**	0,011	−0,563	−0,015
			−31,741	−4,891	−110,642	**−0,028**	235,353	−10,068

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−338,492	0,055	−39,448	**0,011**	−0,295	0,041
			−378,929	−0,007	−50,672	−0,007	**−192,895**	0,033
			−43,652	−0,244	−133,785	−0,007	**263,156**	−0,233
			−375,446	9,094	−47,996	−0,003	−182,692	**−27,997**
			−382,271	−9,240	−46,545	−0,005	−177,244	**28,389**
			−184,748	−0,029	−20,456	0	−0,452	−0,068
			−184,748	−0,029	−20,456	0	−0,452	−0,068
2	1	HE 260 B						
			−402,484	0,059	47,906	0	0	0
			40,170	−2,036	72,236	−0,006	84,380	−0,009
			−142,559	**−2,281**	22,258	0	0	0
			−338,157	**2,346**	47,817	0	0	0
			−152,543	−0,057	**16,311**	0	0	0
			−36,312	0,036	**80,818**	0	−234,682	0,144
			0,977	−2,101	38,820	**−0,006**	−109,119	−8,663
			−9,615	1,920	68,114	**0,008**	−218,692	7,913
			−17,052	−0,034	79,122	0,001	**−239,196**	−0,141
			−355,617	−0,112	53,808	0	**204,472**	0,425
			−334,270	2,346	47,817	0	181,703	**−8,915**
			−139,378	−2,281	22,258	0	84,579	**8,669**
			−174,330	0,026	21,203	0	0	0
			−174,330	0,026	21,203	0	0	0
3	2	150X150X10,0						
			−84,418	0	0,062	0	0	0
			19,419	0,004	−0,035	0	−0,278	−0,030
			−23,058	**−0,003**	0,238	0	0	0
			9,513	**0,004**	0,024	0	0	0
			−47,604	0	**−0,248**	0	0	0
			−3,132	−0,003	**0,340**	0	0	0
			−30,594	0	0,033	**0**	0	0
			−30,594	0	0,033	**0**	0	0
			−44,616	0	−0,248	0	**−1,965**	−0,001
			0,521	−0,003	0,340	0	**2,689**	0,025
			13,166	0,004	0,024	0	0,189	**−0,031**
			−20,069	−0,003	0,238	0	1,886	**0,026**
			−30,594	0	0,033	0	0	0
			−30,594	0	0,033	0	0	0
4	21	260X260X 8,0						
			−49,360	3,401	0,038	−0,413	−0,101	−0,711
			14,601	−17,383	−23,616	0,309	−0,140	16,399
			13,806	**−17,451**	−23,653	0,359	32,948	−6,804
			−33,066	**18,297**	0,548	−0,281	−0,348	−0,457
			−1,046	−8,578	**−23,927**	0,032	33,145	−7,909
			3,868	−11,289	**24,152**	1,784	−32,868	−8,376
			−49,114	3,601	0,022	**−0,605**	−0,061	−0,713
			3,868	−11,289	24,152	**1,784**	−32,868	−8,376
			−7,497	1,167	−8,847	0,057	**−34,087**	−6,198
			−10,098	1,361	9,024	−0,233	**34,554**	−6,878
			−32,100	18,297	0,548	−0,281	0,420	**−26,073**
			14,597	−17,451	−23,653	0,359	−0,166	**17,627**
			−24,739	1,089	0,027	−0,239	−0,097	−0,660
			−24,739	1,089	0,027	−0,239	−0,097	−0,660
5	4	SFB HE 240 M - 450x20						
			0	0	−309,095	0,004	404,738	0
			0	0	−178,788	0,006	212,332	0
			0	**0**	−180,829	0,240	221,300	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	**0**	−332,797	0,006	398,375	0
			0	0	**−354,907**	0,001	446,668	0
			0	0	**352,113**	0,001	433,258	0
			0	0	−339,438	**−0,249**	430,123	0
			0	0	−337,035	**0,243**	417,874	0
			0	0	−1,397	0,001	**−408,461**	0
			0	0	−344,095	0,004	**455,560**	0
			0	0	−180,829	0,240	221,300	**0**
			0	0	182,154	0,240	227,655	**0**
			0	0	−149,178	0	188,356	0
			0	0	−149,178	0	188,356	0
6	5	IPE 400						
			−142,290	−0,143	4,089	0,005	4,580	0,026
			−3,294	−0,009	−8,439	−0,005	5,766	−0,177
			−52,360	**−0,269**	8,984	0,005	−13,493	−0,595
			−117,382	**0,307**	−1,728	−0,006	9,508	1,252
			−87,665	0,053	**−31,828**	0	40,121	0,222
			−123,804	−0,024	**42,141**	0	98,808	0,063
			−64,196	0,278	−3,005	**−0,006**	7,991	1,123
			−102,778	−0,255	10,243	**0,005**	−11,834	−0,533
			−81,196	0,053	0,518	0	**−28,849**	−0,013
			−123,804	−0,024	42,141	0	**98,808**	0,063
			−52,360	−0,269	8,984	0,005	−13,493	**−0,595**
			−117,382	0,307	−1,728	−0,006	9,508	**1,252**
			−59,277	0,038	−9,989	0	14,546	0,159
			−59,277	0,038	−9,989	0	14,546	0,159
7	5	IPE 400						
			−62,081	0,007	−11,562	−0,002	−14,299	0,029
			48,327	−0,037	−10,669	−0,001	−34,146	0,030
			−45,973	**−0,134**	5,150	−0,003	−28,259	0,040
			−40,545	**0,174**	13,339	−0,005	19,473	−0,058
			−44,131	0,014	**−30,499**	−0,003	34,659	0,064
			−39,391	−0,129	**20,954**	−0,005	−69,957	0,064
			−43,828	−0,128	19,210	**−0,005**	−70,150	0,071
			−12,254	0,001	12,223	**0**	−35,378	0,004
			−43,828	−0,128	19,210	−0,005	**−70,150**	0,071
			−38,971	0,014	−28,806	−0,003	**34,999**	0,064
			45,641	−0,037	1,203	−0,001	−8,083	**−0,171**
			−42,515	−0,007	16,862	−0,005	−30,422	**0,219**
			−21,908	0,006	−7,871	−0,001	−0,858	0,026
			−21,908	0,006	−7,871	−0,001	−0,858	0,026
8	5	IPE 400						
			−62,506	0,143	3,621	0,017	11,043	−0,012
			57,073	0,040	12,888	−0,012	−34,148	0,028
			−59,224	**−0,158**	−5,596	0,017	16,481	−0,053
			−30,594	**0,147**	−11,311	0,017	−17,711	−0,031
			−30,594	0,147	**−11,311**	0,017	−17,711	−0,031
			−54,601	−0,008	**37,272**	0,004	72,915	0,029
			57,073	0,040	12,888	**−0,012**	−34,148	0,028
			−42,707	−0,157	−2,530	**0,018**	19,452	−0,055
			36,567	0,051	9,641	−0,012	**−38,748**	0,026
			−54,601	−0,008	37,272	0,004	**72,915**	0,029
			27,098	0,052	13,154	−0,012	27,317	**−0,260**
			−60,865	−0,007	−0,987	0,017	7,418	**0,175**
			−18,087	−0,003	−0,850	0,001	−7,233	−0,006
			−18,087	−0,003	−0,850	0,001	−7,233	−0,006

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
9	5	IPE 400						
			−48,531	0,082	−0,832	−0,012	−12,898	0,239
			45,859	−0,020	8,330	0,013	1,866	−0,189
			−34,780	**−0,203**	5,265	−0,012	−10,797	−0,027
			−15,448	**0,476**	−4,420	−0,012	−6,653	−1,363
			−17,176	−0,014	**−41,183**	0	71,444	0,028
			−22,386	0,129	**31,625**	0	24,841	−0,505
			−25,819	−0,194	8,339	**−0,012**	−17,402	−0,037
			30,114	−0,039	−9,025	**0,014**	30,473	−0,253
			−12,644	0,089	−0,733	0	**−44,386**	0,043
			−24,120	−0,021	−41,161	0	**72,472**	0,028
			−15,448	0,476	−4,420	−0,012	−6,653	**−1,363**
			11,327	−0,116	0,362	0,013	−3,497	**0,456**
			−9,578	−0,008	−13,868	0	24,821	0,010
			−9,578	−0,008	−13,868	0	24,821	0,010
10	2	150X150X10,0						
			−93,179	0	0,340	0	0	0
			9,724	0	−0,010	0	−0,083	0
			−22,972	**−0,003**	0,187	0	0	0
			−4,437	**0,004**	0,369	0	0	0
			−49,039	0	**−0,211**	0	0	0
			−7,759	0	**0,578**	0	0	0
			−34,041	0	0,145	**0**	0	0
			−34,041	0	0,145	**0**	0	0
			−46,050	0	−0,211	0	**−1,670**	0
			−4,106	0	0,578	0	**4,575**	−0,001
			−0,785	0,004	0,369	0	2,923	**−0,029**
			−19,983	−0,003	0,187	0	1,485	**0,026**
			−34,041	0	0,145	0	0	0
			−34,041	0	0,145	0	0	0
11	21	260X260X 8,0						
			−48,618	3,885	−0,032	−0,267	0,044	−0,734
			10,644	−14,897	−23,985	−0,287	−0,652	12,273
			9,854	**−14,897**	−23,985	−0,287	32,928	−8,582
			−32,314	**18,707**	0,115	−0,269	−0,141	−1,931
			−5,055	−6,359	**−24,026**	−0,382	32,976	−9,947
			4,976	−9,356	**24,166**	0,253	−33,094	−8,500
			−8,144	−5,390	−23,945	**−0,441**	32,890	−13,437
			8,053	−10,314	24,057	**0,312**	−32,978	−5,080
			−3,131	1,617	−8,920	−0,215	**−34,501**	−8,134
			−13,304	1,858	8,862	−0,091	**34,325**	−9,157
			−31,348	18,707	0,115	−0,269	0,020	**−28,121**
			10,644	−14,897	−23,985	−0,287	−0,652	**12,273**
			−24,103	1,418	−0,030	−0,177	0,038	−0,620
			−24,103	1,418	−0,030	−0,177	0,038	−0,620
12	1	HE 260 B						
			−396,847	−0,019	−52,912	−0,001	−0,703	−0,002
			4,018	−4,785	−27,407	−0,011	23,405	0,565
			−369,066	**−9,167**	−51,876	−0,001	−0,680	−6,443
			−198,620	**9,089**	−28,316	−0,002	−0,735	6,410
			−36,969	−0,008	**−112,277**	−0,006	235,459	−0,046
			−13,349	0,013	**−18,751**	−0,007	64,151	0,001
			−23,154	−4,839	−83,997	**−0,016**	202,645	−10,091
			−328,614	−0,007	−43,434	**0,004**	−0,566	0,003
			−391,882	−0,037	−53,601	0	**−204,444**	0,129
			−36,969	−0,008	−112,277	−0,006	**235,459**	−0,046
			−194,733	9,089	−28,316	−0,002	−108,336	**−28,128**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−365,178	−9,167	−51,876	−0,001	−197,809	**28,392**
			−177,876	−0,025	−22,644	0	−0,590	−0,009
			−177,876	−0,025	−22,644	0	−0,590	−0,009
13	4	SFB HE 240 M - 450x20						
			0	0	−294,665	0,003	327,026	0
			0	0	−154,123	0,003	213,500	0
			0	**0**	−300,338	−0,001	356,707	0
			0	**0**	−179,257	−0,248	211,335	0
			0	0	**−350,180**	−0,001	419,202	0
			0	0	**356,840**	−0,001	451,166	0
			0	0	−333,544	**−0,251**	397,389	0
			0	0	−333,985	**0,247**	399,087	0
			0	0	3,330	−0,001	**−413,240**	0
			0	0	346,690	0,002	**459,519**	0
			0	0	−300,338	−0,001	356,707	**0**
			0	0	307,687	−0,001	391,985	**0**
			0	0	−146,987	0	175,592	0
			0	0	−146,987	0	175,592	0
14	1	HE 260 B						
			−420,798	0,048	46,812	0	0	0
			29,600	0,080	67,714	0	69,435	−0,001
			−145,977	**−2,254**	20,901	0	0	0
			−359,800	**2,297**	47,550	0	0	0
			−155,041	−0,033	**16,249**	0	0	0
			−48,473	0,018	**91,051**	0	−260,255	0,073
			−12,899	−2,054	36,893	**−0,006**	−110,427	−8,469
			−13,760	1,920	83,650	**0,007**	−249,897	7,913
			−27,299	−0,029	87,958	0	**−261,174**	−0,119
			−373,660	−0,069	52,597	0	**199,867**	0,261
			−355,913	2,297	47,550	0	180,689	**−8,727**
			−142,797	−2,254	20,901	0	79,424	**8,566**
			−181,705	0,022	20,750	0	0	0
			−181,705	0,022	20,750	0	0	0
15	5	IPE 400						
			−114,278	0,049	−6,109	0	12,178	0,202
			−10,667	−0,019	−3,068	−0,005	17,975	−0,195
			−21,429	**−0,336**	11,441	0,005	−22,937	−1,085
			−78,310	**0,376**	1,136	−0,006	−20,364	1,514
			−59,873	0,063	**−27,453**	0	17,113	0,252
			−84,413	−0,028	**48,722**	0	128,272	0,053
			−78,310	0,376	1,136	**−0,006**	−20,364	1,514
			−69,618	−0,290	13,255	**0,006**	−33,161	−0,907
			−62,241	0,065	17,387	0,001	**−38,897**	0,267
			−84,413	−0,028	48,722	0	**128,272**	0,053
			−21,429	−0,336	11,441	0,005	−22,937	**−1,085**
			−78,310	0,376	1,136	−0,006	−20,364	**1,514**
			−41,913	0,042	−7,285	0	0,127	0,168
			−41,913	0,042	−7,285	0	0,127	0,168
16	5	IPE 400						
			−32,382	0,006	−17,215	−0,001	−3,787	0,025
			30,337	−0,041	−4,389	0	−19,554	0,033
			3,352	**−0,045**	−5,501	−0,002	−4,085	0,122
			23,403	**0,112**	−0,281	−0,003	−25,946	−0,049
			−12,420	0,011	**−36,650**	−0,002	46,601	0,050
			−13,187	0,003	**12,790**	−0,001	−50,297	0,016
			20,120	−0,038	5,589	**−0,003**	−40,560	0,155

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			9,428	−0,038	−6,681	**0**	−1,700	−0,177
			−6,455	0,012	−1,912	−0,002	**−52,585**	0,002
			−12,420	0,011	−36,650	−0,002	**46,601**	0,050
			27,651	−0,041	4,465	0	−19,763	**−0,190**
			21,105	0,007	3,828	−0,003	−32,781	**0,181**
			−4,315	0,005	−11,023	−0,001	4,960	0,021
			−4,315	0,005	−11,023	−0,001	4,960	0,021
17	5	IPE 400						
			−34,360	−0,003	28,497	0,001	54,516	0,011
			29,569	0,034	8,231	−0,013	−19,557	0,031
			3,220	**−0,093**	6,119	0,016	−27,720	−0,045
			20,820	**0,062**	−1,871	0,015	−1,357	0,033
			−27,566	−0,001	**−6,893**	0	2,012	−0,001
			−15,077	−0,003	**45,022**	0,002	86,368	0,007
			29,569	0,034	8,231	**−0,013**	−19,557	0,031
			21,560	−0,090	9,492	**0,016**	−25,943	−0,047
			−6,990	−0,003	4,590	0,002	**−50,238**	−0,011
			−15,077	−0,003	45,022	0,002	**86,368**	0,007
			7,170	0,045	13,109	−0,012	27,351	**−0,218**
			2,631	−0,002	9,633	0,015	1,309	**0,113**
			−2,552	−0,001	2,209	0,001	−18,768	−0,004
			−2,552	−0,001	2,209	0,001	−18,768	−0,004
18	5	IPE 400						
			−28,759	0,091	23,751	0	28,556	−0,333
			25,919	0,021	3,251	0,013	6,047	−0,150
			10,015	**−0,241**	−1,697	0,013	−3,758	−0,253
			12,657	**0,499**	−6,009	−0,013	−4,208	−1,658
			2,664	−0,028	**−41,948**	0	83,652	0,006
			−10,913	0,087	**31,044**	0	25,540	−0,340
			19,266	−0,142	6,950	**−0,013**	−3,019	0,027
			11,909	0	−11,113	**0,013**	31,314	−0,212
			−4,444	0,087	−1,301	0	**−39,977**	0,045
			2,664	−0,028	−41,948	0	**83,652**	0,006
			12,657	0,499	−6,009	−0,013	−4,208	**−1,658**
			7,628	−0,241	3,843	0,013	1,496	**0,928**
			0,871	−0,012	−14,169	0	29,216	0,001
			0,871	−0,012	−14,169	0	29,216	0,001
19	2	150X150X10,0						
			−93,520	0	0,352	0	0	0
			9,627	0	−0,007	0	−0,059	0
			−22,187	**−0,003**	0,178	0	0	0
			−4,785	**0,003**	0,381	0	0	0
			−49,112	0	**−0,208**	0	0	0
			−8,112	0	**0,588**	0	0	0
			−34,180	0	0,150	**0**	0	0
			−34,180	0	0,150	**0**	0	0
			−46,124	0	−0,208	0	**−1,649**	0
			−4,459	0	0,588	0	**4,661**	−0,001
			−1,132	0,003	0,381	0	3,017	**−0,028**
			−19,198	−0,003	0,178	0	1,409	**0,026**
			−34,180	0	0,150	0	0	0
			−34,180	0	0,150	0	0	0
20	21	260X260X 8,0						
			−48,853	3,881	−0,010	−0,051	0,008	−0,837
			9,924	−12,425	−23,988	−0,769	−0,706	8,365
			9,060	**−12,818**	−23,992	−0,769	32,880	−7,096

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			−32,058	**18,197**	0,063	−0,021	−0,069	−2,497
			−5,836	−4,291	**−24,020**	−0,804	32,910	−8,469
			5,295	−9,960	**24,101**	0,457	−33,038	−9,245
			−5,787	−3,876	−23,982	**−0,806**	32,861	−10,509
			5,295	−9,960	24,101	**0,457**	−33,038	−9,245
			−4,454	1,618	−8,890	−0,014	**−34,397**	−8,276
			−13,937	1,515	8,855	0,061	**34,258**	−7,659
			−34,517	4,286	0,095	0,022	0,024	**−27,991**
			−4,895	−2,545	−0,023	−0,035	−0,087	**11,019**
			−24,249	1,423	−0,015	−0,039	0,012	−0,686
			−24,249	1,423	−0,015	−0,039	0,012	−0,686
21	1	HE 260 B						
			−395,608	−0,013	−53,043	0	−0,756	−0,012
			4,347	0,001	−21,511	−0,001	29,661	0,001
			−367,311	**−9,173**	−51,738	0,002	−0,755	−6,478
			−199,593	**9,095**	−28,407	−0,001	−0,757	6,420
			−36,217	−0,001	**−111,353**	−0,002	234,256	−0,004
			−12,803	0,003	**−17,848**	−0,002	62,965	0,005
			−23,382	−4,897	−82,607	**−0,011**	200,875	−10,183
			1,002	4,917	−25,134	**0,005**	80,823	10,192
			−390,324	−0,030	−53,723	0	**−204,970**	0,091
			−36,217	−0,001	−111,353	−0,002	**234,256**	−0,004
			−195,706	9,095	−28,407	−0,001	−108,702	**−28,142**
			−363,424	−9,173	−51,738	0,002	−197,362	**28,378**
			−177,149	−0,024	−22,686	0	−0,619	−0,019
			−177,149	−0,024	−22,686	0	−0,619	−0,019
22	4	SFB HE 240 M - 450x20						
			0	0	−300,891	−0,250	358,496	0
			0	0	−145,415	0,001	167,682	0
			0	**0**	−154,060	0,001	213,154	0
			0	**0**	−175,178	0,002	191,433	0
			0	0	**−349,944**	0	417,860	0
			0	0	**357,076**	0	452,096	0
			0	0	−333,524	**−0,250**	397,346	0
			0	0	−333,774	**0,249**	398,770	0
			0	0	3,566	0	**−413,446**	0
			0	0	346,935	0,001	**460,463**	0
			0	0	−154,060	0,001	213,154	**0**
			0	0	142,925	0,001	159,709	**0**
			0	0	−146,865	0	174,909	0
			0	0	−146,865	0	174,909	0
23	1	HE 260 B						
			−421,570	0,036	46,843	0	0	0
			29,344	0,032	67,916	0	69,777	0
			−145,168	**−2,237**	20,910	0	0	0
			−360,561	**2,258**	47,602	0	0	0
			−155,204	−0,008	**16,277**	0	0	0
			−48,965	0,001	**91,469**	0	−261,279	0,004
			−13,197	−2,018	37,048	**−0,006**	−110,837	−8,319
			−13,287	1,929	83,699	**0,007**	−249,782	7,952
			−27,723	−0,023	88,319	0	**−262,038**	−0,096
			−374,399	−0,026	52,577	0	**199,791**	0,097
			−356,674	2,258	47,602	0	180,889	**−8,580**
			−141,987	−2,237	20,910	0	79,458	**8,500**
			−182,030	0,018	20,774	0	0	0
			−182,030	0,018	20,774	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
24	5	IPE 400						
			−113,571	0,009	−5,940	0	11,253	0,043
			−13,199	−0,010	−3,270	−0,005	16,958	−0,222
			−20,616	**−0,272**	11,569	0,006	−23,610	−1,069
			−80,397	**0,315**	1,057	−0,006	−20,088	1,277
			−59,119	0,014	**−27,263**	0	16,074	0,060
			−83,303	−0,007	**49,005**	0	129,501	0,021
			−80,397	0,315	1,057	**−0,006**	−20,088	1,277
			−59,146	−0,262	15,097	**0,006**	−34,387	−1,032
			−70,608	0,012	16,009	0	**−40,195**	0,053
			−83,303	−0,007	49,005	0	**129,501**	0,021
			−20,616	−0,272	11,569	0,006	−23,610	**−1,069**
			−80,397	0,315	1,057	−0,006	−20,088	**1,277**
			−41,458	0,010	−7,168	0	−0,517	0,042
			−41,458	0,010	−7,168	0	−0,517	0,042
25	5	IPE 400						
			−31,460	0,001	−0,985	0	−30,813	0,003
			27,817	−0,046	−3,901	0,001	−17,879	0,036
			25,093	**−0,047**	7,256	0,001	−40,132	−0,221
			21,597	**0,052**	5,290	−0,002	−39,996	0,243
			−11,448	0,005	**−36,843**	−0,001	46,943	0,021
			−12,434	0,001	**12,641**	0	−50,030	0,005
			21,597	0,052	5,290	**−0,002**	−39,996	0,243
			25,131	−0,046	4,953	**0,001**	−20,776	−0,217
			−4,230	0,005	1,850	−0,001	**−53,420**	−0,003
			−11,448	0,005	−36,843	−0,001	**46,943**	0,021
			25,093	−0,047	7,256	0,001	−40,132	**−0,221**
			21,597	0,052	5,290	−0,002	−39,996	**0,243**
			−3,736	0,002	−11,138	0	5,163	0,009
			−3,736	0,002	−11,138	0	5,163	0,009
26	5	IPE 400						
			−33,205	−0,003	28,731	0,001	54,955	0,011
			27,055	0,030	7,712	−0,013	−17,879	0,033
			4,714	**−0,037**	6,415	0,014	−28,817	−0,037
			8,739	**0,038**	4,346	−0,013	−19,672	0,033
			−27,270	0	**−6,833**	0	1,796	0
			−13,662	−0,004	**45,307**	0,001	86,889	0,014
			27,055	0,030	7,712	**−0,013**	−17,879	0,033
			23,038	−0,032	9,784	**0,014**	−27,029	−0,039
			−5,575	−0,004	4,875	0,001	**−51,288**	−0,006
			−13,662	−0,004	45,307	0,001	**86,889**	0,014
			6,053	0,038	10,578	−0,013	21,420	**−0,178**
			1,431	−0,037	15,632	0,014	31,888	**0,164**
			−1,974	−0,001	2,325	0	−19,198	−0,002
			−1,974	−0,001	2,325	0	−19,198	−0,002
27	5	IPE 400						
			−27,539	0,025	23,703	0	28,476	−0,091
			23,372	0,052	3,501	0,013	4,975	−0,123
			7,359	**−0,333**	−1,443	0,013	−3,622	−0,358
			17,133	**0,327**	−0,838	−0,013	12,667	0,392
			4,157	−0,003	**−41,995**	0	84,102	0,013
			−10,011	0,018	**31,012**	0	25,505	−0,071
			7,024	−0,040	−10,618	**−0,013**	29,229	0,158
			9,838	0,039	−10,873	**0,013**	30,372	−0,171
			−3,542	0,018	−1,334	0	**−39,869**	0,007
			4,157	−0,003	−41,995	0	**84,102**	0,013
			14,215	0,327	−6,056	−0,013	−4,204	**−1,211**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			4,972	−0,333	4,097	0,013	2,872	**1,272**
			1,482	−0,001	−14,187	0	29,397	0,005
			1,482	−0,001	−14,187	0	29,397	0,005
28	2	150X150X10,0						
			−93,476	0	0,353	0	0	0
			9,631	0	−0,007	0	−0,054	0
			−4,748	**−0,003**	0,380	0	0	0
			−4,733	**0,003**	0,382	0	0	0
			−49,110	0	**−0,207**	0	0	0
			−8,075	0	**0,588**	0	0	0
			−34,160	0	0,150	**0**	0	0
			−34,160	0	0,150	**0**	0	0
			−46,121	0	−0,207	0	**−1,643**	0
			−4,422	0	0,588	0	**4,661**	0
			−1,080	0,003	0,382	0	3,026	**−0,027**
			−1,095	−0,003	0,380	0	3,013	**0,027**
			−34,160	0	0,150	0	0	0
			−34,160	0	0,150	0	0	0
29	21	260X260X 8,0						
			−48,744	3,873	−0,003	−0,002	0,002	−0,847
			9,073	−10,207	−24,002	−0,514	−0,691	6,897
			8,219	**−10,612**	24,004	0,507	−32,917	−5,454
			−32,073	**18,210**	0,005	−0,001	−0,006	−2,516
			−0,752	−6,897	**−24,002**	−0,512	32,912	−7,771
			−9,656	−1,350	**24,080**	0,519	−33,014	−10,667
			−9,665	−1,342	−23,964	**−0,524**	32,857	−10,706
			−9,656	−1,350	24,080	**0,519**	−33,014	−10,667
			−19,375	1,923	−8,882	0,005	**−34,368**	−9,713
			−10,519	1,292	8,854	−0,015	**34,261**	−6,813
			−34,557	4,332	0,058	−0,002	0,003	**−28,088**
			−4,873	−2,541	−0,001	−0,004	−0,003	**10,997**
			−24,184	1,424	−0,012	−0,007	0,009	−0,693
			−24,184	1,424	−0,012	−0,007	0,009	−0,693
30	1	HE 260 B						
			−395,719	−0,017	−52,999	0	−0,760	−0,012
			4,243	0,007	−21,575	0	29,616	−0,002
			−367,786	**−9,170**	−51,439	0,001	−0,762	−6,475
			−200,074	**9,091**	−28,374	−0,001	−0,762	6,419
			−36,298	0,012	**−111,397**	0	234,335	0,023
			−12,944	0,008	**−17,931**	0	63,088	0,016
			−8,461	−4,895	−73,942	**−0,009**	197,691	−10,169
			−23,802	4,954	−82,693	**0,009**	201,061	10,292
			−390,437	−0,035	−53,646	0	**−204,684**	0,108
			−36,298	0,012	−111,397	0	**234,335**	0,023
			−196,187	9,091	−28,374	−0,001	−108,582	**−28,128**
			−363,898	−9,170	−51,439	0,001	−196,232	**28,371**
			−177,195	−0,025	−22,634	0	−0,622	−0,018
			−177,195	−0,025	−22,634	0	−0,622	−0,018
31	4	SFB HE 240 M - 450x20						
			0	0	−301,089	0,250	359,674	0
			0	0	−296,717	0	338,017	0
			0	**0**	−154,035	0	213,033	0
			0	**0**	−175,173	0	191,415	0
			0	0	**−349,916**	0	417,736	0
			0	0	**357,104**	0	452,241	0
			0	0	−333,685	**−0,249**	398,345	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	0	−333,721	**0,250**	398,520	0
			0	0	3,594	0	**−413,436**	0
			0	0	346,940	0	**460,500**	0
			0	0	−154,035	0	213,033	**0**
			0	0	142,950	0	159,825	**0**
			0	0	−146,842	0	174,802	0
			0	0	−146,842	0	174,802	0
32	1	HE 260 B						
			−421,583	0,025	46,931	0	0	0
			29,349	−0,016	67,904	0	69,772	0
			−144,184	**−2,230**	20,940	0	0	0
			−335,165	**2,243**	47,828	0	0	0
			−155,235	0,016	**16,313**	0	0	0
			−48,934	−0,016	**91,435**	0	−261,182	−0,065
			−12,501	−1,994	83,393	**−0,006**	−248,854	−8,219
			−12,506	1,947	83,386	**0,006**	−248,813	8,027
			−27,701	−0,018	88,287	0	**−261,931**	−0,073
			−374,372	0,017	52,613	0	**199,931**	−0,065
			−331,278	2,243	47,828	0	181,748	**−8,524**
			−141,003	−2,230	20,940	0	79,573	**8,472**
			−182,044	0,014	20,822	0	0	0
			−182,044	0,014	20,822	0	0	0
33	5	IPE 400						
			−113,591	0,002	−5,943	0	11,263	0,006
			−15,822	0	−3,561	0,006	15,584	0,239
			−29,940	**−0,265**	9,969	0,006	−23,694	−1,058
			−29,940	**0,266**	9,969	−0,006	−23,694	1,060
			−59,178	0,002	**−27,271**	0	16,110	0,007
			−83,389	−0,001	**48,992**	0	129,438	0,002
			−83,047	0,264	0,765	**−0,006**	−18,620	1,066
			−83,045	−0,259	0,761	**0,006**	−18,592	−1,048
			−70,683	0,002	15,995	0	**−40,119**	0,006
			−83,389	−0,001	48,992	0	**129,438**	0,002
			−29,940	−0,265	9,969	0,006	−23,694	**−1,058**
			−83,047	0,264	0,765	−0,006	−18,620	**1,066**
			−41,493	0,001	−7,173	0	−0,500	0,005
			−41,493	0,001	−7,173	0	−0,500	0,005
34	5	IPE 400						
			−31,494	0	−0,979	0	−30,821	0,001
			25,060	0,050	−3,373	−0,001	−16,023	−0,038
			21,459	**−0,051**	5,317	0,001	−40,052	−0,242
			21,444	**0,052**	5,319	−0,001	−40,053	0,245
			−11,525	0	**−36,829**	0	46,917	0,002
			−12,464	0	**12,646**	0	−50,037	0,001
			22,295	0,051	7,791	**−0,001**	−41,197	0,243
			21,459	−0,051	5,317	**0,001**	−40,052	−0,242
			−4,349	0	1,872	0	**−53,351**	0,001
			−11,525	0	−36,829	0	**46,917**	0,002
			21,459	−0,051	5,317	0,001	−40,052	**−0,242**
			21,444	0,052	5,319	−0,001	−40,053	**0,245**
			−3,786	0	−11,129	0	5,149	0,001
			−3,786	0	−11,129	0	5,149	0,001
35	5	IPE 400						
			−33,256	0	28,720	0	54,929	0
			24,307	−0,031	7,140	0,014	−16,023	−0,036
			5,017	**−0,038**	5,870	0,014	−24,461	−0,035

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			4,559	**0,038**	6,381	−0,014	−28,715	0,036
			−27,263	0	**−6,833**	0	1,790	0
			−13,779	0	**45,281**	0	86,827	−0,001
			22,901	0,032	9,757	**−0,014**	−26,933	0,037
			22,887	−0,031	9,752	**0,014**	−26,927	−0,036
			−5,693	0	4,849	0	**−51,207**	0
			−13,779	0	45,281	0	**86,827**	−0,001
			2,324	0,038	12,100	−0,014	25,017	**−0,175**
			2,332	−0,038	12,103	0,014	25,026	**0,174**
			−2,023	0	2,314	0	−19,164	0
			−2,023	0	2,314	0	−19,164	0
36	5	IPE 400						
			−27,593	0,001	23,710	0	28,515	−0,005
			20,433	−0,048	3,771	−0,013	3,770	0,130
			16,987	**−0,310**	−0,829	0,013	12,659	−0,370
			16,972	**0,314**	−0,818	−0,013	12,682	0,374
			4,032	−0,001	**−41,977**	0	84,032	−0,001
			−10,083	0	**31,018**	0	25,533	−0,002
			6,869	−0,036	−10,599	**−0,013**	29,149	0,168
			6,859	0,035	−10,591	**0,013**	29,129	−0,169
			−3,614	0	−1,328	0	**−39,868**	0
			4,032	−0,001	−41,977	0	**84,032**	−0,001
			0,883	0,310	6,538	−0,013	9,271	**−1,172**
			0,873	−0,304	6,545	0,013	9,322	**1,148**
			1,429	0	−14,179	0	29,365	0
			1,429	0	−14,179	0	29,365	0
37	2	150X150X10,0						
			−93,489	0	0,355	0	0	0
			9,638	0	−0,006	0	−0,050	0
			−4,779	**−0,003**	0,382	0	0	0
			−22,169	**0,003**	0,180	0	0	0
			−49,099	0	**−0,207**	0	0	0
			−8,099	0	**0,590**	0	0	0
			−34,163	0	0,152	**0**	0	0
			−34,163	0	0,152	**0**	0	0
			−46,110	0	−0,207	0	**−1,637**	0
			−4,446	0	0,590	0	**4,671**	0,001
			−19,181	0,003	0,180	0	1,425	**−0,026**
			−1,126	−0,003	0,382	0	3,022	**0,027**
			−34,163	0	0,152	0	0	0
			−34,163	0	0,152	0	0	0
38	21	260X260X 8,0						
			−48,857	3,885	0,004	0,047	−0,003	−0,837
			9,905	−12,407	24,036	0,767	0,709	8,257
			9,057	**−12,816**	23,998	0,769	−32,888	−7,105
			−32,070	**18,209**	−0,053	0,021	0,058	−2,546
			8,311	−10,268	**−24,026**	−0,455	32,939	−7,455
			−8,821	−3,552	**24,089**	0,801	−33,006	−12,376
			5,290	−9,955	−24,022	**−0,460**	32,932	−9,267
			−5,852	−4,277	24,046	**0,803**	−32,945	−8,536
			−18,735	2,296	−8,881	−0,039	**−34,358**	−11,397
			0,360	1,301	8,863	−0,008	**34,294**	−6,665
			−34,545	4,312	0,021	−0,026	−0,017	**−28,144**
			−4,902	−2,537	0,021	0,027	0,080	**10,980**
			−24,262	1,437	−0,008	0,025	0,006	−0,686
			−24,262	1,437	−0,008	0,025	0,006	−0,686

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
39	1	HE 260 B						
			−395,572	−0,020	−52,973	0	−0,756	−0,012
			4,350	0,013	−21,514	0,001	29,686	−0,004
			−367,227	**−9,176**	−51,380	0	−0,755	−6,477
			−199,577	**9,096**	−28,570	−0,002	−0,757	6,422
			−36,227	0,024	**−111,357**	0,002	234,307	0,052
			−12,801	0,014	**−17,852**	0,002	63,004	0,027
			1,001	−4,914	−25,134	**−0,005**	80,831	−10,184
			−23,372	4,948	−82,619	**0,011**	201,010	10,288
			−390,237	−0,040	−53,599	0	**−204,501**	0,125
			−36,227	0,024	−111,357	0,002	**234,307**	0,052
			−195,690	9,096	−28,570	−0,002	−109,325	**−28,144**
			−363,340	−9,176	−51,380	0	−195,999	**28,393**
			−177,087	−0,027	−22,596	0	−0,619	−0,018
			−177,087	−0,027	−22,596	0	−0,619	−0,018
40	4	SFB HE 240 M - 450x20						
			0	0	−143,104	−0,002	155,246	0
			0	0	−332,084	−0,002	390,211	0
			0	**0**	−154,013	−0,001	212,927	0
			0	**0**	−175,145	−0,002	191,273	0
			0	0	**−349,863**	0	417,467	0
			0	0	**357,157**	0	452,481	0
			0	0	−333,713	**−0,248**	397,571	0
			0	0	−333,453	**0,251**	397,001	0
			0	0	3,647	0	**−413,450**	0
			0	0	346,975	−0,001	**460,653**	0
			0	0	−154,013	−0,001	212,927	**0**
			0	0	142,972	−0,001	159,932	**0**
			0	0	−146,806	0	174,625	0
			0	0	−146,806	0	174,625	0
41	1	HE 260 B						
			−421,691	0,014	47,011	0	0	0
			29,338	−0,065	67,907	0	69,794	0,001
			−169,587	**−2,242**	20,752	0	0	0
			−336,229	**2,250**	47,880	0	0	0
			−155,256	0,040	**16,350**	0	0	0
			−48,969	−0,033	**91,461**	0	−261,233	−0,134
			−13,296	−1,976	83,685	**−0,007**	−249,699	−8,144
			−6,869	1,980	74,998	**0,006**	−224,019	8,162
			−27,733	−0,013	88,303	0	**−261,945**	−0,051
			−374,446	0,060	52,642	0	**200,040**	−0,228
			−332,341	2,250	47,880	0	181,944	**−8,552**
			−166,407	−2,242	20,752	0	78,857	**8,520**
			−182,096	0,010	20,866	0	0	0
			−182,096	0,010	20,866	0	0	0
42	5	IPE 400						
			−113,576	−0,006	−5,934	0	11,213	−0,032
			−13,200	0,010	−3,270	0,005	16,960	0,222
			−80,401	**−0,310**	1,065	0,006	−20,143	−1,258
			−20,617	**0,272**	11,570	−0,006	−23,616	1,070
			−59,124	−0,011	**−27,255**	0	16,015	−0,046
			−83,310	0,005	**49,017**	0	129,536	−0,016
			−82,923	0,254	0,782	**−0,006**	−18,712	1,009
			−41,867	−0,305	−2,472	**0,006**	−9,305	−1,229
			−70,611	−0,008	16,013	0	**−40,221**	−0,043
			−83,310	0,005	49,017	0	**129,536**	−0,016
			−80,401	−0,310	1,065	0,006	−20,143	**−1,258**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−20,617	0,272	11,570	−0,006	−23,616	**1,070**
			−41,462	−0,007	−7,162	0	−0,562	−0,031
			−41,462	−0,007	−7,162	0	−0,562	−0,031
43	5	IPE 400						
			−31,477	−0,001	−0,983	0,001	−30,815	−0,001
			27,815	0,046	−3,901	−0,001	−17,878	−0,036
			21,590	**−0,051**	5,291	0,002	−39,997	−0,240
			25,072	**0,047**	7,258	−0,001	−40,134	0,223
			−11,454	−0,004	**−36,842**	0,001	46,942	−0,018
			−12,449	−0,001	**12,643**	0	−50,031	−0,003
			25,129	0,046	4,953	**−0,001**	−20,776	0,217
			21,590	−0,051	5,291	**0,002**	−39,997	−0,240
			−4,260	−0,004	1,853	0,001	**−53,408**	0,004
			−11,454	−0,004	−36,842	0,001	**46,942**	−0,018
			21,590	−0,051	5,291	0,002	−39,997	**−0,240**
			25,072	0,047	7,258	−0,001	−40,134	**0,223**
			−3,752	−0,002	−11,137	0,001	5,162	−0,006
			−3,752	−0,002	−11,137	0,001	5,162	−0,006
44	5	IPE 400						
			−33,219	0,003	28,727	−0,001	54,940	−0,011
			27,053	−0,030	7,711	0,013	−17,878	−0,033
			8,723	**−0,038**	4,341	0,013	−19,665	−0,032
			4,676	**0,037**	6,403	−0,014	−28,800	0,038
			−27,284	0,001	**−6,838**	0	1,803	0,001
			−13,690	0,004	**45,299**	−0,001	86,854	−0,015
			23,032	0,032	9,783	**−0,014**	−27,026	0,039
			27,053	−0,030	7,711	**0,013**	−17,878	−0,033
			−5,604	0,004	4,867	−0,001	**−51,274**	0,006
			−13,690	0,004	45,299	−0,001	**86,854**	−0,015
			1,393	0,037	15,620	−0,014	31,842	**−0,165**
			6,037	−0,038	10,573	0,013	21,400	**0,178**
			−1,989	0,001	2,320	0	−19,190	0,002
			−1,989	0,001	2,320	0	−19,190	0,002
45	5	IPE 400						
			−27,554	−0,023	23,713	0	28,542	0,081
			23,369	−0,053	3,503	−0,013	4,969	0,123
			17,126	**−0,323**	−0,833	0,013	12,675	−0,388
			7,108	**0,335**	−1,790	−0,013	−5,995	0,363
			4,126	0,002	**−41,973**	0	84,040	−0,015
			−10,016	−0,017	**31,015**	0	25,529	0,067
			9,817	−0,040	−10,859	**−0,013**	30,331	0,170
			6,982	0,039	−10,589	**0,013**	29,146	−0,159
			−3,547	−0,017	−1,330	0	**−39,861**	−0,007
			4,126	0,002	−41,973	0	**84,040**	−0,015
			4,954	0,334	4,109	−0,013	2,961	**−1,278**
			14,208	−0,323	−6,051	0,013	−4,175	**1,193**
			1,465	0,001	−14,175	0	29,363	−0,006
			1,465	0,001	−14,175	0	29,363	−0,006
46	2	150X150X10,0						
			−93,121	0	0,347	0	0	0
			9,747	0	−0,008	0	−0,065	0
			−4,413	**−0,004**	0,372	0	0	0
			−22,948	**0,003**	0,190	0	0	0
			−49,009	0	**−0,208**	0	0	0
			−7,730	0	**0,580**	0	0	0
			−34,010	0	0,149	**0**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−34,010	0	0,149	**0**	0	0
			−46,021	0	−0,208	0	**−1,647**	0
			−4,077	0	0,580	0	**4,595**	0,001
			−19,959	0,003	0,190	0	1,507	**−0,026**
			−0,760	−0,004	0,372	0	2,948	**0,029**
			−34,010	0	0,149	0	0	0
			−34,010	0	0,149	0	0	0
47	21	260X260X 8,0						
			−48,628	3,893	0,026	0,262	−0,040	−0,734
			10,640	−14,893	23,991	0,288	0,652	12,250
			9,850	**−14,893**	23,991	0,288	−32,936	−8,599
			−32,340	**18,736**	−0,105	0,277	0,129	−2,021
			4,954	−9,337	**−24,086**	−0,256	32,987	−8,606
			−8,186	−5,353	**24,062**	0,436	−33,048	−13,638
			8,048	−10,310	−24,051	**−0,311**	32,970	−5,098
			−8,186	−5,353	24,062	**0,436**	−33,048	−13,638
			−18,213	2,653	−8,876	0,247	**−34,391**	−12,898
			−3,159	1,640	8,891	0,196	**34,389**	−8,240
			−34,882	4,937	−0,051	0,125	−0,061	**−28,402**
			10,640	−14,893	23,991	0,288	0,652	**12,250**
			−24,136	1,446	0,006	0,163	−0,020	−0,621
			−24,136	1,446	0,006	0,163	−0,020	−0,621
48	1	HE 260 B						
			−396,784	−0,014	−52,772	0,001	−0,699	−0,022
			4,015	4,789	−27,409	0,011	23,418	−0,566
			−366,987	**−9,167**	−51,121	0,001	−0,707	−6,470
			−200,592	**9,088**	−28,681	0,002	−0,707	6,390
			−37,001	0,033	**−112,297**	0,007	235,574	0,097
			−13,351	0,003	**−18,772**	0,007	64,247	0,032
			−217,264	−0,013	−24,261	**−0,004**	−0,710	−0,020
			−23,120	4,891	−84,001	**0,017**	202,860	10,196
			−391,691	−0,033	−53,356	0	**−203,513**	0,088
			−37,001	0,033	−112,297	0,007	**235,574**	0,097
			−196,704	9,088	−28,681	0,002	−109,694	**−28,145**
			−363,100	−9,167	−51,121	0,001	−194,967	**28,366**
			−177,739	−0,026	−22,466	0	−0,590	−0,028
			−177,739	−0,026	−22,466	0	−0,590	−0,028
49	4	SFB HE 240 M - 450x20						
			0	0	−301,150	−0,245	360,144	0
			0	0	−184,458	−0,002	240,303	0
			0	**0**	−140,371	−0,005	141,125	0
			0	**0**	−175,312	−0,002	192,770	0
			0	0	**−350,017**	0,001	418,407	0
			0	0	**357,003**	0,001	451,943	0
			0	0	−333,888	**−0,247**	398,618	0
			0	0	−333,363	**0,252**	396,509	0
			0	0	3,493	0,001	**−413,249**	0
			0	0	346,767	−0,002	**459,891**	0
			0	0	187,671	−0,002	252,089	**0**
			0	0	−175,312	−0,002	192,770	**0**
			0	0	−146,868	0,001	175,016	0
			0	0	−146,868	0,001	175,016	0
50	1	HE 260 B						
			−421,048	0,004	47,147	0	0	0
			29,593	−0,113	67,692	0	69,463	0,001
			−169,190	**−2,281**	20,765	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−336,819	**2,268**	47,976	0	0	0
			−155,141	0,065	**16,395**	0	0	0
			−48,477	−0,050	**91,031**	0	−260,151	−0,203
			−13,787	−1,967	83,619	**−0,007**	−249,702	−8,107
			−6,428	2,015	74,690	**0,006**	−223,190	8,308
			−27,323	−0,008	87,930	0	**−260,995**	−0,029
			−373,746	0,103	52,728	0	**200,365**	−0,393
			−332,932	2,268	47,976	0	182,308	**−8,617**
			−166,010	−2,281	20,765	0	78,908	**8,668**
			−181,842	0,006	20,933	0	0	0
			−181,842	0,006	20,933	0	0	0
51	5	IPE 400						
			−114,296	−0,046	−6,100	0	12,108	−0,194
			−10,667	0,019	−3,066	0,005	17,981	0,196
			−78,309	**−0,370**	1,159	0,005	−20,517	−1,494
			−21,430	**0,336**	11,443	−0,005	−22,949	1,086
			−59,873	−0,059	**−27,433**	0	16,984	−0,238
			−84,414	0,026	**48,749**	0	128,355	−0,049
			−69,616	0,294	13,267	**−0,006**	−33,243	0,920
			−30,135	−0,329	−0,680	**0,006**	−10,134	−1,321
			−62,256	−0,063	17,393	−0,001	**−38,936**	−0,260
			−84,414	0,026	48,749	0	**128,355**	−0,049
			−78,309	−0,370	1,159	0,005	−20,517	**−1,494**
			−21,430	0,336	11,443	−0,005	−22,949	**1,086**
			−41,913	−0,039	−7,271	0	0,028	−0,157
			−41,913	−0,039	−7,271	0	0,028	−0,157
52	5	IPE 400						
			−32,416	−0,006	−17,211	0,001	−3,792	−0,024
			30,333	0,041	−4,389	0	−19,553	−0,033
			23,386	**−0,112**	−0,281	0,003	−25,940	0,050
			3,351	**0,046**	−5,501	0,002	−4,085	−0,121
			−12,430	−0,010	**−36,650**	0,002	46,601	−0,046
			−13,228	−0,003	**12,796**	0,001	−50,305	−0,014
			27,647	0,041	4,466	**0**	−19,763	0,190
			20,103	0,039	5,590	**0,003**	−40,559	−0,152
			−6,499	−0,011	−1,909	0,002	**−52,573**	0
			−12,430	−0,010	−36,650	0,002	**46,601**	−0,046
			21,088	−0,006	3,829	0,003	−32,779	**−0,179**
			27,647	0,041	4,466	0	−19,763	**0,190**
			−4,339	−0,004	−11,022	0,001	4,960	−0,019
			−4,339	−0,004	−11,022	0,001	4,960	−0,019
53	5	IPE 400						
			−34,393	0,003	28,488	−0,001	54,484	−0,012
			29,565	−0,034	8,230	0,013	−19,555	−0,031
			20,815	**−0,062**	−1,872	−0,015	−1,362	−0,033
			3,169	**0,093**	6,102	−0,016	−27,700	0,046
			−27,603	0,001	**−6,903**	0	2,032	0,002
			−15,118	0,004	**45,008**	−0,002	86,305	−0,009
			21,544	0,090	9,487	**−0,016**	−25,938	0,047
			29,565	−0,034	8,230	**0,013**	−19,555	−0,031
			−7,032	0,004	4,576	−0,002	**−50,222**	0,012
			−15,118	0,004	45,008	−0,002	**86,305**	−0,009
			2,622	0,002	9,630	−0,015	1,301	**−0,113**
			7,142	−0,045	13,099	0,012	27,306	**0,217**
			−2,575	0,001	2,201	−0,001	−18,759	0,005
			−2,575	0,001	2,201	−0,001	−18,759	0,005

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
54	5	IPE 400						
			−28,795	−0,087	23,770	0	28,686	0,320
			25,914	−0,021	3,255	−0,013	6,035	0,150
			12,639	**−0,494**	−5,990	0,013	−4,074	1,639
			9,994	**0,243**	−1,679	−0,013	−3,721	0,254
			2,618	0,026	**−41,904**	0	83,533	−0,008
			−10,922	−0,086	**31,051**	0	25,588	0,335
			11,874	−0,002	−11,077	**−0,013**	31,216	0,210
			19,260	0,141	6,953	**0,013**	−3,028	−0,027
			−4,452	−0,086	−1,294	0	**−39,959**	−0,044
			2,618	0,026	−41,904	0	**83,533**	−0,008
			7,607	0,243	3,861	−0,013	1,619	**−0,935**
			12,639	−0,494	−5,990	0,013	−4,074	**1,639**
			0,846	0,011	−14,146	0	29,152	−0,002
			0,846	0,011	−14,146	0	29,152	−0,002
55	2	150X150X10,0						
			−84,407	0	0,075	0	0	0
			19,421	−0,004	−0,034	0	−0,272	0,030
			9,507	**−0,004**	0,031	0	0	0
			−23,045	**0,003**	0,242	0	0	0
			−47,591	0	**−0,244**	0	0	0
			−3,110	0,003	**0,350**	0	0	0
			−30,587	0	0,040	**0**	0	0
			−30,587	0	0,040	**0**	0	0
			−44,603	0	−0,244	0	**−1,934**	0,001
			0,542	0,003	0,350	0	**2,773**	−0,025
			−20,057	0,003	0,242	0	1,919	**−0,026**
			13,159	−0,004	0,031	0	0,244	**0,031**
			−30,587	0	0,040	0	0	0
			−30,587	0	0,040	0	0	0
56	21	260X260X 8,0						
			−49,372	3,416	−0,044	0,407	0,106	−0,718
			14,592	−17,446	23,659	−0,355	0,167	17,598
			13,801	**−17,446**	23,659	−0,355	−32,956	−6,826
			−33,083	**18,303**	−0,533	0,332	0,331	−0,541
			3,839	−11,327	**−24,094**	−1,694	32,806	−7,295
			−1,111	−8,435	**23,958**	0,021	−33,210	−9,343
			3,827	−11,240	−24,073	**−1,774**	32,761	−8,552
			−11,930	16,349	−0,514	**0,608**	0,355	9,826
			−14,451	1,866	−9,044	0,440	**−34,625**	−9,355
			−2,658	0,764	8,830	−0,262	**34,027**	−4,203
			−32,116	18,303	−0,533	0,332	−0,416	**−26,165**
			14,592	−17,446	23,659	−0,355	0,167	**17,598**
			−24,783	1,136	−0,050	0,226	0,115	−0,664
			−24,783	1,136	−0,050	0,226	0,115	−0,664
57	1	HE 260 B						
			−411,165	−0,075	−46,191	0	−0,352	−0,023
			−0,421	0,124	−38,948	0,010	14,037	−0,269
			−374,986	**−9,188**	−47,497	0,002	−176,038	27,368
			−212,589	**9,186**	−25,183	0,008	−0,560	6,689
			−56,004	0,246	**−136,042**	0,008	258,042	0,259
			−187,152	−0,051	**−15,918**	−0,011	−0,444	−0,024
			−228,155	−0,051	−20,405	**−0,011**	−0,544	−0,014
			−31,579	4,941	−110,349	**0,028**	235,274	10,172
			−378,625	−0,038	−50,449	0,007	**−191,924**	0,092
			−43,454	0,269	−133,955	0,008	**263,497**	0,286
			−168,365	9,184	−20,654	0,008	−78,946	**−28,223**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−374,884	−9,188	−47,497	0,002	−180,788	**28,286**
			−184,465	−0,023	−20,214	0	−0,448	0,029
			−184,465	−0,023	−20,214	0	−0,448	0,029
58	4	SFB HE 240 M - 450x20						
			0	0	−338,530	0	427,098	0
			0	0	−149,430	0	189,996	0
			0	**0**	−143,413	−0,010	158,975	0
			0	**0**	−178,695	−0,005	212,605	0
			0	0	**−354,634**	−0,001	445,320	0
			0	0	**352,386**	−0,001	434,525	0
			0	0	−336,837	**−0,243**	416,891	0
			0	0	−339,108	**0,250**	428,479	0
			0	0	−1,124	−0,001	**−408,501**	0
			0	0	−343,970	−0,004	**454,989**	0
			0	0	184,288	−0,005	239,455	**0**
			0	0	−178,695	−0,005	212,605	**0**
			0	0	−148,979	0	187,369	0
			0	0	−148,979	0	187,369	0
59	1	HE 260 B						
			−403,005	−0,007	48,400	0	0	0
			40,112	2,014	72,242	0,006	84,461	0,009
			−154,513	**−2,330**	20,551	0	0	0
			−326,752	**2,295**	49,978	0	0	0
			−152,672	0,090	**16,535**	0	0	0
			−36,288	−0,068	**80,688**	0	−234,307	−0,276
			−9,768	−1,968	68,137	**−0,008**	−218,567	−8,109
			0,947	2,090	38,830	**0,006**	−109,120	8,616
			−17,165	−0,003	79,127	−0,001	**−239,053**	−0,009
			−355,672	0,147	54,015	0	**205,259**	−0,558
			−322,865	2,295	49,978	0	189,916	**−8,720**
			−151,333	−2,330	20,551	0	78,094	**8,854**
			−174,614	0,002	21,471	0	0	0
			−174,614	0,002	21,471	0	0	0
60	5	IPE 400						
			−142,084	−0,054	−22,329	0	41,110	−0,233
			−3,267	0,009	−8,434	0,005	5,788	0,177
			−117,026	**−0,304**	−1,638	0,005	8,986	−1,240
			−52,346	**0,269**	8,987	−0,005	−13,512	0,596
			−88,006	−0,053	**−31,766**	0	40,229	−0,214
			−123,406	0,022	**42,233**	0	99,164	−0,060
			−115,429	0,251	8,061	**−0,006**	−8,820	0,517
			−50,893	−0,268	−0,753	**0,005**	4,564	−1,082
			−80,949	−0,051	0,583	0	**−28,947**	0,012
			−123,406	0,022	42,233	0	**99,164**	−0,060
			−117,026	−0,304	−1,638	0,005	8,986	**−1,240**
			−52,346	0,269	8,987	−0,005	−13,512	**0,596**
			−59,090	−0,036	−9,939	0	14,251	−0,152
			−59,090	−0,036	−9,939	0	14,251	−0,152
61	5	IPE 400						
			−62,056	−0,007	−11,568	0,002	−14,269	−0,027
			48,355	0,037	−10,673	0,001	−34,160	−0,030
			−40,360	**−0,174**	13,297	0,005	19,324	0,058
			−45,906	**0,134**	5,136	0,003	−28,231	−0,040
			−44,051	−0,014	**−30,511**	0,003	34,684	−0,061
			−39,283	0,129	**20,929**	0,005	−69,906	−0,062
			−12,238	−0,001	12,218	**0**	−35,355	−0,003

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−43,643	0,128	19,167	**0,005**	−70,066	−0,069
			−43,643	0,128	19,167	0,005	**−70,066**	−0,069
			−38,913	−0,014	−28,815	0,003	**35,016**	−0,063
			−42,330	0,007	16,819	0,005	−30,431	**−0,217**
			45,669	0,037	1,199	0,001	−8,074	**0,171**
			−21,686	−0,006	−7,905	0,001	−0,788	−0,024
			−21,686	−0,006	−7,905	0,001	−0,788	−0,024
62	5	IPE 400						
			−62,258	−0,143	3,660	−0,017	11,050	0,011
			57,091	−0,040	12,891	0,012	−34,162	−0,028
			−30,585	**−0,147**	−11,310	−0,017	−17,711	0,031
			−58,975	**0,159**	−5,557	−0,017	16,275	0,054
			−30,585	−0,147	**−11,310**	−0,017	−17,711	0,031
			−54,335	0,009	**37,315**	−0,004	72,935	−0,030
			−42,520	0,157	−2,498	**−0,018**	19,304	0,056
			57,091	−0,040	12,891	**0,012**	−34,162	−0,028
			36,670	−0,051	9,657	0,012	**−38,834**	−0,026
			−54,335	0,009	37,315	−0,004	**72,935**	−0,030
			−60,616	0,008	−0,949	−0,017	7,318	**−0,175**
			27,340	−0,052	13,195	0,012	27,346	**0,259**
			−17,943	0,003	−0,826	−0,001	−7,351	0,007
			−17,943	0,003	−0,826	−0,001	−7,351	0,007
63	5	IPE 400						
			−48,427	−0,083	−0,768	0,012	−12,691	−0,234
			45,860	0,020	8,334	−0,013	1,861	0,189
			−15,448	**−0,472**	−4,392	0,012	−6,412	1,348
			−34,690	**0,202**	5,293	0,012	−10,824	0,027
			−17,150	0,013	**−41,172**	0	71,430	−0,029
			−22,392	−0,125	**31,662**	0	25,141	0,491
			30,125	0,037	−8,976	**−0,014**	30,415	0,252
			−25,815	0,194	8,342	**0,012**	−17,409	0,037
			−12,645	−0,088	−0,726	0	**−44,357**	−0,043
			−23,992	0,020	−41,105	0	**72,390**	−0,030
			11,289	0,117	0,382	−0,013	−3,339	**−0,461**
			−15,448	−0,472	−4,392	0,012	−6,412	**1,348**
			−9,509	0,008	−13,838	0	24,776	−0,011
			−9,509	0,008	−13,838	0	24,776	−0,011
64	6	HE 200 A						
			−29,470	−0,524	−0,002	0	0,002	0
			10,280	−0,854	−7,821	0	0	0
			−6,107	**−1,669**	3,086	0	−5,925	−3,204
			−11,176	**1,451**	0,286	0	−6,843	2,018
			1,070	−0,981	**−14,338**	0	27,530	−1,883
			−5,422	−0,425	**13,238**	0	−0,674	0
			2,688	−0,890	−14,338	**0**	27,529	−1,709
			−7,807	−0,435	13,041	**0**	−25,039	−0,835
			−16,467	−0,876	−12,028	0	**−28,319**	2,102
			−4,509	−0,425	13,238	0	**31,097**	1,020
			−9,502	1,451	0,286	0	−5,815	**−3,204**
			−23,334	−0,902	−6,013	0	−14,193	**2,165**
			−15,282	−0,327	−0,001	0	0,001	0
			−15,282	−0,327	−0,001	0	0,001	0
65	2	150X150X10,0						
			−24,819	3,474	−1,208	−0,058	0,832	4,863
			7,469	0,631	4,985	−0,318	6,719	4,393
			−4,376	**−5,679**	−1,814	0,167	0,066	−7,295

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−1,096	**4,610**	2,566	−0,485	−3,593	6,454
			3,895	3,780	**−5,023**	0,986	7,032	5,292
			2,508	0,723	**5,259**	−0,353	−5,069	5,827
			−3,248	2,971	4,446	**−1,014**	−6,225	4,159
			1,519	3,913	−4,787	**1,116**	6,701	5,478
			−9,666	−3,288	−3,267	0,109	**−6,738**	2,723
			3,895	3,780	−5,023	0,986	**7,032**	5,292
			−20,892	2,159	1,199	−0,058	0,570	**−8,043**
			0,096	3,024	3,530	−0,371	−3,853	**8,572**
			−13,552	0,432	−0,552	−0,067	0,463	1,140
			−13,552	0,432	−0,552	−0,067	0,463	1,140
66	6	HE 200 A						
			−141,014	−0,217	−1,010	−0,001	1,481	0,832
			16,538	1,627	−3,240	0,014	0	0
			−70,842	**−3,600**	2,032	−0,005	12,019	−0,662
			−49,242	**1,892**	3,877	0,004	−3,055	1,611
			−106,283	0,665	**−7,733**	−0,003	5,267	1,141
			−25,789	0,268	**6,877**	−0,003	−2,674	0,267
			−6,300	−0,143	−0,943	**−0,006**	2,076	−0,315
			14,289	1,760	−3,297	**0,014**	7,252	3,872
			−104,889	−1,798	−5,692	−0,001	**−19,558**	2,203
			−22,667	−2,364	2,189	−0,005	**15,166**	2,777
			−48,710	1,892	3,877	0,004	2,373	**−1,038**
			−70,191	−3,600	2,032	−0,005	14,864	**4,377**
			−47,298	0,266	−0,563	0	1,156	0,514
			−47,298	0,266	−0,563	0	1,156	0,514
67	6	HE 200 A						
			−190,553	−0,512	−0,749	0	−0,810	0
			2,663	−0,031	2,686	−0,049	0	0
			−111,498	**−4,545**	−5,295	0	7,487	−0,934
			−25,911	**4,625**	3,416	0,032	0,068	5,504
			−118,546	−4,202	**−11,201**	0	10,543	−0,717
			−89,099	0,384	**11,695**	0	−6,294	0,667
			−38,008	1,798	−8,191	**−0,050**	10,045	0,760
			−28,140	4,085	7,554	**0,057**	−5,115	4,826
			−4,010	1,162	−4,098	−0,037	**−8,650**	−1,187
			−18,284	2,807	7,524	0,057	**11,556**	−2,813
			−24,888	4,625	3,416	0,032	7,584	**−4,670**
			−25,911	4,625	3,416	0,032	0,068	**5,504**
			−63,710	0,051	−0,033	0	0,013	0
			−63,710	0,051	−0,033	0	0,013	0
68	18	HE 140 A						
			−30,121	0,656	1,432	0,031	−1,741	0,253
			13,839	1,979	−1,157	−0,019	−1,139	−3,164
			−25,362	**−2,924**	−1,667	0,031	−1,367	4,821
			−5,890	**2,678**	3,083	−0,026	2,358	−4,424
			−2,651	0,013	**−9,348**	0	8,869	0,067
			7,737	−0,050	**10,536**	0,001	8,914	0,058
			1,888	−0,180	−2,212	**−0,026**	1,962	0,231
			−26,988	0,654	1,436	**0,031**	−1,715	0,242
			5,602	−0,050	−0,138	0,001	**−6,321**	−0,088
			7,737	−0,050	10,536	0,001	**8,914**	0,058
			−3,708	2,677	−0,183	−0,026	−0,285	**−4,425**
			−25,362	−2,924	−1,667	0,031	−1,367	**4,821**
			2,464	−0,040	−2,353	0,001	0,431	−0,150
			2,464	−0,040	−2,353	0,001	0,431	−0,150

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
69	18	HE 140 A						
			−9,088	5,071	1,818	0,042	−1,415	4,877
			53,872	0,556	−0,610	−0,026	0,674	4,101
			−7,340	**−10,208**	1,234	0,042	−0,084	0,186
			30,675	**9,204**	−6,758	−0,036	−2,290	−0,161
			51,638	6,566	**−11,283**	−0,026	−6,701	−0,117
			33,572	0	**8,984**	0	6,277	0,004
			16,042	8,048	−4,454	**−0,036**	1,852	5,449
			−6,533	5,071	1,108	**0,042**	−0,866	4,876
			48,485	6,566	−10,701	−0,026	**−6,739**	−0,118
			23,280	0,001	−9,391	0	**7,309**	0,007
			−7,953	−0,120	−1,293	0,042	−0,360	**−6,604**
			27,374	0,110	2,744	−0,036	1,210	**5,962**
			12,442	−0,001	−3,190	0	2,466	−0,003
			12,442	−0,001	−3,190	0	2,466	−0,003
70	18	HE 140 A						
			−11,266	−5,076	−1,785	−0,033	−1,343	4,858
			42,466	−0,549	0,654	0,021	0,544	4,121
			15,795	**−9,281**	3,109	0,028	−2,254	−0,162
			−8,784	**10,274**	−1,377	−0,033	−0,079	0,188
			17,384	0,001	**−8,920**	0	6,086	0,003
			40,986	−6,599	**11,060**	0,021	−6,683	−0,118
			−7,533	10,274	−0,846	**−0,033**	−0,024	0,188
			19,053	−8,782	6,168	**0,029**	−2,275	−0,162
			39,620	−6,599	10,504	0,021	**−6,723**	−0,119
			11,779	0,001	9,423	0	**7,376**	−0,003
			−10,132	0,115	1,326	−0,033	−0,434	**−6,643**
			17,055	−0,102	0,100	0,028	0,241	**6,008**
			6,471	0	2,569	0	0,144	0,002
			6,471	0	2,569	0	0,144	0,002
71	18	HE 140 A						
			−21,490	0,568	−1,175	0,021	0,070	−1,134
			15,370	−2,001	1,167	0,021	−1,138	−3,209
			4,087	**−2,700**	−3,134	0,028	2,615	−4,474
			−12,522	**2,949**	1,657	−0,033	−1,311	4,858
			−7,231	0,065	**−10,611**	0	8,991	0,057
			−0,539	−0,013	**9,359**	0	8,973	0,061
			−11,178	2,947	0,995	**−0,033**	−0,753	4,857
			4,439	−2,118	−2,161	**0,029**	1,744	−3,877
			−9,366	0,065	0,063	0	**−6,466**	−0,133
			−11,616	0,073	−10,609	0	**8,997**	0,061
			4,087	−2,700	−3,134	0,028	2,615	**−4,474**
			−9,766	2,948	1,665	−0,033	−1,343	**4,858**
			1,104	−0,009	−2,978	0	2,505	−0,005
			1,104	−0,009	−2,978	0	2,505	−0,005
72	6	HE 200 A						
			−215,843	−0,661	−0,549	0	0,024	0
			11,640	−3,886	−5,415	0,010	0	0
			9,231	**−6,082**	−5,427	0,009	5,210	−5,838
			5,171	**5,275**	0,557	0,009	3,710	5,767
			−132,603	−4,424	**−9,157**	0	12,741	−0,633
			−92,074	−0,374	**11,307**	0	−7,512	0,336
			−11,555	2,564	−3,909	**−0,016**	5,390	3,165
			0,372	3,256	3,271	**0,018**	−0,052	3,608
			−68,796	−1,078	4,808	0	**−10,530**	−0,238
			−65,989	−3,277	−9,149	0	**12,761**	−0,548
			6,194	5,275	0,557	0,009	4,936	**−5,838**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−124,240	−4,699	−4,009	0	3,718	**5,767**
			−74,000	0,040	0,002	0	0,018	0
			−74,000	0,040	0,002	0	0,018	0
73	6	HE 200 A						
			−28,198	−0,750	0,004	0	−0,016	0
			6,453	−0,345	−4,723	0	0	0
			−18,989	**−0,987**	3,861	0	−11,080	−2,832
			−22,991	**1,329**	−0,428	0	−9,191	1,951
			−11,290	−0,300	**−9,094**	0	1,648	0
			−8,432	−0,791	**9,918**	0	−1,213	0
			−15,924	−0,982	7,772	**0**	−22,305	−2,817
			2,239	−0,348	−8,634	**0**	24,781	−0,999
			−13,468	−0,804	7,772	0	**−22,306**	−2,307
			2,239	−0,348	−8,634	0	**24,781**	−0,999
			−21,317	1,329	−0,428	0	−10,732	**−2,832**
			−19,125	−0,888	−3,838	0	−8,910	**2,131**
			−13,987	−0,321	0,002	0	−0,007	0
			−13,987	−0,321	0,002	0	−0,007	0
74	6	HE 200 A						
			−27,316	−0,719	0,003	0	−0,011	0
			6,765	−0,322	−4,756	0	0	0
			−7,279	**−0,979**	3,429	0	−9,843	−2,811
			−11,280	**1,317**	−0,280	0	−8,882	1,931
			−8,291	−0,460	**−9,009**	0	0,662	0
			−7,855	−0,775	**9,847**	0	−0,377	0
			1,208	−0,530	−8,704	**0**	24,981	−1,521
			−9,418	0,075	7,856	**0**	−22,547	0,216
			−7,121	0,873	−0,719	0	**−22,907**	−1,118
			0,650	0,565	0,730	0	**25,449**	−0,969
			−9,606	1,317	−0,280	0	−9,890	**−2,811**
			−19,459	−0,890	−4,524	0	−10,411	**2,137**
			−13,759	−0,321	0,001	0	−0,005	0
			−13,759	−0,321	0,001	0	−0,005	0
75	6	HE 200 A						
			−30,386	−0,492	−0,040	0	0,072	0
			12,820	−2,004	−7,924	0	0	0
			−5,497	**−3,957**	2,605	0	−2,501	−3,799
			−10,208	**1,664**	0,610	0	−4,838	2,192
			3,257	−2,322	**−14,514**	0	13,934	−2,229
			3,207	−1,277	**14,327**	0	−13,753	−1,226
			4,694	−1,320	−14,505	**0**	13,925	−1,267
			−7,627	−0,969	14,317	**0**	−13,745	−0,930
			−16,236	−0,545	−10,992	0	**−25,862**	1,308
			0,992	1,033	−3,535	0	**26,224**	1,695
			−8,534	1,664	0,610	0	−2,640	**−3,799**
			−23,553	−0,927	−6,010	0	−14,069	**2,226**
			−14,896	−0,343	−0,032	0	0,059	0
			−14,896	−0,343	−0,032	0	0,059	0
76	7	180X100X 5,6						
			−2,392	1,406	5,688	−0,019	0	0
			13,045	0,172	−2,653	−0,039	9,584	1,481
			8,336	**−4,506**	2,192	−0,039	9,874	−3,611
			−0,775	**2,707**	2,192	−0,039	9,874	−3,611
			9,115	1,183	**−7,879**	−0,038	0	0
			−0,991	0,922	**8,975**	−0,038	0	0
			0,892	0,366	8,975	**−0,040**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			3,574	−0,536	−7,233	**0,037**	0	0
			3,734	−0,029	0	0,035	**−8,679**	0,014
			5,763	−2,948	−0,230	−0,038	**10,494**	−0,609
			−0,775	2,707	2,192	−0,039	9,874	**−3,611**
			6,791	−3,644	−2,653	−0,038	9,584	**1,577**
			1,293	−0,525	0	−0,006	0	0
			1,293	−0,525	0	−0,006	0	0
77	7	180X100X 5,6						
			0,307	−1,477	1,315	−0,001	0	0
			13,239	−1,806	6,575	0,012	0	0
			3,170	**−1,970**	0	0,001	0	0
			3,170	**1,970**	0	0,001	0	0
			5,697	−1,477	**−7,233**	−0,012	0	0
			5,697	1,477	**7,233**	−0,012	0	0
			5,697	−1,477	−7,233	**−0,012**	0	0
			6,344	−1,806	4,603	**0,013**	0	0
			5,697	0	0	−0,012	**−8,679**	1,773
			8,778	0	0	0,012	**7,890**	1,773
			11,837	1,806	−3,288	0,010	0	**0**
			3,170	0	0	0,001	0	**2,364**
			2,378	−1,477	0	0,001	0	0
			2,378	−1,477	0	0,001	0	0
78	7	180X100X 5,6						
			−0,678	−1,462	1,694	0,572	0	0
			14,589	−1,787	−3,904	−0,600	0	0
			5,047	**−1,949**	0	−0,010	0	0
			5,047	**1,949**	0	−0,010	0	0
			8,732	−1,462	**−7,157**	−1,264	0	0
			8,732	1,462	**7,157**	−1,264	0	0
			12,593	−1,787	−7,157	**−1,271**	0	0
			7,567	−1,462	6,507	**1,305**	0	0
			8,732	0	0	−1,264	**−8,499**	1,736
			8,598	0	0	1,300	**7,727**	1,736
			12,783	1,787	−5,205	1,032	0	**0**
			5,047	0	0	−0,010	0	**2,315**
			3,785	−1,462	0	−0,008	0	0
			3,785	−1,462	0	−0,008	0	0
79	7	180X100X 5,6						
			−1,482	−0,400	0,890	0,320	0	0
			12,833	−0,489	−1,068	−0,099	0	0
			4,100	**−0,533**	0	−0,002	0	0
			4,100	**0,533**	0	−0,002	0	0
			7,694	−0,400	**−1,959**	−0,208	0	0
			7,694	0,400	**1,959**	−0,208	0	0
			8,413	−0,489	−1,959	**−0,208**	0	0
			3,588	−0,489	1,781	**0,426**	0	0
			7,694	0	0	−0,208	**−0,637**	0,130
			7,537	0	0	−0,058	**0,579**	0,130
			8,798	0,400	−0,890	−0,164	0	**0**
			4,100	0	0	−0,002	0	**0,173**
			3,075	−0,400	0	−0,001	0	0
			3,075	−0,400	0	−0,001	0	0
80	7	180X100X 5,6						
			−2,294	−1,462	3,253	−0,102	0	0
			11,133	−1,787	−3,904	0,113	0	0
			3,151	**−1,949**	0	0,004	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			3,151	**1,949**	0	0,004	0	0
			6,685	−1,462	**−7,157**	0,227	0	0
			6,685	1,462	**7,157**	0,227	0	0
			5,795	−1,462	5,913	**−0,421**	0	0
			9,042	−1,787	−7,157	**0,231**	0	0
			6,685	0	0	0,227	**−8,499**	1,736
			0,478	0	0	−0,221	**7,727**	1,736
			7,329	1,787	−1,694	−0,299	0	**0**
			3,151	0	0	0,004	0	**2,315**
			2,363	−1,462	0	0,003	0	0
			2,363	−1,462	0	0,003	0	0
81	7	180X100X 5,6						
			−3,111	−1,477	3,288	−0,210	0	0
			9,395	−1,806	−3,945	0,279	0	0
			2,159	**−1,970**	0	0,005	0	0
			2,159	**1,970**	0	0,005	0	0
			5,680	−1,477	**−7,233**	0,540	0	0
			5,680	1,477	**7,233**	0,540	0	0
			0,534	−1,477	6,575	**−0,469**	0	0
			7,238	−1,806	−7,233	**0,544**	0	0
			5,680	0	0	0,540	**−8,679**	1,773
			−0,440	0	0	−0,468	**7,890**	1,773
			7,183	1,806	−4,603	−0,403	0	**0**
			2,159	0	0	0,005	0	**2,364**
			1,619	−1,477	0	0,004	0	0
			1,619	−1,477	0	0,004	0	0
82	7	180X100X 5,6						
			−3,934	−1,477	4,592	−0,338	0	0
			7,550	−1,806	−3,945	0,117	0	0
			1,088	**−1,970**	0	0,031	0	0
			1,088	**1,970**	0	0,031	0	0
			−1,346	1,477	**−8,975**	−0,636	0	0
			−1,346	−1,477	**7,879**	−0,636	0	0
			−1,356	−1,477	7,879	**−0,637**	0	0
			5,308	−1,806	−7,233	**0,422**	0	0
			4,622	0	0	0,417	**−8,679**	1,773
			−1,346	0	0,230	−0,636	**10,494**	1,773
			4,700	1,806	−4,603	−0,393	0	**0**
			1,088	0	0	0,031	0	**2,364**
			0,816	−1,477	0	0,023	0	0
			0,816	−1,477	0	0,023	0	0
83	9	SFB HE 200 A - 300x10						
			0	0	−44,110	0	0	0
			0	0	−74,969	0,001	0	0
			0	**0**	−36,089	0,017	0	0
			0	**0**	−36,089	0,016	0	0
			0	0	**−86,999**	0,001	0	0
			0	0	**86,999**	0,001	0	0
			0	0	−36,089	**−0,015**	0	0
			0	0	−82,990	**0,018**	0	0
			0	0	0	0,001	**−104,399**	0
			0	0	82,990	0	**0**	0
			0	0	36,089	0,016	0	**0**
			0	0	36,089	0,017	0	**0**
			0	0	−36,089	0,001	0	0
			0	0	−36,089	0,001	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
84	9	SFB HE 200 A - 300x10						
			0	0	−74,969	0,003	0	0
			0	0	−82,990	0,004	0	0
			0	**0**	−74,969	0,008	0	0
			0	**0**	−36,089	0,006	0	0
			0	0	**−86,999**	0	0	0
			0	0	**86,999**	0	0	0
			0	0	−82,990	**−0,009**	0	0
			0	0	−36,089	**0,008**	0	0
			0	0	0	0	**−104,399**	0
			0	0	82,990	0,003	**0**	0
			0	0	−36,089	0,008	0	**0**
			0	0	74,969	0,008	0	**0**
			0	0	−36,089	0	0	0
			0	0	−36,089	0	0	0
85	7	180X100X 5,6						
			−25,286	−1,393	−4,722	0,156	0	0
			12,861	−1,140	3,005	0,255	0	0
			−5,014	**−1,520**	0	0,312	0	0
			−5,014	**1,588**	0	0,312	0	0
			−1,735	1,191	**−5,519**	0,240	0	0
			−1,735	−1,140	**5,842**	0,240	0	0
			−17,525	−1,140	−2,575	**0,086**	0	0
			5,667	−1,393	0,858	**0,339**	0	0
			−21,233	−0,013	−0,095	0,100	**−5,895**	1,399
			−1,735	−0,013	−0,046	0,240	**7,101**	1,399
			−21,564	−1,393	−2,575	0,142	0	**0**
			−5,014	−0,017	0	0,312	0	**1,865**
			−3,760	−1,140	0	0,234	0	0
			−3,760	−1,140	0	0,234	0	0
86	7	180X100X 5,6						
			−10,002	−1,432	−6,936	0,536	0	0
			20,054	−1,750	4,414	−0,255	0	0
			3,238	**−1,910**	0	−0,002	0	0
			3,238	**1,977**	0	−0,002	0	0
			−10,002	−1,432	**−6,936**	0,536	0	0
			−10,002	1,482	**7,310**	0,536	0	0
			7,348	−1,750	6,306	**−0,660**	0	0
			−7,467	−1,750	−6,936	**0,539**	0	0
			−10,002	−0,013	−0,094	0,536	**−8,459**	1,731
			5,603	−0,013	0,085	−0,659	**7,690**	1,731
			6,052	1,812	−5,317	−0,522	0	**0**
			3,238	−0,017	0	−0,002	0	**2,307**
			2,429	−1,432	0	−0,001	0	0
			2,429	−1,432	0	−0,001	0	0
87	7	180X100X 5,6						
			−9,071	−0,422	−2,124	0,175	0	0
			21,041	−0,516	1,352	−0,097	0	0
			4,049	**−0,563**	0	0	0	0
			4,049	**0,563**	0	0	0	0
			−9,071	−0,422	**−2,124**	0,175	0	0
			−9,071	0,422	**2,124**	0,175	0	0
			−0,833	−0,422	1,931	**−0,278**	0	0
			−5,868	−0,516	−2,124	**0,176**	0	0
			−9,071	0	0	0,175	**−0,693**	0,138
			6,841	0	0	−0,074	**0,630**	0,138
			8,354	0,516	−1,545	−0,034	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			4,049	0	0	0	0	**0,183**
			3,037	−0,422	0	0	0	0
			3,037	−0,422	0	0	0	0
88	7	180X100X 5,6						
			−8,169	−1,482	−7,310	0,641	0	0
			21,961	−1,812	4,652	−0,394	0	0
			4,866	**−1,977**	0	0,004	0	0
			4,866	**1,910**	0	0,004	0	0
			−8,169	−1,482	**−7,310**	0,641	0	0
			−8,169	1,432	**6,936**	0,641	0	0
			−0,713	−1,482	6,646	**−0,637**	0	0
			−4,305	−1,812	−7,310	**0,645**	0	0
			−8,169	0,013	0,094	0,641	**−8,459**	1,731
			2,654	0,013	−0,085	−0,634	**7,690**	1,731
			12,314	1,750	−4,817	−0,333	0	**0**
			4,866	0,017	0	0,004	0	**2,307**
			3,650	−1,482	0	0,003	0	0
			3,650	−1,482	0	0,003	0	0
89	7	180X100X 5,6						
			−7,032	−1,345	−6,249	−0,253	0	0
			23,059	−1,644	3,977	0,154	0	0
			5,918	**−1,793**	0	−0,006	0	0
			5,918	**1,725**	0	−0,006	0	0
			−7,032	−1,345	**−6,249**	−0,253	0	0
			−7,032	1,294	**5,867**	−0,253	0	0
			−5,829	−1,644	−6,249	**−0,254**	0	0
			9,713	−1,345	3,977	**0,204**	0	0
			−7,032	0,013	0,095	−0,253	**−7,270**	1,583
			3,079	0,013	−0,087	0,136	**6,609**	1,583
			15,350	1,581	−3,734	0,202	0	**0**
			5,918	0,017	0	−0,006	0	**2,111**
			4,438	−1,345	0	−0,004	0	0
			4,438	−1,345	0	−0,004	0	0
90	7	180X100X 5,6						
			−5,078	−1,191	−5,104	−0,678	0	0
			24,659	−1,456	3,248	0,020	0	0
			7,689	**−1,588**	0	−0,247	0	0
			7,689	**1,520**	0	−0,247	0	0
			3,491	1,140	**−5,842**	0,688	0	0
			3,491	−1,191	**5,519**	0,688	0	0
			1,176	−1,456	−5,104	**−0,721**	0	0
			11,583	−1,191	5,519	**0,703**	0	0
			−5,078	0,013	0,095	−0,678	**−5,895**	1,399
			3,491	0,013	0,046	0,688	**7,101**	1,399
			5,193	1,393	2,575	−0,302	0	**0**
			7,689	0,017	0	−0,247	0	**1,865**
			5,767	−1,191	0	−0,185	0	0
			5,767	−1,191	0	−0,185	0	0
91	7	180X100X 5,6						
			−14,447	−1,294	−5,867	−0,154	0	0
			15,843	−1,581	3,734	0,157	0	0
			0,084	**−1,725**	0	−0,004	0	0
			0,084	**1,793**	0	−0,004	0	0
			−14,274	−1,294	**−5,867**	−0,150	0	0
			−14,274	1,345	**6,249**	−0,150	0	0
			−14,265	−1,581	−5,867	**−0,154**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			15,757	−1,294	3,734	**0,158**	0	0
			−14,274	−0,013	−0,095	−0,150	**−7,270**	1,583
			2,993	−0,013	0,087	0,027	**6,609**	1,583
			−0,541	1,793	0	−0,006	0	**0**
			0,084	−0,017	0	−0,004	0	**2,111**
			0,063	−1,294	0	−0,003	0	0
			0,063	−1,294	0	−0,003	0	0
92	6	HE 200 A						
			−192,308	0,739	0,721	0	0,817	0
			2,627	−0,210	−2,668	0,049	0	0
			−111,536	**−4,664**	5,264	0	−7,547	−1,161
			−25,948	**4,598**	−3,390	−0,032	−0,170	5,445
			−90,634	−2,081	**−11,717**	0	6,250	−1,314
			−118,665	−4,311	**11,157**	0	−10,628	−0,957
			−28,132	4,046	−7,522	**−0,057**	4,989	4,751
			−37,670	2,943	8,215	**0,050**	−10,140	2,815
			−18,302	2,806	−7,516	−0,057	**−11,571**	−2,818
			−3,965	1,266	4,101	0,037	**8,644**	−1,230
			−45,774	4,198	8,201	0,050	7,957	**−4,989**
			−25,948	4,598	−3,390	−0,032	−0,170	**5,445**
			−63,728	0,111	0,009	0	−0,006	0
			−63,728	0,111	0,009	0	−0,006	0
93	6	HE 200 A						
			−134,832	1,191	1,049	0,001	−1,525	0,963
			16,520	1,649	3,223	−0,014	0	0
			−130,626	**−4,761**	−2,824	0,003	2,647	−2,094
			−4,011	**1,800**	0,761	−0,001	−1,674	3,960
			−25,250	0,321	**−6,862**	0,003	2,662	0,272
			−104,853	0,852	**7,779**	0,003	−5,302	1,162
			14,252	1,743	3,269	**−0,014**	−7,192	3,835
			−6,137	0,297	0,934	**0,006**	−2,054	0,654
			−21,983	−2,578	−2,183	0,005	**−15,150**	2,893
			−104,652	−2,002	5,757	0,001	**19,754**	2,150
			−132,413	1,282	1,779	0,003	2,683	**−2,094**
			−129,975	−4,761	−2,824	0,003	−1,307	**4,571**
			−47,284	0,340	0,599	0	−1,181	0,523
			−47,284	0,340	0,599	0	−1,181	0,523
94	6	HE 200 A						
			−211,323	0,642	0,537	0	−0,024	0
			11,632	−3,924	5,417	−0,010	0	0
			−9,136	**−6,542**	−4,846	0,015	4,652	−6,280
			5,168	**5,260**	−0,550	−0,009	−3,732	5,726
			−95,655	−2,030	**−11,312**	0	7,498	−0,995
			−116,548	−4,218	**9,149**	0	−12,757	−0,837
			0,368	3,261	−3,268	**−0,018**	0,045	3,609
			−11,659	3,597	3,920	**0,016**	−5,425	4,934
			−64,831	−3,363	9,146	0	**−12,769**	−0,692
			−68,076	−1,428	−4,810	0	**10,528**	−0,522
			−12,173	4,919	6,007	0,015	4,921	**−6,280**
			−122,785	−4,846	4,003	0	−3,740	**5,726**
			−73,430	0,106	−0,006	0	−0,017	0
			−73,430	0,106	−0,006	0	−0,017	0
95	18	HE 140 A						
			−30,362	−0,656	1,431	−0,031	−1,739	−0,253
			13,912	−1,979	−1,157	0,019	−1,140	3,164
			−5,130	**−2,678**	3,085	0,026	2,361	4,425

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−25,433	**2,923**	−1,667	−0,031	−1,368	−4,820
			−2,843	−0,013	**−9,349**	0	8,870	−0,067
			7,557	0,050	**10,537**	−0,001	8,915	−0,058
			−27,106	−0,654	1,436	**−0,031**	−1,714	−0,242
			2,431	0,179	−2,212	**0,026**	1,962	−0,232
			5,422	0,050	−0,137	−0,001	**−6,322**	0,089
			7,557	0,050	10,537	−0,001	**8,915**	−0,058
			−25,433	2,923	−1,667	−0,031	−1,368	**−4,820**
			−3,153	−2,677	−0,181	0,026	−0,283	**4,425**
			2,327	0,040	−2,353	−0,001	0,429	0,150
			2,327	0,040	−2,353	−0,001	0,429	0,150
96	6	HE 200 A						
			−28,181	−0,654	−0,004	0	0,012	0
			6,458	−0,333	4,723	0	0	0
			−15,890	**−0,745**	−7,771	0	22,304	−2,139
			−5,021	**0,938**	−0,801	0	−21,534	1,689
			−8,412	−0,704	**−9,918**	0	1,208	0
			−11,267	0,046	**9,094**	0	−1,651	0
			2,241	−0,345	8,634	**0**	−24,781	−0,989
			−15,890	−0,745	−7,771	**0**	22,304	−2,139
			2,241	−0,345	8,634	0	**−24,781**	−0,989
			−13,443	−0,630	−7,772	0	**22,305**	−1,809
			−18,218	0,784	0,806	0	21,718	**−2,139**
			−7,296	−0,704	−9,918	0	−22,594	**1,689**
			−13,975	−0,269	−0,001	0	0,005	0
			−13,975	−0,269	−0,001	0	0,005	0
97	6	HE 200 A						
			−27,303	−0,628	−0,003	0	0,010	0
			6,766	−0,310	4,756	0	0	0
			−7,338	**−0,741**	−3,429	0	9,842	−2,127
			−4,445	**0,917**	−0,731	0	−22,819	1,652
			−7,837	−0,688	**−9,847**	0	0,376	0
			−8,318	−0,121	**9,009**	0	−0,663	0
			−9,457	0,296	−7,856	**0**	22,547	0,849
			2,557	−0,334	8,705	**0**	−24,984	−0,960
			0,652	0,541	−0,730	0	**−25,450**	−0,960
			−7,132	0,630	0,719	0	**22,906**	−0,817
			−9,666	0,785	0,280	0	9,890	**−2,127**
			−6,721	−0,688	−9,847	0	−23,257	**1,652**
			−13,748	−0,269	−0,001	0	0,004	0
			−13,748	−0,269	−0,001	0	0,004	0
98	6	HE 200 A						
			−30,402	−0,437	0,040	0	−0,072	0
			12,813	−1,963	7,924	0	0	0
			−5,689	**−2,998**	−2,605	0	2,501	−2,879
			−6,489	**1,456**	−14,323	0	13,750	1,398
			3,125	−0,866	**−14,326**	0	13,753	−0,831
			3,253	−2,299	**14,514**	0	−13,934	−2,207
			−7,763	−0,285	−14,317	**0**	13,745	−0,274
			4,693	−1,309	14,505	**0**	−13,925	−1,256
			0,989	0,979	3,535	0	**−26,226**	1,519
			−16,413	−0,052	10,992	0	**25,863**	0,124
			−8,726	1,060	−0,610	0	2,641	**−2,879**
			−29,095	−0,724	0,039	0	0,022	**1,738**
			−14,898	−0,293	0,032	0	−0,059	0
			−14,898	−0,293	0,032	0	−0,059	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
99	18	HE 140 A						
			−21,165	−0,567	−1,175	−0,021	0,072	1,131
			15,432	2,001	1,167	−0,021	−1,138	3,209
			−12,494	**−2,949**	1,657	0,033	−1,311	−4,858
			4,666	**2,699**	−3,134	−0,028	2,615	4,473
			−7,068	−0,064	**−10,611**	0	8,991	−0,057
			−0,385	0,013	**9,359**	0	8,972	−0,061
			4,909	2,117	−2,161	**−0,029**	1,744	3,877
			−11,142	−2,947	0,995	**0,033**	−0,753	−4,857
			−9,203	−0,064	0,063	0	**−6,466**	0,132
			−11,316	−0,072	−10,609	0	**8,996**	−0,061
			−9,709	−2,948	1,664	0,033	−1,342	**−4,858**
			4,666	2,699	−3,134	−0,028	2,615	**4,473**
			1,214	0,009	−2,978	0	2,506	0,004
			1,214	0,009	−2,978	0	2,506	0,004
100	18	HE 140 A						
			−9,103	−5,071	1,818	−0,042	−1,416	−4,876
			53,650	−0,556	−0,610	0,026	0,672	−4,100
			30,737	**−9,204**	−6,767	0,036	−2,295	0,161
			−7,351	**10,208**	1,236	−0,042	−0,082	−0,186
			51,444	−6,566	**−11,266**	0,026	−6,691	0,117
			33,478	0	**8,984**	0	6,276	−0,004
			−6,565	−5,071	1,108	**−0,042**	−0,867	−4,875
			16,167	3,869	−2,303	**0,036**	1,781	3,888
			48,367	−6,566	−10,690	0,026	**−6,733**	0,118
			23,222	0	−9,390	0	**7,308**	−0,006
			27,258	−0,110	2,744	0,036	1,212	**−5,962**
			−0,670	0,120	−1,235	−0,042	−0,189	**6,604**
			12,383	0,001	−3,190	0	2,465	0,004
			12,383	0,001	−3,190	0	2,465	0,004
101	18	HE 140 A						
			−11,243	5,076	−1,784	0,033	−1,342	−4,858
			42,503	0,549	0,654	−0,021	0,542	−4,121
			−8,764	**−10,274**	−1,379	0,033	−0,078	−0,188
			15,770	**9,281**	3,100	−0,028	−2,249	0,162
			17,418	−0,001	**−8,919**	0	6,084	−0,003
			41,003	6,599	**11,042**	−0,021	−6,673	0,118
			19,074	8,782	6,175	**−0,029**	−2,280	0,162
			−7,504	−10,274	−0,852	**0,033**	−0,021	−0,188
			39,629	6,599	10,492	−0,021	**−6,717**	0,119
			11,787	−0,001	9,424	0	**7,376**	0,002
			17,134	0,102	0,100	−0,028	0,239	**−6,008**
			−10,108	−0,115	1,326	0,033	−0,434	**6,643**
			6,498	0	2,559	0	0,150	−0,002
			6,498	0	2,559	0	0,150	−0,002
102	7	180X100X 5,6						
			−11,548	−2,722	0,346	0,016	−1,469	−3,852
			6,043	−1,786	−4,603	0,036	0	0
			−11,447	**−3,039**	0,346	0,018	−1,469	−4,197
			−0,698	**5,471**	0,346	0,018	−1,469	−4,197
			2,655	−1,085	**−8,975**	0,039	0	0
			−1,173	0,288	**7,879**	0,039	0	0
			2,568	−0,530	7,233	**−0,034**	0	0
			4,707	−1,636	−8,975	**0,041**	0	0
			1,740	1,117	0,230	0,039	**−10,494**	0,374
			3,550	0,170	0	−0,034	**8,679**	−0,010
			−0,698	5,471	0,346	0,018	−1,469	**−4,197**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			5,683	−0,530	−0,346	0,018	−1,469	**2,114**
			1,465	−0,617	0	0,009	0	0
			1,465	−0,617	0	0,009	0	0
103	7	180X100X 5,6						
			−5,385	−1,462	−1,694	−0,574	0	0
			13,881	−1,787	3,904	0,598	0	0
			4,419	**−1,949**	0	0,008	0	0
			4,419	**1,949**	0	0,008	0	0
			8,433	1,462	**−7,157**	1,263	0	0
			8,433	−1,462	**7,157**	1,263	0	0
			4,015	−1,462	−6,507	**−1,307**	0	0
			11,794	−1,787	7,157	**1,268**	0	0
			5,089	0	0	−1,302	**−7,727**	1,736
			8,433	0	0	1,263	**8,499**	1,736
			6,246	1,787	3,253	−0,635	0	**0**
			4,419	0	0	0,008	0	**2,315**
			3,314	−1,462	0	0,006	0	0
			3,314	−1,462	0	0,006	0	0
104	7	180X100X 5,6						
			−5,202	−0,400	−0,890	−0,320	0	0
			12,259	−0,489	1,068	0,098	0	0
			3,592	**−0,533**	0	0,002	0	0
			3,592	**0,533**	0	0,002	0	0
			7,452	0,400	**−1,959**	0,208	0	0
			7,452	−0,400	**1,959**	0,208	0	0
			0,546	−0,489	−1,781	**−0,426**	0	0
			8,079	−0,489	1,959	**0,208**	0	0
			4,721	0	0	0,058	**−0,579**	0,130
			7,452	0	0	0,208	**0,637**	0,130
			6,426	0,489	1,425	0,100	0	**0**
			3,592	0	0	0,002	0	**0,173**
			2,694	−0,400	0	0,001	0	0
			2,694	−0,400	0	0,001	0	0
105	7	180X100X 5,6						
			−5,046	−1,462	−3,253	0,103	0	0
			10,693	−1,787	3,904	−0,112	0	0
			2,762	**−1,949**	0	−0,004	0	0
			2,762	**1,949**	0	−0,004	0	0
			6,500	1,462	**−7,157**	−0,226	0	0
			6,500	−1,462	**7,157**	−0,226	0	0
			8,547	−1,787	7,157	**−0,230**	0	0
			3,640	−1,462	−5,913	**0,421**	0	0
			−1,746	0	0	0,221	**−7,727**	1,736
			6,500	0	0	−0,226	**8,499**	1,736
			5,371	1,787	3,646	0,371	0	**0**
			2,762	0	0	−0,004	0	**2,315**
			2,072	−1,462	0	−0,003	0	0
			2,072	−1,462	0	−0,003	0	0
106	6	HE 200 A						
			−29,476	−0,472	0,002	0	−0,002	0
			10,276	−0,837	7,821	0	0	0
			−6,188	**−1,264**	−3,086	0	5,925	−2,428
			−4,002	**0,973**	1,153	0	−30,783	1,639
			−5,423	−0,393	**−13,238**	0	0,674	0
			1,067	−0,970	**14,338**	0	−27,530	−1,863
			−7,865	−0,146	−13,041	**0**	25,039	−0,280

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			2,685	−0,881	14,338	**0**	−27,530	−1,691
			−4,401	−0,619	−13,238	0	**−31,097**	1,485
			−16,525	−0,498	12,028	0	**28,319**	1,195
			−9,583	0,893	−0,286	0	5,815	**−2,428**
			−28,249	−0,686	0,002	0	0,002	**1,646**
			−15,284	−0,277	0,001	0	−0,001	0
			−15,284	−0,277	0,001	0	−0,001	0
107	7	180X100X 5,6						
			−4,841	−1,477	−3,288	0,210	0	0
			9,088	−1,806	3,945	−0,279	0	0
			1,887	**−1,970**	0	−0,004	0	0
			1,887	**1,970**	0	−0,004	0	0
			5,550	1,477	**−7,233**	−0,539	0	0
			5,550	−1,477	**7,233**	−0,539	0	0
			6,892	−1,806	7,233	**−0,543**	0	0
			−0,445	−1,477	−6,575	**0,469**	0	0
			−1,931	0	0	0,468	**−7,890**	1,773
			5,550	0	0	−0,539	**8,679**	1,773
			5,054	1,806	4,603	0,403	0	**0**
			1,887	0	0	−0,004	0	**2,364**
			1,415	−1,477	0	−0,003	0	0
			1,415	−1,477	0	−0,003	0	0
108	7	180X100X 5,6						
			−4,614	−1,477	−4,592	0,339	0	0
			7,373	−1,806	3,945	−0,115	0	0
			0,932	**−1,970**	0	−0,029	0	0
			0,932	**1,970**	0	−0,029	0	0
			−2,066	−1,477	**−7,879**	0,636	0	0
			−2,066	1,477	**8,975**	0,636	0	0
			4,707	−1,806	7,233	**−0,420**	0	0
			−2,330	−1,477	−7,879	**0,638**	0	0
			−2,066	0	−0,230	0,636	**−10,494**	1,773
			4,549	0	0	−0,416	**8,679**	1,773
			3,676	1,806	4,603	0,393	0	**0**
			0,932	0	0	−0,029	0	**2,364**
			0,699	−1,477	0	−0,022	0	0
			0,699	−1,477	0	−0,022	0	0
109	2	150X150X10,0						
			−24,712	−3,462	−1,073	0,052	0,815	−4,844
			7,491	−0,630	4,957	0,317	6,739	−4,396
			−0,892	**−4,616**	2,286	0,517	−3,201	−6,462
			−4,160	**5,681**	−2,120	−0,180	0,941	7,298
			3,913	−3,783	**−5,048**	−0,983	7,067	−5,296
			2,594	−0,714	**5,184**	0,349	−4,836	−5,834
			1,572	−3,931	−4,859	**−1,111**	6,803	−5,504
			−2,237	−2,982	4,176	**1,038**	−5,847	−4,175
			−10,551	3,287	−3,467	−0,095	**−6,578**	−2,722
			3,913	−3,783	−5,048	−0,983	**7,067**	−5,296
			0,214	−3,011	3,446	0,366	−3,593	**−8,581**
			−19,558	−2,147	0,934	0,020	0,772	**8,012**
			−13,495	−0,425	−0,484	0,064	0,454	−1,130
			−13,495	−0,425	−0,484	0,064	0,454	−1,130
110	9	SFB HE 200 A - 300x10						
			0	0	−74,969	−0,003	0	0
			0	0	−44,110	−0,003	0	0
			0	**0**	−36,089	−0,004	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	**0**	−82,990	−0,007	0	0
			0	0	**−86,999**	0	0	0
			0	0	**86,999**	0	0	0
			0	0	−36,089	**−0,008**	0	0
			0	0	−82,990	**0,009**	0	0
			0	0	0	0	**−104,399**	0
			0	0	82,990	−0,002	**0**	0
			0	0	−36,089	−0,004	0	**0**
			0	0	36,089	−0,004	0	**0**
			0	0	−36,089	0	0	0
			0	0	−36,089	0	0	0
111	9	SFB HE 200 A - 300x10						
			0	0	−74,969	0,014	0	0
			0	0	−44,110	−0,016	0	0
			0	**0**	−36,089	0	0	0
			0	**0**	−44,110	0	0	0
			0	0	**−86,999**	−0,002	0	0
			0	0	**86,999**	−0,002	0	0
			0	0	−82,990	**−0,018**	0	0
			0	0	−36,089	**0,015**	0	0
			0	0	0	−0,002	**−104,399**	0
			0	0	82,990	0,001	**0**	0
			0	0	44,110	0	0	**0**
			0	0	−44,110	0	0	**0**
			0	0	−36,089	−0,001	0	0
			0	0	−36,089	−0,001	0	0
112	7	180X100X 5,6						
			−8,327	−1,477	−1,315	0,003	0	0
			8,733	−1,806	3,945	0,013	0	0
			2,368	**−1,970**	0	0,003	0	0
			2,368	**1,970**	0	0,003	0	0
			5,284	1,477	**−7,233**	0,013	0	0
			5,284	−1,477	**7,233**	0,013	0	0
			3,040	−1,477	−4,603	**−0,011**	0	0
			7,085	−1,806	7,233	**0,015**	0	0
			2,018	0	0	−0,010	**−7,890**	1,773
			5,284	0	0	0,013	**8,679**	1,773
			−5,159	−1,806	−4,603	0,001	0	**0**
			2,368	0	0	0,003	0	**2,364**
			1,776	−1,477	0	0,002	0	0
			1,776	−1,477	0	0,002	0	0
113	7	180X100X 5,6						
			−25,146	−1,393	4,722	−0,158	0	0
			12,807	−1,140	−3,005	−0,255	0	0
			−4,896	**−1,520**	0	−0,314	0	0
			−4,896	**1,588**	0	−0,314	0	0
			−2,182	−1,140	**−5,842**	−0,242	0	0
			−2,182	1,191	**5,519**	−0,242	0	0
			5,832	−1,393	−0,858	**−0,342**	0	0
			−17,556	−1,140	2,575	**−0,086**	0	0
			−2,182	−0,013	0,046	−0,242	**−7,101**	1,399
			−21,200	−0,013	0,095	−0,100	**5,895**	1,399
			−21,460	−1,393	2,575	−0,144	0	**0**
			−4,896	−0,017	0	−0,314	0	**1,865**
			−3,672	−1,140	0	−0,235	0	0
			−3,672	−1,140	0	−0,235	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
114	7	180X100X 5,6						
			−9,950	−1,432	6,936	−0,535	0	0
			20,323	−1,750	−4,414	0,259	0	0
			3,299	**−1,910**	0	0,006	0	0
			3,299	**1,977**	0	0,006	0	0
			−9,950	1,482	**−7,310**	−0,535	0	0
			−9,950	−1,432	**6,936**	−0,535	0	0
			−9,950	−1,432	6,936	**−0,535**	0	0
			8,082	−1,750	−6,306	**0,662**	0	0
			7,514	−0,013	−0,085	0,661	**−7,690**	1,731
			−9,950	−0,013	0,094	−0,535	**8,459**	1,731
			6,405	1,812	3,323	0,325	0	**0**
			3,299	−0,017	0	0,006	0	**2,307**
			2,474	−1,432	0	0,004	0	0
			2,474	−1,432	0	0,004	0	0
115	7	180X100X 5,6						
			−9,048	−0,422	2,124	−0,175	0	0
			21,205	−0,516	−1,352	0,098	0	0
			4,054	**−0,563**	0	0,001	0	0
			4,054	**0,563**	0	0,001	0	0
			−9,048	0,422	**−2,124**	−0,175	0	0
			−9,048	−0,422	**2,124**	−0,175	0	0
			−5,899	−0,516	2,124	**−0,175**	0	0
			2,408	−0,516	−1,931	**0,278**	0	0
			8,242	0	0	0,075	**−0,630**	0,138
			−9,048	0	0	−0,175	**0,693**	0,138
			7,258	0,422	0,966	−0,026	0	**0**
			4,054	0	0	0,001	0	**0,183**
			3,040	−0,422	0	0,001	0	0
			3,040	−0,422	0	0,001	0	0
116	7	180X100X 5,6						
			−8,173	−1,482	7,310	−0,641	0	0
			22,022	−1,812	−4,652	0,395	0	0
			4,816	**−1,977**	0	−0,004	0	0
			4,816	**1,910**	0	−0,004	0	0
			−8,173	1,432	**−6,936**	−0,641	0	0
			−8,173	−1,482	**7,310**	−0,641	0	0
			−4,407	−1,812	7,310	**−0,644**	0	0
			3,391	−1,482	−6,646	**0,638**	0	0
			3,623	0,013	0,085	0,634	**−7,690**	1,731
			−8,173	0,013	−0,094	−0,641	**8,459**	1,731
			11,985	1,750	3,556	0,209	0	**0**
			4,816	0,017	0	−0,004	0	**2,307**
			3,612	−1,482	0	−0,003	0	0
			3,612	−1,482	0	−0,003	0	0
117	7	180X100X 5,6						
			−7,065	−1,345	6,249	0,254	0	0
			23,000	−1,644	−3,977	−0,153	0	0
			5,810	**−1,793**	0	0,006	0	0
			5,810	**1,725**	0	0,006	0	0
			−7,065	1,294	**−5,867**	0,254	0	0
			−7,065	−1,345	**6,249**	0,254	0	0
			9,983	−1,345	−3,977	**−0,204**	0	0
			−5,894	−1,644	6,249	**0,254**	0	0
			3,395	0,013	0,087	−0,135	**−6,609**	1,583
			−7,065	0,013	−0,095	0,254	**7,270**	1,583
			8,737	1,725	0	0,006	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			5,810	0,017	0	0,006	0	**2,111**
			4,358	−1,345	0	0,005	0	0
			4,358	−1,345	0	0,005	0	0
118	7	180X100X 5,6						
			−5,390	−1,191	−3,199	−0,264	0	0
			24,427	−1,456	−3,248	−0,020	0	0
			7,517	**−1,588**	0	0,247	0	0
			7,517	**1,520**	0	0,247	0	0
			2,752	−1,191	**−5,519**	−0,688	0	0
			2,752	1,140	**5,842**	−0,688	0	0
			11,093	−1,191	−5,519	**−0,703**	0	0
			0,916	−1,456	5,104	**0,721**	0	0
			2,752	0,013	−0,046	−0,688	**−7,101**	1,399
			−5,147	0,013	−0,095	0,678	**5,895**	1,399
			5,004	1,393	−2,575	0,301	0	**0**
			7,517	0,017	0	0,247	0	**1,865**
			5,638	−1,191	0	0,185	0	0
			5,638	−1,191	0	0,185	0	0
119	7	180X100X 5,6						
			−14,366	−1,294	5,867	0,151	0	0
			15,988	−1,581	−3,734	−0,158	0	0
			0,178	**−1,725**	0	0,002	0	0
			0,178	**1,793**	0	0,002	0	0
			−14,224	1,345	**−6,249**	0,149	0	0
			−14,224	−1,294	**5,867**	0,149	0	0
			15,886	−1,294	−3,734	**−0,158**	0	0
			−14,171	−1,581	5,867	**0,152**	0	0
			3,926	−0,013	−0,087	−0,028	**−6,609**	1,583
			−14,224	−0,013	0,095	0,149	**7,270**	1,583
			3,846	1,644	5,681	−0,028	0	**0**
			0,178	−0,017	0	0,002	0	**2,111**
			0,134	−1,294	0	0,001	0	0
			0,134	−1,294	0	0,001	0	0
120	17	HE 120 A						
			−31,711	0,007	−0,071	−0,005	0	0
			8,745	−0,010	−0,092	0,014	0	0
			8,594	**−0,010**	−0,093	0,005	0	0
			−31,041	**0,010**	−0,067	−0,012	0	0
			−3,703	0	**−0,358**	−0,001	0,136	0
			−3,502	0	**0,359**	−0,001	0,139	0,001
			−31,041	0,010	−0,067	**−0,012**	0	0
			1,310	0	−0,080	**0,016**	0	0
			3,129	−0,007	−0,002	−0,001	**−0,139**	−0,012
			−15,031	0,007	0,339	0,001	**0,156**	0,008
			5,043	−0,010	−0,327	−0,002	0,106	**−0,034**
			−17,927	0,010	−0,259	0,002	0,101	**0,040**
			0,570	0	−0,066	0,005	0	0
			0,570	0	−0,066	0,005	0	0
121	22	260X140X 8,0						
			−42,184	−0,767	0,004	−0,045	−0,011	−0,399
			27,441	−0,930	−0,004	−0,243	0,013	−0,466
			2,389	**−1,022**	0	−0,383	−0,001	−0,533
			1,601	**1,022**	0	−0,388	0,001	−0,533
			25,845	−0,505	**−0,005**	−0,054	0	0
			−25,218	−0,604	**0,004**	−0,229	0	0
			1,176	−0,615	0,001	**−0,774**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			20,991	−0,505	−0,004	**0,025**	0	0
			25,845	0,762	−0,005	−0,054	**−0,014**	−0,384
			25,544	−0,762	−0,005	−0,073	**0,014**	−0,384
			1,601	1,022	0	−0,388	0,001	**−0,533**
			1,879	0,008	0	−0,480	0	**0,396**
			1,201	−0,500	0	−0,291	0	0
			1,201	−0,500	0	−0,291	0	0
122	11	80X 80X 5,0_1						
			−13,218	0	−0,096	0,017	0	0
			8,896	0	0,078	0,033	0	0
			−3,628	**0**	−0,096	−0,046	0	0
			7,651	**0**	−0,096	0,048	0	0
			−3,681	0	**−0,104**	−0,006	0	0
			−3,486	0	**0,104**	−0,006	0	0
			−3,628	0	−0,096	**−0,046**	0	0
			8,401	0	−0,078	**0,049**	0	0
			−3,584	0	0	−0,006	**−0,054**	0
			−12,479	0	−0,078	0,001	**0**	0
			−3,628	0	−0,096	−0,046	0	**0**
			7,651	0	−0,096	0,048	0	**0**
			−2,761	0	−0,078	−0,004	0	0
			−2,761	0	−0,078	−0,004	0	0
123	11	80X 80X 5,0_1						
			−9,875	0	0,078	0,024	0	0
			11,962	0	−0,096	0,013	0	0
			2,432	**0**	−0,078	0,014	0	0
			2,422	**0**	−0,096	−0,024	0	0
			2,344	0	**−0,104**	0,005	0	0
			2,149	0	**0,104**	0,005	0	0
			1,141	0	−0,078	**−0,033**	0	0
			−8,079	0	−0,096	**0,032**	0	0
			2,246	0	0	0,005	**−0,054**	0
			2,326	0	0,096	−0,020	**0**	0
			2,243	0	0,096	−0,024	0	**0**
			−8,757	0	0,078	0,031	0	**0**
			1,758	0	−0,078	0,004	0	0
			1,758	0	−0,078	0,004	0	0
124	11	80X 80X 5,0_1						
			−9,061	0	−0,078	0,001	0	0
			12,497	0	0,096	0	0	0
			1,406	**0**	−0,078	−0,007	0	0
			0,872	**0**	−0,096	0,001	0	0
			1,072	0	**−0,104**	−0,002	0	0
			1,267	0	**0,104**	−0,002	0	0
			0,687	0	−0,096	**−0,009**	0	0
			11,188	0	−0,078	**0,002**	0	0
			1,169	0	0	−0,002	**−0,054**	0
			0,472	0	−0,096	0,001	**0**	0
			11,533	0	0,096	0,001	0	**0**
			0,245	0	−0,078	−0,004	0	**0**
			0,804	0	−0,078	−0,002	0	0
			0,804	0	−0,078	−0,002	0	0
125	11	80X 80X 5,0_1						
			−13,772	0	0,096	0,002	0	0
			8,110	0	−0,078	0,002	0	0
			−1,230	**0**	−0,096	0,002	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−1,888	**0**	−0,096	−0,008	0	0
			−2,415	0	**−0,104**	0,001	0	0
			−2,610	0	**0,104**	0,001	0	0
			−2,401	0	−0,078	**−0,009**	0	0
			−1,135	0	−0,096	**0,005**	0	0
			−2,512	0	0	0,001	**−0,054**	0
			−12,686	0	0,078	0,003	**0**	0
			−1,230	0	−0,096	0,002	0	**0**
			−1,677	0	0,096	0,002	0	**0**
			−1,811	0	−0,078	0,001	0	0
			−1,811	0	−0,078	0,001	0	0
126	17	HE 120 A						
			−19,167	0,001	−0,073	0	0	0
			30,695	−0,006	−0,066	0,002	0	0
			10,758	**−0,008**	−0,078	0,003	0	0
			−18,141	**0,002**	−0,077	−0,002	0	0
			1,816	−0,005	**−0,359**	0	0,146	−0,006
			0,629	−0,003	**0,357**	0	0,143	0,005
			4,118	−0,005	−0,256	**−0,005**	0,138	−0,007
			7,788	−0,005	−0,070	**0,007**	0	0
			5,160	−0,004	−0,001	0	**−0,125**	−0,003
			29,097	−0,006	0,266	0,003	**0,152**	0,010
			5,886	−0,008	−0,329	0	0,130	**−0,015**
			10,758	−0,008	0,251	0,003	0,130	**0,011**
			3,728	−0,002	−0,062	0,002	0	0
			3,728	−0,002	−0,062	0,002	0	0
127	22	260X140X 8,0						
			−19,762	−0,770	0,001	0,058	−0,002	−0,409
			18,183	−0,964	−0,003	0,553	0,008	−0,567
			3,343	**−1,036**	−0,002	0,434	0,006	−0,575
			2,020	**1,036**	−0,002	0,429	−0,006	−0,575
			9,917	−0,597	**−0,004**	0,381	0	0
			−3,448	−0,497	**0,001**	0,063	0	0
			8,533	−0,774	−0,002	**0,041**	0,005	−0,422
			18,183	−0,964	−0,003	**0,553**	0,008	−0,567
			9,917	0,952	−0,004	0,381	**−0,011**	−0,533
			11,567	−0,952	−0,004	0,379	**0,011**	−0,533
			2,020	1,036	−0,002	0,429	−0,006	**−0,575**
			1,443	0,020	−0,001	0,273	−0,002	**0,381**
			1,083	−0,492	−0,001	0,205	0	0
			1,083	−0,492	−0,001	0,205	0	0
128	11	80X 80X 5,0_1						
			−15,295	0	−0,096	−0,013	0	0
			7,511	0	0,078	0,006	0	0
			−4,274	**0**	−0,096	−0,018	0	0
			−3,711	**0**	−0,096	−0,011	0	0
			−3,741	0	**−0,104**	−0,008	0	0
			−3,546	0	**0,104**	−0,008	0	0
			−4,039	0	−0,096	**−0,022**	0	0
			7,330	0	−0,078	**0,010**	0	0
			−3,644	0	0	−0,008	**−0,054**	0
			−15,295	0	−0,096	−0,013	**0**	0
			−3,732	0	0,096	−0,014	0	**0**
			−3,711	0	−0,096	−0,011	0	**0**
			−2,806	0	−0,078	−0,006	0	0
			−2,806	0	−0,078	−0,006	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
129	11	80X 80X 5,0_1						
			−8,490	0	0,078	0,006	0	0
			14,027	0	−0,096	−0,011	0	0
			2,327	**0**	−0,096	−0,002	0	0
			−8,254	**0**	−0,078	0,004	0	0
			2,393	0	**−0,104**	−0,003	0	0
			2,198	0	**0,104**	−0,003	0	0
			2,805	0	−0,096	**−0,017**	0	0
			−8,302	0	−0,078	**0,007**	0	0
			2,296	0	0	−0,003	**−0,054**	0
			1,984	0	0,078	−0,011	**0**	0
			2,327	0	−0,096	−0,002	0	**0**
			2,148	0	0,096	−0,002	0	**0**
			1,795	0	−0,078	−0,003	0	0
			1,795	0	−0,078	−0,003	0	0
130	11	80X 80X 5,0_1						
			−10,984	0	−0,078	−0,011	0	0
			11,374	0	0,096	−0,003	0	0
			0,271	**0**	−0,078	−0,008	0	0
			0,851	**0**	−0,096	−0,011	0	0
			1,057	0	**−0,104**	−0,008	0	0
			1,252	0	**0,104**	−0,008	0	0
			0,345	0	−0,096	**−0,016**	0	0
			10,873	0	−0,078	**0**	0	0
			1,154	0	0	−0,008	**−0,054**	0
			0,386	0	−0,078	−0,009	**0**	0
			1,030	0	0,096	−0,011	0	**0**
			0,851	0	−0,096	−0,011	0	**0**
			0,792	0	−0,078	−0,006	0	0
			0,792	0	−0,078	−0,006	0	0
131	11	80X 80X 5,0_1						
			−12,641	0	0,096	−0,001	0	0
			10,017	0	−0,078	−0,013	0	0
			−1,583	**0**	−0,096	−0,009	0	0
			−1,543	**0**	−0,078	−0,007	0	0
			−2,401	0	**−0,104**	−0,005	0	0
			−2,596	0	**0,104**	−0,005	0	0
			−1,354	0	−0,096	**−0,014**	0	0
			−11,957	0	−0,078	**0**	0	0
			−2,498	0	0	−0,005	**−0,054**	0
			−12,616	0	0,096	−0,001	**0**	0
			−2,090	0	−0,096	−0,004	0	**0**
			−1,762	0	0,096	−0,009	0	**0**
			−1,801	0	−0,078	−0,004	0	0
			−1,801	0	−0,078	−0,004	0	0
132	17	HE 120 A						
			−16,612	0	−0,072	0,001	0	0
			18,758	0,002	−0,075	0	0	0
			3,576	**−0,001**	−0,062	0,002	0	0
			4,029	**0,002**	−0,081	0,003	0	0
			−1,219	0,002	**−0,358**	0	0,141	0,005
			−1,309	0,001	**0,358**	0	0,141	0
			2,286	0,002	−0,254	**−0,006**	0,135	0,003
			2,759	0,002	−0,074	**0,006**	0	0
			−1,219	0,002	0	0	**−0,128**	0,003
			−5,606	0,001	0,338	0	**0,148**	0,003
			4,029	0,002	0,247	0,003	0,125	**−0,003**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−4,341	0,001	−0,318	0	0,110	**0,007**
			1,728	0,001	−0,064	0,002	0	0
			1,728	0,001	−0,064	0,002	0	0
133	22	260X140X 8,0						
			−16,501	−0,772	0	0,037	0	−0,416
			14,159	−0,943	0,001	0,028	−0,002	−0,507
			1,691	**−1,029**	0	0,017	−0,001	−0,553
			1,572	**1,029**	0	0,012	0,001	−0,553
			5,697	−0,495	**0**	0,003	0	0
			6,194	−0,606	**0,001**	0,017	0	0
			5,697	−0,495	0	**0,003**	0	0
			−15,650	−0,943	0	**0,051**	−0,001	−0,507
			6,398	−0,943	0,001	0,025	**−0,003**	−0,505
			6,194	0,943	0,001	0,017	**0,003**	−0,505
			1,572	1,029	0	0,012	0,001	**−0,553**
			2,020	0,015	0,001	0,017	0,001	**0,388**
			1,179	−0,495	0	0,009	0	0
			1,179	−0,495	0	0,009	0	0
134	11	80X 80X 5,0_1						
			−12,717	0	−0,096	0,005	0	0
			7,262	0	0,078	0,003	0	0
			−2,434	**0**	−0,078	0	0	0
			−2,521	**0**	−0,078	0,002	0	0
			−3,240	0	**−0,104**	0,002	0	0
			−3,045	0	**0,104**	0,002	0	0
			−2,352	0	−0,078	**−0,004**	0	0
			6,566	0	−0,096	**0,007**	0	0
			−3,143	0	0	0,002	**−0,054**	0
			−12,717	0	−0,096	0,005	**0**	0
			−2,375	0	0,078	0,002	0	**0**
			−2,521	0	−0,078	0,002	0	**0**
			−2,430	0	−0,078	0,001	0	0
			−2,430	0	−0,078	0,001	0	0
135	11	80X 80X 5,0_1						
			−8,244	0	0,078	0,004	0	0
			11,465	0	−0,096	0,006	0	0
			1,755	**0**	−0,096	0,008	0	0
			1,531	**0**	−0,078	0,002	0	0
			1,896	0	**−0,104**	0,005	0	0
			1,701	0	**0,104**	0,005	0	0
			1,436	0	−0,078	**−0,002**	0	0
			1,824	0	−0,096	**0,010**	0	0
			1,798	0	0	0,005	**−0,054**	0
			1,244	0	0,078	−0,001	**0**	0
			1,755	0	−0,096	0,008	0	**0**
			1,576	0	0,096	0,008	0	**0**
			1,422	0	−0,078	0,004	0	0
			1,422	0	−0,078	0,004	0	0
136	11	80X 80X 5,0_1						
			−8,565	0	−0,078	0,001	0	0
			11,123	0	0,096	−0,003	0	0
			1,045	**0**	−0,078	0	0	0
			1,421	**0**	−0,096	−0,003	0	0
			1,539	0	**−0,104**	−0,001	0	0
			1,734	0	**0,104**	−0,001	0	0
			10,945	0	−0,096	**−0,003**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−8,565	0	−0,078	**0,001**	0	0
			1,636	0	0	−0,001	**−0,054**	0
			1,359	0	−0,096	−0,001	**0**	0
			1,599	0	0,096	−0,003	0	**0**
			1,421	0	−0,096	−0,003	0	**0**
			1,154	0	−0,078	−0,001	0	0
			1,154	0	−0,078	−0,001	0	0
137	11	80X 80X 5,0_1						
			−12,388	0	0,096	−0,001	0	0
			7,598	0	−0,078	0,002	0	0
			−2,080	**0**	−0,078	0,006	0	0
			−2,161	**0**	−0,078	−0,001	0	0
			−2,883	0	**−0,104**	0,003	0	0
			−3,078	0	**0,104**	0,003	0	0
			−11,695	0	−0,078	**−0,002**	0	0
			−2,559	0	−0,096	**0,006**	0	0
			−2,980	0	0	0,003	**−0,054**	0
			−12,349	0	0,096	−0,001	**0**	0
			−2,080	0	−0,078	0,006	0	**0**
			−2,226	0	0,078	0,006	0	**0**
			−2,162	0	−0,078	0,002	0	0
			−2,162	0	−0,078	0,002	0	0
138	17	HE 120 A						
			−12,419	0	−0,075	0,002	0	0
			18,939	0,001	−0,074	0	0	0
			−12,419	**0**	−0,075	0,002	0	0
			18,939	**0,001**	−0,074	0	0	0
			0,401	0	**−0,358**	0	0,141	0,001
			−0,258	0	**0,358**	0	0,141	0
			4,228	0	−0,254	**−0,006**	0,134	0,001
			4,711	0	−0,074	**0,006**	0	0
			0,401	0	0	0	**−0,128**	0,001
			−1,271	0	0,338	0	**0,143**	−0,001
			−1,232	0	−0,259	0	0,089	**−0,002**
			2,524	0,001	−0,328	0	0,120	**0,002**
			2,528	0	−0,064	0,002	0	0
			2,528	0	−0,064	0,002	0	0
139	22	260X140X 8,0						
			−6,563	−0,772	0	0,032	0,001	−0,416
			13,678	−0,945	0	0,007	−0,001	−0,512
			4,430	**−1,031**	0	0,007	−0,001	−0,557
			4,230	**1,031**	0	0,002	0,001	−0,557
			−6,563	−0,772	**0**	0,032	0,001	−0,416
			−0,416	−0,604	**0**	0,006	0	0
			3,934	−0,604	0	**−0,002**	0	0
			−4,685	−0,944	0	**0,038**	0	−0,509
			13,678	−0,945	0	0,007	**−0,001**	−0,512
			−0,416	0,945	0	0,006	**0,001**	−0,512
			4,230	1,031	0	0,002	0,001	**−0,557**
			2,986	0,016	0	0,003	0	**0,386**
			2,240	−0,494	0	0,002	0	0
			2,240	−0,494	0	0,002	0	0
140	11	80X 80X 5,0_1						
			−12,558	0	−0,096	0,001	0	0
			7,238	0	0,078	−0,002	0	0
			−2,428	**0**	−0,078	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−3,029	**0**	−0,096	−0,002	0	0
			−3,252	0	**−0,104**	−0,001	0	0
			−3,057	0	**0,104**	−0,001	0	0
			6,551	0	−0,096	**−0,003**	0	0
			−12,008	0	−0,078	**0,002**	0	0
			−3,154	0	0	−0,001	**−0,054**	0
			−12,484	0	−0,096	0,001	**0**	0
			−2,850	0	0,096	−0,002	0	**0**
			−3,029	0	−0,096	−0,002	0	**0**
			−2,439	0	−0,078	−0,001	0	0
			−2,439	0	−0,078	−0,001	0	0
141	11	80X 80X 5,0_1						
			−8,213	0	0,078	−0,001	0	0
			11,306	0	−0,096	0,002	0	0
			1,772	**0**	−0,096	0,005	0	0
			1,427	**0**	−0,078	0	0	0
			1,908	0	**−0,104**	0,003	0	0
			1,713	0	**0,104**	0,003	0	0
			−8,062	0	−0,078	**−0,002**	0	0
			1,831	0	−0,096	**0,006**	0	0
			1,810	0	0	0,003	**−0,054**	0
			11,124	0	0,096	0,002	**0**	0
			1,772	0	−0,096	0,005	0	**0**
			1,593	0	0,096	0,005	0	**0**
			1,431	0	−0,078	0,002	0	0
			1,431	0	−0,078	0,002	0	0
142	11	80X 80X 5,0_1						
			−8,401	0	−0,078	0,001	0	0
			11,082	0	0,096	0	0	0
			1,147	**0**	−0,078	0	0	0
			1,358	**0**	−0,096	−0,004	0	0
			1,531	0	**−0,104**	−0,002	0	0
			1,726	0	**0,104**	−0,002	0	0
			1,323	0	−0,096	**−0,004**	0	0
			−8,333	0	−0,078	**0,002**	0	0
			1,628	0	0	−0,002	**−0,054**	0
			1,565	0	0,096	−0,004	**0**	0
			1,537	0	0,096	−0,004	0	**0**
			1,358	0	−0,096	−0,004	0	**0**
			1,148	0	−0,078	−0,001	0	0
			1,148	0	−0,078	−0,001	0	0
143	11	80X 80X 5,0_1						
			−12,340	0	0,096	0,001	0	0
			7,430	0	−0,078	0,001	0	0
			−2,559	**0**	−0,096	0,005	0	0
			−2,145	**0**	−0,078	0	0	0
			−2,874	0	**−0,104**	0,002	0	0
			−3,069	0	**0,104**	0,002	0	0
			−2,179	0	−0,078	**−0,001**	0	0
			−2,559	0	−0,096	**0,005**	0	0
			−2,972	0	0	0,002	**−0,054**	0
			−11,779	0	0,078	0	**0**	0
			−2,559	0	−0,096	0,005	0	**0**
			−2,738	0	0,096	0,005	0	**0**
			−2,156	0	−0,078	0,002	0	0
			−2,156	0	−0,078	0,002	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
144	17	HE 120 A						
			−12,435	0	−0,194	−0,002	0,089	0,001
			18,894	−0,001	−0,254	0	0,135	−0,001
			−9,244	**−0,001**	−0,094	0,001	0	0
			15,208	**0**	−0,055	0,001	0	0
			−0,259	0	**−0,358**	0	0,141	0
			0,400	0	**0,358**	0	0,141	0,001
			4,640	0	−0,254	**−0,006**	0,135	−0,001
			4,296	0	−0,075	**0,006**	0	0
			0,400	0	0	0	**−0,128**	0,001
			15,746	0	0,259	0,002	**0,143**	−0,001
			−1,233	0	0,259	0	0,089	**−0,002**
			2,529	−0,001	0,328	0	0,120	**0,002**
			2,365	0	−0,064	0,002	0	0
			2,365	0	−0,064	0,002	0	0
145	22	260X140X 8,0						
			−6,573	−0,495	0	−0,029	0	0
			13,657	−0,604	0	0,002	0	0
			4,253	**−1,031**	0	0,007	0,001	−0,557
			4,403	**1,031**	0	0,002	−0,001	−0,557
			−0,390	−0,945	**0**	0,003	0,001	−0,512
			−6,573	−0,495	**0**	−0,029	0	0
			10,180	−0,772	0	**−0,032**	−0,001	−0,416
			5,791	−0,945	0	**0,010**	0,001	−0,511
			13,657	0,945	0	0,002	**−0,001**	−0,512
			−0,390	−0,945	0	0,003	**0,001**	−0,512
			4,403	1,031	0	0,002	−0,001	**−0,557**
			3,092	0,016	0	0,003	0	**0,386**
			2,319	−0,494	0	0,002	0	0
			2,319	−0,494	0	0,002	0	0
146	11	80X 80X 5,0_1						
			−12,359	0	−0,096	−0,001	0	0
			7,410	0	0,078	−0,001	0	0
			−2,326	**0**	−0,078	0,001	0	0
			−2,785	**0**	−0,096	−0,005	0	0
			−3,103	0	**−0,104**	−0,002	0	0
			−2,908	0	**0,104**	−0,002	0	0
			−2,785	0	−0,096	**−0,005**	0	0
			−2,326	0	−0,078	**0,001**	0	0
			−3,006	0	0	−0,002	**−0,054**	0
			−12,337	0	−0,096	−0,002	**0**	0
			−2,606	0	0,096	−0,005	0	**0**
			−2,785	0	−0,096	−0,005	0	**0**
			−2,328	0	−0,078	−0,002	0	0
			−2,328	0	−0,078	−0,002	0	0
147	11	80X 80X 5,0_1						
			−8,380	0	0,078	−0,001	0	0
			11,099	0	−0,096	0,001	0	0
			1,554	**0**	−0,096	0,004	0	0
			1,327	**0**	−0,078	−0,001	0	0
			1,760	0	**−0,104**	0,002	0	0
			1,565	0	**0,104**	0,002	0	0
			−8,185	0	−0,078	**−0,002**	0	0
			1,548	0	−0,096	**0,004**	0	0
			1,662	0	0	0,002	**−0,054**	0
			10,900	0	0,096	0,001	**0**	0
			1,554	0	−0,096	0,004	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			1,375	0	0,096	0,004	0	**0**
			1,320	0	−0,078	0,001	0	0
			1,320	0	−0,078	0,001	0	0
148	11	80X 80X 5,0_1						
			−8,223	0	−0,078	0,001	0	0
			11,274	0	0,096	−0,002	0	0
			1,251	**0**	−0,078	0,001	0	0
			1,565	**0**	−0,096	−0,005	0	0
			1,679	0	**−0,104**	−0,003	0	0
			1,874	0	**0,104**	−0,003	0	0
			1,605	0	−0,096	**−0,006**	0	0
			−8,210	0	−0,078	**0,002**	0	0
			1,776	0	0	−0,003	**−0,054**	0
			11,049	0	−0,096	−0,001	**0**	0
			1,744	0	0,096	−0,005	0	**0**
			1,565	0	−0,096	−0,005	0	**0**
			1,259	0	−0,078	−0,002	0	0
			1,259	0	−0,078	−0,002	0	0
149	11	80X 80X 5,0_1						
			−12,526	0	0,096	−0,002	0	0
			7,246	0	−0,078	0,003	0	0
			−2,842	**0**	−0,096	0,002	0	0
			−2,250	**0**	−0,078	−0,001	0	0
			−3,023	0	**−0,104**	0,001	0	0
			−3,218	0	**0,104**	0,001	0	0
			−11,842	0	−0,078	**−0,002**	0	0
			6,748	0	−0,096	**0,003**	0	0
			−3,120	0	0	0,001	**−0,054**	0
			−12,519	0	0,096	−0,001	**0**	0
			−2,842	0	−0,096	0,002	0	**0**
			−3,021	0	0,096	0,002	0	**0**
			−2,267	0	−0,078	0,001	0	0
			−2,267	0	−0,078	0,001	0	0
150	17	HE 120 A						
			−16,625	0	−0,197	−0,001	0,094	0
			18,724	−0,002	−0,254	0	0,134	−0,002
			3,618	**−0,002**	−0,081	0,004	0	0
			3,651	**0,001**	−0,061	0,002	0	0
			−1,304	−0,001	**−0,358**	0	0,141	0
			−1,213	−0,002	**0,358**	0	0,141	0,005
			2,703	−0,002	−0,254	**−0,006**	0,135	−0,003
			2,357	−0,002	−0,074	**0,006**	0	0
			−1,213	−0,002	0	0	**−0,128**	0,003
			11,478	−0,001	0,263	0,002	**0,148**	0,001
			4,066	−0,002	−0,247	−0,003	0,125	**−0,003**
			−4,337	−0,001	0,318	0	0,110	**0,007**
			1,588	−0,001	−0,064	0,002	0	0
			1,588	−0,001	−0,064	0,002	0	0
151	22	260X140X 8,0						
			−16,511	−0,495	0	−0,034	0	0
			14,139	−0,605	−0,001	−0,020	0	0
			1,590	**−1,029**	0	−0,003	0,001	−0,553
			1,662	**1,029**	0	−0,008	−0,001	−0,553
			6,430	−0,606	**−0,001**	−0,021	0	0
			5,703	−0,495	**0**	0	0	0
			−15,694	−0,605	0	**−0,039**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			5,723	−0,772	0	**0,002**	−0,001	−0,415
			6,430	0,943	−0,001	−0,021	**−0,003**	−0,505
			6,206	−0,943	−0,001	−0,014	**0,003**	−0,505
			1,662	1,029	0	−0,008	−0,001	**−0,553**
			2,187	0,015	−0,001	−0,015	−0,001	**0,388**
			1,247	−0,495	0	−0,006	0	0
			1,247	−0,495	0	−0,006	0	0
152	11	80X 80X 5,0_1						
			−12,405	0	−0,096	0,001	0	0
			7,581	0	0,078	−0,002	0	0
			−2,282	**0**	−0,078	0,002	0	0
			−2,782	**0**	−0,096	−0,006	0	0
			−3,109	0	**−0,104**	−0,003	0	0
			−2,914	0	**0,104**	−0,003	0	0
			−2,782	0	−0,096	**−0,006**	0	0
			−11,843	0	−0,078	**0,002**	0	0
			−3,012	0	0	−0,003	**−0,054**	0
			−12,383	0	−0,096	0,001	**0**	0
			−2,603	0	0,096	−0,006	0	**0**
			−2,782	0	−0,096	−0,006	0	**0**
			−2,332	0	−0,078	−0,002	0	0
			−2,332	0	−0,078	−0,002	0	0
153	11	80X 80X 5,0_1						
			−8,548	0	0,078	−0,001	0	0
			11,140	0	−0,096	0,003	0	0
			1,545	**0**	−0,096	0,003	0	0
			1,284	**0**	−0,078	0	0	0
			1,766	0	**−0,104**	0,001	0	0
			1,571	0	**0,104**	0,001	0	0
			−8,402	0	−0,078	**−0,001**	0	0
			11,140	0	−0,096	**0,003**	0	0
			1,668	0	0	0,001	**−0,054**	0
			1,302	0	−0,078	0,001	**0**	0
			1,545	0	−0,096	0,003	0	**0**
			1,366	0	0,096	0,003	0	**0**
			1,324	0	−0,078	0,001	0	0
			1,324	0	−0,078	0,001	0	0
154	11	80X 80X 5,0_1						
			−8,253	0	−0,078	−0,004	0	0
			11,437	0	0,096	−0,006	0	0
			1,274	**0**	−0,078	0,002	0	0
			1,602	**0**	−0,096	−0,010	0	0
			1,669	0	**−0,104**	−0,005	0	0
			1,864	0	**0,104**	−0,005	0	0
			1,602	0	−0,096	**−0,010**	0	0
			1,293	0	−0,078	**0,002**	0	0
			1,767	0	0	−0,005	**−0,054**	0
			1,574	0	−0,096	−0,007	**0**	0
			1,781	0	0,096	−0,010	0	**0**
			1,602	0	−0,096	−0,010	0	**0**
			1,252	0	−0,078	−0,004	0	0
			1,252	0	−0,078	−0,004	0	0
155	11	80X 80X 5,0_1						
			−12,688	0	0,096	−0,005	0	0
			7,272	0	−0,078	−0,003	0	0
			−2,798	**0**	−0,096	−0,002	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			−2,383	**0**	−0,078	−0,002	0	0
			−3,014	0	**−0,104**	−0,002	0	0
			−3,209	0	**0,104**	−0,002	0	0
			6,773	0	−0,096	**−0,007**	0	0
			−2,213	0	−0,078	**0,004**	0	0
			−3,111	0	0	−0,002	**−0,054**	0
			−12,688	0	0,096	−0,005	**0**	0
			−2,798	0	−0,096	−0,002	0	**0**
			−3,019	0	0,096	−0,003	0	**0**
			−2,260	0	−0,078	−0,001	0	0
			−2,260	0	−0,078	−0,001	0	0
156	17	HE 120 A						
			−19,194	−0,001	−0,196	0	0,092	−0,002
			30,603	0,006	−0,262	−0,002	0,147	0,008
			10,161	**−0,002**	−0,055	−0,001	0	0
			7,488	**0,008**	−0,080	0,001	0	0
			0,578	0,003	**−0,357**	0	0,143	0,005
			1,769	0,005	**0,359**	0	0,146	−0,006
			7,637	0,005	−0,258	**−0,007**	0,141	0,008
			4,424	0,005	−0,072	**0,005**	0	0
			5,211	0,004	0,001	0	**−0,125**	−0,003
			8,040	0,006	0,341	0	**0,152**	−0,010
			5,909	0,008	0,329	0	0,130	**−0,015**
			10,770	0,008	−0,250	−0,003	0,130	**0,011**
			2,481	0,002	−0,063	0,002	0	0
			2,481	0,002	−0,063	0,002	0	0
157	22	260X140X 8,0						
			−19,784	−0,497	−0,001	−0,055	0	0
			18,133	−0,585	0,003	−0,544	0	0
			2,016	**−1,036**	0,002	−0,419	−0,006	−0,575
			3,279	**1,036**	0,002	−0,423	0,006	−0,575
			−17,567	−0,497	**−0,001**	−0,067	0	0
			11,666	−0,597	**0,004**	−0,379	0	0
			18,133	−0,585	0,003	**−0,544**	0	0
			8,778	−0,493	0,002	**−0,045**	0	0
			10,027	−0,952	0,004	−0,381	**−0,011**	−0,533
			11,666	0,952	0,004	−0,379	**0,011**	−0,533
			3,279	1,036	0,002	−0,423	0,006	**−0,575**
			2,202	0,020	0,001	−0,266	0,002	**0,381**
			1,651	−0,492	0,001	−0,200	0	0
			1,651	−0,492	0,001	−0,200	0	0
158	11	80X 80X 5,0_1						
			−12,660	0	−0,096	0,001	0	0
			9,995	0	0,078	0,013	0	0
			−2,135	**0**	−0,096	0,008	0	0
			−1,959	**0**	−0,096	0,008	0	0
			−2,637	0	**−0,104**	0,005	0	0
			−2,442	0	**0,104**	0,005	0	0
			−12,114	0	−0,078	**0**	0	0
			−1,539	0	−0,096	**0,014**	0	0
			−2,539	0	0	0,005	**−0,054**	0
			−12,621	0	−0,096	0,001	**0**	0
			−1,949	0	0,096	0,006	0	**0**
			−1,959	0	−0,096	0,008	0	**0**
			−1,977	0	−0,078	0,004	0	0
			−1,977	0	−0,078	0,004	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
159	11	80X 80X 5,0_1						
			−10,962	0	0,078	0,011	0	0
			11,392	0	−0,096	0,003	0	0
			0,721	**0**	−0,096	0,015	0	0
			0,532	**0**	−0,078	0,009	0	0
			1,292	0	**−0,104**	0,008	0	0
			1,097	0	**0,104**	0,008	0	0
			11,022	0	−0,078	**0**	0	0
			0,580	0	−0,096	**0,016**	0	0
			1,195	0	0	0,008	**−0,054**	0
			0,467	0	0,096	0,010	**0**	0
			0,721	0	−0,096	0,015	0	**0**
			0,542	0	0,096	0,015	0	**0**
			0,969	0	−0,078	0,006	0	0
			0,969	0	−0,078	0,006	0	0
160	11	80X 80X 5,0_1						
			−8,500	0	−0,078	−0,006	0	0
			13,990	0	0,096	0,010	0	0
			−8,172	**0**	−0,096	−0,004	0	0
			2,595	**0**	−0,096	0,005	0	0
			2,157	0	**−0,104**	0,003	0	0
			2,352	0	**0,104**	0,003	0	0
			−8,451	0	−0,078	**−0,007**	0	0
			2,618	0	−0,096	**0,017**	0	0
			2,255	0	0	0,003	**−0,054**	0
			1,760	0	−0,078	0,001	**0**	0
			2,774	0	0,096	0,005	0	**0**
			2,595	0	−0,096	0,005	0	**0**
			1,618	0	−0,078	0,002	0	0
			1,618	0	−0,078	0,002	0	0
161	11	80X 80X 5,0_1						
			−15,259	0	0,096	0,013	0	0
			7,522	0	−0,078	−0,006	0	0
			−3,696	**0**	−0,096	0,014	0	0
			−3,357	**0**	−0,096	0,013	0	0
			−3,505	0	**−0,104**	0,008	0	0
			−3,700	0	**0,104**	0,008	0	0
			7,478	0	−0,078	**−0,010**	0	0
			−3,852	0	−0,096	**0,022**	0	0
			−3,603	0	0	0,008	**−0,054**	0
			−14,917	0	0,096	0,008	**0**	0
			−3,696	0	−0,096	0,014	0	**0**
			−3,335	0	0,096	0,007	0	**0**
			−2,629	0	−0,078	0,006	0	0
			−2,629	0	−0,078	0,006	0	0
162	17	HE 120 A						
			−31,761	−0,007	−0,197	0,005	0,095	−0,010
			8,744	0,009	−0,236	−0,013	0,107	0,014
			0,419	**−0,010**	−0,049	−0,001	0	0
			7,696	**0,010**	−0,090	0,001	0	0
			−3,510	0	**−0,359**	0,001	0,139	0,001
			−3,708	0	**0,358**	0,001	0,136	0
			1,216	0	−0,248	**−0,016**	0,125	0
			−31,055	−0,010	−0,201	**0,012**	0,101	−0,015
			3,147	0,007	0,002	0,001	**−0,139**	−0,012
			2,890	−0,007	0,268	0,002	**0,156**	0,010
			5,252	0,010	0,268	0,002	0,083	**−0,034**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−17,933	−0,010	0,259	−0,002	0,101	**0,040**
			−0,569	0	−0,065	0,002	0	0
			−0,569	0	−0,065	0,002	0	0
163	22	260X140X 8,0						
			−42,178	−0,501	−0,004	0,032	0	0
			27,547	−0,619	0,004	0,146	0	0
			1,591	**−1,022**	0	0,364	0,001	−0,533
			2,318	**1,022**	0	0,359	−0,001	−0,533
			−39,555	−0,604	**−0,004**	0,180	0	0
			25,717	−0,506	**0,004**	−0,068	0	0
			21,199	−0,762	0,003	**−0,170**	−0,010	−0,387
			1,166	−0,934	−0,001	**0,738**	0,003	−0,478
			26,046	−0,762	0,004	−0,088	**−0,013**	−0,384
			25,717	0,762	0,004	−0,068	**0,013**	−0,384
			2,318	1,022	0	0,359	−0,001	**−0,533**
			3,217	0,008	0	0,440	−0,001	**0,396**
			1,739	−0,500	0	0,269	0	0
			1,739	−0,500	0	0,269	0	0
164	11	80X 80X 5,0_1						
			−13,801	0	−0,096	−0,003	0	0
			8,085	0	0,078	−0,002	0	0
			−2,000	**0**	−0,078	0,007	0	0
			−1,446	**0**	−0,096	−0,002	0	0
			−2,651	0	**−0,104**	−0,001	0	0
			−2,456	0	**0,104**	−0,001	0	0
			−1,323	0	−0,096	**−0,007**	0	0
			−2,204	0	−0,078	**0,008**	0	0
			−2,553	0	0	−0,001	**−0,054**	0
			−13,487	0	−0,078	−0,002	**0**	0
			−1,267	0	0,096	−0,002	0	**0**
			−1,446	0	−0,096	−0,002	0	**0**
			−1,988	0	−0,078	−0,001	0	0
			−1,988	0	−0,078	−0,001	0	0
165	11	80X 80X 5,0_1						
			−9,037	0	0,078	−0,001	0	0
			12,526	0	−0,096	0	0	0
			0,424	**0**	−0,078	0,001	0	0
			1,255	**0**	−0,096	0,005	0	0
			1,308	0	**−0,104**	0,002	0	0
			1,113	0	**0,104**	0,002	0	0
			0,117	0	−0,078	**−0,003**	0	0
			0,886	0	−0,096	**0,008**	0	0
			1,210	0	0	0,002	**−0,054**	0
			−8,891	0	−0,078	−0,001	**0**	0
			12,103	0	−0,078	−0,002	0	**0**
			0,278	0	0,078	0,001	0	**0**
			0,981	0	−0,078	0,002	0	0
			0,981	0	−0,078	0,002	0	0
166	11	80X 80X 5,0_1						
			−9,891	0	−0,078	−0,024	0	0
			11,924	0	0,096	−0,014	0	0
			1,222	**0**	−0,078	0,023	0	0
			3,033	**0**	−0,096	−0,023	0	0
			2,108	0	**−0,104**	−0,005	0	0
			2,303	0	**0,104**	−0,005	0	0
			−8,307	0	−0,096	**−0,032**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			0,975	0	−0,078	**0,033**	0	0
			2,206	0	0	−0,005	**−0,054**	0
			1,781	0	−0,096	0,027	**0**	0
			2,015	0	0,078	0,025	0	**0**
			−9,542	0	−0,078	−0,031	0	**0**
			1,581	0	−0,078	−0,004	0	0
			1,581	0	−0,078	−0,004	0	0
167	11	80X 80X 5,0_1						
			−13,179	0	0,096	−0,017	0	0
			8,912	0	−0,078	−0,033	0	0
			7,089	**0**	−0,096	−0,047	0	0
			−2,082	**0**	−0,078	0,042	0	0
			−3,445	0	**−0,104**	0,006	0	0
			−3,640	0	**0,104**	0,006	0	0
			8,553	0	−0,078	**−0,049**	0	0
			−3,428	0	−0,096	**0,045**	0	0
			−3,543	0	0	0,006	**−0,054**	0
			−13,043	0	0,096	−0,001	**0**	0
			−2,228	0	0,078	0,042	0	**0**
			6,910	0	0,096	−0,047	0	**0**
			−2,584	0	−0,078	0,004	0	0
			−2,584	0	−0,078	0,004	0	0
168	17	HE 120 A						
			−33,639	0,002	−0,287	0,001	0	0
			5,743	−0,001	−0,204	0	0	0
			−7,793	**−0,005**	−0,261	0	0	0
			−29,806	**0,003**	−0,236	0,001	0	0
			−3,987	−0,001	**−0,436**	−0,002	0,233	−0,003
			−3,987	−0,001	**0,436**	−0,002	0,233	0,003
			−5,809	−0,002	−0,259	**−0,003**	0	0
			−30,012	0,003	−0,238	**0,002**	0	0
			−33,639	0,002	−0,025	0,001	**−0,187**	−0,002
			−3,987	−0,001	0,436	−0,002	**0,233**	0,003
			−7,793	−0,005	−0,395	0	0,201	**−0,015**
			−7,793	−0,005	0,395	0	0,201	**0,015**
			−2,990	−0,001	−0,210	−0,001	0	0
			−2,990	−0,001	−0,210	−0,001	0	0
169	11	80X 80X 5,0_1						
			−1,178	0	0	−0,006	0	0
			−0,593	0	0	0,010	0	0
			−1,021	**0**	0	0,009	0	0
			−0,875	**0**	0	−0,029	0	0
			−0,885	0	**0**	−0,004	0	0
			−1,019	0	**0**	0,009	0	0
			−1,072	0	0	**−0,030**	0	0
			−0,832	0	0	**0,016**	0	0
			−1,019	0	0	0,009	**0**	0
			−0,738	0	0	0,009	**0**	0
			−1,025	0	0	0,015	0	**0**
			−1,077	0	0	−0,029	0	**0**
			−0,884	0	0	−0,005	0	0
			−0,884	0	0	−0,005	0	0
170	11	80X 80X 5,0_1						
			−16,747	0	0,157	0,054	0	0
			14,460	0	−0,191	0,014	0	0
			3,886	**0**	−0,191	−0,073	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			7,719	**0**	−0,157	0,031	0	0
			3,380	0	**−0,209**	−0,031	0	0
			3,074	0	**0,209**	−0,031	0	0
			4,620	0	−0,191	**−0,075**	0	0
			−15,630	0	−0,157	**0,087**	0	0
			3,227	0	0	−0,031	**−0,194**	0
			12,586	0	0,191	−0,017	**0**	0
			−15,388	0	0,157	0,086	0	**0**
			7,719	0	−0,157	0,031	0	**0**
			2,535	0	−0,157	−0,023	0	0
			2,535	0	−0,157	−0,023	0	0
171	11	80X 80X 5,0_1						
			−10,975	0	−0,157	−0,049	0	0
			18,130	0	0,191	0,037	0	0
			17,155	**0**	−0,191	0,016	0	0
			−0,216	**0**	−0,157	−0,064	0	0
			1,089	0	**−0,209**	−0,045	0	0
			1,396	0	**0,209**	−0,045	0	0
			−0,873	0	−0,191	**−0,093**	0	0
			17,657	0	−0,157	**0,045**	0	0
			1,243	0	0	−0,045	**−0,194**	0
			17,773	0	−0,191	0,015	**0**	0
			17,155	0	−0,191	0,016	0	**0**
			17,436	0	0,191	0,016	0	**0**
			0,817	0	−0,157	−0,034	0	0
			0,817	0	−0,157	−0,034	0	0
172	11	80X 80X 5,0_1						
			−1,185	0	0	−0,024	0	0
			−0,646	0	0	−0,043	0	0
			−0,877	**0**	0	−0,041	0	0
			−0,907	**0**	0	−0,007	0	0
			−0,889	0	**0**	−0,025	0	0
			−1,074	0	**0**	−0,045	0	0
			−1,073	0	0	**−0,047**	0	0
			−0,893	0	0	**−0,003**	0	0
			−1,074	0	0	−0,045	**0**	0
			−0,793	0	0	−0,045	**0**	0
			−0,877	0	0	−0,041	0	**0**
			−0,907	0	0	−0,007	0	**0**
			−0,889	0	0	−0,018	0	0
			−0,889	0	0	−0,018	0	0
173	17	HE 120 A						
			−8,673	−0,008	−0,260	0,001	0	0
			8,402	−0,001	−0,199	0	0	0
			−8,673	**−0,008**	−0,260	0,001	0	0
			0,844	**0**	−0,206	0	0	0
			−1,910	−0,004	**−0,439**	0,001	0,243	−0,012
			−1,910	−0,004	**0,439**	0,001	0,243	0,012
			0,844	0	−0,331	**0**	0,189	−0,001
			−8,673	−0,008	−0,260	**0,001**	0	0
			−3,340	−0,006	0,008	0,001	**−0,162**	0,008
			8,001	−0,002	0,412	0	**0,250**	0,006
			−8,673	−0,008	−0,396	0,001	0,204	**−0,023**
			−8,673	−0,008	0,396	0,001	0,204	**0,023**
			−1,433	−0,003	−0,208	0	0	0
			−1,433	−0,003	−0,208	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
174	11	80X 80X 5,0_1						
			−9,963	0	0,191	0,069	0	0
			11,657	0	−0,191	0,015	0	0
			0,184	**0**	−0,157	0,023	0	0
			9,982	**0**	−0,191	0,041	0	0
			0,326	0	**−0,209**	0,031	0	0
			0,019	0	**0,209**	0,031	0	0
			10,508	0	−0,157	**0,008**	0	0
			−8,680	0	−0,191	**0,071**	0	0
			0,172	0	0	0,031	**−0,194**	0
			11,376	0	0,191	0,015	**0**	0
			9,701	0	0,191	0,041	0	**0**
			9,982	0	−0,191	0,041	0	**0**
			0,244	0	−0,157	0,023	0	0
			0,244	0	−0,157	0,023	0	0
175	11	80X 80X 5,0_1						
			−7,832	0	−0,157	−0,024	0	0
			12,638	0	0,191	−0,007	0	0
			11,627	**0**	−0,191	−0,010	0	0
			1,667	**0**	−0,157	−0,008	0	0
			3,433	0	**−0,209**	−0,009	0	0
			3,740	0	**0,209**	−0,009	0	0
			−5,756	0	−0,191	**−0,036**	0	0
			10,588	0	−0,157	**0,005**	0	0
			3,586	0	0	−0,009	**−0,194**	0
			12,357	0	−0,191	−0,007	**0**	0
			11,627	0	−0,191	−0,010	0	**0**
			11,908	0	0,191	−0,010	0	**0**
			2,575	0	−0,157	−0,007	0	0
			2,575	0	−0,157	−0,007	0	0
176	11	80X 80X 5,0_1						
			−1,188	0	0	−0,001	0	0
			−0,657	0	0	0	0	0
			−0,887	**0**	0	0	0	0
			−0,895	**0**	0	−0,001	0	0
			−0,893	0	**0**	−0,001	0	0
			−1,089	0	**0**	−0,002	0	0
			−1,091	0	0	**−0,002**	0	0
			−0,887	0	0	**0,001**	0	0
			−1,089	0	0	−0,002	**0**	0
			−0,808	0	0	−0,002	**0**	0
			−0,887	0	0	0	0	**0**
			−0,895	0	0	−0,001	0	**0**
			−0,891	0	0	−0,001	0	0
			−0,891	0	0	−0,001	0	0
177	17	HE 120 A						
			−2,251	0	−0,254	0	0	0
			2,291	0	−0,205	0	0	0
			0,036	**0**	−0,405	0	0,230	−0,001
			−1,644	**0**	−0,208	0	0	0
			−0,078	0	**−0,441**	0	0,249	−0,001
			−0,078	0	**0,441**	0	0,249	0,001
			−1,644	0	−0,329	**0**	0,181	0,001
			0,036	0	−0,252	**0**	0	0
			−0,251	0	0,011	0	**−0,158**	0
			−0,078	0	0,441	0	**0,249**	0,001
			0,036	0	−0,405	0	0,230	**−0,001**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0,036	0	0,405	0	0,230	**0,001**
			−0,058	0	−0,206	0	0	0
			−0,058	0	−0,206	0	0	0
178	11	80X 80X 5,0_1						
			−4,942	0	0,157	0,033	0	0
			8,115	0	−0,191	0,015	0	0
			1,104	**0**	−0,157	0,009	0	0
			7,545	**0**	−0,191	0,032	0	0
			1,553	0	**−0,209**	0,018	0	0
			1,247	0	**0,209**	0,018	0	0
			1,104	0	−0,157	**0,009**	0	0
			−3,927	0	−0,191	**0,038**	0	0
			1,400	0	0	0,018	**−0,194**	0
			7,272	0	0,191	0,013	**0**	0
			−4,207	0	0,191	0,038	0	**0**
			7,545	0	−0,191	0,032	0	**0**
			1,165	0	−0,157	0,013	0	0
			1,165	0	−0,157	0,013	0	0
179	11	80X 80X 5,0_1						
			−4,347	0	−0,157	−0,023	0	0
			8,036	0	0,191	−0,036	0	0
			7,483	**0**	−0,191	−0,038	0	0
			1,529	**0**	−0,157	−0,012	0	0
			2,299	0	**−0,209**	−0,021	0	0
			2,605	0	**0,209**	−0,021	0	0
			−3,500	0	−0,191	**−0,045**	0	0
			1,529	0	−0,157	**−0,012**	0	0
			2,452	0	0	−0,021	**−0,194**	0
			7,755	0	−0,191	−0,036	**0**	0
			2,431	0	−0,191	−0,041	0	**0**
			7,764	0	0,191	−0,038	0	**0**
			1,724	0	−0,157	−0,016	0	0
			1,724	0	−0,157	−0,016	0	0
180	11	80X 80X 5,0_1						
			−1,187	0	0	0	0	0
			−0,659	0	0	0	0	0
			−0,891	**0**	0	0,002	0	0
			−1,088	**0**	0	0	0	0
			−0,891	0	**0**	0	0	0
			−1,087	0	**0**	0	0	0
			−0,891	0	0	**0**	0	0
			−0,890	0	0	**0,002**	0	0
			−1,087	0	0	0	**0**	0
			−0,806	0	0	0	**0**	0
			−0,891	0	0	0,002	0	**0**
			−1,088	0	0	0	0	**0**
			−0,891	0	0	0	0	0
			−0,891	0	0	0	0	0
181	17	HE 120 A						
			−1,192	0	−0,253	0	0	0
			0,377	0	−0,206	0	0	0
			−0,073	**0**	−0,331	0	0,187	0
			−0,309	**0**	−0,207	0	0	0
			−0,573	0	**−0,440**	0	0,247	0
			−0,573	0	**0,440**	0	0,247	0
			−0,309	0	−0,330	**0**	0,185	0,001

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−0,073	0	−0,206	**0**	0	0
			−1,003	0	0,010	0	**−0,159**	0
			−0,573	0	0,440	0	**0,247**	0
			−0,309	0	0,330	0	0,185	**−0,001**
			−0,309	0	−0,330	0	0,185	**0,001**
			−0,430	0	−0,207	0	0	0
			−0,430	0	−0,207	0	0	0
182	11	80X 80X 5,0_1						
			−3,633	0	0,157	0,036	0	0
			7,009	0	−0,191	0,015	0	0
			1,262	**0**	−0,157	0,010	0	0
			6,756	**0**	−0,191	0,033	0	0
			1,856	0	**−0,209**	0,019	0	0
			1,550	0	**0,209**	0,019	0	0
			6,449	0	−0,157	**0,010**	0	0
			−2,851	0	−0,191	**0,041**	0	0
			1,703	0	0	0,019	**−0,194**	0
			6,374	0	0,191	0,032	**0**	0
			1,444	0	0,191	0,037	0	**0**
			6,756	0	−0,191	0,033	0	**0**
			1,392	0	−0,157	0,014	0	0
			1,392	0	−0,157	0,014	0	0
183	11	80X 80X 5,0_1						
			−3,404	0	−0,157	−0,023	0	0
			6,903	0	0,191	−0,033	0	0
			6,621	**0**	−0,191	−0,035	0	0
			1,361	**0**	−0,157	−0,011	0	0
			1,994	0	**−0,209**	−0,020	0	0
			2,300	0	**0,209**	−0,020	0	0
			−2,921	0	−0,191	**−0,044**	0	0
			1,361	0	−0,157	**−0,011**	0	0
			2,147	0	0	−0,020	**−0,194**	0
			6,622	0	−0,191	−0,033	**0**	0
			2,050	0	−0,191	−0,039	0	**0**
			6,902	0	0,191	−0,035	0	**0**
			1,495	0	−0,157	−0,015	0	0
			1,495	0	−0,157	−0,015	0	0
184	11	80X 80X 5,0_1						
			−1,187	0	0	0	0	0
			−0,659	0	0	0	0	0
			−1,089	**0**	0	0	0	0
			−1,088	**0**	0	−0,002	0	0
			−0,891	0	**0**	0	0	0
			−1,087	0	**0**	0	0	0
			−1,088	0	0	**−0,002**	0	0
			−0,891	0	0	**0**	0	0
			−1,087	0	0	0	**0**	0
			−0,806	0	0	0	**0**	0
			−1,089	0	0	0	0	**0**
			−1,088	0	0	−0,002	0	**0**
			−0,891	0	0	0	0	0
			−0,891	0	0	0	0	0
185	17	HE 120 A						
			−1,197	0	−0,253	0	0	0
			0,375	0	−0,206	0	0	0
			−0,531	**0**	−0,404	0	0,226	−0,001

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0,249	**0**	−0,206	0	0	0
			−0,575	0	**−0,440**	0	0,247	0
			−0,575	0	**0,440**	0	0,247	0
			0,249	0	−0,331	**0**	0,186	0
			−0,408	0	−0,253	**0**	0	0
			−1,004	0	0,010	0	**−0,159**	0
			−0,575	0	0,440	0	**0,247**	0
			−0,531	0	−0,404	0	0,226	**−0,001**
			−0,531	0	0,404	0	0,226	**0,001**
			−0,432	0	−0,207	0	0	0
			−0,432	0	−0,207	0	0	0
186	11	80X 80X 5,0_1						
			−3,401	0	0,157	0,023	0	0
			6,888	0	−0,191	0,036	0	0
			1,575	**0**	−0,157	0,011	0	0
			6,888	**0**	−0,191	0,036	0	0
			2,280	0	**−0,209**	0,020	0	0
			1,973	0	**0,209**	0,020	0	0
			1,575	0	−0,157	**0,011**	0	0
			−2,652	0	−0,191	**0,044**	0	0
			2,126	0	0	0,020	**−0,194**	0
			6,593	0	0,191	0,034	**0**	0
			2,054	0	0,191	0,039	0	**0**
			6,888	0	−0,191	0,036	0	**0**
			1,710	0	−0,157	0,015	0	0
			1,710	0	−0,157	0,015	0	0
187	11	80X 80X 5,0_1						
			−3,608	0	−0,157	−0,035	0	0
			7,005	0	0,191	−0,015	0	0
			6,486	**0**	−0,191	−0,032	0	0
			1,047	**0**	−0,157	−0,010	0	0
			1,570	0	**−0,209**	−0,019	0	0
			1,876	0	**0,209**	−0,019	0	0
			−3,118	0	−0,191	**−0,041**	0	0
			6,219	0	−0,157	**−0,010**	0	0
			1,723	0	0	−0,019	**−0,194**	0
			6,478	0	−0,191	−0,013	**0**	0
			1,440	0	−0,191	−0,037	0	**0**
			6,767	0	0,191	−0,032	0	**0**
			1,177	0	−0,157	−0,014	0	0
			1,177	0	−0,157	−0,014	0	0
188	11	80X 80X 5,0_1						
			−1,188	0	0	0,001	0	0
			−0,657	0	0	−0,001	0	0
			−1,092	**0**	0	0,002	0	0
			−1,085	**0**	0	0	0	0
			−0,892	0	**0**	0,001	0	0
			−1,089	0	**0**	0,002	0	0
			−0,887	0	0	**−0,001**	0	0
			−1,090	0	0	**0,002**	0	0
			−1,089	0	0	0,002	**0**	0
			−0,808	0	0	0,002	**0**	0
			−1,092	0	0	0,002	0	**0**
			−1,085	0	0	0	0	**0**
			−0,891	0	0	0,001	0	0
			−0,891	0	0	0,001	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
189	17	HE 120 A						
			−2,265	0	−0,254	0	0	0
			2,283	0	−0,205	0	0	0
			−1,651	**0**	−0,329	0	0,181	−0,001
			−0,222	**0**	−0,252	0	0	0
			−0,090	0	**−0,441**	0	0,249	0
			−0,090	0	**0,441**	0	0,249	0
			−0,222	0	−0,404	**0**	0,228	0,001
			−1,651	0	−0,208	**0**	0	0
			−0,260	0	0,011	0	**−0,158**	0
			−0,090	0	0,441	0	**0,249**	0
			−0,222	0	0,404	0	0,228	**−0,001**
			−0,222	0	−0,404	0	0,228	**0,001**
			−0,067	0	−0,206	0	0	0
			−0,067	0	−0,206	0	0	0
190	11	80X 80X 5,0_1						
			−4,340	0	0,157	0,023	0	0
			8,011	0	−0,191	0,036	0	0
			1,748	**0**	−0,157	0,012	0	0
			7,755	**0**	−0,191	0,038	0	0
			2,589	0	**−0,209**	0,021	0	0
			2,282	0	**0,209**	0,021	0	0
			1,723	0	−0,157	**0,012**	0	0
			−3,220	0	−0,191	**0,045**	0	0
			2,436	0	0	0,021	**−0,194**	0
			7,368	0	0,191	0,018	**0**	0
			2,436	0	0,191	0,041	0	**0**
			7,755	0	−0,191	0,038	0	**0**
			1,942	0	−0,157	0,016	0	0
			1,942	0	−0,157	0,016	0	0
191	11	80X 80X 5,0_1						
			−4,921	0	−0,157	−0,033	0	0
			8,106	0	0,191	−0,015	0	0
			7,262	**0**	−0,191	−0,031	0	0
			0,915	**0**	−0,157	−0,009	0	0
			1,262	0	**−0,209**	−0,018	0	0
			1,569	0	**0,209**	−0,018	0	0
			−4,199	0	−0,191	**−0,038**	0	0
			0,885	0	−0,157	**−0,009**	0	0
			1,416	0	0	−0,018	**−0,194**	0
			7,262	0	−0,191	−0,031	**0**	0
			−4,199	0	−0,191	−0,038	0	**0**
			7,543	0	0,191	−0,031	0	**0**
			0,947	0	−0,157	−0,013	0	0
			0,947	0	−0,157	−0,013	0	0
192	11	80X 80X 5,0_1						
			−1,185	0	0	0,024	0	0
			−0,646	0	0	0,042	0	0
			−1,103	**0**	0	0,013	0	0
			−1,074	**0**	0	0,045	0	0
			−0,889	0	**0**	0,025	0	0
			−1,074	0	**0**	0,045	0	0
			−0,892	0	0	**0,003**	0	0
			−1,073	0	0	**0,046**	0	0
			−1,074	0	0	0,045	**0**	0
			−0,793	0	0	0,045	**0**	0
			−1,103	0	0	0,013	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−1,074	0	0	0,045	0	**0**
			−0,889	0	0	0,018	0	0
			−0,889	0	0	0,018	0	0
193	17	HE 120 A						
			−8,638	0,008	−0,260	−0,001	0	0
			8,381	0,001	−0,199	0	0	0
			0,692	**0,001**	−0,206	0	0	0
			−8,638	**0,008**	−0,260	−0,001	0	0
			−1,890	0,004	**−0,439**	−0,001	0,243	0,012
			−1,890	0,004	**0,439**	−0,001	0,243	−0,012
			−8,638	0,008	−0,260	**−0,001**	0	0
			0,692	0,001	−0,206	**0**	0	0
			−3,308	0,006	0,008	−0,001	**−0,162**	−0,008
			7,976	0,002	0,412	0	**0,250**	−0,006
			−8,638	0,008	0,396	−0,001	0,204	**−0,023**
			−8,638	0,008	−0,396	−0,001	0,204	**0,023**
			−1,418	0,003	−0,208	0	0	0
			−1,418	0,003	−0,208	0	0	0
194	11	80X 80X 5,0_1						
			−7,816	0	0,157	0,024	0	0
			12,600	0	−0,191	0,008	0	0
			1,998	**0**	−0,157	0,008	0	0
			11,896	**0**	−0,191	0,010	0	0
			3,716	0	**−0,209**	0,010	0	0
			3,410	0	**0,209**	0,010	0	0
			10,822	0	−0,157	**−0,005**	0	0
			−5,465	0	−0,191	**0,037**	0	0
			3,563	0	0	0,010	**−0,194**	0
			11,163	0	0,191	−0,003	**0**	0
			11,615	0	0,191	0,010	0	**0**
			11,896	0	−0,191	0,010	0	**0**
			2,787	0	−0,157	0,007	0	0
			2,787	0	−0,157	0,007	0	0
195	11	80X 80X 5,0_1						
			−9,925	0	−0,157	−0,064	0	0
			11,637	0	0,191	−0,015	0	0
			9,690	**0**	−0,191	−0,040	0	0
			−0,064	**0**	−0,157	−0,023	0	0
			0,044	0	**−0,209**	−0,031	0	0
			0,350	0	**0,209**	−0,031	0	0
			−8,948	0	−0,191	**−0,071**	0	0
			10,262	0	−0,157	**−0,008**	0	0
			0,197	0	0	−0,031	**−0,194**	0
			9,246	0	−0,191	−0,040	**0**	0
			9,690	0	−0,191	−0,040	0	**0**
			9,971	0	0,191	−0,040	0	**0**
			0,033	0	−0,157	−0,023	0	0
			0,033	0	−0,157	−0,023	0	0
196	11	80X 80X 5,0_1						
			−1,178	0	0	0,007	0	0
			−0,593	0	0	−0,010	0	0
			−1,078	**0**	0	0,024	0	0
			−0,826	**0**	0	−0,010	0	0
			−0,885	0	**0**	0,003	0	0
			−1,019	0	**0**	−0,009	0	0
			−0,832	0	0	**−0,016**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−1,072	0	0	**0,031**	0	0
			−1,019	0	0	−0,009	**0**	0
			−0,738	0	0	−0,009	**0**	0
			−1,078	0	0	0,024	0	**0**
			−0,826	0	0	−0,010	0	**0**
			−0,884	0	0	0,005	0	0
			−0,884	0	0	0,005	0	0
197	17	HE 120 A						
			−33,637	−0,001	−0,287	−0,001	0	0
			5,714	0,001	−0,204	0	0	0
			−29,814	**−0,003**	−0,236	−0,001	0	0
			−7,775	**0,005**	−0,261	0	0	0
			−3,972	0,001	**−0,436**	0,002	0,233	0,003
			−3,972	0,001	**0,436**	0,002	0,233	−0,003
			−30,026	−0,003	−0,238	**−0,002**	0	0
			−5,806	0,002	−0,259	**0,003**	0	0
			−33,637	−0,001	−0,025	−0,001	**−0,187**	0,002
			−3,972	0,001	0,436	0,002	**0,233**	−0,003
			−7,775	0,005	0,395	0	0,202	**−0,015**
			−7,775	0,005	−0,395	0	0,202	**0,015**
			−2,979	0,001	−0,210	0,001	0	0
			−2,979	0,001	−0,210	0,001	0	0
198	11	80X 80X 5,0_1						
			−11,005	0	0,157	0,049	0	0
			18,097	0	−0,191	−0,038	0	0
			−0,036	**0**	−0,157	0,064	0	0
			17,404	**0**	−0,191	−0,016	0	0
			1,376	0	**−0,209**	0,045	0	0
			1,070	0	**0,209**	0,045	0	0
			17,861	0	−0,157	**−0,045**	0	0
			−0,654	0	−0,191	**0,093**	0	0
			1,223	0	0	0,045	**−0,194**	0
			17,777	0	0,191	−0,029	**0**	0
			17,123	0	0,191	−0,016	0	**0**
			17,404	0	−0,191	−0,016	0	**0**
			1,032	0	−0,157	0,034	0	0
			1,032	0	−0,157	0,034	0	0
199	11	80X 80X 5,0_1						
			−16,725	0	−0,157	−0,054	0	0
			14,534	0	0,191	−0,014	0	0
			7,463	**0**	−0,157	−0,029	0	0
			3,625	**0**	−0,191	0,073	0	0
			3,084	0	**−0,209**	0,030	0	0
			3,390	0	**0,209**	0,030	0	0
			−15,835	0	−0,157	**−0,087**	0	0
			4,386	0	−0,191	**0,075**	0	0
			3,237	0	0	0,030	**−0,194**	0
			13,959	0	−0,191	−0,001	**0**	0
			−15,365	0	−0,157	−0,086	0	**0**
			7,693	0	0,157	−0,029	0	**0**
			2,313	0	−0,157	0,023	0	0
			2,313	0	−0,157	0,023	0	0
200	12	80X 80X 5,0						
			−39,371	0	−0,383	−0,025	0	0
			4,879	0	−0,383	−0,025	0	0
			−36,113	**0**	−0,313	−0,022	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			2,110	**0**	−0,383	−0,008	0	0
			−2,028	0	**−0,418**	0,004	0	0
			−2,028	0	**0,418**	0,004	0	0
			−34,803	0	−0,313	**−0,038**	0	0
			−0,165	0	−0,383	**0,021**	0	0
			−2,028	0	0	0,004	**−0,627**	0
			−36,484	0	0,383	−0,021	**0**	0
			2,110	0	0,383	−0,008	0	**0**
			−36,113	0	0,313	−0,022	0	**0**
			−1,520	0	−0,313	0,003	0	0
			−1,520	0	−0,313	0,003	0	0
201	12	80X 80X 5,0						
			−28,317	0	−0,383	0,083	0	0
			6,457	0	−0,383	0,031	0	0
			−28,317	**0**	−0,383	0,083	0	0
			6,309	**0**	−0,313	0,026	0	0
			−2,966	0	**−0,418**	0,029	0	0
			−2,966	0	**0,418**	0,029	0	0
			2,592	0	−0,313	**0,008**	0	0
			−21,439	0	−0,383	**0,095**	0	0
			−2,966	0	0	0,029	**−0,627**	0
			−25,468	0	0,383	0,053	**0**	0
			6,457	0	0,383	0,031	0	**0**
			−27,819	0	0,313	0,079	0	**0**
			−2,224	0	−0,313	0,022	0	0
			−2,224	0	−0,313	0,022	0	0
202	12	80X 80X 5,0						
			−27,695	0	−0,383	−0,013	0	0
			11,028	0	−0,313	−0,005	0	0
			−7,035	**0**	−0,383	−0,017	0	0
			11,028	**0**	−0,313	−0,005	0	0
			−8,527	0	**−0,418**	−0,010	0	0
			−8,527	0	**0,418**	−0,010	0	0
			−6,930	0	−0,383	**−0,020**	0	0
			−12,374	0	−0,313	**−0,004**	0	0
			−8,527	0	0	−0,010	**−0,627**	0
			−27,695	0	0,383	−0,013	**0**	0
			11,028	0	0,313	−0,005	0	**0**
			−7,035	0	0,383	−0,017	0	**0**
			−6,395	0	−0,313	−0,007	0	0
			−6,395	0	−0,313	−0,007	0	0
203	12	80X 80X 5,0						
			−25,931	0	−0,383	0,013	0	0
			11,177	0	−0,383	0,020	0	0
			5,716	**0**	−0,383	−0,017	0	0
			−22,362	**0**	−0,313	−0,032	0	0
			−9,579	0	**−0,418**	0,009	0	0
			−9,579	0	**0,418**	0,009	0	0
			−12,167	0	−0,313	**−0,050**	0	0
			5,844	0	−0,383	**0,035**	0	0
			−9,579	0	0	0,009	**−0,627**	0
			−22,360	0	0,383	−0,030	**0**	0
			−22,362	0	0,313	−0,032	0	**0**
			5,716	0	0,383	−0,017	0	**0**
			−7,184	0	−0,313	0,007	0	0
			−7,184	0	−0,313	0,007	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
204	12	80X 80X 5,0						
			−33,271	0	−0,383	−0,004	0	0
			6,335	0	−0,313	−0,007	0	0
			−8,674	**0**	−0,383	0,007	0	0
			−26,997	**0**	−0,313	0,021	0	0
			−9,440	0	**−0,418**	−0,009	0	0
			−9,440	0	**0,418**	−0,009	0	0
			−11,987	0	−0,383	**−0,024**	0	0
			−14,906	0	−0,313	**0,033**	0	0
			−9,440	0	0	−0,009	**−0,627**	0
			−25,444	0	0,383	0,020	**0**	0
			−26,997	0	0,313	0,021	0	**0**
			−8,674	0	0,383	0,007	0	**0**
			−7,079	0	−0,313	−0,007	0	0
			−7,079	0	−0,313	−0,007	0	0
205	12	80X 80X 5,0						
			−1,073	0	−0,313	−0,007	0	0
			6,142	0	−0,383	−0,013	0	0
			−0,429	**0**	−0,383	−0,013	0	0
			2,843	**0**	−0,313	−0,006	0	0
			0,463	0	**−0,418**	−0,008	0	0
			0,463	0	**0,418**	−0,008	0	0
			3,988	0	−0,383	**−0,016**	0	0
			5,555	0	−0,313	**−0,001**	0	0
			0,463	0	0	−0,008	**−0,627**	0
			1,128	0	0,418	−0,013	**0**	0
			−0,429	0	−0,383	−0,013	0	**0**
			−0,429	0	0,383	−0,013	0	**0**
			0,347	0	−0,313	−0,006	0	0
			0,347	0	−0,313	−0,006	0	0
206	12	80X 80X 5,0						
			−0,721	0	−0,313	0	0	0
			6,234	0	−0,383	−0,001	0	0
			−0,022	**0**	−0,383	0	0	0
			2,688	**0**	−0,313	0	0	0
			0,534	0	**−0,418**	0	0	0
			0,534	0	**0,418**	0	0	0
			0,908	0	−0,383	**−0,001**	0	0
			1,833	0	−0,313	**0**	0	0
			0,534	0	0	0	**−0,627**	0
			−0,022	0	−0,383	0	**0**	0
			−0,022	0	−0,383	0	0	**0**
			−0,022	0	0,383	0	0	**0**
			0,400	0	−0,313	0	0	0
			0,400	0	−0,313	0	0	0
207	12	80X 80X 5,0						
			−0,405	0	−0,313	0,001	0	0
			6,248	0	−0,383	0	0	0
			0,305	**0**	−0,383	0,001	0	0
			3,118	**0**	−0,383	0	0	0
			0,551	0	**−0,418**	0	0	0
			0,551	0	**0,418**	0	0	0
			2,152	0	−0,313	**0**	0	0
			2,855	0	−0,383	**0,001**	0	0
			0,551	0	0	0	**−0,627**	0
			0,305	0	−0,383	0,001	**0**	0
			3,118	0	0,383	0	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0,305	0	0,383	0,001	0	**0**
			0,413	0	−0,313	0	0	0
			0,413	0	−0,313	0	0	0
208	12	80X 80X 5,0						
			−0,404	0	−0,313	−0,001	0	0
			6,250	0	−0,383	0	0	0
			0,566	**0**	−0,383	0	0	0
			0,313	**0**	−0,383	−0,001	0	0
			0,553	0	**−0,418**	0	0	0
			0,553	0	**0,418**	0	0	0
			2,860	0	−0,383	**−0,001**	0	0
			2,154	0	−0,313	**0**	0	0
			0,553	0	0	0	**−0,627**	0
			0,313	0	0,383	−0,001	**0**	0
			2,005	0	−0,313	0	0	**0**
			0,566	0	0,383	0	0	**0**
			0,415	0	−0,313	0	0	0
			0,415	0	−0,313	0	0	0
209	12	80X 80X 5,0						
			−0,718	0	−0,313	0	0	0
			6,241	0	−0,383	0,001	0	0
			2,688	**0**	−0,313	0	0	0
			−0,006	**0**	−0,383	0	0	0
			0,541	0	**−0,418**	0	0	0
			0,541	0	**0,418**	0	0	0
			1,834	0	−0,313	**0**	0	0
			6,169	0	−0,383	**0,001**	0	0
			0,541	0	0	0	**−0,627**	0
			−0,006	0	0,383	0	**0**	0
			−0,097	0	0,313	0	0	**0**
			−0,006	0	−0,383	0	0	**0**
			0,406	0	−0,313	0	0	0
			0,406	0	−0,313	0	0	0
210	12	80X 80X 5,0						
			−1,069	0	−0,313	0,007	0	0
			6,153	0	−0,383	0,013	0	0
			2,843	**0**	−0,313	0,006	0	0
			−0,406	**0**	−0,383	0,013	0	0
			0,476	0	**−0,418**	0,008	0	0
			0,476	0	**0,418**	0,008	0	0
			5,555	0	−0,313	**0,001**	0	0
			4,001	0	−0,383	**0,016**	0	0
			0,476	0	0	0,008	**−0,627**	0
			1,142	0	−0,418	0,013	**0**	0
			−0,406	0	0,383	0,013	0	**0**
			−0,406	0	−0,383	0,013	0	**0**
			0,357	0	−0,313	0,006	0	0
			0,357	0	−0,313	0,006	0	0
211	12	80X 80X 5,0						
			−39,408	0	−0,383	0,026	0	0
			4,891	0	−0,383	0,002	0	0
			1,951	**0**	−0,383	0,008	0	0
			−36,127	**0**	−0,313	0,022	0	0
			−2,059	0	**−0,418**	−0,004	0	0
			−2,059	0	**0,418**	−0,004	0	0
			−0,170	0	−0,383	**−0,021**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−34,830	0	−0,313	**0,039**	0	0
			−2,059	0	0	−0,004	**−0,627**	0
			−36,504	0	−0,383	0,021	**0**	0
			1,951	0	−0,383	0,008	0	**0**
			−36,127	0	−0,313	0,022	0	**0**
			−1,544	0	−0,313	−0,003	0	0
			−1,544	0	−0,313	−0,003	0	0
212	12	80X 80X 5,0						
			−10,078	0	−0,383	0,022	0	0
			10,717	0	−0,313	0,003	0	0
			−0,075	**0**	−0,383	0,006	0	0
			−4,600	**0**	−0,313	0,020	0	0
			−1,102	0	**−0,418**	0,013	0	0
			−1,102	0	**0,418**	0,013	0	0
			0,021	0	−0,313	**−0,003**	0	0
			−4,618	0	−0,383	**0,029**	0	0
			−1,102	0	0	0,013	**−0,627**	0
			−0,075	0	−0,383	0,006	**0**	0
			−0,075	0	−0,383	0,006	0	**0**
			−0,075	0	0,383	0,006	0	**0**
			−0,826	0	−0,313	0,010	0	0
			−0,826	0	−0,313	0,010	0	0
213	12	80X 80X 5,0						
			−7,897	0	−0,383	0,001	0	0
			10,633	0	−0,313	0	0	0
			−1,844	**0**	−0,313	−0,001	0	0
			−7,759	**0**	−0,313	0,001	0	0
			−1,097	0	**−0,418**	0	0	0
			−1,097	0	**0,418**	0	0	0
			3,419	0	−0,313	**−0,001**	0	0
			8,564	0	−0,383	**0,001**	0	0
			−1,097	0	0	0	**−0,627**	0
			−1,990	0	−0,383	−0,001	**0**	0
			−1,844	0	−0,313	−0,001	0	**0**
			−1,844	0	0,313	−0,001	0	**0**
			−0,822	0	−0,313	0	0	0
			−0,822	0	−0,313	0	0	0
214	12	80X 80X 5,0						
			−5,922	0	−0,383	0	0	0
			10,598	0	−0,313	0	0	0
			−3,746	**0**	−0,313	−0,001	0	0
			−5,811	**0**	−0,383	0	0	0
			−1,081	0	**−0,418**	0	0	0
			−1,081	0	**0,418**	0	0	0
			−0,706	0	−0,383	**−0,001**	0	0
			4,856	0	−0,313	**0**	0	0
			−1,081	0	0	0	**−0,627**	0
			−3,886	0	−0,383	−0,001	**0**	0
			−3,746	0	−0,313	−0,001	0	**0**
			−5,811	0	−0,383	0	0	**0**
			−0,811	0	−0,313	0	0	0
			−0,811	0	−0,313	0	0	0
215	12	80X 80X 5,0						
			−5,911	0	−0,383	0	0	0
			10,611	0	−0,313	0	0	0
			−5,648	**0**	−0,313	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−3,734	**0**	−0,313	0,001	0	0
			−1,065	0	**−0,418**	0	0	0
			−1,065	0	**0,418**	0	0	0
			4,870	0	−0,313	**0**	0	0
			1,424	0	−0,383	**0,001**	0	0
			−1,065	0	0	0	**−0,627**	0
			−2,617	0	−0,383	0	**0**	0
			−5,648	0	−0,313	0	0	**0**
			−5,648	0	0,313	0	0	**0**
			−0,799	0	−0,313	0	0	0
			−0,799	0	−0,313	0	0	0
216	12	80X 80X 5,0						
			−7,868	0	−0,383	−0,001	0	0
			10,672	0	−0,313	0	0	0
			−7,743	**0**	−0,313	−0,001	0	0
			−1,794	**0**	−0,313	0,001	0	0
			−1,049	0	**−0,418**	0	0	0
			−1,049	0	**0,418**	0	0	0
			8,608	0	−0,383	**−0,001**	0	0
			3,425	0	−0,313	**0,001**	0	0
			−1,049	0	0	0	**−0,627**	0
			−1,932	0	0,383	0,001	**0**	0
			−1,794	0	0,313	0,001	0	**0**
			−1,794	0	−0,313	0,001	0	**0**
			−0,786	0	−0,313	0	0	0
			−0,786	0	−0,313	0	0	0
217	12	80X 80X 5,0						
			−10,030	0	−0,383	−0,021	0	0
			10,783	0	−0,313	−0,003	0	0
			−6,721	**0**	−0,313	−0,020	0	0
			0,028	**0**	−0,383	−0,006	0	0
			−1,022	0	**−0,418**	−0,013	0	0
			−1,022	0	**0,418**	−0,013	0	0
			−4,536	0	−0,383	**−0,029**	0	0
			0,046	0	−0,313	**0,003**	0	0
			−1,022	0	0	−0,013	**−0,627**	0
			0,028	0	0,383	−0,006	**0**	0
			0,028	0	0,383	−0,006	0	**0**
			0,028	0	−0,383	−0,006	0	**0**
			−0,766	0	−0,313	−0,010	0	0
			−0,766	0	−0,313	−0,010	0	0
218	12	80X 80X 5,0						
			−28,196	0	−0,383	−0,083	0	0
			6,499	0	−0,383	−0,032	0	0
			6,461	**0**	−0,383	−0,031	0	0
			−27,715	**0**	−0,313	−0,079	0	0
			−2,877	0	**−0,418**	−0,029	0	0
			−2,877	0	**0,418**	−0,029	0	0
			−21,361	0	−0,383	**−0,095**	0	0
			2,667	0	−0,313	**−0,008**	0	0
			−2,877	0	0	−0,029	**−0,627**	0
			−25,423	0	−0,383	−0,053	**0**	0
			6,461	0	−0,383	−0,031	0	**0**
			−27,715	0	−0,313	−0,079	0	**0**
			−2,157	0	−0,313	−0,022	0	0
			−2,157	0	−0,313	−0,022	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
219	12	80X 80X 5,0						
			−13,618	0	−0,383	0,002	0	0
			15,709	0	−0,313	0	0	0
			−11,167	**0**	−0,383	0	0	0
			15,539	**0**	−0,313	0	0	0
			−5,501	0	**−0,418**	0	0	0
			−5,501	0	**0,418**	0	0	0
			−12,184	0	−0,313	**−0,003**	0	0
			−3,838	0	−0,383	**0,003**	0	0
			−5,501	0	0	0	**−0,627**	0
			−5,179	0	0,383	0,002	**0**	0
			−11,167	0	−0,383	0	0	**0**
			−11,167	0	0,383	0	0	**0**
			−4,126	0	−0,313	0	0	0
			−4,126	0	−0,313	0	0	0
220	12	80X 80X 5,0						
			−13,414	0	−0,383	0	0	0
			15,709	0	−0,313	0	0	0
			−13,154	**0**	−0,383	0	0	0
			−11,189	**0**	−0,313	0	0	0
			−5,493	0	**−0,418**	0	0	0
			−5,493	0	**0,418**	0	0	0
			1,438	0	−0,383	**0**	0	0
			−2,513	0	−0,313	**0**	0	0
			−5,493	0	0	0	**−0,627**	0
			−13,154	0	−0,383	0	**0**	0
			−13,154	0	−0,383	0	0	**0**
			−13,154	0	0,383	0	0	**0**
			−4,120	0	−0,313	0	0	0
			−4,120	0	−0,313	0	0	0
221	12	80X 80X 5,0						
			−13,327	0	−0,383	0	0	0
			15,710	0	−0,313	0	0	0
			−12,348	**0**	−0,313	0	0	0
			−6,936	**0**	−0,383	0	0	0
			−5,489	0	**−0,418**	0	0	0
			−5,489	0	**0,418**	0	0	0
			−2,671	0	−0,313	**0**	0	0
			−13,236	0	−0,383	**0**	0	0
			−5,489	0	0	0	**−0,627**	0
			−11,911	0	−0,383	0	**0**	0
			−6,936	0	0,383	0	0	**0**
			−11,107	0	−0,313	0	0	**0**
			−4,117	0	−0,313	0	0	0
			−4,117	0	−0,313	0	0	0
222	12	80X 80X 5,0						
			−13,323	0	−0,383	0	0	0
			15,710	0	−0,313	0	0	0
			−13,323	**0**	−0,383	0	0	0
			−12,352	**0**	−0,313	0	0	0
			−5,489	0	**−0,418**	0	0	0
			−5,489	0	**0,418**	0	0	0
			−3,480	0	−0,383	**0**	0	0
			−13,323	0	−0,383	**0**	0	0
			−5,489	0	0	0	**−0,627**	0
			−11,910	0	0,383	0	**0**	0
			−13,323	0	−0,383	0	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−13,323	0	0,383	0	0	**0**
			−4,117	0	−0,313	0	0	0
			−4,117	0	−0,313	0	0	0
223	12	80X 80X 5,0						
			−13,409	0	−0,383	0	0	0
			15,710	0	−0,313	0	0	0
			−11,190	**0**	−0,313	0	0	0
			−13,157	**0**	−0,383	0	0	0
			−5,493	0	**−0,418**	0	0	0
			−5,493	0	**0,418**	0	0	0
			−2,514	0	−0,313	**0**	0	0
			−11,151	0	−0,383	**0**	0	0
			−5,493	0	0	0	**−0,627**	0
			−13,157	0	0,383	0	**0**	0
			−13,157	0	0,383	0	0	**0**
			−13,157	0	−0,383	0	0	**0**
			−4,120	0	−0,313	0	0	0
			−4,120	0	−0,313	0	0	0
224	12	80X 80X 5,0						
			−13,613	0	−0,383	−0,002	0	0
			15,709	0	−0,313	0	0	0
			15,539	**0**	−0,313	0	0	0
			0,291	**0**	−0,383	0	0	0
			−5,500	0	**−0,418**	0	0	0
			−5,500	0	**0,418**	0	0	0
			−3,836	0	−0,383	**−0,003**	0	0
			−12,187	0	−0,313	**0,003**	0	0
			−5,500	0	0	0	**−0,627**	0
			−5,179	0	−0,383	−0,002	**0**	0
			0,291	0	0,383	0	0	**0**
			0,291	0	−0,383	0	0	**0**
			−4,125	0	−0,313	0	0	0
			−4,125	0	−0,313	0	0	0
225	12	80X 80X 5,0						
			−27,540	0	−0,383	0,013	0	0
			11,022	0	−0,313	0,005	0	0
			10,503	**0**	−0,313	0,005	0	0
			−6,969	**0**	−0,383	0,020	0	0
			−8,411	0	**−0,418**	0,010	0	0
			−8,411	0	**0,418**	0,010	0	0
			−12,364	0	−0,313	**0,004**	0	0
			−6,969	0	−0,383	**0,020**	0	0
			−8,411	0	0	0,010	**−0,627**	0
			−27,540	0	−0,383	0,013	**0**	0
			10,503	0	−0,313	0,005	0	**0**
			−6,969	0	−0,383	0,020	0	**0**
			−6,308	0	−0,313	0,007	0	0
			−6,308	0	−0,313	0,007	0	0
226	12	80X 80X 5,0						
			−9,937	0	−0,383	−0,037	0	0
			15,676	0	−0,383	−0,015	0	0
			9,375	**0**	−0,383	−0,024	0	0
			14,808	**0**	−0,313	−0,005	0	0
			−1,044	0	**−0,418**	−0,014	0	0
			−1,044	0	**0,418**	−0,014	0	0
			−1,070	0	−0,383	**−0,038**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−9,582	0	−0,313	**0,014**	0	0
			−1,044	0	0	−0,014	**−0,627**	0
			−9,807	0	−0,383	0,005	**0**	0
			9,375	0	−0,383	−0,024	0	**0**
			9,375	0	0,383	−0,024	0	**0**
			−0,783	0	−0,313	−0,010	0	0
			−0,783	0	−0,313	−0,010	0	0
227	12	80X 80X 5,0						
			−9,760	0	−0,383	0	0	0
			15,700	0	−0,383	−0,001	0	0
			−4,394	**0**	−0,383	0,001	0	0
			−0,809	**0**	−0,383	−0,001	0	0
			−1,031	0	**−0,418**	0	0	0
			−1,031	0	**0,418**	0	0	0
			−9,742	0	−0,383	**−0,001**	0	0
			−0,596	0	−0,313	**0,001**	0	0
			−1,031	0	0	0	**−0,627**	0
			−9,760	0	−0,383	0	**0**	0
			−0,809	0	0,383	−0,001	0	**0**
			−0,809	0	−0,383	−0,001	0	**0**
			−0,773	0	−0,313	0	0	0
			−0,773	0	−0,313	0	0	0
228	12	80X 80X 5,0						
			−9,758	0	−0,383	0,001	0	0
			15,707	0	−0,383	0	0	0
			−0,781	**0**	−0,383	0,001	0	0
			−0,626	**0**	−0,313	0	0	0
			−1,031	0	**−0,418**	0	0	0
			−1,031	0	**0,418**	0	0	0
			7,583	0	−0,313	**0**	0	0
			−0,837	0	−0,383	**0,001**	0	0
			−1,031	0	0	0	**−0,627**	0
			−9,758	0	−0,383	0,001	**0**	0
			−0,841	0	0,383	0	0	**0**
			−0,626	0	−0,313	0	0	**0**
			−0,773	0	−0,313	0	0	0
			−0,773	0	−0,313	0	0	0
229	12	80X 80X 5,0						
			−9,751	0	−0,383	0	0	0
			15,707	0	−0,383	0	0	0
			−0,851	**0**	−0,383	0	0	0
			−0,780	**0**	−0,383	−0,001	0	0
			−1,030	0	**−0,418**	0	0	0
			−1,030	0	**0,418**	0	0	0
			−0,827	0	−0,383	**−0,001**	0	0
			7,584	0	−0,313	**0**	0	0
			−1,030	0	0	0	**−0,627**	0
			−9,747	0	0,383	−0,001	**0**	0
			−0,851	0	−0,383	0	0	**0**
			−0,627	0	0,313	0	0	**0**
			−0,772	0	−0,313	0	0	0
			−0,772	0	−0,313	0	0	0
230	12	80X 80X 5,0						
			−9,750	0	−0,383	0,001	0	0
			15,701	0	−0,383	0,001	0	0
			−4,254	**0**	−0,313	0,001	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−0,805	**0**	−0,383	−0,001	0	0
			−1,029	0	**−0,418**	0	0	0
			−1,029	0	**0,418**	0	0	0
			−0,595	0	−0,313	**−0,001**	0	0
			−0,867	0	−0,383	**0,001**	0	0
			−1,029	0	0	0	**−0,627**	0
			−9,747	0	0,383	−0,001	**0**	0
			−4,254	0	−0,313	0,001	0	**0**
			−4,254	0	0,313	0,001	0	**0**
			−0,771	0	−0,313	0	0	0
			−0,771	0	−0,313	0	0	0
231	12	80X 80X 5,0						
			−9,943	0	−0,383	0,037	0	0
			15,677	0	−0,383	0,015	0	0
			11,903	**0**	−0,313	0,004	0	0
			12,691	**0**	−0,383	0,025	0	0
			−1,041	0	**−0,418**	0,013	0	0
			−1,041	0	**0,418**	0,013	0	0
			−9,577	0	−0,313	**−0,014**	0	0
			−1,077	0	−0,383	**0,038**	0	0
			−1,041	0	0	0,013	**−0,627**	0
			−9,792	0	0,383	−0,005	**0**	0
			12,691	0	0,383	0,025	0	**0**
			12,691	0	−0,383	0,025	0	**0**
			−0,781	0	−0,313	0,010	0	0
			−0,781	0	−0,313	0,010	0	0
232	12	80X 80X 5,0						
			−25,768	0	−0,383	−0,013	0	0
			11,151	0	−0,383	−0,020	0	0
			−22,362	**0**	−0,313	0,032	0	0
			5,739	**0**	−0,383	0,017	0	0
			−9,458	0	**−0,418**	−0,009	0	0
			−9,458	0	**0,418**	−0,009	0	0
			5,851	0	−0,383	**−0,035**	0	0
			−12,167	0	−0,313	**0,051**	0	0
			−9,458	0	0	−0,009	**−0,627**	0
			−22,360	0	−0,383	0,030	**0**	0
			−22,362	0	−0,313	0,032	0	**0**
			5,739	0	−0,383	0,017	0	**0**
			−7,093	0	−0,313	−0,007	0	0
			−7,093	0	−0,313	−0,007	0	0
233	12	80X 80X 5,0						
			−4,785	0	−0,383	−0,001	0	0
			12,597	0	−0,383	0,001	0	0
			0,002	**0**	−0,383	0,003	0	0
			−4,654	**0**	−0,313	−0,002	0	0
			0,070	0	**−0,418**	0,001	0	0
			0,070	0	**0,418**	0,001	0	0
			−4,654	0	−0,313	**−0,002**	0	0
			2,118	0	−0,383	**0,003**	0	0
			0,070	0	0	0,001	**−0,627**	0
			−4,785	0	−0,383	−0,001	**0**	0
			−3,174	0	−0,383	0,003	0	**0**
			0,002	0	0,383	0,003	0	**0**
			0,052	0	−0,313	0,001	0	0
			0,052	0	−0,313	0,001	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
234	12	80X 80X 5,0						
			−4,591	0	−0,383	−0,001	0	0
			12,442	0	−0,383	0	0	0
			−3,519	**0**	−0,383	0	0	0
			−4,403	**0**	−0,313	−0,001	0	0
			−0,023	0	**−0,418**	0	0	0
			−0,023	0	**0,418**	0	0	0
			0,800	0	−0,313	**−0,001**	0	0
			3,121	0	−0,383	**0**	0	0
			−0,023	0	0	0	**−0,627**	0
			−4,485	0	−0,383	−0,001	**0**	0
			−3,519	0	−0,383	0	0	**0**
			1,733	0	0,383	0	0	**0**
			−0,017	0	−0,313	0	0	0
			−0,017	0	−0,313	0	0	0
235	12	80X 80X 5,0						
			−4,224	0	−0,383	−0,001	0	0
			12,395	0	−0,383	0	0	0
			−3,874	**0**	−0,383	0	0	0
			−4,114	**0**	−0,383	−0,001	0	0
			−0,042	0	**−0,418**	0	0	0
			−0,042	0	**0,418**	0	0	0
			−4,224	0	−0,383	**−0,001**	0	0
			6,589	0	−0,313	**0**	0	0
			−0,042	0	0	0	**−0,627**	0
			−4,224	0	−0,383	−0,001	**0**	0
			−4,114	0	0,383	−0,001	0	**0**
			−0,906	0	−0,313	−0,001	0	**0**
			−0,031	0	−0,313	0	0	0
			−0,031	0	−0,313	0	0	0
236	12	80X 80X 5,0						
			−4,220	0	−0,383	0,001	0	0
			12,394	0	−0,383	0	0	0
			−4,220	**0**	−0,383	0,001	0	0
			−0,642	**0**	−0,383	0	0	0
			−0,045	0	**−0,418**	0	0	0
			−0,045	0	**0,418**	0	0	0
			6,516	0	−0,313	**0**	0	0
			1,098	0	−0,383	**0,001**	0	0
			−0,045	0	0	0	**−0,627**	0
			−4,220	0	0,383	0,001	**0**	0
			−4,220	0	−0,383	0,001	0	**0**
			−4,220	0	0,383	0,001	0	**0**
			−0,034	0	−0,313	0	0	0
			−0,034	0	−0,313	0	0	0
237	12	80X 80X 5,0						
			−4,595	0	−0,383	0	0	0
			12,439	0	−0,383	0	0	0
			−4,404	**0**	−0,313	0,001	0	0
			−0,384	**0**	−0,383	0	0	0
			−0,031	0	**−0,418**	0	0	0
			−0,031	0	**0,418**	0	0	0
			−3,538	0	−0,383	**0**	0	0
			0,799	0	−0,313	**0,001**	0	0
			−0,031	0	0	0	**−0,627**	0
			−4,486	0	0,383	0,001	**0**	0
			−4,404	0	−0,313	0,001	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−4,404	0	0,313	0,001	0	**0**
			−0,024	0	−0,313	0	0	0
			−0,024	0	−0,313	0	0	0
238	12	80X 80X 5,0						
			−4,797	0	−0,383	0,001	0	0
			12,591	0	−0,383	−0,001	0	0
			−4,656	**0**	−0,313	0,002	0	0
			−0,022	**0**	−0,383	−0,003	0	0
			0,055	0	**−0,418**	−0,001	0	0
			0,055	0	**0,418**	−0,001	0	0
			2,098	0	−0,383	**−0,003**	0	0
			−4,656	0	−0,313	**0,002**	0	0
			0,055	0	0	−0,001	**−0,627**	0
			−4,797	0	0,383	0,001	**0**	0
			−0,022	0	0,383	−0,003	0	**0**
			−0,022	0	−0,383	−0,003	0	**0**
			0,041	0	−0,313	−0,001	0	0
			0,041	0	−0,313	−0,001	0	0
239	12	80X 80X 5,0						
			−33,141	0	−0,383	0,004	0	0
			6,300	0	−0,313	0,007	0	0
			−27,037	**0**	−0,313	−0,021	0	0
			−8,718	**0**	−0,383	−0,007	0	0
			−9,337	0	**−0,418**	0,009	0	0
			−9,337	0	**0,418**	0,009	0	0
			−14,979	0	−0,313	**−0,033**	0	0
			−11,968	0	−0,383	**0,024**	0	0
			−9,337	0	0	0,009	**−0,627**	0
			−25,514	0	−0,383	−0,020	**0**	0
			−27,037	0	−0,313	−0,021	0	**0**
			−8,718	0	−0,383	−0,007	0	**0**
			−7,003	0	−0,313	0,007	0	0
			−7,003	0	−0,313	0,007	0	0
240	14	U 320						
			0	0	−1,947	−0,073	0	0
			0	0	−1,593	−0,071	0	0
			0	**0**	−1,593	−0,030	0	0
			0	**0**	−1,947	−0,069	0	0
			0	0	**−2,124**	−0,043	0	0
			0	0	**2,124**	−0,043	0	0
			0	0	−1,947	**−0,081**	0	0
			0	0	−1,593	**−0,028**	0	0
			0	0	0	−0,043	**−3,187**	0
			0	0	1,947	−0,042	**0**	0
			0	0	1,947	−0,069	0	**0**
			0	0	−1,947	−0,069	0	**0**
			0	0	−1,593	−0,032	0	0
			0	0	−1,593	−0,032	0	0
241	14	U 320						
			0	0	−1,593	0	0	0
			0	0	−1,947	0,003	0	0
			0	**0**	−1,593	0	0	0
			0	**0**	−1,947	0,001	0	0
			0	0	**−2,124**	0,001	0	0
			0	0	**2,124**	0,001	0	0
			0	0	−1,593	**0**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	0	−1,947	**0,003**	0	0
			0	0	0	0,001	**−3,187**	0
			0	0	−1,947	0	**0**	0
			0	0	1,947	0,001	0	**0**
			0	0	−1,947	0,001	0	**0**
			0	0	−1,593	0,001	0	0
			0	0	−1,593	0,001	0	0
242	14	U 320						
			0	0	−1,947	0	0	0
			0	0	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	0	**−2,124**	0	0	0
			0	0	**2,124**	0	0	0
			0	0	−1,593	**0**	0	0
			0	0	−1,947	**0**	0	0
			0	0	0	0	**−3,187**	0
			0	0	−1,947	0	**0**	0
			0	0	−1,593	0	0	**0**
			0	0	1,593	0	0	**0**
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
243	14	U 320						
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	0	**−2,124**	0	0	0
			0	0	**2,124**	0	0	0
			0	0	−1,593	**0**	0	0
			0	0	−1,947	**0**	0	0
			0	0	0	0	**−3,187**	0
			0	0	1,593	0	**0**	0
			0	0	1,593	0	0	**0**
			0	0	−1,593	0	0	**0**
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
244	14	U 320						
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	**0**	−1,593	0	0	0
			0	0	**−2,124**	0	0	0
			0	0	**2,124**	0	0	0
			0	0	−1,593	**0**	0	0
			0	0	−1,947	**0**	0	0
			0	0	0	0	**−3,187**	0
			0	0	−1,947	0	**0**	0
			0	0	1,593	0	0	**0**
			0	0	−1,593	0	0	**0**
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
245	14	U 320						
			0	0	−1,947	0	0	0
			0	0	−1,593	0	0	0
			0	**0**	−1,593	0	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	**0**	−1,947	0	0	0
			0	0	**−2,124**	0	0	0
			0	0	**2,124**	0	0	0
			0	0	−1,947	**0**	0	0
			0	0	−1,947	**0**	0	0
			0	0	0	0	**−3,187**	0
			0	0	−1,593	0	**0**	0
			0	0	−1,593	0	0	**0**
			0	0	1,593	0	0	**0**
			0	0	−1,593	0	0	0
			0	0	−1,593	0	0	0
246	14	U 320						
			0	0	−1,593	−0,001	0	0
			0	0	−1,593	−0,001	0	0
			0	**0**	−1,593	0	0	0
			0	**0**	−1,593	−0,001	0	0
			0	0	**−2,124**	−0,001	0	0
			0	0	**2,124**	−0,001	0	0
			0	0	−1,947	**−0,003**	0	0
			0	0	−1,593	**0**	0	0
			0	0	0	−0,001	**−3,187**	0
			0	0	−1,947	−0,002	**0**	0
			0	0	1,593	−0,001	0	**0**
			0	0	−1,593	−0,001	0	**0**
			0	0	−1,593	−0,001	0	0
			0	0	−1,593	−0,001	0	0
247	14	U 320						
			0	0	−1,593	0,032	0	0
			0	0	−1,593	0,032	0	0
			0	**0**	−1,593	0,029	0	0
			0	**0**	−1,593	0,063	0	0
			0	0	**−2,124**	0,043	0	0
			0	0	**2,124**	0,043	0	0
			0	0	−1,593	**0,024**	0	0
			0	0	−2,124	**0,076**	0	0
			0	0	0	0,043	**−3,187**	0
			0	0	−1,947	0,076	**0**	0
			0	0	−1,593	0,029	0	**0**
			0	0	1,593	0,029	0	**0**
			0	0	−1,593	0,032	0	0
			0	0	−1,593	0,032	0	0
248	15	IPE 270						
			0	0	0,415	0,001	−2,307	0
			0	0	0,202	−0,003	−1,759	0
			0	**0**	−0,171	0	−1,082	0
			0	**0**	−0,150	−0,002	−0,925	0
			0	0	**−4,130**	0	10,117	0
			0	0	**3,236**	−0,010	−0,918	0
			0	0	2,073	**−0,012**	−8,706	0
			0	0	−0,700	**0,008**	0,147	0
			0	0	2,164	−0,011	**−8,852**	0
			0	0	−4,130	0	**10,117**	0
			0	0	0,824	−0,002	0,086	**0**
			0	0	−0,150	−0,002	−0,925	**0**
			0	0	−0,531	0,002	0,042	0
			0	0	−0,531	0,002	0,042	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
249	15	IPE 270						
			0	0	3,303	0,019	−1,178	0
			0	0	3,256	0,036	−1,137	0
			0	**0**	−0,736	0,027	0,605	0
			0	**0**	−0,711	0,026	0,713	0
			0	0	**−3,251**	0,034	−0,248	0
			0	0	**4,482**	0,036	10,335	0
			0	0	−0,234	**0,004**	−0,156	0
			0	0	3,138	**0,040**	−1,046	0
			0	0	−2,213	0,032	**−8,340**	0
			0	0	4,482	0,036	**10,335**	0
			0	0	−0,736	0,027	0,605	**0**
			0	0	0,455	0,027	0,184	**0**
			0	0	−0,267	0,011	−0,089	0
			0	0	−0,267	0,011	−0,089	0
250	15	IPE 270						
			0	0	2,003	−0,014	−7,803	0
			0	0	−3,416	−0,013	9,096	0
			0	**0**	−0,940	−0,030	0,779	0
			0	**0**	−0,869	−0,017	0,713	0
			0	0	**−3,694**	−0,028	9,307	0
			0	0	**3,026**	−0,017	−0,380	0
			0	0	−0,912	**−0,031**	0,746	0
			0	0	−0,829	**−0,008**	0,691	0
			0	0	2,003	−0,014	**−7,803**	0
			0	0	−3,694	−0,028	**9,307**	0
			0	0	0,321	−0,017	−0,109	**0**
			0	0	−0,869	−0,017	0,713	**0**
			0	0	−0,753	−0,011	0,585	0
			0	0	−0,753	−0,011	0,585	0
251	15	IPE 270						
			0	0	−0,169	0,013	−0,213	0
			0	0	−0,169	0,013	−0,213	0
			0	**0**	−0,221	0,031	−0,232	0
			0	**0**	−0,218	0,032	−0,254	0
			0	0	**−3,441**	0,017	0,258	0
			0	0	**4,092**	0,033	9,886	0
			0	0	−0,086	**0,010**	−0,336	0
			0	0	2,798	**0,034**	−0,476	0
			0	0	−2,429	0,014	**−8,440**	0
			0	0	4,092	0,033	**9,886**	0
			0	0	0,973	0,032	0,878	**0**
			0	0	−0,283	0,015	−0,062	**0**
			0	0	−0,169	0,013	−0,213	0
			0	0	−0,169	0,013	−0,213	0
252	15	IPE 270						
			0	0	−0,753	−0,012	0,637	0
			0	0	−0,753	−0,012	0,637	0
			0	**0**	−0,876	−0,014	0,722	0
			0	**0**	−0,905	−0,028	0,770	0
			0	0	**−3,707**	−0,029	9,249	0
			0	0	**3,152**	−0,017	−0,138	0
			0	0	−0,890	**−0,031**	0,744	0
			0	0	−0,830	**−0,009**	0,756	0
			0	0	2,130	−0,014	**−7,952**	0
			0	0	−3,707	−0,029	**9,249**	0
			0	0	0,285	−0,028	−0,160	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	0	−0,905	−0,028	0,770	**0**
			0	0	−0,753	−0,012	0,637	0
			0	0	−0,753	−0,012	0,637	0
253	15	IPE 270						
			0	0	2,549	0,017	−0,138	0
			0	0	2,679	0,012	−0,217	0
			0	**0**	−0,278	0,013	−0,166	0
			0	**0**	−0,184	0,010	−0,199	0
			0	0	**−3,302**	0,017	0,076	0
			0	0	**3,871**	0,029	9,532	0
			0	0	−0,132	**0,009**	−0,272	0
			0	0	−0,295	**0,031**	−0,141	0
			0	0	−2,280	0,014	**−8,189**	0
			0	0	3,871	0,029	**9,532**	0
			0	0	0,938	0,014	0,820	**0**
			0	0	0,913	0,013	0,787	**0**
			0	0	−0,207	0,012	−0,160	0
			0	0	−0,207	0,012	−0,160	0
254	15	IPE 270						
			0	0	−0,750	−0,012	0,622	0
			0	0	−0,750	−0,012	0,622	0
			0	**0**	−0,785	−0,010	0,677	0
			0	**0**	−0,724	−0,014	0,592	0
			0	0	**−3,761**	−0,029	9,318	0
			0	0	**3,220**	−0,017	−0,047	0
			0	0	−0,891	**−0,031**	0,730	0
			0	0	−0,828	**−0,009**	0,737	0
			0	0	2,197	−0,014	**−8,060**	0
			0	0	−3,761	−0,029	**9,318**	0
			0	0	−0,785	−0,010	0,677	**0**
			0	0	0,189	−0,010	−0,217	**0**
			0	0	−0,750	−0,012	0,622	0
			0	0	−0,750	−0,012	0,622	0
255	15	IPE 270						
			0	0	−0,205	0,012	−0,168	0
			0	0	−0,205	0,012	−0,168	0
			0	**0**	−0,241	0,012	−0,120	0
			0	**0**	−0,176	0,010	−0,217	0
			0	0	**−3,239**	0,017	−0,024	0
			0	0	**3,811**	0,029	9,447	0
			0	0	−0,125	**0,009**	−0,286	0
			0	0	−0,285	**0,031**	−0,159	0
			0	0	−2,217	0,014	**−8,099**	0
			0	0	3,811	0,029	**9,447**	0
			0	0	0,798	0,010	0,718	**0**
			0	0	−0,176	0,010	−0,217	**0**
			0	0	−0,205	0,012	−0,168	0
			0	0	−0,205	0,012	−0,168	0
256	15	IPE 270						
			0	0	−0,754	−0,012	0,633	0
			0	0	−0,754	−0,012	0,633	0
			0	**0**	−0,719	−0,011	0,586	0
			0	**0**	−0,895	−0,031	0,741	0
			0	0	**−3,782**	−0,029	9,361	0
			0	0	**3,241**	−0,017	−0,024	0
			0	0	−0,895	**−0,031**	0,741	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	0	−0,832	**−0,009**	0,749	0
			0	0	2,219	−0,014	**−8,104**	0
			0	0	−3,782	−0,029	**9,361**	0
			0	0	−0,885	−0,030	0,728	**0**
			0	0	0,255	−0,011	−0,109	**0**
			0	0	−0,754	−0,012	0,633	0
			0	0	−0,754	−0,012	0,633	0
257	15	IPE 270						
			0	0	−0,208	0,012	−0,168	0
			0	0	−0,208	0,012	−0,168	0
			0	**0**	−0,288	0,031	−0,159	0
			0	**0**	−0,229	0,012	−0,254	0
			0	0	**−3,217**	0,017	−0,047	0
			0	0	**3,790**	0,029	9,404	0
			0	0	−0,129	**0,009**	−0,286	0
			0	0	−0,288	**0,031**	−0,159	0
			0	0	−2,195	0,014	**−8,054**	0
			0	0	3,790	0,029	**9,404**	0
			0	0	0,961	0,012	0,844	**0**
			0	0	−0,288	0,017	−0,157	**0**
			0	0	−0,208	0,012	−0,168	0
			0	0	−0,208	0,012	−0,168	0
258	15	IPE 270						
			0	0	−3,624	−0,027	9,222	0
			0	0	2,282	−0,014	−8,194	0
			0	**0**	−0,905	−0,013	0,762	0
			0	**0**	−0,887	−0,031	0,731	0
			0	0	**−3,842**	−0,029	9,446	0
			0	0	**3,304**	−0,017	0,076	0
			0	0	−0,887	**−0,031**	0,731	0
			0	0	−0,825	**−0,009**	0,743	0
			0	0	2,282	−0,014	**−8,194**	0
			0	0	−3,842	−0,029	**9,446**	0
			0	0	−0,905	−0,013	0,762	**0**
			0	0	0,286	−0,013	−0,166	**0**
			0	0	−0,751	−0,012	0,632	0
			0	0	−0,751	−0,012	0,632	0
259	15	IPE 270						
			0	0	−0,206	0,012	−0,161	0
			0	0	−0,206	0,012	−0,161	0
			0	**0**	−0,288	0,031	−0,144	0
			0	**0**	−0,214	0,030	−0,258	0
			0	0	**−3,149**	0,017	−0,139	0
			0	0	**3,736**	0,029	9,334	0
			0	0	−0,127	**0,009**	−0,273	0
			0	0	−0,288	**0,031**	−0,144	0
			0	0	−2,127	0,014	**−7,946**	0
			0	0	3,736	0,029	**9,334**	0
			0	0	−0,288	0,031	−0,144	**0**
			0	0	0,902	0,031	0,777	**0**
			0	0	−0,206	0,012	−0,161	0
			0	0	−0,206	0,012	−0,161	0
260	15	IPE 270						
			0	0	−0,789	−0,013	0,694	0
			0	0	−0,789	−0,013	0,694	0
			0	**0**	−0,266	0,031	−0,211	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	**0**	−0,279	0,012	−0,268	0
			0	0	**−4,062**	−0,033	9,798	0
			0	0	**3,722**	0,028	9,392	0
			0	0	−3,968	**−0,034**	9,643	0
			0	0	−0,266	**0,031**	−0,211	0
			0	0	2,431	−0,014	**−8,445**	0
			0	0	−4,062	−0,033	**9,798**	0
			0	0	0,912	0,012	0,682	**0**
			0	0	−0,282	0,016	−0,166	**0**
			0	0	−0,789	−0,013	0,694	0
			0	0	−0,789	−0,013	0,694	0
261	15	IPE 270						
			0	0	−0,692	−0,011	0,525	0
			0	0	−0,692	−0,011	0,525	0
			0	**0**	−0,438	−0,012	0,228	0
			0	**0**	−0,591	−0,014	0,520	0
			0	0	**−4,455**	−0,036	10,250	0
			0	0	**3,272**	−0,034	−0,250	0
			0	0	−4,309	**−0,040**	10,094	0
			0	0	−0,736	**−0,004**	0,590	0
			0	0	2,227	−0,032	**−8,383**	0
			0	0	−4,425	−0,021	**10,290**	0
			0	0	0,383	−0,014	0,206	**0**
			0	0	−0,591	−0,014	0,520	**0**
			0	0	−0,692	−0,011	0,525	0
			0	0	−0,692	−0,011	0,525	0
262	15	IPE 270						
			0	0	−0,424	−0,002	−0,091	0
			0	0	−0,424	−0,002	−0,091	0
			0	**0**	−1,070	0	0,171	0
			0	**0**	−0,799	−0,001	0,079	0
			0	0	**−3,232**	0,010	−0,919	0
			0	0	**4,165**	0	10,221	0
			0	0	−0,482	**−0,008**	−0,170	0
			0	0	−3,031	**0,012**	−1,027	0
			0	0	−2,161	0,011	**−8,843**	0
			0	0	4,165	0	**10,221**	0
			0	0	0,175	−0,001	−0,858	**0**
			0	0	−0,799	−0,001	0,079	**0**
			0	0	−0,424	−0,002	−0,091	0
			0	0	−0,424	−0,002	−0,091	0
263	7	180X100X 5,6						
			−0,001	−0,894	−0,526	−0,032	0	0
			0	−1,093	1,578	−0,024	0	0
			0	**−1,192**	0	−0,023	0	0
			0	**1,192**	0	−0,023	0	0
			0	−0,894	**−3,590**	−0,079	0	0
			0	0,894	**3,152**	−0,079	0	0
			0	−1,093	−3,590	**−0,083**	0	0
			0	−0,894	2,893	**0,014**	0	0
			0	0	0,092	−0,079	**−4,198**	1,073
			0	0	0	0,012	**3,472**	1,073
			0	1,093	3,152	−0,082	0	**0**
			0	0	0	−0,023	0	**1,430**
			0	−0,894	0	−0,017	0	0
			0	−0,894	0	−0,017	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
264	7	180X100X 5,6						
			−0,001	−0,894	−1,315	0,012	0	0
			0	−1,093	−0,526	−0,011	0	0
			0	**−1,192**	0	0	0	0
			0	**1,192**	0	0	0	0
			0	0,894	**−2,893**	−0,036	0	0
			0	−0,894	**2,893**	−0,036	0	0
			0	−1,093	2,104	**−0,037**	0	0
			0	−1,093	−0,526	**0,045**	0	0
			−0,001	0	0	0,011	**−3,156**	1,073
			0	0	0	−0,036	**3,472**	1,073
			−0,001	1,093	2,630	0,011	0	**0**
			0	0	0	0	0	**1,430**
			0	−0,894	0	0	0	0
			0	−0,894	0	0	0	0
265	7	180X100X 5,6						
			0	−1,081	1,562	0,723	0	0
			0,001	−0,885	−1,979	−1,635	0	0
			0	**−1,180**	0	0,008	0	0
			0	**1,180**	0	0,008	0	0
			0	0,885	**−2,863**	1,577	0	0
			0	−0,885	**2,863**	1,577	0	0
			0	−0,885	−2,603	**−1,666**	0	0
			0	−1,081	2,863	**1,581**	0	0
			0	0	0	−1,661	**−3,091**	1,051
			0	0	0	1,577	**3,400**	1,051
			0	1,081	2,603	−1,662	0	**0**
			0	0	0	0,008	0	**1,401**
			0	−0,885	0	0,006	0	0
			0	−0,885	0	0,006	0	0
266	7	180X100X 5,6						
			0	−0,242	−0,356	−0,470	0	0
			0	−0,242	0,427	0,174	0	0
			0	**−0,323**	0	0,002	0	0
			0	**0,323**	0	0,002	0	0
			0	0,242	**−0,784**	0,373	0	0
			0	−0,242	**0,784**	0,373	0	0
			0	−0,296	−0,712	**−0,665**	0	0
			0	−0,296	0,784	**0,373**	0	0
			0	0	0	−0,014	**−0,232**	0,079
			0	0	0	0,373	**0,255**	0,079
			0	0,242	0,712	−0,014	0	**0**
			0	0	0	0,002	0	**0,105**
			0	−0,242	0	0,001	0	0
			0	−0,242	0	0,001	0	0
267	7	180X100X 5,6						
			0	−1,081	−1,064	0,359	0	0
			0	−0,885	1,562	0,014	0	0
			0	**−1,180**	0	−0,004	0	0
			0	**1,180**	0	−0,004	0	0
			0	0,885	**−2,863**	0,001	0	0
			0	−0,885	**2,863**	0,001	0	0
			0	−1,081	−0,521	**−0,024**	0	0
			0	−0,885	−2,365	**0,376**	0	0
			0	0	0	−0,005	**−3,091**	1,051
			0	0	0	0,001	**3,400**	1,051
			0	1,081	1,979	0,375	0	**0**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	0	0	−0,004	0	**1,401**
			0	−0,885	0	−0,003	0	0
			0	−0,885	0	−0,003	0	0
268	7	180X100X 5,6						
			0	−1,093	−0,526	0,207	0	0
			0	−0,894	−2,630	0,541	0	0
			0	**−1,192**	0	−0,003	0	0
			0	**1,192**	0	−0,003	0	0
			0	0,894	**−2,893**	−0,673	0	0
			0	−0,894	**2,893**	−0,673	0	0
			0	−1,093	2,893	**−0,676**	0	0
			0	−0,894	−2,630	**0,541**	0	0
			0	0	0	0,540	**−3,156**	1,073
			0	0	0	−0,673	**3,472**	1,073
			0	1,093	1,841	0,531	0	**0**
			0	0	0	−0,003	0	**1,430**
			0	−0,894	0	−0,002	0	0
			0	−0,894	0	−0,002	0	0
269	7	180X100X 5,6						
			0	−1,093	−1,837	0,573	0	0
			0	−0,894	1,578	−0,321	0	0
			0	**−1,192**	0	0,076	0	0
			0	**1,192**	0	0,076	0	0
			0	−0,894	**−3,152**	1,044	0	0
			0	0,894	**3,590**	1,044	0	0
			0	−0,894	2,893	**−0,809**	0	0
			0	−1,093	−3,152	**1,058**	0	0
			0	0	−0,092	1,044	**−4,198**	1,073
			0	0	0	−0,809	**3,472**	1,073
			0	1,093	0,526	0,267	0	**0**
			0	0	0	0,076	0	**1,430**
			0	−0,894	0	0,057	0	0
			0	−0,894	0	0,057	0	0
270	7	180X100X 5,6						
			−0,001	−1,093	0,526	0,040	0	0
			0	−0,894	−1,578	0,024	0	0
			0	**−1,192**	0	0,029	0	0
			0	**1,192**	0	0,029	0	0
			0	0,894	**−3,152**	0,081	0	0
			0	−0,894	**3,590**	0,081	0	0
			0	−0,894	−2,893	**−0,010**	0	0
			0	−1,093	3,590	**0,086**	0	0
			0	0	0	−0,010	**−3,472**	1,073
			0	0	−0,092	0,081	**4,198**	1,073
			−0,001	−1,093	0,526	0,039	0	**0**
			0	0	0	0,029	0	**1,430**
			0	−0,894	0	0,022	0	0
			0	−0,894	0	0,022	0	0
271	7	180X100X 5,6						
			−0,001	−1,093	1,315	−0,009	0	0
			0	−1,093	0,526	0,015	0	0
			0	**−1,192**	0	0,005	0	0
			0	**1,192**	0	0,005	0	0
			0	−0,894	**−2,893**	0,038	0	0
			0	0,894	**2,893**	0,038	0	0
			0	−0,894	1,315	**−0,041**	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	−1,093	−2,893	**0,042**	0	0
			0	0	0	0,038	**−3,472**	1,073
			−0,001	0	0	−0,009	**3,156**	1,073
			0	−1,093	0,526	0,015	0	**0**
			0	0	0	0,005	0	**1,430**
			0	−0,894	0	0,004	0	0
			0	−0,894	0	0,004	0	0
272	7	180X100X 5,6						
			0	−1,081	−1,562	−0,727	0	0
			0,001	−0,885	1,979	1,631	0	0
			0	**−1,180**	0	−0,012	0	0
			0	**1,180**	0	−0,012	0	0
			0	−0,885	**−2,863**	−1,578	0	0
			0	0,885	**2,863**	−1,578	0	0
			0	−1,081	−2,863	**−1,587**	0	0
			0	−0,885	2,603	**1,662**	0	0
			0	0	0	−1,578	**−3,400**	1,051
			0	0	0	1,658	**3,091**	1,051
			0,001	−1,081	0,678	0,774	0	**0**
			0	0	0	−0,012	0	**1,401**
			0	−0,885	0	−0,009	0	0
			0	−0,885	0	−0,009	0	0
273	7	180X100X 5,6						
			0	−0,242	0,356	0,469	0	0
			0	−0,242	−0,427	−0,175	0	0
			0	**−0,323**	0	−0,002	0	0
			0	**0,323**	0	−0,002	0	0
			0	−0,242	**−0,784**	−0,373	0	0
			0	0,242	**0,784**	−0,373	0	0
			0	−0,296	−0,784	**−0,374**	0	0
			0	−0,296	0,712	**0,664**	0	0
			0	0	0	−0,373	**−0,255**	0,079
			0	0	0	0,013	**0,232**	0,079
			0	−0,296	0,356	0,469	0	**0**
			0	0	0	−0,002	0	**0,105**
			0	−0,242	0	−0,002	0	0
			0	−0,242	0	−0,002	0	0
274	7	180X100X 5,6						
			0	−1,081	1,064	−0,359	0	0
			0	−0,885	−1,562	−0,014	0	0
			0	**−1,180**	0	0,004	0	0
			0	**1,180**	0	0,004	0	0
			0	−0,885	**−2,863**	−0,001	0	0
			0	0,885	**2,863**	−0,001	0	0
			0	−0,885	2,365	**−0,376**	0	0
			0	−1,081	0,521	**0,025**	0	0
			0	0	0	−0,001	**−3,400**	1,051
			0	0	0	0,005	**3,091**	1,051
			0	−1,081	1,301	0,020	0	**0**
			0	0	0	0,004	0	**1,401**
			0	−0,885	0	0,003	0	0
			0	−0,885	0	0,003	0	0
275	7	180X100X 5,6						
			0	−1,093	0,526	−0,207	0	0
			0	−0,894	2,630	−0,541	0	0
			0	**−1,192**	0	0,003	0	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			0	**1,192**	0	0,003	0	0
			0	−0,894	**−2,893**	0,673	0	0
			0	0,894	**2,893**	0,673	0	0
			0	−0,894	2,630	**−0,541**	0	0
			0	−1,093	−2,893	**0,677**	0	0
			0	0	0	0,673	**−3,472**	1,073
			0	0	0	−0,540	**3,156**	1,073
			0	−1,093	1,315	−0,217	0	**0**
			0	0	0	0,003	0	**1,430**
			0	−0,894	0	0,002	0	0
			0	−0,894	0	0,002	0	0
276	7	180X100X 5,6						
			0	−1,093	1,837	−0,573	0	0
			0	−0,894	−1,578	0,321	0	0
			0	**−1,192**	0	−0,075	0	0
			0	**1,192**	0	−0,075	0	0
			0	0,894	**−3,590**	−1,044	0	0
			0	−0,894	**3,152**	−1,044	0	0
			0	−1,093	3,152	**−1,059**	0	0
			0	−0,894	−2,893	**0,810**	0	0
			0	0	0	0,810	**−3,472**	1,073
			0	0	0,092	−1,044	**4,198**	1,073
			0	−1,093	1,837	−0,573	0	**0**
			0	0	0	−0,075	0	**1,430**
			0	−0,894	0	−0,056	0	0
			0	−0,894	0	−0,056	0	0
277	7	180X100X 5,6						
			−7,980	−1,751	17,984	−1,257	1,192	−0,373
			10,042	−2,004	−23,328	−1,241	−1,501	−0,395
			1,560	**−2,457**	−5,601	−2,591	−0,095	−0,457
			10,003	**−1,554**	−23,428	−0,899	−6,491	0,005
			10,026	−2,004	**−23,535**	−1,238	−1,386	−0,416
			−7,970	−1,750	**18,006**	−1,255	1,146	−0,351
			1,560	−2,457	−5,601	**−2,591**	−0,095	−0,457
			10,003	−1,601	−23,428	**−0,899**	−1,337	−0,342
			10,042	−1,947	−23,328	−1,241	**−6,634**	0,039
			−7,980	−1,705	17,984	−1,257	**5,149**	0,007
			5,201	−2,418	−14,343	−2,431	−0,612	**−0,467**
			0,256	−2,157	−2,105	−1,849	−0,769	**0,164**
			0,093	−1,813	−0,828	−1,521	−0,102	−0,336
			0,093	−1,813	−0,828	−1,521	−0,102	−0,336
278	7	180X100X 5,6						
			−18,006	−1,704	−7,970	−0,029	5,107	−1,255
			23,535	−1,947	10,026	−0,018	−6,564	−1,238
			5,601	**−2,400**	1,560	−0,077	−1,328	−2,591
			1,121	**2,569**	0,136	−0,097	0,390	−2,665
			23,428	2,139	**−10,380**	−0,005	−12,354	−2,651
			−17,031	2,419	**10,229**	−0,096	11,899	−2,559
			2,105	−2,157	0,256	**−0,164**	−0,769	−1,849
			−9,173	−1,667	−4,335	**0,012**	2,697	−1,098
			23,428	2,139	−10,380	−0,005	**−12,354**	−2,651
			−17,031	2,419	10,229	−0,096	**11,899**	−2,559
			23,328	2,566	−10,341	−0,039	−12,264	**−3,097**
			−8,926	0,197	0,626	−0,005	−2,918	**1,358**
			0,828	−1,767	0,093	−0,058	−0,284	−1,521
			0,828	−1,767	0,093	−0,058	−0,284	−1,521

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
279	7	180X100X 5,6						
			−1,689	−0,866	7,657	0,190	−1,160	−0,449
			2,037	−0,833	−4,918	−0,326	0,743	0,184
			1,186	**−1,096**	−2,690	−0,714	0,754	−0,073
			−0,805	**−0,547**	4,715	0,599	−0,113	0,184
			2,028	−1,011	**−5,550**	−0,376	0,837	0,106
			−1,674	−0,859	**7,808**	0,203	−1,245	−0,229
			1,186	−1,096	−2,690	**−0,714**	0,754	−0,073
			−0,805	−0,593	4,715	**0,599**	−1,151	0,059
			−1,674	−0,859	7,808	0,203	**−1,245**	−0,229
			2,028	−1,011	−5,550	−0,376	**0,837**	0,106
			−0,074	−0,985	1,813	−0,292	−0,170	**−0,568**
			2,037	−0,787	−4,918	−0,326	−0,339	**0,362**
			−0,029	−0,797	1,022	−0,220	−0,135	−0,279
			−0,029	−0,797	1,022	−0,220	−0,135	−0,279
280	7	180X100X 5,6						
			−7,808	−0,802	−1,674	0,046	0,473	0,203
			5,550	−0,954	2,028	−0,322	−0,385	−0,376
			2,690	**−1,039**	1,186	−0,162	0,162	−0,714
			−4,982	**1,523**	1,486	−0,161	1,930	−1,880
			5,550	1,283	**−2,728**	−0,322	−3,587	−1,363
			−7,029	1,198	**2,578**	−0,025	3,193	−1,440
			4,918	−0,787	2,037	**−0,362**	−0,339	−0,326
			−1,813	−0,928	−0,074	**0,357**	0,229	−0,292
			5,550	1,283	−2,728	−0,322	**−3,587**	−1,363
			−7,029	1,198	2,578	−0,025	**3,193**	−1,440
			−4,982	1,523	1,486	−0,161	1,930	**−1,880**
			−4,982	−0,043	−0,125	−0,161	−0,929	**1,230**
			−1,022	−0,750	−0,029	0,109	0,090	−0,220
			−1,022	−0,750	−0,029	0,109	0,090	−0,220
281	7	180X100X 5,6						
			−6,195	−2,033	19,661	−2,168	−0,063	−0,579
			7,688	−0,310	−24,852	2,606	0,318	−0,268
			3,899	**−3,095**	−11,987	−5,337	0,049	−0,848
			4,873	**−0,162**	−16,130	3,027	−3,214	−0,212
			7,688	−0,310	**−24,852**	2,606	0,318	−0,268
			−6,191	−2,029	**19,706**	−2,157	−0,086	−0,509
			3,899	−3,095	−11,987	**−5,337**	0,049	−0,848
			4,873	−0,208	−16,130	**3,027**	0,334	−0,252
			7,688	−0,263	−24,852	2,606	**−5,150**	−0,205
			−6,195	−1,976	19,661	−2,168	**4,263**	−0,138
			3,899	−3,095	−11,987	−5,337	0,049	**−0,848**
			−3,342	−1,740	10,801	−2,297	2,209	**0,050**
			−0,030	−1,524	0,099	−1,197	0,067	−0,463
			−0,030	−1,524	0,099	−1,197	0,067	−0,463
282	7	180X100X 5,6						
			−19,706	−1,972	−6,191	0,068	4,249	−2,157
			24,852	−0,263	7,688	0,205	−5,150	2,606
			11,987	**−3,039**	3,899	0,173	−2,588	−5,337
			16,089	**3,331**	−4,459	0,241	−5,601	−5,761
			24,675	3,226	**−7,965**	0,292	−9,611	−5,561
			−19,558	1,488	**7,707**	−0,044	8,797	−1,422
			−10,801	−1,740	−3,342	**−0,050**	2,209	−2,297
			−0,208	−1,819	−0,076	**0,352**	0,229	−1,501
			24,675	3,226	−7,965	0,292	**−9,611**	−5,561
			−19,558	1,488	7,707	−0,044	**8,797**	−1,422
			16,089	3,331	−4,459	0,241	−5,601	**−5,761**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			16,130	0,151	3,739	0,212	−0,630	**3,030**
			−0,099	−1,478	−0,030	0,132	0,089	−1,197
			−0,099	−1,478	−0,030	0,132	0,089	−1,197
283	7	180X100X 5,6						
			−14,429	−3,099	−13,004	−0,142	0,261	−0,758
			14,058	−4,140	17,236	6,790	0,244	−0,744
			0,006	**−4,362**	−0,596	0,109	0,466	−0,881
			−7,875	**−2,940**	−7,002	−0,314	−1,478	−0,004
			−14,423	−3,822	**−13,408**	−0,161	0,573	−0,833
			14,057	−3,412	**17,564**	6,792	0,020	−0,598
			9,169	−3,113	8,498	**−6,625**	−0,110	−0,685
			7,507	−4,247	11,470	**6,977**	0,293	−0,764
			−14,429	−3,053	−13,004	−0,142	**−2,600**	−0,081
			14,058	−4,083	17,236	6,790	**4,036**	0,161
			−14,427	−3,827	−13,176	−0,132	0,399	**−0,911**
			7,507	−4,190	11,470	6,977	2,816	**0,164**
			0,003	−3,271	−0,307	0,097	0,239	−0,660
			0,003	−3,271	−0,307	0,097	0,239	−0,660
284	7	180X100X 5,6						
			−6,554	−1,565	−6,722	0,037	6,197	−1,564
			7,440	−0,858	6,093	0,131	−5,575	1,229
			0,967	**−3,007**	1,184	0,169	−1,014	−5,204
			7,337	**2,968**	−6,491	0,074	−6,769	−5,101
			−6,253	−1,920	**−6,756**	0,137	6,304	−1,935
			−6,554	1,561	**7,141**	0,037	7,454	−1,552
			−3,750	−1,558	−3,659	**0,026**	3,355	−1,534
			0,566	−1,934	−0,066	**0,193**	0,208	−1,988
			7,440	2,963	−6,509	0,131	**−6,822**	−5,087
			−6,554	1,561	7,141	0,037	**7,454**	−1,552
			0,967	−3,007	1,184	0,169	−1,014	**−5,204**
			1,023	−0,156	−0,827	0,152	−0,162	**1,905**
			0,208	−1,577	−0,026	0,078	0,082	−1,611
			0,208	−1,577	−0,026	0,078	0,082	−1,611
285	7	180X100X 5,6						
			−19,022	−3,895	−16,396	0,222	0,186	−0,921
			18,717	−4,663	19,366	1,487	−0,567	−1,119
			0,207	**−5,109**	−2,340	0,144	−0,850	−1,310
			9,941	**−3,723**	14,862	1,409	2,998	−0,034
			−18,689	−4,750	**−18,250**	0,219	−0,141	−1,166
			18,593	−3,810	**21,091**	1,467	−0,388	−0,853
			3,790	−3,822	2,058	**−1,301**	−1,440	−1,033
			18,603	−4,660	20,682	**1,494**	−0,452	−1,062
			−18,818	−4,695	−18,105	0,230	**−4,256**	−0,172
			18,593	−3,764	21,091	1,467	**4,252**	−0,020
			0,207	−5,109	−2,340	0,144	−0,850	**−1,310**
			−10,238	−3,888	−10,087	0,265	−2,084	**−0,008**
			0,065	−3,828	−1,097	0,115	−0,474	−0,941
			0,065	−3,828	−1,097	0,115	−0,474	−0,941
286	7	180X100X 5,6						
			−1,422	−1,859	−8,785	0,018	8,189	−1,895
			7,556	−2,278	6,089	0,111	−6,669	−2,336
			6,186	**−2,506**	6,164	0,124	−6,956	−3,022
			0,484	**2,480**	−4,048	0,022	−3,830	−2,927
			−0,948	−1,858	**−8,837**	0,007	8,362	−1,893
			0,597	2,237	**9,541**	0,085	10,486	−2,212
			−0,948	−1,858	−8,837	**0,007**	8,362	−1,893

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			6,186	−2,506	6,164	**0,124**	−6,956	−3,022
			3,962	−2,040	8,376	0,060	**−8,570**	−1,611
			0,597	2,237	9,541	0,085	**10,486**	−2,212
			6,186	−2,506	6,164	0,124	−6,956	**−3,022**
			2,566	−0,013	0,210	0,060	0,042	**1,222**
			1,925	−1,856	0,158	0,045	−0,442	−1,882
			1,925	−1,856	0,158	0,045	−0,442	−1,882
287	7	180X100X 5,6						
			−4,471	−2,169	−7,423	0,412	−0,099	−0,259
			4,831	−2,552	4,061	−0,057	0,332	−0,874
			0,551	**−2,742**	−5,656	0,300	−0,032	−0,510
			1,336	**−1,896**	−7,161	0,483	−1,287	−0,078
			−4,078	−2,638	**−11,388**	0,466	−0,291	−0,589
			4,613	−2,093	**5,165**	−0,104	0,604	−0,780
			2,770	−2,003	3,367	**−0,259**	0,246	−0,613
			3,426	−2,491	−7,387	**0,680**	0,532	−0,762
			−4,078	−2,581	−11,388	0,466	**−2,797**	−0,015
			4,613	−2,047	5,165	−0,104	**1,740**	−0,325
			4,831	−2,552	4,061	−0,057	0,332	**−0,874**
			0,434	−2,448	−5,272	0,248	−1,026	**0,271**
			0,264	−2,056	−2,973	0,236	0,033	−0,376
			0,264	−2,056	−2,973	0,236	0,033	−0,376
288	7	180X100X 5,6						
			−2,082	−0,998	0,952	−0,035	−0,849	−1,173
			8,351	1,167	−0,657	0,105	0,613	−1,286
			3,900	**−1,242**	0,488	0,076	−1,471	−1,306
			2,601	**1,201**	0,313	0,051	0,934	−1,180
			−0,248	0,826	**−1,942**	−0,037	−1,892	−0,665
			3,580	1,090	**2,687**	0,061	3,755	−1,062
			−0,248	−1,004	1,894	**−0,037**	−1,748	−1,199
			6,466	−1,063	1,082	**0,108**	−2,579	−0,968
			8,312	−1,070	2,028	0,105	**−3,499**	−0,996
			3,580	1,090	2,687	0,061	**3,755**	−1,062
			1,489	−1,212	2,103	−0,003	−2,362	**−1,420**
			2,601	−0,019	0,313	0,051	−0,004	**0,591**
			1,951	−0,930	0,234	0,038	−0,706	−0,973
			1,951	−0,930	0,234	0,038	−0,706	−0,973
289	7	180X100X 5,6						
			−4,873	−2,264	−3,053	−0,049	−0,658	−0,433
			3,805	−1,863	−1,347	−0,476	0,526	−0,450
			−0,392	**−2,481**	−1,164	−0,034	−0,364	−0,491
			−2,893	**−1,797**	−2,683	−0,054	−1,205	0,049
			−4,873	−2,264	**−3,053**	−0,049	−0,658	−0,433
			2,176	−1,854	**0,375**	0,413	−1,072	−0,336
			3,536	−2,275	−2,117	**−0,486**	0,284	−0,507
			0,249	−1,861	0,128	**0,424**	−1,078	−0,335
			−0,041	−2,216	−0,720	0,412	**−1,531**	0,102
			3,033	−1,866	−1,446	−0,472	**0,526**	−0,449
			3,745	−2,277	−1,526	−0,481	0,477	**−0,532**
			−0,041	−2,216	−0,720	0,412	−1,531	**0,102**
			−0,294	−1,861	−0,873	−0,026	−0,273	−0,369
			−0,294	−1,861	−0,873	−0,026	−0,273	−0,369
290	7	180X100X 5,6						
			−0,487	−0,991	0,908	0,007	−0,717	−1,143
			8,830	−1,042	1,227	0,006	−0,863	−0,886
			5,677	**−1,219**	−0,125	0,004	0,491	−1,214

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			3,764	**1,221**	−0,080	0,003	−0,164	−1,222
			6,633	−1,117	**−2,186**	0,003	2,426	−1,111
			2,271	0,917	**2,128**	0,001	2,162	−0,918
			4,442	−0,913	−1,145	**0,001**	1,142	−0,907
			2,028	−1,194	0,849	**0,010**	−0,487	−1,344
			3,606	1,043	−2,032	0,009	**−2,113**	−0,892
			6,633	−1,117	−2,186	0,003	**2,426**	−1,111
			8,830	1,195	−1,458	0,006	−1,557	**−1,346**
			5,677	0,001	−0,125	0,004	0,117	**0,612**
			2,823	−0,914	−0,060	0,002	0,236	−0,911
			2,823	−0,914	−0,060	0,002	0,236	−0,911
291	7	180X100X 5,6						
			−18,630	−4,550	−5,142	−0,043	−0,113	−0,916
			16,460	−3,736	−1,132	1,343	0,277	−0,811
			−0,282	**−4,973**	−1,047	−0,028	−0,166	−1,032
			11,019	**−3,671**	−1,282	−1,401	−0,714	0,105
			−18,630	−4,550	**−5,142**	−0,043	−0,113	−0,916
			11,329	−3,725	**0,285**	−0,029	−0,168	−0,770
			10,970	−4,547	−1,474	**−1,407**	−0,463	−0,880
			8,218	−3,739	−1,745	**1,349**	0,289	−0,814
			−18,630	−4,494	−5,142	−0,043	**−1,244**	0,079
			8,218	−3,739	−1,745	1,349	**0,289**	−0,814
			−0,282	−4,973	−1,047	−0,028	−0,166	**−1,032**
			10,970	−4,490	−1,474	−1,407	−0,787	**0,114**
			−0,211	−3,730	−0,785	−0,021	−0,124	−0,774
			−0,211	−3,730	−0,785	−0,021	−0,124	−0,774
292	7	180X100X 5,6						
			1,716	−1,622	4,136	0,008	−4,034	−1,171
			8,665	−2,256	5,610	0,008	−5,203	−2,253
			7,825	**−2,483**	5,628	0,010	−5,278	−2,932
			3,399	**2,482**	−6,568	0,009	−6,384	−2,931
			5,739	−2,257	**−9,088**	0,006	9,241	−2,255
			1,920	1,847	**9,071**	0,001	9,120	−1,846
			1,920	−1,846	−9,011	**0,001**	8,939	−1,845
			4,181	−2,032	4,082	**0,013**	−3,828	−1,582
			5,925	2,482	−8,256	0,012	**−8,125**	−2,930
			5,739	−2,257	−9,088	0,006	**9,241**	−2,255
			7,140	−2,483	3,988	0,010	−3,647	**−2,932**
			5,365	0	−0,110	0,008	0,097	**1,233**
			2,710	−1,847	−0,054	0,004	0,208	−1,846
			2,710	−1,847	−0,054	0,004	0,208	−1,846
293	7	180X100X 5,6						
			−14,005	−3,173	−4,351	−0,022	0,196	−0,661
			12,822	−3,851	1,913	6,419	0,183	−0,699
			0,013	**−4,214**	−0,270	−0,051	0,236	−0,827
			6,459	**−3,095**	0,147	6,417	0,265	0,130
			−13,994	−3,870	**−4,678**	−0,051	0,432	−0,717
			8,916	−3,171	**2,357**	−0,028	0,068	−0,619
			2,550	−3,862	0,308	**−6,533**	0,299	−0,691
			12,813	−3,152	2,144	**6,441**	0,008	−0,613
			−14,005	−3,127	−4,351	−0,022	**−0,761**	0,032
			8,928	−3,812	2,053	−0,051	**0,747**	0,167
			0,013	−4,214	−0,270	−0,051	0,236	**−0,827**
			0,025	−3,801	−0,470	−0,075	0,331	**0,174**
			0,010	−3,160	−0,203	−0,038	0,177	−0,620
			0,010	−3,160	−0,203	−0,038	0,177	−0,620

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
294	7	180X100X 5,6						
			−2,203	−1,566	−6,865	0,005	6,694	−1,574
			5,526	−0,831	6,312	−0,011	−6,218	1,332
			1,688	**−2,994**	4,336	0,016	−4,158	−5,162
			4,330	**2,992**	−3,100	−0,016	−2,902	−5,151
			−1,658	−1,914	**−6,885**	0,013	6,765	−1,922
			−2,199	1,560	**6,998**	0,004	7,095	−1,555
			5,144	−0,483	6,329	**−0,018**	−6,272	1,681
			1,037	−1,914	−0,042	**0,018**	0,141	−1,921
			5,144	−0,483	6,329	−0,018	**−6,272**	1,681
			−2,199	1,560	6,998	0,004	**7,095**	−1,555
			1,688	−2,994	4,336	0,016	−4,158	**−5,162**
			4,235	0,144	1,945	−0,018	−0,129	**1,890**
			0,411	−1,565	−0,017	0,008	0,057	−1,567
			0,411	−1,565	−0,017	0,008	0,057	−1,567
295	7	180X100X 5,6						
			−13,915	−3,170	−1,278	−0,011	0,059	−0,690
			10,783	−3,879	6,810	6,466	−0,049	−0,836
			0,015	**−4,230**	0,164	−0,016	0,052	−0,915
			−7,581	**−3,122**	−0,617	−0,021	−0,065	0,010
			−13,915	−3,170	**−1,293**	−0,013	0,062	−0,689
			10,783	−3,879	**6,810**	6,466	−0,049	−0,836
			8,854	−3,875	1,445	**−6,497**	0,014	−0,834
			4,449	−3,176	6,158	**6,477**	−0,061	−0,688
			−13,915	−3,124	−1,278	−0,011	**−0,222**	0,003
			10,783	−3,823	6,810	6,466	**1,450**	0,011
			0,015	−4,230	0,164	−0,016	0,052	**−0,915**
			0,028	−3,820	0,316	−0,025	0,162	**0,016**
			0,011	−3,173	0,123	−0,012	0,039	−0,686
			0,011	−3,173	0,123	−0,012	0,039	−0,686
296	7	180X100X 5,6						
			−1,923	−0,484	1,354	−0,023	−1,597	1,672
			1,199	−1,911	4,390	0,001	−4,329	−1,914
			0,243	**−2,992**	4,368	0,004	−4,277	−5,156
			−1,637	**2,989**	−3,062	−0,023	−2,937	−5,146
			−0,532	−1,912	**−6,923**	0,001	6,898	−1,916
			−0,910	1,562	**6,946**	0,001	6,959	−1,561
			−1,556	−0,485	4,498	**−0,023**	−4,724	1,671
			−0,122	−2,992	1,223	**0,004**	−1,151	−5,155
			−1,556	−0,485	4,498	−0,023	**−4,724**	1,671
			−0,910	1,562	6,946	0,001	**6,959**	−1,561
			0,243	−2,992	4,368	0,004	−4,277	**−5,156**
			−0,187	−0,143	−0,792	0,004	−0,117	**1,883**
			0,288	−1,565	−0,006	0,001	0,022	−1,569
			0,288	−1,565	−0,006	0,001	0,022	−1,569
297	7	180X100X 5,6						
			−18,105	−3,740	−0,338	−0,001	−0,031	−0,817
			14,076	−4,571	5,799	1,346	0,819	−0,995
			0,087	**−4,987**	1,909	−0,005	−0,096	−1,084
			−9,877	**−3,693**	−0,182	−0,003	−0,067	0,001
			−18,105	−3,740	**−0,338**	−0,001	−0,031	−0,817
			14,076	−4,571	**5,799**	1,346	0,819	−0,995
			11,579	−4,571	4,158	**−1,359**	−0,473	−0,991
			5,807	−3,740	4,702	**1,348**	0,868	−0,817
			3,352	−4,571	4,022	−1,358	**−0,475**	−0,991
			14,076	−4,515	5,799	1,346	**2,095**	0,004
			0,057	−4,987	1,250	−0,004	−0,066	**−1,086**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			11,579	−4,515	4,158	−1,359	0,442	**0,008**
			0,043	−3,740	0,938	−0,003	−0,049	−0,815
			0,043	−3,740	0,938	−0,003	−0,049	−0,815
298	7	180X100X 5,6						
			−2,986	−1,622	1,724	0,008	−1,974	−1,173
			6,423	−2,258	−4,944	0,001	4,979	−2,260
			3,667	**−2,483**	5,700	0,002	−5,588	−2,937
			−1,628	**2,481**	−4,034	0,008	−3,969	−2,930
			4,799	−2,258	**−9,051**	0,001	9,082	−2,259
			2,258	1,846	**9,048**	0,001	9,055	−1,846
			2,152	−2,072	5,708	**0**	−5,624	−2,524
			−1,456	−2,033	1,712	**0,009**	−1,929	−1,585
			−1,401	−1,622	5,832	0,007	**−6,077**	−1,173
			4,799	−2,258	−9,051	0,001	**9,082**	−2,259
			3,667	−2,483	5,700	0,002	−5,588	**−2,937**
			2,363	−0,001	−0,014	0,001	0,014	**1,231**
			1,772	−1,847	−0,011	0,001	0,043	−1,848
			1,772	−1,847	−0,011	0,001	0,043	−1,848
299	7	180X100X 5,6						
			−4,231	−1,878	−0,102	0,003	−0,051	−0,408
			3,356	−2,295	1,769	−0,456	0,411	−0,498
			0,104	**−2,503**	1,922	0	−0,085	−0,541
			1,387	**−1,830**	0,841	−0,456	0,625	−0,001
			−4,231	−1,878	**−0,102**	0,003	−0,051	−0,408
			2,790	−2,295	**4,458**	0,454	−0,728	−0,494
			1,424	−1,877	1,513	**−0,456**	0,416	−0,408
			2,753	−2,295	3,753	**0,454**	−0,677	−0,495
			2,790	−2,295	4,458	0,454	**−0,728**	−0,494
			3,356	−2,238	1,769	−0,456	**0,800**	0
			0,067	−2,503	1,225	0,001	−0,056	**−0,542**
			2,790	−2,238	4,458	0,454	0,253	**0,005**
			0,050	−1,877	0,919	0,001	−0,042	−0,406
			0,050	−1,877	0,919	0,001	−0,042	−0,406
300	7	180X100X 5,6						
			−1,328	−0,991	0,377	0,009	−0,398	−1,144
			6,803	−1,119	−1,162	0	1,196	−1,120
			3,754	**−1,220**	−0,020	0,001	0,081	−1,222
			2,539	**1,220**	−0,013	0,001	−0,025	−1,220
			5,235	−1,119	**−2,121**	0	2,154	−1,120
			2,373	0,915	**2,115**	0	2,122	−0,915
			2,712	−0,840	1,339	**0**	−1,333	−0,689
			0,323	−1,195	0,367	**0,009**	−0,357	−1,347
			1,837	1,042	−1,360	0,009	**−1,420**	−0,889
			5,235	−1,119	−2,121	0	**2,154**	−1,120
			1,837	−1,195	1,325	0,009	−1,313	**−1,348**
			2,539	0	−0,013	0,001	0,013	**0,610**
			1,904	−0,915	−0,009	0	0,038	−0,916
			1,904	−0,915	−0,009	0	0,038	−0,916
301	7	180X100X 5,6						
			−13,894	−3,171	0,007	−0,001	0,005	−0,692
			8,861	−3,875	0,005	0,002	0,004	−0,847
			0,012	**−4,229**	0	−0,012	0,009	−0,924
			−7,570	**−3,123**	0,003	−0,002	0,004	0
			2,458	−3,173	**−1,532**	6,469	0,015	−0,715
			2,458	−3,173	**1,533**	−6,476	−0,010	−0,715
			2,467	−3,878	1,530	**−6,490**	−0,005	−0,869

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			6,248	−3,878	−1,530	**6,469**	0,015	−0,869
			8,772	−3,126	−1,531	6,469	**−0,323**	−0,022
			8,780	−3,820	1,528	−6,489	**0,332**	−0,022
			0,019	−4,229	0,001	−0,012	0,009	**−0,924**
			−13,893	−3,124	0,005	−0,002	0,005	**0**
			0,009	−3,172	0	−0,009	0,007	−0,693
			0,009	−3,172	0	−0,009	0,007	−0,693
302	7	180X100X 5,6						
			−1,923	−2,643	1,166	0,024	−1,034	−4,803
			1,193	−1,909	4,430	0,001	−4,448	−1,907
			−1,652	**−2,992**	1,170	0,026	−1,041	−5,157
			0,039	**2,989**	−4,373	−0,001	−4,295	−5,146
			−0,929	−1,562	**−6,948**	0,001	6,966	−1,562
			−0,528	1,911	**6,921**	0,001	6,893	−1,914
			−0,171	−0,485	3,185	**−0,001**	−3,257	1,670
			−1,431	−2,992	3,064	**0,026**	−2,938	−5,156
			−1,556	0,485	−4,499	0,024	**−4,725**	1,671
			−0,929	−1,562	−6,948	0,001	**6,966**	−1,562
			−1,652	−2,992	1,170	0,026	−1,041	**−5,157**
			−1,717	−0,144	−0,848	0,026	−0,269	**1,884**
			0,287	−1,564	0,004	0,002	−0,006	−1,567
			0,287	−1,564	0,004	0,002	−0,006	−1,567
303	7	180X100X 5,6						
			−18,094	−3,739	0,009	0	−0,005	−0,818
			11,567	−4,569	0,007	0,001	−0,004	−0,999
			0,031	**−4,985**	0,005	−0,003	−0,007	−1,090
			11,490	**−3,692**	−3,542	1,349	−0,282	0,008
			3,251	−3,738	**−3,560**	1,349	0,498	−0,810
			3,251	−3,738	**3,564**	−1,351	−0,502	−0,810
			3,273	−4,569	3,556	**−1,354**	−0,515	−0,991
			8,190	−4,569	−3,552	**1,350**	0,497	−0,992
			3,273	−4,569	3,556	−1,354	**−0,515**	−0,991
			3,251	−3,738	−3,560	1,349	**0,498**	−0,810
			0,031	−4,985	0,005	−0,003	−0,007	**−1,090**
			11,496	−4,512	−3,537	1,349	−0,282	**0,008**
			0,023	−3,739	0,004	−0,002	−0,005	−0,817
			0,023	−3,739	0,004	−0,002	−0,005	−0,817
304	7	180X100X 5,6						
			−2,988	−2,071	1,565	−0,007	−1,496	−2,521
			6,418	−2,256	−4,919	0	4,904	−2,256
			−1,466	**−2,482**	1,578	−0,006	−1,527	−2,932
			3,663	**2,482**	−5,698	0,001	−5,583	−2,934
			2,249	−1,846	**−9,047**	0,001	9,052	−1,846
			4,794	2,257	**9,052**	0	9,084	−2,259
			−1,403	−2,071	5,675	**−0,007**	−5,607	−2,520
			2,085	−2,032	1,698	**0,001**	−1,803	−1,582
			−1,403	1,622	−5,831	−0,007	**−6,076**	−1,173
			4,794	2,257	9,052	0	**9,084**	−2,259
			3,663	2,482	−5,698	0,001	−5,583	**−2,934**
			2,358	0	0,016	0,001	0,014	**1,231**
			1,768	−1,847	0,012	0,001	−0,026	−1,847
			1,768	−1,847	0,012	0,001	−0,026	−1,847
305	7	180X100X 5,6						
			−4,229	−1,876	−0,001	0	−0,005	−0,408
			2,737	−2,292	−0,004	0	−0,004	−0,498
			0,028	**−2,501**	0,005	0,001	−0,011	−0,543

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			2,711	**−1,829**	−2,531	−0,455	0,045	0,009
			2,716	−2,292	**−2,533**	−0,455	0,603	−0,489
			2,716	−2,292	**2,541**	0,456	−0,623	−0,489
			1,928	−1,875	−2,522	**−0,455**	0,595	−0,399
			0,797	−2,292	2,538	**0,456**	−0,628	−0,489
			0,797	−2,292	2,538	0,456	**−0,628**	−0,489
			2,716	−2,292	−2,533	−0,455	**0,603**	−0,489
			0,028	−2,501	0,005	0,001	−0,011	**−0,543**
			2,716	−2,235	−2,533	−0,455	0,046	**0,009**
			0,021	−1,876	0,003	0	−0,008	−0,407
			0,021	−1,876	0,003	0	−0,008	−0,407
306	7	180X100X 5,6						
			−1,330	−0,839	0,391	−0,008	−0,440	−0,686
			6,803	−1,118	−1,138	0	1,123	−1,118
			2,535	**−1,220**	0,016	0	−0,034	−1,219
			3,750	**1,221**	0,024	0	0,091	−1,222
			2,374	−0,915	**−2,113**	0	2,116	−0,915
			5,234	1,119	**2,122**	0	2,158	−1,120
			0,188	−0,839	1,349	**−0,008**	−1,395	−0,686
			2,848	−1,193	0,397	**0,001**	−0,415	−1,344
			1,830	−1,042	1,363	−0,008	**−1,429**	−0,889
			5,234	1,119	2,122	0	**2,158**	−1,120
			1,830	1,195	−1,322	−0,008	−1,304	**−1,348**
			2,535	0	0,016	0	0,013	**0,610**
			1,901	−0,915	0,012	0	−0,026	−0,914
			1,901	−0,915	0,012	0	−0,026	−0,914
307	7	180X100X 5,6						
			−13,916	−3,170	1,298	0,010	−0,048	−0,690
			10,783	−3,879	−6,811	−6,488	0,066	−0,836
			0,015	**−4,230**	−0,165	−0,008	−0,034	−0,915
			−7,581	**−3,122**	0,632	0,021	0,078	0,010
			10,783	−3,879	**−6,811**	−6,488	0,066	−0,836
			−13,916	−3,170	**1,307**	0,009	−0,054	−0,689
			4,460	−3,881	−6,269	**−6,496**	0,039	−0,836
			8,851	−3,170	−1,418	**6,476**	0,008	−0,681
			10,783	−3,823	−6,811	−6,488	**−1,432**	0,011
			−13,916	−3,124	1,298	0,010	**0,237**	0,003
			0,015	−4,230	−0,165	−0,008	−0,034	**−0,915**
			0,028	−3,820	−0,317	−0,008	−0,137	**0,016**
			0,011	−3,173	−0,124	−0,006	−0,025	−0,686
			0,011	−3,173	−0,124	−0,006	−0,025	−0,686
308	7	180X100X 5,6						
			−2,227	−1,560	−7,001	−0,002	7,103	−1,556
			5,526	−2,994	6,287	0,015	−6,143	−5,156
			4,618	**−2,996**	3,109	0,014	−2,924	−5,161
			1,409	**2,991**	−4,348	−0,009	−4,200	−5,151
			−2,227	−1,560	**−7,001**	−0,002	7,103	−1,556
			−1,679	1,914	**6,883**	−0,012	6,758	−1,920
			1,306	−1,908	1,307	**−0,015**	−1,379	−1,903
			4,235	−2,646	3,095	**0,019**	−2,888	−4,809
			5,143	0,483	−6,329	0,019	**−6,274**	1,682
			−2,227	−1,560	−7,001	−0,002	**7,103**	−1,556
			4,618	−2,996	3,109	0,014	−2,924	**−5,161**
			4,523	−0,147	−1,936	0,016	−0,108	**1,895**
			0,411	−1,564	0,015	−0,005	−0,037	−1,566
			0,411	−1,564	0,015	−0,005	−0,037	−1,566

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
309	7	180X100X 5,6						
			−18,107	−3,740	0,383	0,001	0,019	−0,817
			14,076	−4,571	−5,782	−1,351	−0,833	−0,995
			0,087	**−4,987**	−1,891	−0,001	0,080	−1,084
			−9,878	**−3,693**	0,215	0,002	0,066	0,001
			14,076	−4,571	**−5,782**	−1,351	−0,833	−0,995
			−18,107	−3,740	**0,383**	0,001	0,019	−0,817
			5,848	−4,571	−5,613	**−1,352**	−0,842	−0,996
			11,569	−3,740	−3,935	**1,354**	0,449	−0,810
			14,076	−4,515	−5,782	−1,351	**−2,105**	0,004
			11,578	−4,571	−4,139	1,354	**0,458**	−0,991
			0,057	−4,987	−1,234	−0,002	0,051	**−1,086**
			11,578	−4,515	−4,139	1,354	−0,452	**0,008**
			0,043	−3,740	−0,926	−0,001	0,038	−0,815
			0,043	−3,740	−0,926	−0,001	0,038	−0,815
310	7	180X100X 5,6						
			1,707	−2,072	4,084	−0,008	−3,878	−2,522
			8,631	−2,257	5,896	−0,007	−6,062	−2,256
			4,147	**−2,483**	4,139	−0,010	−3,998	−2,933
			6,046	**2,482**	−5,665	−0,006	−5,422	−2,930
			1,867	−1,847	**−9,072**	0	9,121	−1,847
			5,710	2,257	**9,088**	−0,005	9,241	−2,254
			5,901	−2,483	8,258	**−0,010**	−8,130	−2,933
			1,867	−1,847	−9,072	**0**	9,121	−1,847
			5,901	−2,483	8,258	−0,010	**−8,130**	−2,933
			5,710	2,257	9,088	−0,005	**9,241**	−2,254
			4,147	−2,483	4,139	−0,010	−3,998	**−2,933**
			5,341	−0,001	0,112	−0,005	0,096	**1,233**
			2,694	−1,847	0,055	−0,002	−0,118	−1,847
			2,694	−1,847	0,055	−0,002	−0,118	−1,847
311	7	180X100X 5,6						
			−4,232	−1,878	0,104	−0,003	0,042	−0,407
			3,356	−2,295	−1,758	0,457	−0,431	−0,498
			0,104	**−2,503**	−1,909	0,001	0,063	−0,541
			1,387	**−1,830**	−0,837	0,457	−0,631	−0,001
			2,790	−2,295	**−4,446**	−0,452	0,708	−0,494
			−4,232	−1,878	**0,104**	−0,003	0,042	−0,407
			2,753	−2,295	−3,752	**−0,454**	0,674	−0,495
			1,423	−1,877	−1,498	**0,458**	−0,440	−0,408
			3,356	−2,238	−1,758	0,457	**−0,817**	0
			2,790	−2,295	−4,446	−0,452	**0,708**	−0,494
			0,067	−2,503	−1,212	0	0,034	**−0,542**
			2,790	−2,238	−4,446	−0,452	−0,270	**0,005**
			0,050	−1,877	−0,909	0	0,026	−0,406
			0,050	−1,877	−0,909	0	0,026	−0,406
312	7	180X100X 5,6						
			−0,493	−0,839	1,011	−0,007	−1,026	−0,687
			8,816	−1,195	1,461	−0,005	−1,565	−1,346
			3,747	**−1,221**	0,082	−0,002	−0,172	−1,221
			5,659	**1,219**	0,127	−0,003	0,499	−1,215
			2,270	−0,917	**−2,126**	0	2,158	−0,918
			6,629	1,117	**2,187**	−0,003	2,429	−1,111
			3,588	−1,043	2,034	**−0,008**	−2,122	−0,891
			2,669	−0,917	−2,118	**0**	2,142	−0,918
			3,588	−1,043	2,034	−0,008	**−2,122**	−0,891
			6,629	1,117	2,187	−0,003	**2,429**	−1,111
			6,896	−1,195	1,417	−0,004	−1,475	**−1,346**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			5,659	−0,001	0,127	−0,003	0,117	**0,612**
			2,810	−0,916	0,062	−0,001	−0,129	−0,916
			2,810	−0,916	0,062	−0,001	−0,129	−0,916
313	7	180X100X 5,6						
			−14,006	−3,173	4,369	0,019	−0,185	−0,663
			12,822	−3,851	−1,922	−6,441	−0,164	−0,700
			0,013	**−4,214**	0,261	0,027	−0,217	−0,828
			6,459	**−3,095**	−0,159	−6,445	−0,244	0,128
			8,902	−3,171	**−2,352**	6,491	−0,042	−0,611
			−13,994	−3,870	**4,689**	0,046	−0,421	−0,719
			6,453	−3,145	−0,339	**−6,447**	−0,085	−0,609
			8,910	−3,870	−2,126	**6,508**	−0,196	−0,697
			8,927	−3,811	−2,029	0,056	**−0,732**	0,165
			−14,005	−3,128	4,289	0,017	**0,778**	0,022
			0,013	−4,214	0,261	0,027	−0,217	**−0,828**
			0,025	−3,801	0,458	0,042	−0,306	**0,172**
			0,010	−3,160	0,196	0,020	−0,163	−0,621
			0,010	−3,160	0,196	0,020	−0,163	−0,621
314	7	180X100X 5,6						
			−6,591	−1,561	−7,144	−0,033	7,463	−1,553
			7,448	−2,967	6,506	−0,126	−6,814	−5,098
			7,335	**−2,968**	6,490	−0,073	−6,767	−5,102
			0,980	**3,002**	−1,188	−0,162	−1,025	−5,188
			−6,591	−1,561	**−7,144**	−0,033	7,463	−1,553
			−6,294	1,920	**6,752**	−0,131	6,293	−1,935
			0,579	−1,892	0,062	**−0,185**	−0,178	−1,862
			−3,805	−1,568	−3,907	**−0,020**	4,097	−1,564
			7,448	−2,967	6,506	−0,126	**−6,814**	−5,098
			−6,591	−1,561	−7,144	−0,033	**7,463**	−1,553
			0,980	3,002	−1,188	−0,162	−1,025	**−5,188**
			3,741	0,147	2,802	−0,145	−0,396	**1,898**
			0,216	−1,552	0,024	−0,074	−0,069	−1,538
			0,216	−1,552	0,024	−0,074	−0,069	−1,538
315	7	180X100X 5,6						
			−18,634	−4,550	5,243	0,042	0,098	−0,914
			16,460	−3,736	1,142	−1,343	−0,279	−0,810
			−0,277	**−4,973**	1,016	0,023	0,150	−1,032
			11,020	**−3,672**	1,285	1,398	0,704	0,105
			11,324	−3,725	**−0,183**	0,029	0,156	−0,768
			−18,634	−4,550	**5,243**	0,042	0,098	−0,914
			8,219	−3,739	1,740	**−1,351**	−0,294	−0,814
			10,974	−4,547	1,463	**1,402**	0,447	−0,880
			8,219	−3,739	1,740	−1,351	**−0,294**	−0,814
			−18,634	−4,494	5,243	0,042	**1,252**	0,080
			−0,277	−4,973	1,016	0,023	0,150	**−1,032**
			10,974	−4,490	1,463	1,402	0,769	**0,114**
			−0,208	−3,730	0,762	0,017	0,113	−0,774
			−0,208	−3,730	0,762	0,017	0,113	−0,774
316	7	180X100X 5,6						
			−1,619	−1,835	−9,304	−0,019	9,739	−1,822
			7,331	−2,235	5,408	−0,113	−4,633	−2,207
			0,483	**−2,480**	4,051	−0,021	−3,840	−2,928
			6,176	**2,505**	−6,159	−0,122	−6,942	−3,019
			0,467	−2,237	**−9,545**	−0,086	10,493	−2,213
			−1,233	1,858	**8,826**	−0,010	8,320	−1,892
			6,340	−2,008	5,347	**−0,122**	−4,505	−1,528

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−1,233	−1,835	−9,256	**−0,010**	9,607	−1,824
			3,959	2,039	−8,370	−0,058	**−8,554**	−1,608
			0,467	−2,237	−9,545	−0,086	**10,493**	−2,213
			6,176	2,505	−6,159	−0,122	−6,942	**−3,019**
			2,576	0,012	−0,204	−0,058	0,042	**1,222**
			1,932	−1,838	−0,153	−0,043	0,491	−1,827
			1,932	−1,838	−0,153	−0,043	0,491	−1,827
317	7	180X100X 5,6						
			−4,873	−2,264	3,057	0,049	0,651	−0,433
			3,806	−1,863	1,345	0,476	−0,527	−0,450
			−0,386	**−2,481**	1,123	0,035	0,340	−0,492
			−2,894	**−1,797**	2,691	0,054	1,203	0,049
			2,176	−1,854	**−0,375**	−0,413	1,071	−0,336
			−4,873	−2,264	**3,057**	0,049	0,651	−0,433
			0,251	−1,861	−0,139	**−0,423**	1,071	−0,335
			3,542	−2,275	2,080	**0,487**	−0,306	−0,507
			1,876	−1,870	1,584	0,466	**−0,533**	−0,449
			−0,033	−2,216	0,666	−0,410	**1,486**	0,102
			3,746	−2,277	1,523	0,481	−0,479	**−0,532**
			−0,033	−2,216	0,666	−0,410	1,486	**0,102**
			−0,289	−1,861	0,843	0,026	0,255	−0,369
			−0,289	−1,861	0,843	0,026	0,255	−0,369
318	7	180X100X 5,6						
			−2,077	−0,832	0,969	0,035	−0,899	−0,676
			8,372	−1,167	0,665	−0,104	0,591	−1,286
			2,623	**−1,201**	−0,304	−0,049	0,909	−1,180
			3,921	**1,242**	−0,480	−0,075	−1,442	−1,306
			3,572	−1,090	**−2,686**	−0,062	3,753	−1,062
			−0,248	−0,826	**1,942**	0,038	−1,894	−0,665
			6,537	−1,173	−0,302	**−0,106**	1,575	−1,298
			−0,248	−0,826	1,942	**0,038**	−1,894	−0,665
			8,334	1,070	−2,020	−0,104	**−3,473**	−0,996
			3,572	−1,090	−2,686	−0,062	**3,753**	−1,062
			1,508	1,212	−2,095	0,005	−2,336	**−1,420**
			2,623	0,020	−0,304	−0,049	−0,002	**0,591**
			1,967	−0,900	−0,228	−0,037	0,682	−0,885
			1,967	−0,900	−0,228	−0,037	0,682	−0,885
319	7	180X100X 5,6						
			−14,429	−3,102	12,972	0,132	−0,233	−0,803
			14,058	−4,140	−17,243	−6,814	−0,227	−0,750
			0,006	**−4,363**	0,588	−0,134	−0,446	−0,889
			−7,875	**−2,944**	7,070	0,318	1,437	−0,064
			14,057	−3,412	**−17,567**	−6,795	−0,017	−0,602
			−14,424	−3,825	**13,372**	0,150	−0,542	−0,884
			7,507	−4,247	−11,474	**−6,991**	−0,283	−0,768
			9,169	−3,114	−8,505	**6,611**	0,123	−0,693
			14,058	−4,084	−17,243	−6,814	**−4,021**	0,154
			−14,429	−3,056	12,972	0,132	**2,621**	−0,126
			−14,428	−3,830	13,224	0,128	−0,429	**−0,953**
			7,507	−4,190	−11,474	−6,991	−2,807	**0,160**
			0,004	−3,272	0,303	−0,115	−0,226	−0,664
			0,004	−3,272	0,303	−0,115	−0,226	−0,664
320	7	180X100X 5,6						
			−19,707	−1,852	−7,675	−0,034	8,700	−1,796
			24,853	−2,863	7,939	−0,200	−9,533	−5,194
			16,098	**−3,333**	4,458	−0,235	−5,596	−5,768

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			12,001	**3,034**	−3,902	−0,159	−2,596	−5,325
			−19,563	−1,491	**−7,711**	0,093	8,808	−1,433
			24,691	−3,230	**7,962**	−0,280	−9,604	−5,574
			−0,186	−2,008	0,072	**−0,336**	−0,216	−2,067
			−10,807	−1,389	−4,224	**0,100**	4,855	−1,243
			24,691	−3,230	7,962	−0,280	**−9,604**	−5,574
			−19,563	−1,491	−7,711	0,093	**8,808**	−1,433
			16,098	−3,333	4,458	−0,235	−5,596	**−5,768**
			16,135	−0,153	−3,740	−0,207	−0,632	**3,034**
			−0,088	−1,652	0,028	−0,125	−0,083	−1,718
			−0,088	−1,652	0,028	−0,125	−0,083	−1,718
321	7	180X100X 5,6						
			−18,967	−3,892	16,409	−0,214	−0,290	−0,877
			18,714	−4,662	−19,376	−1,491	0,546	−1,111
			0,205	**−5,108**	2,342	−0,149	0,822	−1,300
			9,940	**−3,722**	−14,865	−1,410	−3,007	−0,030
			18,595	−3,810	**−21,091**	−1,466	0,381	−0,850
			−18,664	−4,748	**18,256**	−0,216	0,089	−1,144
			18,606	−4,660	−20,683	**−1,494**	0,444	−1,058
			3,786	−3,822	−2,056	**1,295**	1,412	−1,023
			18,595	−3,763	−21,091	−1,466	**−4,259**	−0,017
			−18,775	−4,693	18,116	−0,224	**4,176**	−0,138
			0,205	−5,108	2,342	−0,149	0,822	**−1,300**
			−10,198	−3,886	10,097	−0,260	2,012	**0,023**
			0,062	−3,828	1,097	−0,118	0,457	−0,935
			0,062	−3,828	1,097	−0,118	0,457	−0,935
322	7	180X100X 5,6						
			−18,225	−1,987	−10,079	−0,006	11,428	−2,102
			23,518	−2,566	10,360	0,015	−12,300	−3,095
			1,115	**−2,569**	−0,132	0,090	0,379	−2,666
			5,591	**2,400**	−1,557	0,072	−1,319	−2,591
			−17,260	−2,417	**−10,195**	0,060	11,788	−2,552
			23,413	−2,138	**10,382**	0,002	−12,361	−2,651
			−9,385	−2,024	−5,496	**−0,045**	6,175	−2,168
			2,112	−2,358	−0,253	**0,156**	0,761	−2,453
			23,413	−2,138	10,382	0,002	**−12,361**	−2,651
			−17,260	−2,417	−10,195	0,060	**11,788**	−2,552
			23,335	−2,567	10,343	0,033	−12,270	**−3,098**
			−8,516	−0,197	−0,674	0,023	−2,906	**1,358**
			0,835	−1,926	−0,092	0,054	0,270	−1,998
			0,835	−1,926	−0,092	0,054	0,270	−1,998
323	7	180X100X 5,6						
			−4,479	−2,169	7,412	−0,412	0,139	−0,259
			4,819	−2,552	−4,066	0,058	−0,343	−0,869
			0,538	**−2,742**	5,630	−0,299	0,025	−0,506
			1,332	**−1,896**	7,153	−0,483	1,285	−0,078
			4,611	−2,093	**−5,167**	0,104	−0,603	−0,780
			−4,084	−2,638	**11,379**	−0,466	0,308	−0,589
			3,425	−2,491	7,383	**−0,680**	−0,529	−0,761
			2,755	−2,003	−3,372	**0,260**	−0,261	−0,608
			4,611	−2,047	−5,167	0,104	**−1,739**	−0,324
			−4,084	−2,581	11,379	−0,466	**2,811**	−0,014
			4,819	−2,552	−4,066	0,058	−0,343	**−0,869**
			0,430	−2,448	5,264	−0,248	1,025	**0,272**
			0,254	−2,056	2,953	−0,236	−0,039	−0,373
			0,254	−2,056	2,953	−0,236	−0,039	−0,373

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
324	7	180X100X 5,6						
			−7,806	−1,435	−2,551	−0,047	3,105	−1,696
			5,574	−1,283	2,724	0,319	−3,573	−1,362
			−4,992	**−1,523**	−1,494	0,160	1,951	−1,880
			2,726	**1,039**	−1,191	0,158	0,150	−0,713
			−7,036	−1,199	**−2,585**	0,024	3,214	−1,440
			5,448	−1,042	**2,724**	0,344	−3,559	−1,092
			−1,747	−1,309	0,068	**−0,361**	−0,195	−1,433
			4,920	−1,043	2,718	**0,362**	−3,486	−1,095
			5,574	−1,283	2,724	0,319	**−3,573**	−1,362
			−7,036	−1,199	−2,585	0,024	**3,214**	−1,440
			−4,992	−1,523	−1,494	0,160	1,951	**−1,880**
			−4,966	0,051	0,127	−0,091	−0,920	**1,230**
			−0,986	−1,080	0,026	−0,111	−0,074	−1,208
			−0,986	−1,080	0,026	−0,111	−0,074	−1,208
325	7	180X100X 5,6						
			−6,191	−2,029	−19,666	2,158	0,077	−0,523
			7,688	−0,309	24,853	−2,607	−0,317	−0,263
			3,902	**−3,091**	12,001	5,325	−0,044	−0,833
			4,874	**−0,160**	16,135	−3,031	3,217	−0,207
			−6,188	−2,026	**−19,707**	2,149	0,095	−0,473
			7,688	−0,309	**24,853**	−2,607	−0,317	−0,263
			4,874	−0,206	16,135	**−3,031**	−0,333	−0,247
			3,902	−3,091	12,001	**5,325**	−0,044	−0,833
			−6,191	−1,972	−19,666	2,158	**−4,249**	−0,083
			7,688	−0,263	24,853	−2,607	**5,151**	−0,200
			3,902	−3,091	12,001	5,325	−0,044	**−0,833**
			−3,338	−1,737	−10,807	2,288	−2,197	**0,100**
			−0,028	−1,521	−0,088	1,187	−0,064	−0,454
			−0,028	−1,521	−0,088	1,187	−0,064	−0,454
326	7	180X100X 5,6						
			−8,011	−1,753	−18,189	1,263	−1,235	−0,406
			10,040	−2,004	23,335	1,240	1,492	−0,401
			1,557	**−2,457**	5,591	2,591	0,088	−0,462
			10,017	**−1,554**	23,220	0,901	6,553	0,021
			−8,003	−1,753	**−18,225**	1,261	−1,191	−0,386
			10,023	−2,004	**23,518**	1,239	1,382	−0,420
			10,001	−1,601	23,413	**0,899**	1,333	−0,345
			1,557	−2,457	5,591	**2,591**	0,088	−0,462
			−8,011	−1,707	−18,189	1,263	**−5,237**	−0,026
			10,040	−1,947	23,335	1,240	**6,626**	0,033
			−4,350	−2,118	−9,249	1,442	−0,699	**−0,491**
			0,253	−2,156	2,112	1,846	0,759	**0,156**
			0,092	−1,813	0,835	1,519	0,097	−0,340
			0,092	−1,813	0,835	1,519	0,097	−0,340
327	7	180X100X 5,6						
			−1,680	−0,867	−7,804	−0,187	1,220	−0,482
			2,038	−0,833	4,920	0,326	−0,741	0,184
			1,191	**−1,096**	2,726	0,713	−0,750	−0,077
			−0,798	**−0,546**	−4,725	−0,600	0,135	0,184
			−1,668	−0,858	**−7,806**	−0,204	1,261	−0,230
			2,032	−1,011	**5,574**	0,375	−0,833	0,103
			−0,798	−0,593	−4,725	**−0,600**	1,175	0,058
			1,191	−1,096	2,726	**0,713**	−0,750	−0,077
			2,032	−1,011	5,574	0,375	**−0,833**	0,103
			−1,668	−0,858	−7,806	−0,204	**1,261**	−0,230
			−0,068	−0,984	−1,747	0,290	0,171	**−0,572**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			2,038	−0,787	4,920	0,326	0,342	**0,362**
			−0,026	−0,797	−0,986	0,219	0,135	−0,281
			−0,026	−0,797	−0,986	0,219	0,135	−0,281
328	7	180X100X 5,6						
			−5,080	−1,752	15,513	−1,616	0,004	−0,654
			6,380	−0,199	−19,781	2,576	−0,005	−0,293
			3,228	**−2,947**	−9,807	−5,330	−0,003	−1,162
			4,071	**−0,128**	−12,729	2,674	−2,803	−0,239
			6,380	−0,199	**−19,781**	2,576	−0,005	−0,293
			−5,080	−1,752	**15,513**	−1,616	0,004	−0,654
			3,228	−2,947	−9,807	**−5,330**	−0,003	−1,162
			4,071	−0,175	−12,729	**2,674**	−0,003	−0,272
			6,380	−0,152	−19,781	2,576	**−4,357**	−0,254
			−5,080	−1,695	15,513	−1,616	**3,417**	−0,275
			3,228	−2,947	−9,807	−5,330	−0,003	**−1,162**
			0	−1,358	0	−1,200	0	**−0,216**
			0	−1,404	0	−1,199	0	−0,523
			0	−1,404	0	−1,199	0	−0,523
329	7	180X100X 5,6						
			−8,771	−1,782	6,324	−1,415	6,577	0,007
			10,883	−1,598	−8,527	−0,841	−7,826	0,062
			0	**−2,395**	0	−1,967	0	0,037
			10,883	**−1,524**	−8,527	−0,753	−9,702	0,856
			10,883	−1,598	**−8,527**	−0,841	−7,826	0,062
			−8,771	−1,782	**6,324**	−1,415	6,577	0,007
			1,594	−2,391	−1,061	**−2,421**	−1,213	0,045
			10,883	−1,570	−8,527	**−0,753**	−7,826	0,515
			10,883	−1,552	−8,527	−0,841	**−9,702**	0,408
			−8,771	−1,735	6,324	−1,415	**7,968**	0,394
			−8,771	−1,782	6,324	−1,414	6,577	**0,004**
			5,582	−2,084	−4,024	−1,621	−5,071	**1,076**
			0	−1,796	0	−1,475	0	0,027
			0	−1,796	0	−1,475	0	0,027
330	7	180X100X 5,6						
			−2,928	−1,139	9,499	−0,323	−0,172	−0,347
			3,444	−0,919	−3,595	−0,177	−0,444	0,098
			−0,052	**−1,250**	2,188	−0,365	−0,201	−0,625
			2,048	**−0,864**	−0,474	−0,127	−0,144	0,104
			3,444	−0,919	**−3,595**	−0,177	−0,444	0,098
			−2,928	−1,139	**9,499**	−0,323	−0,172	−0,347
			1,983	−1,162	−2,575	**−0,488**	−0,914	−0,255
			2,048	−0,910	−0,474	**−0,127**	−0,040	−0,091
			1,999	−0,902	−2,980	−0,414	**−1,545**	0,120
			−2,924	−1,093	9,435	−0,341	**1,920**	−0,407
			−0,019	−1,156	1,501	−0,352	−0,158	**−0,869**
			3,444	−0,873	−3,595	−0,177	−1,234	**0,296**
			−0,012	−0,933	1,016	−0,265	−0,134	−0,410
			−0,012	−0,933	1,016	−0,265	−0,134	−0,410
331	7	180X100X 5,6						
			−11,909	−2,844	−10,141	−0,069	0,011	−0,237
			11,593	−3,044	14,111	6,659	−0,010	−0,452
			0	**−3,867**	0	0,039	0	−0,598
			7,577	**−2,678**	6,592	−6,633	1,443	0,421
			−11,909	−3,505	**−10,141**	−0,014	0,011	−0,544
			11,593	−3,044	**14,111**	6,659	−0,010	−0,452
			7,577	−2,725	6,592	**−6,633**	−0,007	−0,173

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			6,180	−3,714	9,501	**6,704**	−0,005	−0,575
			−11,909	−2,798	−10,141	−0,062	**−2,220**	0,387
			11,593	−3,615	14,110	6,608	**3,095**	0,453
			0	−3,867	0	0,039	0	**−0,598**
			7,578	−3,430	6,453	−0,054	1,413	**0,544**
			0	−2,900	0	0,029	0	−0,448
			0	−2,900	0	0,029	0	−0,448
332	7	180X100X 5,6						
			−18,347	−3,851	−6,044	0,228	0,767	−1,155
			17,754	−3,871	9,019	1,241	−0,056	−1,176
			0	**−5,145**	0	0,344	0	−1,992
			3,336	**−3,767**	1,250	−0,880	0,107	−0,429
			−18,347	−3,851	**−6,044**	0,228	0,767	−1,155
			17,754	−3,871	**9,019**	1,241	−0,056	−1,176
			3,336	−3,813	1,250	**−0,880**	−0,168	−1,263
			17,754	−4,750	9,019	**1,367**	−0,056	−1,837
			−18,347	−3,805	−6,044	0,228	**−0,563**	−0,312
			17,754	−3,824	9,019	1,241	**1,928**	−0,329
			11,676	−4,751	3,846	0,364	−0,488	**−2,015**
			−18,347	−3,804	−6,044	0,229	−0,563	**−0,304**
			0	−3,838	0	0,194	0	−1,194
			0	−3,838	0	0,194	0	−1,194
333	7	180X100X 5,6						
			−7,273	−2,906	−3,800	0,362	0,549	−0,002
			6,722	−2,469	8,208	0,115	0,899	−0,681
			−0,139	**−3,193**	1,017	0,401	0,214	−0,314
			4,421	**−2,266**	1,356	0,527	−0,209	0,053
			−7,137	−2,402	**−5,186**	0,318	0,328	−0,425
			6,643	−2,988	**9,330**	0,190	1,056	−0,587
			6,722	−2,469	8,208	**0,115**	0,899	−0,681
			1,257	−2,849	0,051	**0,606**	−0,393	−0,311
			1,376	−2,287	−1,649	0,528	**−0,834**	0,101
			6,643	−2,931	9,330	0,190	**3,109**	0,064
			6,697	−3,002	8,379	0,182	0,937	**−0,732**
			−0,277	−2,843	2,150	0,342	0,827	**0,801**
			−0,104	−2,395	0,763	0,301	0,160	−0,236
			−0,104	−2,395	0,763	0,301	0,160	−0,236
334	7	180X100X 5,6						
			−15,513	−1,695	−5,080	0,275	3,417	−1,616
			19,781	−0,152	6,380	0,254	−4,357	2,576
			9,807	**−2,890**	3,228	0,520	−2,160	−5,330
			12,729	**2,995**	−3,633	0,287	−4,485	−5,287
			19,780	2,952	**−6,529**	0,533	−7,800	−5,187
			19,781	−0,152	**6,380**	0,254	−4,357	2,576
			0	−1,358	0	**0,216**	0	−1,200
			9,872	−1,711	3,233	**0,600**	−2,175	−1,656
			19,780	2,952	−6,529	0,533	**−7,800**	−5,187
			−15,513	1,393	6,372	0,449	**7,293**	−1,349
			9,807	−2,890	3,228	0,520	−2,160	**−5,330**
			12,729	−0,128	4,071	0,239	−2,803	**2,674**
			0	−1,358	0	0,219	0	−1,199
			0	−1,358	0	0,219	0	−1,199
335	7	180X100X 5,6						
			−6,324	−1,735	−8,771	−0,394	7,968	−1,415
			8,527	−1,552	10,883	−0,408	−9,702	−0,841
			1,061	**−2,335**	1,594	−0,565	−1,447	−2,421

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			0	**2,619**	0	−1,006	0	−2,822
			8,527	2,141	**−9,500**	−0,408	−10,286	−2,607
			8,527	−1,552	**10,883**	−0,408	−9,702	−0,841
			4,024	−2,084	5,582	**−1,076**	−5,071	−1,621
			5,652	−1,564	6,896	**−0,386**	−6,080	−0,889
			8,527	2,141	−9,500	−0,408	**−10,286**	−2,607
			−6,324	1,958	9,311	−0,394	**9,588**	−2,082
			8,527	2,601	−9,500	−0,946	−10,286	**−3,145**
			0	0,157	0	−1,006	0	**1,343**
			0	−1,750	0	−0,417	0	−1,475
			0	−1,750	0	−0,417	0	−1,475
336	7	180X100X 5,6						
			−9,499	−1,082	−2,928	0,103	1,917	−0,323
			3,595	−0,873	3,444	−0,296	−1,234	−0,177
			−2,188	**−1,188**	−0,052	0,357	0,280	−0,365
			−1,354	**1,689**	−0,016	0,280	0,022	−1,873
			2,514	1,558	**−4,069**	−0,172	−4,780	−1,695
			−8,105	1,262	**3,756**	0,321	4,337	−1,385
			3,595	−0,873	3,444	**−0,296**	−1,234	−0,177
			−1,501	−1,100	−0,019	**0,621**	0,172	−0,352
			2,744	1,276	−4,066	−0,219	**−4,783**	−1,383
			−8,328	1,544	3,754	0,368	**4,341**	−1,698
			−1,354	1,689	−0,016	0,280	0,022	**−1,873**
			−2,188	−0,039	−0,052	0,357	0,155	**1,108**
			−1,016	−0,887	−0,012	0,210	0,090	−0,265
			−1,016	−0,887	−0,012	0,210	0,090	−0,265
337	7	180X100X 5,6						
			−11,573	−2,845	−3,289	−0,015	0,004	−0,582
			10,576	−2,831	1,653	6,389	−0,002	−0,577
			0	**−3,791**	0	−0,039	0	−0,760
			5,315	**−2,782**	0,158	6,388	0,034	0,041
			−11,573	−3,476	**−3,289**	−0,020	0,004	−0,710
			7,361	−2,859	**2,288**	−6,405	−0,003	−0,604
			2,100	−3,488	0,793	**−6,470**	−0,001	−0,707
			8,471	−2,830	1,055	**6,392**	−0,002	−0,576
			−11,573	−2,799	−3,289	−0,013	**−0,719**	0,057
			7,361	−3,434	2,288	−6,434	**0,501**	0,054
			0	−3,790	0	−0,037	0	**−0,787**
			−11,573	−3,420	−3,289	−0,021	−0,719	**0,076**
			0	−2,843	0	−0,028	0	−0,590
			0	−2,843	0	−0,028	0	−0,590
338	7	180X100X 5,6						
			−18,086	−3,739	−0,258	0,005	0,044	−0,894
			16,465	−3,737	−1,887	0,996	0,221	−0,897
			0	**−4,985**	0	0,004	0	−1,221
			11,509	**−3,684**	0,251	−1,009	0,011	−0,037
			8,244	−3,739	**−2,005**	1,000	0,241	−0,899
			11,509	−3,730	**0,251**	−1,009	−0,044	−0,853
			11,509	−4,561	0,251	**−1,009**	−0,044	−1,048
			8,244	−4,571	−2,005	**1,005**	0,241	−1,147
			8,244	−3,692	−2,005	1,000	**−0,200**	−0,082
			8,244	−3,739	−2,005	1,000	**0,241**	−0,899
			0	−4,985	0	0,004	0	**−1,221**
			11,509	−3,684	0,164	−0,014	0,008	**−0,025**
			0	−3,737	0	−0,002	0	−0,877
			0	−3,737	0	−0,002	0	−0,877

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
339	7	180X100X 5,6						
			−6,500	−2,192	−0,663	0,004	0,162	−0,554
			6,539	−2,694	−1,662	−0,337	1,387	−0,817
			0,354	**−2,934**	0,032	0,034	0,340	−0,794
			4,150	**−2,140**	1,232	0,348	−0,775	−0,022
			3,492	−2,208	**−2,217**	−0,330	1,413	−0,695
			4,343	−2,682	**1,365**	0,378	−0,882	−0,685
			6,367	−2,199	−1,618	**−0,364**	1,218	−0,632
			1,342	−2,684	0,899	**0,390**	−0,818	−0,686
			4,150	−2,186	1,232	0,348	**−1,046**	−0,498
			3,530	−2,696	−2,198	−0,329	**1,450**	−0,817
			6,539	−2,694	−1,662	−0,337	1,387	**−0,817**
			4,237	−2,141	0,349	−0,022	0,025	**−0,010**
			0,165	−2,194	0,066	0,007	0,155	−0,548
			0,165	−2,194	0,066	0,007	0,155	−0,548
340	7	180X100X 5,6						
			−5,372	−1,719	−5,537	0,054	5,073	−1,733
			5,670	−0,348	5,065	0,042	−4,706	1,742
			0,878	**−2,786**	1,001	0,062	−0,906	−4,921
			5,670	**2,765**	−5,346	0,049	−5,551	−4,886
			−5,372	−1,719	**−5,537**	0,054	5,073	−1,733
			−5,372	1,397	**5,915**	0,062	6,207	−1,389
			3,418	−1,403	3,523	**0,017**	−3,228	−1,406
			−5,372	−1,718	−5,537	**0,083**	5,073	−1,730
			5,670	2,762	−5,346	0,081	**−5,551**	−4,875
			−5,372	1,397	5,915	0,062	**6,207**	−1,389
			0,878	−2,786	1,001	0,062	−0,906	**−4,921**
			0,972	0,050	−0,873	0,054	−0,560	**1,937**
			0	−1,409	0	0,034	0	−1,430
			0	−1,409	0	0,034	0	−1,430
341	7	180X100X 5,6						
			−0,620	−1,682	4,146	−0,081	−4,255	−1,359
			0,268	1,672	−5,757	−0,041	−5,761	−1,335
			0	**−2,465**	0	−0,084	0	−2,480
			0	**2,460**	0	−0,140	0	−2,468
			−0,280	−1,847	**−9,037**	−0,082	9,025	−1,854
			−0,280	1,846	**9,045**	−0,082	9,051	−1,852
			−0,280	−2,256	−9,037	**−0,157**	9,025	−2,264
			0,178	−1,855	5,751	**−0,026**	−5,743	−1,884
			−0,492	−1,683	8,254	−0,079	**−8,357**	−1,366
			−0,280	1,846	9,045	−0,082	**9,051**	−1,852
			0,104	−2,432	5,750	−0,055	−5,741	**−2,797**
			0	−0,003	0	−0,084	0	**1,222**
			0	−1,849	0	−0,063	0	−1,860
			0	−1,849	0	−0,063	0	−1,860
342	7	180X100X 5,6						
			−8,135	−1,371	1,073	−0,236	−0,188	−1,498
			3,207	1,125	−1,925	−0,027	−1,693	−1,238
			−2,371	**−1,442**	−0,155	−0,102	0,460	−1,472
			−4,150	**1,439**	−0,248	−0,168	−0,753	−1,461
			−5,723	−1,310	**−3,566**	−0,199	4,027	−1,311
			−2,994	1,071	**3,245**	−0,082	3,073	−1,075
			−6,816	−1,373	2,573	**−0,237**	−1,671	−1,505
			0,550	−1,090	2,097	**−0,012**	−2,082	−1,131
			−6,816	1,260	−3,454	−0,237	**−4,312**	−1,164
			−5,723	−1,310	−3,566	−0,199	**4,027**	−1,311
			−5,009	−1,382	2,665	−0,170	−1,940	**−1,533**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			−4,150	0,003	−0,248	−0,168	−0,010	**0,702**
			−1,778	−1,081	−0,116	−0,076	0,345	−1,104
			−1,778	−1,081	−0,116	−0,076	0,345	−1,104
343	7	180X100X 5,6						
			−11,503	−2,849	−1,079	−0,008	0,001	−0,619
			8,897	−2,850	5,203	6,417	0,002	−0,620
			0	**−3,799**	0	−0,025	0	−0,824
			7,308	**−2,801**	1,088	−6,420	0,238	0,002
			−11,503	−3,482	**−1,079**	−0,010	0,001	−0,756
			8,897	−2,850	**5,203**	6,417	0,002	−0,620
			2,079	−3,481	0,598	**−6,477**	0	−0,755
			6,805	−3,483	5,007	**6,422**	0,002	−0,757
			−11,503	−2,802	−1,079	−0,006	**−0,236**	0,004
			8,897	−3,427	5,203	6,400	**1,147**	0,005
			0	−3,799	0	−0,024	0	**−0,826**
			−11,503	−3,425	−1,079	−0,010	−0,236	**0,005**
			0	−2,849	0	−0,018	0	−0,619
			0	−2,849	0	−0,018	0	−0,619
344	7	180X100X 5,6						
			−18,082	−3,739	−0,021	0,001	0,003	−0,823
			13,973	−3,739	2,802	0,994	1,359	−0,822
			0	**−4,986**	0	−0,002	0	−1,096
			5,753	**−3,693**	2,792	0,995	1,974	−0,008
			−18,082	−4,570	**−0,021**	0,002	0,003	−1,008
			13,973	−3,739	**2,802**	0,994	1,359	−0,822
			3,287	−4,571	0,067	**−1,005**	−0,011	−1,007
			10,685	−4,570	2,798	**0,996**	1,359	−1,004
			11,506	−3,740	0,076	−0,997	**−0,013**	−0,821
			13,973	−3,693	2,802	0,994	**1,975**	−0,004
			0	−4,986	0	−0,002	0	**−1,099**
			11,507	−3,694	0,013	−0,001	0,001	**−0,002**
			0	−3,739	0	−0,002	0	−0,822
			0	−3,739	0	−0,002	0	−0,822
345	7	180X100X 5,6						
			−6,737	−2,691	−2,231	0,013	0,081	−0,601
			5,063	−2,203	−0,997	−0,386	1,166	−0,487
			−0,084	**−2,936**	−1,806	0,013	0,075	−0,652
			4,216	**−2,153**	1,650	0,382	−0,670	−0,004
			−6,737	−2,691	**−2,231**	0,013	0,081	−0,601
			4,216	−2,199	**1,650**	0,382	−1,033	−0,483
			5,063	−2,203	−0,997	**−0,386**	1,166	−0,487
			1,152	−2,689	0,394	**0,395**	−0,970	−0,596
			4,216	−2,199	1,650	0,382	**−1,033**	−0,483
			1,999	−2,693	−2,176	−0,377	**1,228**	−0,600
			−0,084	−2,936	−1,806	0,013	0,075	**−0,652**
			4,216	−2,155	0,055	0	−0,021	**−0,002**
			−0,038	−2,202	−0,810	0,006	0,033	−0,485
			−0,038	−2,202	−0,810	0,006	0,033	−0,485
346	7	180X100X 5,6						
			−2,083	−1,714	−5,658	0,005	5,487	−1,715
			4,017	−0,330	5,229	0,001	−5,190	1,813
			0,189	**−2,792**	1,019	0,008	−0,972	−4,952
			3,639	**2,784**	−4,128	0,002	−3,974	−4,925
			−2,083	−1,714	**−5,658**	0,005	5,487	−1,715
			−2,083	1,400	**5,794**	0,003	5,895	−1,398
			4,017	−0,330	5,229	**0,001**	−5,190	1,813

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			0	−1,717	0	**0,009**	0	−1,726
			4,017	−0,330	5,229	0,001	**−5,190**	1,813
			−2,083	1,400	5,794	0,005	**5,895**	−1,398
			0,189	−2,792	1,019	0,008	−0,972	**−4,952**
			0,189	0,042	−0,855	0,006	−0,528	**1,944**
			0	−1,404	0	0,004	0	−1,408
			0	−1,404	0	0,004	0	−1,408
347	7	180X100X 5,6						
			−0,023	−1,847	−9,040	−0,005	9,038	−1,847
			1,395	−1,681	8,280	0,001	−8,343	−1,350
			0	**−2,463**	0	−0,008	0	−2,465
			0	**2,462**	0	−0,005	0	−2,461
			−0,023	−1,847	**−9,040**	−0,005	9,038	−1,847
			−0,023	1,846	**9,042**	−0,005	9,042	−1,847
			−0,023	−2,257	−9,040	**−0,010**	9,038	−2,259
			1,385	−1,681	4,171	**0,001**	−4,234	−1,350
			1,395	−1,681	8,280	0,001	**−8,343**	−1,350
			−0,023	1,846	9,042	−0,005	**9,042**	−1,847
			0,007	−2,424	1,643	−0,007	−1,642	**−2,759**
			0	−0,001	0	−0,005	0	**1,230**
			0	−1,847	0	−0,004	0	−1,848
			0	−1,847	0	−0,004	0	−1,848
348	7	180X100X 5,6						
			−5,936	−1,377	1,589	−0,006	−1,822	−1,498
			1,975	−1,014	2,225	−0,004	−2,467	−0,890
			−2,459	**−1,434**	0,064	−0,008	−0,245	−1,428
			−4,182	**1,439**	0,107	−0,013	0,235	−1,445
			−2,331	−1,075	**−3,255**	−0,006	3,089	−1,070
			−5,163	1,319	**3,450**	−0,015	3,614	−1,326
			−4,348	−1,314	−1,684	**−0,015**	1,336	−1,311
			−2,995	−1,140	3,032	**0**	−3,088	−1,265
			−5,153	−1,378	3,086	−0,006	**−3,291**	−1,501
			−5,163	1,319	3,450	−0,015	**3,614**	−1,326
			−1,083	1,382	−0,421	−0,011	−0,118	**−1,514**
			−2,459	0,002	0,064	−0,008	−0,052	**0,719**
			−1,844	−1,075	0,048	−0,006	−0,184	−1,071
			−1,844	−1,075	0,048	−0,006	−0,184	−1,071
349	7	180X100X 5,6						
			−11,485	−2,848	0	−0,007	0	−0,622
			7,309	−2,848	0	−0,009	0	−0,621
			0	**−3,798**	0	−0,024	0	−0,829
			−11,485	**−2,802**	0	−0,009	0	0
			2,028	−3,481	**−1,234**	6,408	0,002	−0,762
			7,249	−2,849	**1,234**	−6,418	−0,001	−0,624
			2,028	−3,481	1,234	**−6,475**	−0,001	−0,762
			5,160	−3,481	−1,234	**6,419**	0,001	−0,762
			7,249	−2,802	−1,234	6,414	**−0,270**	−0,002
			2,028	−3,425	1,234	−6,475	**0,270**	−0,002
			0	−3,798	0	−0,024	0	**−0,829**
			2,088	−3,425	0	−0,012	0	**0**
			0	−2,848	0	−0,018	0	−0,622
			0	−2,848	0	−0,018	0	−0,622
350	7	180X100X 5,6						
			−18,082	−3,740	0	−0,001	0	−0,818
			11,507	−3,739	0	−0,001	0	−0,818
			0	**−4,986**	0	−0,004	0	−1,090

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			11,446	**−3,693**	1,348	−0,998	0,128	0,005
			8,158	−3,739	**−1,348**	0,998	0,169	−0,813
			8,158	−3,739	**1,348**	−0,999	−0,169	−0,813
			3,227	−4,570	1,348	**−1,007**	−0,169	−0,994
			8,158	−4,570	−1,348	**0,998**	0,169	−0,994
			8,158	−3,739	1,348	−0,999	**−0,169**	−0,813
			8,158	−3,739	−1,348	0,998	**0,169**	−0,813
			0	−4,986	0	−0,004	0	**−1,090**
			11,446	−4,513	−1,348	0,995	−0,128	**0,005**
			0	−3,740	0	−0,003	0	−0,818
			0	−3,740	0	−0,003	0	−0,818
351	7	180X100X 5,6						
			−6,684	−2,691	−0,014	0,001	−0,006	−0,586
			4,217	−2,200	−0,029	0,001	−0,002	−0,479
			−0,042	**−2,935**	−0,001	0,001	−0,007	−0,639
			4,149	**−2,153**	−2,327	−0,388	0,510	0,007
			4,149	−2,199	**−2,327**	−0,388	1,021	−0,471
			4,149	−2,199	**2,321**	0,389	−1,023	−0,471
			1,113	−2,201	−2,291	**−0,389**	1,012	−0,472
			1,109	−2,690	2,284	**0,392**	−1,030	−0,578
			1,109	−2,690	2,284	0,392	**−1,030**	−0,578
			4,145	−2,689	−2,324	−0,388	**1,023**	−0,578
			−0,042	−2,935	−0,001	0,001	−0,007	**−0,639**
			4,127	−2,633	−2,303	−0,388	0,510	**0,008**
			−0,019	−2,201	−0,001	0,001	−0,005	−0,479
			−0,019	−2,201	−0,001	0,001	−0,005	−0,479
352	7	180X100X 5,6						
			−1,642	−0,644	1,120	0,002	−1,326	1,491
			0,639	−1,403	3,633	0,001	−3,601	−1,406
			−0,408	**−2,792**	1,016	0,003	−0,972	−4,950
			−1,368	**2,782**	−2,528	−0,001	−2,423	−4,922
			−1,004	−1,714	**−5,709**	0,001	5,659	−1,718
			−1,004	1,400	**5,743**	0,001	5,759	−1,398
			−1,186	−0,332	3,715	**−0,001**	−3,899	1,806
			0	−1,718	0	**0,004**	0	−1,730
			−1,186	−0,332	3,715	−0,001	**−3,899**	1,806
			−1,004	1,400	5,743	0,001	**5,759**	−1,398
			−0,408	−2,792	1,016	0,003	−0,972	**−4,950**
			−0,408	0,043	−0,858	0,003	−0,545	**1,942**
			0	−1,404	0	0,002	0	−1,411
			0	−1,404	0	0,002	0	−1,411
353	7	180X100X 5,6						
			−1,408	−1,681	1,706	0,005	−1,889	−1,349
			0,001	−1,847	5,753	0	−5,753	−1,847
			0	**−2,463**	0	0,001	0	−2,463
			0	**2,462**	0	0,001	0	−2,460
			−0,002	−1,847	**−9,041**	0	9,041	−1,846
			−0,002	1,846	**9,041**	0	9,041	−1,846
			−0,059	−2,013	5,752	**0**	−5,751	−2,346
			−1,407	−2,091	4,171	**0,006**	−4,355	−1,760
			−1,407	−1,681	5,815	0,005	**−5,999**	−1,349
			−0,002	1,846	9,041	0	**9,041**	−1,846
			−0,059	−2,425	1,643	0,001	−1,642	**−2,760**
			0	0	0	0,001	0	**1,231**
			0	−1,847	0	0	0	−1,848
			0	−1,847	0	0	0	−1,848

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
354	7	180X100X 5,6						
			−3,760	−1,381	0,574	0,008	−0,578	−1,509
			0,325	−1,013	2,222	0	−2,447	−0,885
			−1,380	**−1,435**	0,014	0	−0,053	−1,434
			−2,376	**1,437**	0,022	0	0,047	−1,438
			−1,355	−1,077	**−3,302**	0	3,264	−1,075
			−2,933	1,317	**3,343**	0	3,375	−1,318
			0,117	−1,013	1,620	**0**	−1,848	−0,884
			−3,254	−1,381	2,078	**0,008**	−2,075	−1,510
			−0,962	−1,251	2,235	0	**−2,496**	−1,121
			−2,933	1,317	3,343	0	**3,375**	−1,318
			−1,477	1,382	−0,474	0	−0,231	**−1,513**
			−2,376	0,001	0,022	0	−0,020	**0,719**
			−1,035	−1,077	0,010	0	−0,040	−1,075
			−1,035	−1,077	0,010	0	−0,040	−1,075
355	7	180X100X 5,6						
			−11,503	−2,849	1,079	−0,007	−0,001	−0,619
			8,897	−2,850	−5,203	−6,438	−0,002	−0,618
			0	**−3,799**	0	−0,025	0	−0,824
			7,308	**−2,801**	−1,088	6,415	−0,238	0,002
			8,897	−3,483	**−5,203**	−6,447	−0,002	−0,755
			−11,503	−2,849	**1,079**	−0,006	−0,001	−0,619
			3,668	−3,483	−4,713	**−6,478**	−0,002	−0,755
			5,216	−3,481	−0,892	**6,420**	0,001	−0,757
			8,897	−2,804	−5,203	−6,422	**−1,147**	0,002
			−11,503	−3,425	1,079	−0,009	**0,236**	0,003
			0	−3,799	0	−0,025	0	**−0,826**
			0	−3,426	0	−0,034	0	**0,005**
			0	−2,849	0	−0,019	0	−0,619
			0	−2,849	0	−0,019	0	−0,619
356	7	180X100X 5,6						
			−18,082	−3,739	0,021	−0,003	−0,003	−0,823
			13,973	−3,739	−2,802	−0,995	−1,359	−0,822
			0	**−4,986**	0	−0,005	0	−1,096
			5,753	**−3,693**	−2,792	−1,004	−1,974	−0,008
			13,973	−3,739	**−2,802**	−0,995	−1,359	−0,822
			−18,082	−3,739	**0,021**	−0,003	−0,003	−0,825
			5,753	−4,570	−2,792	**−1,006**	−1,360	−1,008
			8,219	−3,740	−0,073	**0,997**	0,012	−0,821
			13,973	−3,693	−2,802	−0,995	**−1,975**	−0,004
			11,506	−3,740	−0,076	0,996	**0,013**	−0,821
			0	−4,986	0	−0,006	0	**−1,099**
			11,507	−3,694	−0,013	−0,002	−0,001	**−0,001**
			0	−3,739	0	−0,004	0	−0,822
			0	−3,739	0	−0,004	0	−0,822
357	7	180X100X 5,6						
			−6,736	−2,691	2,190	−0,012	−0,093	−0,601
			5,063	−2,203	0,990	0,386	−1,167	−0,487
			−0,084	**−2,936**	1,807	−0,010	−0,089	−0,652
			4,216	**−2,153**	−1,658	−0,382	0,667	−0,004
			4,216	−2,199	**−1,658**	−0,382	1,032	−0,483
			−6,736	−2,691	**2,190**	−0,012	−0,093	−0,601
			1,152	−2,689	−0,396	**−0,391**	0,952	−0,596
			5,063	−2,203	0,990	**0,386**	−1,167	−0,487
			1,998	−2,693	2,176	0,381	**−1,246**	−0,600
			4,216	−2,199	−1,658	−0,382	**1,032**	−0,483
			−0,084	−2,936	1,807	−0,010	−0,089	**−0,652**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			4,217	−2,155	−0,126	0,002	0,003	**−0,002**
			−0,038	−2,202	0,808	−0,004	−0,043	−0,485
			−0,038	−2,202	0,808	−0,004	−0,043	−0,485
358	7	180X100X 5,6						
			−1,642	−2,473	0,962	0,002	−0,852	−4,617
			0,639	−1,714	3,654	0,002	−3,665	−1,719
			−1,642	**−2,792**	0,962	0,006	−0,852	−4,950
			−0,134	**2,782**	−2,573	0,001	−2,516	−4,922
			−1,004	−1,714	**−5,743**	0,001	5,759	−1,717
			−1,004	1,400	**5,709**	0,001	5,659	−1,399
			0	−1,402	0	**0**	0	−1,403
			−1,642	−2,792	0,962	**0,006**	−0,852	−4,950
			−1,186	0,638	−3,715	0,003	**−3,899**	1,509
			−1,004	−1,714	−5,743	0,001	**5,759**	−1,717
			−1,642	−2,792	0,962	0,006	−0,852	**−4,950**
			−1,642	0,043	−0,912	0,005	−0,717	**1,942**
			0	−1,404	0	0,002	0	−1,410
			0	−1,404	0	0,002	0	−1,410
359	7	180X100X 5,6						
			−1,408	−2,013	1,582	−0,005	−1,519	−2,346
			0,001	−1,847	5,753	0	−5,753	−1,847
			0	**−2,463**	0	0,001	0	−2,464
			0	**2,461**	0	0,001	0	−2,460
			−0,002	−1,847	**−9,041**	0	9,041	−1,847
			−0,002	1,846	**9,041**	0	9,041	−1,845
			−1,407	−2,012	5,692	**−0,005**	−5,629	−2,345
			−0,059	−2,091	1,645	**0,001**	−1,647	−1,758
			−1,407	1,681	−5,815	−0,005	**−5,999**	−1,349
			−0,002	−1,847	−9,041	0	**9,041**	−1,847
			−1,408	−2,424	1,582	−0,004	−1,519	**−2,760**
			0	−0,001	0	0,001	0	**1,231**
			0	−1,847	0	0	0	−1,848
			0	−1,847	0	0	0	−1,848
360	7	180X100X 5,6						
			−3,761	−1,251	0,634	−0,007	−0,759	−1,120
			0,329	−1,141	1,998	0	−1,774	−1,270
			−2,376	**−1,437**	−0,020	0	0,040	−1,437
			−1,378	**1,436**	−0,011	0	−0,046	−1,435
			−2,918	−1,317	**−3,340**	0	3,366	−1,318
			−1,351	1,077	**3,303**	0	3,268	−1,076
			−2,231	−1,251	2,150	**−0,008**	−2,282	−1,121
			−1,473	−1,381	0,477	**0,001**	−0,240	−1,511
			−0,952	1,252	−2,232	0,001	**−2,488**	−1,123
			−2,918	−1,317	−3,340	0	**3,366**	−1,318
			−2,231	1,382	−2,069	−0,008	−2,038	**−1,512**
			−2,376	0	−0,020	0	−0,020	**0,719**
			−1,034	−1,077	−0,009	0	0,017	−1,077
			−1,034	−1,077	−0,009	0	0,017	−1,077
361	7	180X100X 5,6						
			−11,573	−2,844	3,288	0,001	−0,004	−0,585
			10,576	−2,831	−1,653	−6,409	0,002	−0,550
			0	**−3,790**	0	−0,011	0	−0,760
			5,315	**−2,782**	−0,158	−6,403	−0,034	0,041
			7,361	−3,490	**−2,288**	6,388	0,003	−0,708
			−11,573	−2,845	**3,288**	0,001	−0,004	−0,593
			5,315	−3,460	−0,158	**−6,443**	0,001	−0,680

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			5,256	−3,489	−1,690	**6,410**	0,002	−0,735
			7,361	−2,812	−2,288	6,401	**−0,500**	0,019
			−11,573	−3,419	3,288	0,002	**0,720**	0,044
			0	−3,790	0	−0,012	0	**−0,787**
			5,315	−3,404	−0,158	−6,443	−0,034	**0,075**
			0	−2,843	0	−0,009	0	−0,590
			0	−2,843	0	−0,009	0	−0,590
362	7	180X100X 5,6						
			−18,086	−3,740	0,258	−0,008	−0,044	−0,892
			16,465	−3,737	1,887	−0,997	−0,221	−0,897
			0	**−4,985**	0	−0,012	0	−1,222
			11,509	**−3,684**	−0,251	1,008	−0,011	−0,037
			11,509	−3,730	**−0,251**	1,008	0,044	−0,853
			8,244	−3,739	**2,005**	−1,002	−0,241	−0,899
			8,244	−4,571	2,005	**−1,015**	−0,241	−1,148
			11,509	−3,730	−0,251	**1,008**	0,044	−0,853
			8,244	−3,739	2,005	−1,002	**−0,241**	−0,899
			8,244	−3,692	2,005	−1,002	**0,200**	−0,082
			0	−4,985	0	−0,012	0	**−1,222**
			11,509	−3,685	−0,164	0,011	−0,008	**−0,022**
			0	−3,738	0	−0,004	0	−0,877
			0	−3,738	0	−0,004	0	−0,877
363	7	180X100X 5,6						
			−6,500	−2,192	0,646	−0,003	−0,167	−0,553
			6,543	−2,694	1,618	0,339	−1,399	−0,818
			0,358	**−2,934**	−0,072	−0,031	−0,355	−0,795
			4,150	**−2,139**	−1,243	−0,347	0,772	−0,022
			4,346	−2,682	**−1,413**	−0,375	0,870	−0,686
			3,497	−2,208	**2,170**	0,333	−1,430	−0,696
			1,347	−2,684	−0,954	**−0,386**	0,800	−0,687
			6,368	−2,199	1,607	**0,364**	−1,219	−0,632
			3,535	−2,696	2,143	0,332	**−1,469**	−0,819
			4,150	−2,186	−1,243	−0,347	**1,045**	−0,498
			3,535	−2,696	2,143	0,332	−1,469	**−0,819**
			4,237	−2,141	−0,437	0,025	−0,044	**−0,010**
			0,168	−2,194	−0,097	−0,005	−0,165	−0,549
			0,168	−2,194	−0,097	−0,005	−0,165	−0,549
364	7	180X100X 5,6						
			−2,083	−1,402	−5,794	−0,001	5,895	−1,404
			4,017	−2,788	5,181	−0,001	−5,045	−4,937
			3,070	**−2,794**	2,548	0,001	−2,366	−4,953
			0,757	**2,783**	−2,562	−0,001	−2,469	−4,924
			−2,083	−1,714	**−5,794**	−0,002	5,895	−1,718
			−2,083	1,400	**5,658**	−0,001	5,487	−1,397
			−2,083	−1,714	−5,794	**−0,004**	5,895	−1,716
			3,070	−2,794	2,548	**0,001**	−2,366	−4,953
			4,017	0,637	−5,229	−0,001	**−5,190**	1,517
			−2,083	−1,714	−5,794	−0,002	**5,895**	−1,718
			3,070	−2,794	2,548	0,001	−2,366	**−4,953**
			3,070	0,041	−2,137	0,001	−1,257	**1,949**
			0	−1,405	0	0	0	−1,411
			0	−1,405	0	0	0	−1,411
365	7	180X100X 5,6						
			−0,023	−1,847	−9,042	0,006	9,042	−1,848
			1,395	−2,012	8,158	−0,001	−7,974	−2,344
			0	**−2,463**	0	0,006	0	−2,465

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	Doorsnede naam	Nx [kN]	Vy [kN]	Vz [kN]	Tx [kNm]	My [kNm]	Mz [kNm]
			0	**2,461**	0	0,010	0	−2,461
			−0,023	−1,847	**−9,042**	0,006	9,042	−1,848
			−0,023	1,846	**9,040**	0,006	9,038	−1,846
			1,395	−2,012	8,158	**−0,001**	−7,974	−2,344
			0	−2,258	0	**0,011**	0	−2,261
			1,395	1,681	−8,280	−0,001	**−8,343**	−1,350
			−0,023	−1,847	−9,042	0,006	**9,042**	−1,848
			1,385	−2,424	4,048	0,004	−3,864	**−2,760**
			0	−0,001	0	0,006	0	**1,230**
			0	−1,847	0	0,005	0	−1,849
			0	−1,847	0	0,005	0	−1,849
366	7	180X100X 5,6						
			−5,937	−1,255	1,427	0,007	−1,336	−1,130
			1,987	−1,140	1,995	0,004	−1,778	−1,266
			−4,182	**−1,439**	−0,105	0,013	0,228	−1,444
			−2,456	**1,434**	−0,062	0,008	−0,239	−1,430
			−5,109	−1,319	**−3,446**	0,015	3,603	−1,325
			−2,316	1,075	**3,256**	0,006	3,094	−1,071
			−2,987	−1,014	2,996	**0**	−2,980	−0,887
			−4,298	−1,318	−1,928	**0,015**	2,069	−1,323
			−5,146	1,379	−3,083	0,006	**−3,285**	−1,502
			−5,109	−1,319	−3,446	0,015	**3,603**	−1,325
			−1,076	−1,381	0,424	0,011	−0,127	**−1,512**
			−2,456	−0,002	−0,062	0,008	−0,052	**0,719**
			−1,842	−1,078	−0,047	0,006	0,101	−1,081
			−1,842	−1,078	−0,047	0,006	0,101	−1,081
367	7	180X100X 5,6						
			−11,909	−2,867	10,141	−0,009	−0,011	−0,533
			11,593	−3,673	−14,111	−6,656	0,010	−0,355
			0	**−3,868**	0	−0,090	0	−0,603
			7,577	**−2,680**	−6,592	6,601	−1,443	0,408
			11,593	−3,673	**−14,111**	−6,656	0,010	−0,355
			−11,909	−2,849	**10,141**	0,041	−0,011	−0,295
			6,180	−3,715	−9,501	**−6,732**	0,005	−0,578
			7,577	−2,726	−6,592	**6,601**	0,007	−0,187
			11,593	−2,998	−14,111	−6,665	**−3,094**	0,206
			−11,909	−3,457	10,141	−0,026	**2,220**	0,103
			−11,909	−3,514	10,141	−0,026	−0,011	**−0,664**
			7,577	−3,314	−6,592	6,581	−1,443	**0,448**
			0	−2,901	0	−0,068	0	−0,452
			0	−2,901	0	−0,068	0	−0,452
368	7	180X100X 5,6						
			−18,347	−3,846	6,044	−0,219	−0,767	−1,092
			17,754	−3,870	−9,019	−1,241	0,056	−1,171
			0	**−5,144**	0	−0,351	0	−1,983
			3,336	**−3,767**	−1,250	0,878	−0,107	−0,422
			17,754	−3,870	**−9,019**	−1,241	0,056	−1,171
			−18,347	−3,846	**6,044**	−0,219	−0,767	−1,092
			17,754	−4,750	−9,019	**−1,374**	0,056	−1,833
			3,336	−3,813	−1,250	**0,878**	0,168	−1,256
			17,754	−3,824	−9,019	−1,241	**−1,928**	−0,325
			−18,347	−3,800	6,044	−0,219	**0,563**	−0,251
			0	−5,144	0	−0,351	0	**−1,983**
			−18,347	−3,798	6,044	−0,216	0,563	**−0,218**
			0	−3,838	0	−0,200	0	−1,191
			0	−3,838	0	−0,200	0	−1,191

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
369	7	180X100X 5,6						
			−7,279	−2,907	3,823	−0,362	−0,553	−0,004
			6,720	−2,469	−8,201	−0,115	−0,901	−0,680
			−0,148	**−3,193**	−1,015	−0,399	−0,223	−0,311
			4,415	**−2,266**	−1,338	−0,526	0,207	0,055
			6,633	−2,988	**−9,324**	−0,189	−1,065	−0,583
			−7,140	−2,403	**5,194**	−0,318	−0,330	−0,426
			1,244	−2,850	−0,038	**−0,604**	0,380	−0,306
			6,720	−2,469	−8,201	**−0,115**	−0,901	−0,680
			6,633	−2,932	−9,324	−0,189	**−3,116**	0,068
			1,373	−2,287	1,661	−0,528	**0,833**	0,102
			6,695	−3,002	−8,371	−0,182	−0,939	**−0,732**
			−0,291	−2,844	−2,140	−0,340	−0,837	**0,806**
			−0,111	−2,395	−0,761	−0,299	−0,167	−0,233
			−0,111	−2,395	−0,761	−0,299	−0,167	−0,233
370	7	180X100X 5,6						
			−5,372	−1,399	−5,915	−0,029	6,207	−1,396
			5,670	−2,769	5,346	−0,076	−5,551	−4,898
			3,228	**−2,772**	2,658	−0,074	−2,730	−4,910
			0,878	**2,775**	−1,001	−0,027	−0,906	−4,892
			−5,372	−1,708	**−5,915**	−0,046	6,207	−1,704
			−5,372	1,403	**5,537**	−0,029	5,073	−1,410
			5,670	−2,769	5,346	**−0,076**	−5,551	−4,898
			3,418	−1,402	3,764	**−0,010**	−3,950	−1,404
			5,670	−2,455	5,346	−0,041	**−5,551**	−4,578
			−5,372	−1,708	−5,915	−0,046	**6,207**	−1,704
			3,228	−2,772	2,658	−0,074	−2,730	**−4,910**
			0,972	−0,059	0,873	−0,020	−0,560	**1,915**
			0	−1,399	0	−0,030	0	−1,398
			0	−1,399	0	−0,030	0	−1,398
371	7	180X100X 5,6						
			−0,620	−2,012	4,073	0,081	−4,035	−2,351
			0,268	−1,672	5,757	0,041	−5,761	−1,335
			0	**−2,462**	0	0,141	0	−2,473
			0	**2,464**	0	0,086	0	−2,476
			−0,280	−1,847	**−9,045**	0,080	9,051	−1,854
			−0,280	1,846	**9,037**	0,080	9,025	−1,851
			0,178	−1,839	5,756	**0,024**	−5,760	−1,833
			−0,280	−2,259	−9,045	**0,154**	9,051	−2,273
			−0,492	1,683	−8,254	0,079	**−8,357**	−1,366
			−0,280	−1,847	−9,045	0,080	**9,051**	−1,854
			0,104	2,432	−5,750	0,055	−5,741	**−2,796**
			0	0,002	0	0,086	0	**1,222**
			0	−1,845	0	0,064	0	−1,849
			0	−1,845	0	0,064	0	−1,849
372	7	180X100X 5,6						
			−8,080	−1,261	1,949	0,239	−2,812	−1,168
			3,230	−1,125	1,926	0,027	−1,694	−1,237
			−4,110	**−1,438**	0,254	0,170	−0,770	−1,459
			−2,327	**1,442**	0,161	0,103	0,480	−1,473
			−2,962	−1,071	**−3,243**	0,082	3,070	−1,074
			−5,622	1,310	**3,568**	0,198	4,036	−1,313
			0,737	−1,064	2,125	**0,011**	−2,165	−1,052
			−8,080	−1,261	1,949	**0,239**	−2,812	−1,168
			−6,764	−1,259	3,460	0,238	**−4,328**	−1,163
			−5,622	1,310	3,568	0,198	**4,036**	−1,313
			−4,985	1,382	−2,664	0,170	−1,937	**−1,534**

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−4,110	−0,002	0,254	0,170	−0,008	**0,702**
			−1,745	−1,072	0,121	0,077	−0,366	−1,077
			−1,745	−1,072	0,121	0,077	−0,366	−1,077
373	7	180X100X 5,6						
			−5,080	−1,433	−15,513	1,329	−0,004	−0,471
			6,381	−0,520	19,781	−2,280	0,005	−0,631
			3,228	**−2,937**	9,808	5,301	0,003	−1,141
			4,071	**−0,125**	12,729	−2,683	2,803	−0,234
			−5,080	−1,433	**−15,513**	1,329	−0,004	−0,471
			6,381	−0,520	**19,781**	−2,280	0,005	−0,631
			4,071	−0,172	12,729	**−2,683**	0,003	−0,267
			3,228	−2,937	9,808	**5,301**	0,003	−1,141
			−5,080	−1,403	−15,513	1,378	**−3,417**	−0,385
			6,381	−0,464	19,781	−2,280	**4,357**	−0,523
			3,228	−2,937	9,808	5,301	0,003	**−1,141**
			−5,080	−1,383	−15,513	1,318	−3,417	**−0,102**
			0	−1,397	0	1,177	0	−0,514
			0	−1,397	0	1,177	0	−0,514
374	7	180X100X 5,6						
			−8,771	−1,786	−6,324	1,426	−6,577	−0,057
			10,883	−1,599	8,527	0,841	7,826	0,057
			0	**−2,394**	0	1,962	0	0,035
			10,883	**−1,523**	8,527	0,752	9,702	0,851
			−8,771	−1,786	**−6,324**	1,426	−6,577	−0,057
			10,883	−1,599	**8,527**	0,841	7,826	0,057
			10,883	−1,570	8,527	**0,752**	7,826	0,511
			1,594	−2,391	1,061	**2,420**	1,213	0,039
			−8,771	−1,739	−6,324	1,426	**−7,968**	0,330
			10,883	−1,552	8,527	0,841	**9,702**	0,403
			−8,771	−1,787	−6,324	1,430	−6,577	**−0,085**
			5,581	−2,294	3,936	2,284	5,069	**1,026**
			0	−1,795	0	1,472	0	0,026
			0	−1,795	0	1,472	0	0,026
375	7	180X100X 5,6						
			−2,925	−1,138	−9,450	0,321	0,172	−0,346
			3,445	−0,919	3,608	0,177	0,443	0,098
			−0,049	**−1,250**	−2,147	0,363	0,201	−0,627
			2,050	**−0,864**	0,494	0,126	0,148	0,103
			−2,925	−1,138	**−9,450**	0,321	0,172	−0,346
			3,445	−0,919	**3,608**	0,177	0,443	0,098
			2,050	−0,910	0,494	**0,126**	0,039	−0,092
			1,987	−1,161	2,625	**0,486**	0,914	−0,257
			−2,925	−1,082	−9,450	0,321	**−1,907**	−0,101
			1,999	−0,902	2,993	0,414	**1,547**	0,120
			−0,014	−1,156	−1,433	0,350	0,157	**−0,873**
			3,445	−0,873	3,608	0,177	1,237	**0,295**
			−0,010	−0,933	−0,984	0,264	0,133	−0,412
			−0,010	−0,933	−0,984	0,264	0,133	−0,412
376	7	180X100X 5,6						
			−15,513	−1,415	−6,372	−0,160	7,293	−1,414
			19,781	−2,961	6,529	−0,523	−7,800	−5,213
			12,729	**−3,000**	3,633	−0,281	−4,485	−5,302
			9,808	**2,881**	−3,228	−0,501	−2,161	−5,301
			19,781	0,464	**−6,381**	−0,523	−4,357	2,280
			19,781	−2,651	**6,529**	−0,247	−7,800	−4,921
			19,781	−2,961	6,529	**−0,523**	−7,800	−5,213

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
			−15,513	−1,419	−6,372	**−0,102**	7,293	−1,427
			19,781	−2,651	6,529	−0,247	**−7,800**	−4,921
			−15,513	−1,741	−6,372	−0,149	**7,293**	−1,754
			12,729	−3,000	3,633	−0,281	−4,485	**−5,302**
			12,729	0,125	−4,071	−0,234	−2,803	**2,683**
			0	−1,451	0	−0,212	0	−1,480
			0	−1,451	0	−0,212	0	−1,480
377	7	180X100X 5,6						
			−6,324	−1,954	−9,311	0,330	9,588	−2,070
			8,527	−2,141	9,500	0,403	−10,286	−2,607
			0	**−2,620**	0	1,000	0	−2,825
			1,061	**2,334**	−1,594	0,559	−1,447	−2,420
			8,527	1,552	**−10,883**	0,403	−9,702	−0,841
			8,527	−2,141	**9,500**	0,403	−10,286	−2,607
			−6,324	−1,952	−9,311	**0,303**	9,588	−2,065
			4,100	−2,220	5,926	**1,026**	−6,104	−2,063
			8,527	−2,141	9,500	0,403	**−10,286**	−2,607
			−6,324	−1,954	−9,311	0,330	**9,588**	−2,070
			8,527	−2,602	9,500	0,944	−10,286	**−3,149**
			8,527	0,106	−1,678	0,944	5,372	**1,344**
			0	−1,944	0	0,416	0	−2,057
			0	−1,944	0	0,416	0	−2,057
378	7	180X100X 5,6						
			−9,450	−1,551	−3,705	−0,101	4,246	−1,728
			3,608	−1,281	4,029	0,295	−4,724	−1,403
			−1,312	**−1,689**	0,013	−0,282	0,034	−1,872
			−2,147	**1,188**	0,049	−0,359	0,272	−0,363
			−8,062	−1,263	**−3,759**	−0,320	4,345	−1,386
			2,560	−1,558	**4,066**	0,170	−4,768	−1,695
			−1,433	−1,533	0,014	**−0,625**	0,075	−1,651
			3,608	−1,281	4,029	**0,295**	−4,724	−1,403
			2,777	−1,276	4,064	0,217	**−4,775**	−1,383
			−8,285	−1,544	−3,757	−0,366	**4,350**	−1,698
			−1,312	−1,689	0,013	−0,282	0,034	**−1,872**
			−2,147	0,039	0,049	−0,359	0,155	**1,109**
			−0,984	−1,267	0,010	−0,212	0,025	−1,404
			−0,984	−1,267	0,010	−0,212	0,025	−1,404
Ext.								
23	1	HE 260 B	**−421,570**	0,036	46,843	0	0	0
32	1	HE 260 B	**−421,583**	0,025	46,931	0	0	0
41	1	HE 260 B	**−421,691**	0,014	47,011	0	0	0
8	5	IPE 400	**57,073**	0,040	12,888	−0,012	−34,148	0,028
62	5	IPE 400	**57,091**	−0,040	12,891	0,012	−34,162	−0,028
4	21	260X260X 8,0	13,806	**−17,451**	−23,653	0,359	32,948	−6,804
56	21	260X260X 8,0	13,801	**−17,446**	23,659	−0,355	−32,956	−6,826
47	21	260X260X 8,0	−32,340	**18,736**	−0,105	0,277	0,129	−2,021
5	4	SFB HE 240 M - 450x20	0	0	**−354,907**	0,001	446,668	0
58	4	SFB HE 240 M - 450x20	0	0	**−354,634**	−0,001	445,320	0
13	4	SFB HE 240 M - 450x20	0	0	**356,840**	−0,001	451,166	0
22	4	SFB HE 240 M - 450x20	0	0	**357,076**	0	452,096	0
31	4	SFB HE 240 M - 450x20	0	0	**357,104**	0	452,241	0
40	4	SFB HE 240 M - 450x20	0	0	**357,157**	0	452,481	0
49	4	SFB HE 240 M - 450x20	0	0	**357,003**	0,001	451,943	0
319	7	180X100X 5,6	7,507	−4,247	−11,474	**−6,991**	−0,283	−0,768
283	7	180X100X 5,6	7,507	−4,247	11,470	**6,977**	0,293	−0,764
13	4	SFB HE 240 M - 450x20	0	0	3,330	−0,001	**−413,240**	0
22	4	SFB HE 240 M - 450x20	0	0	3,566	0	**−413,446**	0
31	4	SFB HE 240 M - 450x20	0	0	3,594	0	**−413,436**	0

Staafkrachten [Non-lin., Omhullende (UGT (a, b))]

	Prof.	*Doorsnede naam*	*Nx [kN]*	*Vy [kN]*	*Vz [kN]*	*Tx [kNm]*	*My [kNm]*	*Mz [kNm]*
40	4	SFB HE 240 M - 450x20	0	0	3,647	0	**−413,450**	0
49	4	SFB HE 240 M - 450x20	0	0	3,493	0,001	**−413,249**	0
22	4	SFB HE 240 M - 450x20	0	0	346,935	0,001	**460,463**	0
31	4	SFB HE 240 M - 450x20	0	0	346,940	0	**460,500**	0
40	4	SFB HE 240 M - 450x20	0	0	346,975	−0,001	**460,653**	0
47	21	260X260X 8,0	−34,882	4,937	−0,051	0,125	−0,061	**−28,402**
1	1	HE 260 B	−382,271	−9,240	−46,545	−0,005	−177,244	**28,389**
12	1	HE 260 B	−365,178	−9,167	−51,876	−0,001	−197,809	**28,392**
21	1	HE 260 B	−363,424	−9,173	−51,738	0,002	−197,362	**28,378**
30	1	HE 260 B	−363,898	−9,170	−51,439	0,001	−196,232	**28,371**
39	1	HE 260 B	−363,340	−9,176	−51,380	0	−195,999	**28,393**
48	1	HE 260 B	−363,100	−9,167	−51,121	0,001	−194,967	**28,366**
1	1	HE 260 B	−184,748	−0,029	−20,456	0	−0,452	−0,068
1	1	HE 260 B	−184,748	−0,029	−20,456	0	−0,452	−0,068

Prof.: Profiel; **Nx:** Normaalkracht; **Vy:** Dwarskracht in lokale y-richting; **Vz:** Dwarskracht in lokale z-richting; **Tx:** Torsiemoment; **My:** Buigend moment in lokale y-richting; **Mz:** Buigend moment in lokale z-richting;

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
1	1	0	6,000	0	Rx	**−58,881**	−4,919	−374,337
						−4,193	10,122	−190,013
					Ry	−51,804	**−15,681**	−325,633
						−8,686	**10,124**	−231,661
					Rz	−46,635	0,020	**−415,248**
						−11,266	5,507	**−158,293**
					αR	−30,022	−15,653	−161,739
						−8,686	10,124	−231,661
2	3	9,600	6,000	0	Rx	**16,311**	0,057	−152,543
						53,808	0,112	−359,504
					Ry	47,817	**−2,346**	−338,157
						22,258	**2,281**	−142,559
					Rz	47,906	−0,059	**−402,484**
						16,415	0,146	**−127,037**
					αR	25,359	0,138	−144,567
						17,338	0,048	−185,928
3	5	20,400	6,000	0	Rx	**−0,248**	0	−47,604
						0,340	0,003	−3,132
					Ry	0,024	**−0,004**	9,513
						0,238	**0,003**	−23,058
					Rz	0,062	0	**−84,418**
						−0,035	−0,004	**16,430**
					αR	0,096	0	−0,123
						0,043	0	0,061
4	7	30,000	6,000	0	Rx	**−16,968**	12,938	−26,240
						15,619	−8,288	−6,659
					Ry	9,924	**−17,511**	−8,364
						−14,944	**13,347**	−50,221
					Rz	3,410	0,582	**−53,352**
						15,377	−8,378	**−0,597**
					αR	15,377	−8,378	−0,597
						1,335	0,409	−34,235
5	23	0	12,000	0	Rx	**−63,088**	7,473	−356,870
						−7,827	3,301	−180,687

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
					Ry	−35,891	**−11,370**	−195,794
						−57,191	**9,009**	−372,526
					Rz	−55,016	−0,579	**−400,322**
						−13,745	1,806	**−152,116**
					αR	−34,466	7,436	−157,621
						−7,827	3,301	−180,687
6	20	9,600	12,000	0	Rx	**16,249**	0,033	−155,041
						52,597	0,069	−377,547
					Ry	47,550	**−2,297**	−359,800
						20,901	**2,254**	−145,977
					Rz	46,812	−0,048	**−420,798**
						16,444	0,092	**−129,684**
					αR	24,903	0,088	−153,100
						19,997	−0,017	−230,158
7	13	20,400	12,000	0	Rx	**−0,211**	0	−49,039
						0,578	0	−7,759
					Ry	0,369	**−0,004**	−4,437
						0,187	**0,003**	−22,972
					Rz	0,340	0	**−93,179**
						−0,010	0	**6,736**
					αR	0,544	0	−0,202
						0,279	0	0,400
8	15	30,000	12,000	0	Rx	**−16,272**	4,319	−25,417
						15,121	6,921	−10,238
					Ry	9,783	**−11,237**	−4,292
						9,071	**8,733**	−25,187
					Rz	3,902	0,207	**−52,480**
						14,803	6,881	**−4,116**
					αR	14,803	6,881	−4,116
						1,427	0,173	−27,263
9	34	0	18,000	0	Rx	**−61,315**	3,926	−355,305
						−7,993	1,088	−179,873
					Ry	−35,930	**−10,178**	−196,833
						−55,406	**4,460**	−370,795
					Rz	−55,134	−0,183	**−399,090**
						−13,850	0,598	**−151,679**
					αR	−32,640	3,893	−156,818
						−7,993	1,088	−179,873
10	31	9,600	18,000	0	Rx	**16,277**	0,008	−155,204
						52,577	0,026	−378,286
					Ry	47,602	**−2,258**	−360,561
						20,910	**2,237**	−145,168
					Rz	46,843	−0,036	**−421,570**
						16,471	0,039	**−129,833**
					αR	24,907	0,037	−153,431
						19,978	−0,010	−230,585
11	24	20,400	18,000	0	Rx	**−0,208**	0	−49,112
						0,588	0	−8,112
					Ry	0,363	**−0,003**	−15,374
						0,206	**0,003**	−6,299
					Rz	0,352	0	**−93,520**
						−0,007	0	**6,638**
					αR	0,554	0	−0,523
						0,288	0	0,117

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
12	26	30,000	18,000	0	Rx	**−16,162**	1,278	−25,592
						13,032	−1,072	−27,394
					Ry	10,472	**−10,335**	−11,505
						5,965	**2,697**	−19,711
					Rz	3,899	−0,230	**−52,731**
						12,420	2,065	**−4,736**
					αR	10,148	−10,299	−5,405
						1,434	−0,138	−27,421
13	45	0	24,000	0	Rx	**−60,838**	0,016	−383,633
						−7,970	0,013	−179,993
					Ry	−33,534	**−10,325**	−203,556
						−53,467	**10,404**	−371,267
					Rz	−55,087	0,017	**−399,200**
						−13,825	0,012	**−151,789**
					αR	−30,779	10,324	−157,296
						−7,970	0,013	−179,993
14	42	9,600	24,000	0	Rx	**16,313**	−0,016	−155,235
						52,613	−0,017	−378,259
					Ry	47,828	**−2,243**	−335,165
						20,940	**2,230**	−144,184
					Rz	46,931	−0,025	**−421,583**
						16,506	−0,014	**−129,861**
					αR	24,935	−0,013	−153,425
						19,992	−0,003	−230,565
15	35	20,400	24,000	0	Rx	**−0,207**	0	−49,110
						0,588	0	−8,075
					Ry	0,331	**−0,003**	−7,730
						0,330	**0,003**	−7,738
					Rz	0,353	0	**−93,476**
						−0,007	0	**6,642**
					αR	0,554	0	−0,489
						0,288	0	0,134
16	37	30,000	24,000	0	Rx	**−16,136**	−0,007	−25,558
						13,003	−0,002	−27,226
					Ry	4,389	**−10,412**	−26,429
						3,619	**10,386**	−20,447
					Rz	3,889	−0,004	**−52,620**
						10,061	10,382	**−5,409**
					αR	10,061	10,382	−5,409
						1,433	−0,012	−27,355
17	56	0	30,000	0	Rx	**−61,119**	−3,862	−355,167
						−7,934	−1,063	−179,833
					Ry	−26,782	**−4,381**	−172,347
						−59,463	**10,219**	−355,277
					Rz	−55,064	0,216	**−399,054**
						−13,799	−0,575	**−151,643**
					αR	−32,627	−3,887	−156,811
						−7,934	−1,063	−179,833
18	53	9,600	30,000	0	Rx	**16,350**	−0,040	−155,256
						52,642	−0,060	−378,333
					Ry	47,880	**−2,250**	−336,229
						20,752	**2,242**	−169,587
					Rz	47,011	−0,014	**−421,691**

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
						16,541	−0,068	**−129,882**
					αR	24,959	−0,063	−153,469
						20,002	0,004	−230,603
19	46	20,400	30,000	0	Rx	**−0,207**	0	−49,099
						0,590	0	−8,099
					Ry	0,206	**−0,003**	−6,296
						0,347	**0,003**	2,809
					Rz	0,355	0	**−93,489**
						−0,006	0	**6,649**
					αR	0,556	0	−0,511
						0,289	0	0,126
20	48	30,000	30,000	0	Rx	**−16,154**	−1,296	−25,600
						13,039	1,063	−27,400
					Ry	5,979	**−2,707**	−19,726
						10,477	**10,306**	−11,509
					Rz	3,903	0,223	**−52,734**
						12,438	−2,083	**−4,754**
					αR	10,152	10,281	−5,408
						1,930	0,154	−36,580
21	67	0	36,000	0	Rx	**−62,781**	−7,408	−356,640
						−7,707	−3,276	−180,617
					Ry	−28,539	**−8,925**	−173,247
						−59,309	**11,408**	−354,906
					Rz	−54,876	0,612	**−400,261**
						−13,643	−1,783	**−152,050**
					αR	−34,441	−7,429	−157,606
						−7,707	−3,276	−180,617
22	64	9,600	36,000	0	Rx	**16,395**	−0,065	−155,141
						52,728	−0,103	−377,633
					Ry	47,976	**−2,268**	−336,819
						20,765	**2,281**	−169,190
					Rz	47,147	−0,004	**−421,048**
						16,583	−0,121	**−129,779**
					αR	25,007	−0,114	−153,170
						20,045	0,011	−230,194
23	57	20,400	36,000	0	Rx	**−0,208**	0	−49,009
						0,580	0	−7,730
					Ry	0,216	**−0,003**	−7,082
						0,372	**0,004**	−4,413
					Rz	0,347	0	**−93,121**
						−0,008	0	**6,758**
					αR	0,547	0	−0,175
						0,282	0	0,420
24	59	30,000	36,000	0	Rx	**−16,255**	−4,341	−25,442
						15,169	−6,941	−10,290
					Ry	9,114	**−8,762**	−25,232
						9,787	**11,232**	−4,297
					Rz	3,910	−0,214	**−52,490**
						14,380	−6,709	**−4,120**
					αR	14,832	−6,894	−4,147
						1,779	−0,232	−33,362
25	78	0	42,000	0	Rx	**−58,491**	4,984	−373,906
						−4,010	−10,090	−190,013

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
					Ry	−5,844	**−10,095**	−177,392
						−56,109	**15,735**	−366,999
					Rz	−46,191	0,074	**−414,694**
						−11,112	−5,479	**−158,291**
					αR	−29,987	15,661	−161,681
						−8,496	−10,090	−231,660
26	75	9,600	42,000	0	Rx	**16,535**	−0,090	−152,672
						54,015	−0,147	−359,559
					Ry	49,978	**−2,295**	−326,752
						20,551	**2,330**	−154,513
					Rz	48,400	0,007	**−403,005**
						16,627	−0,175	**−127,157**
					αR	25,522	−0,165	−144,627
						17,527	−0,075	−186,038
27	68	20,400	42,000	0	Rx	**−0,244**	0	−47,591
						0,350	−0,003	−3,110
					Ry	0,264	**−0,003**	−6,951
						0,017	**0,004**	−1,211
					Rz	0,075	0	**−84,407**
						−0,034	0,004	**16,432**
					αR	0,099	0	−0,115
						0,046	0	0,069
28	70	30,000	42,000	0	Rx	**−16,926**	−12,911	−26,264
						15,692	8,266	−6,739
					Ry	−14,896	**−13,316**	−50,251
						9,932	**17,513**	−8,370
					Rz	3,425	−0,583	**−53,364**
						15,422	8,366	**−0,645**
					αR	15,422	8,366	−0,645
						1,393	−0,432	−34,289
29	89	0	0	0	Rx	**−6,040**	27,493	−25,582
						65,294	−19,649	−41,539
					Ry	64,990	**−19,778**	−52,708
						−6,040	**27,493**	−25,582
					Rz	−1,142	1,285	**−143,838**
						61,847	−14,593	**−1,718**
					αR	61,847	−14,593	−1,718
						0,404	−0,607	−93,457
30	86	9,600	0	0	Rx	**−58,663**	−4,582	6,333
						0,390	5,694	−118,381
					Ry	−0,394	**−6,648**	−185,139
						0,243	**8,990**	−62,967
					Rz	−0,511	−3,365	**−192,727**
						−58,663	−4,582	**6,333**
					αR	−57,610	−1,297	−2,040
						−58,240	−3,268	3,011
31	79	20,400	0	0	Rx	**−0,902**	−8,629	−26,624
						−0,162	−12,088	−6,790
					Ry	−0,861	**−17,261**	−12,622
						−0,425	**18,994**	−7,200
					Rz	−0,524	−0,002	**−31,644**
						−0,664	10,360	**−0,228**
					αR	−0,664	10,360	−0,228
						−0,400	−0,001	−27,843

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
32	81	30,000	0	0	Rx	**−6,361**	−24,342	−22,979
						5,806	29,744	3,052
					Ry	−6,219	**−24,385**	−17,748
						5,806	**29,744**	3,052
					Rz	−0,122	−0,763	**−28,905**
						5,806	29,744	**3,052**
					αR	5,675	29,612	−0,632
						4,583	27,039	0,617
33	90	4,800	0	0	Rx	**−58,793**	−5,652	−84,603
						66,919	−4,884	−153,639
					Ry	66,106	**−8,947**	−145,997
						−0,247	**11,103**	−54,490
					Rz	−57,114	−1,601	**−173,337**
						−0,990	7,044	**−47,038**
					αR	65,168	−8,942	−63,450
						0,040	0,006	−83,369
34	93	14,350	0	0	Rx	**−0,888**	−5,258	−21,618
						−0,171	−8,619	−15,878
					Ry	−0,300	**−12,409**	−12,417
						−0,791	**13,565**	−9,809
					Rz	−0,750	0,004	**−29,575**
						−0,438	7,385	**−1,815**
					αR	−0,438	7,385	−1,815
						−0,431	0,003	−24,543
35	96	15,650	0	0	Rx	**−0,890**	−6,181	−21,952
						−0,163	−8,579	−15,728
					Ry	−0,460	**−12,324**	−9,418
						−0,775	**13,494**	−9,232
					Rz	−0,719	0,003	**−28,693**
						−0,419	7,351	**−1,503**
					αR	−0,419	7,351	−1,503
						−0,393	0,003	−23,905
36	99	25,200	0	0	Rx	**−0,927**	−9,162	−26,854
						−0,155	−10,677	−5,631
					Ry	−0,545	**−16,774**	−19,537
						−0,423	**16,718**	−4,816
					Rz	−0,492	−0,040	**−32,571**
						−0,672	9,107	**2,945**
					αR	−0,686	12,151	−0,098
						−0,391	9,108	2,794
37	116	0	48,000	0	Rx	**−12,398**	−6,252	−144,659
						65,650	19,675	−42,733
					Ry	−7,328	**−27,487**	−26,055
						65,424	**19,805**	−53,985
					Rz	−10,483	−1,246	**−146,179**
						62,549	14,621	**−3,179**
					αR	62,549	14,621	−3,179
						−0,667	0,648	−88,671
38	114	9,600	48,000	0	Rx	**−54,511**	4,558	4,477
						0,829	6,619	−187,005
					Ry	0,287	**−9,000**	−62,986
						0,684	**6,620**	−168,514
					Rz	0,740	3,337	**−194,483**

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
						−54,511	4,558	**4,477**
					αR	−53,328	1,270	−4,032
						−54,037	3,241	1,090
39	135	20,400	48,000	0	Rx	**−0,686**	0,002	−31,539
						0,038	12,557	−7,613
					Ry	−0,393	**−18,994**	−7,202
						−0,623	**17,261**	−12,658
					Rz	−0,472	0,002	**−31,650**
						−0,602	−10,360	**−0,232**
					αR	−0,602	−10,360	−0,232
						−0,352	0,001	−27,849
40	137	30,000	48,000	0	Rx	**−5,948**	24,383	−17,597
						5,843	−29,746	3,074
					Ry	5,843	**−29,746**	3,074
						−5,948	**24,383**	−17,597
					Rz	0,016	0,729	**−28,792**
						5,843	−29,746	**3,074**
					αR	5,720	−29,615	−0,604
						4,677	−27,064	0,704
41	117	4,800	48,000	0	Rx	**−57,987**	5,645	−81,123
						62,111	4,871	−133,896
					Ry	0,288	**−11,106**	−70,433
						61,175	**8,934**	−126,018
					Rz	−39,027	1,591	**−169,155**
						−0,565	−7,045	**−46,205**
					αR	60,368	8,929	−60,118
						−0,045	−0,009	−98,474
42	122	14,350	48,000	0	Rx	**−0,704**	−13,564	−9,789
						0,046	12,409	−12,393
					Ry	−0,704	**−13,564**	−9,789
						0,046	**12,409**	−12,393
					Rz	−0,654	−0,004	**−29,558**
						−0,407	−7,385	**−1,810**
					αR	−0,407	−7,385	−1,810
						−0,374	−0,003	−24,530
43	124	15,650	48,000	0	Rx	**−0,688**	−13,493	−9,214
						0,052	11,392	−9,178
					Ry	−0,688	**−13,493**	−9,214
						−0,121	**12,324**	−9,445
					Rz	−0,628	−0,003	**−28,681**
						−0,389	−7,351	**−1,502**
					αR	−0,389	−7,351	−1,502
						−0,344	−0,003	−23,902
44	126	25,200	48,000	0	Rx	**−0,724**	0,039	−32,396
						0,016	10,677	−6,293
					Ry	−0,392	**−16,718**	−4,817
						−0,052	**16,774**	−19,714
					Rz	−0,437	0,040	**−32,588**
						−0,610	−9,107	**2,938**
					αR	−0,618	−12,151	−0,101
						−0,360	−9,108	2,785
Ext.								
5	23	0	12,000	0	Rx	**−63,088**	7,473	−356,870
33	90	4,800	0	0		**66,919**	−4,884	−153,639

Interne krachten knoopoplegging [Non-lin., Omhullende (UGT (a, b))]

	Knoop	*X [m]*	*Y [m]*	*Z [m]*	*C*	*Rx [kN]*	*Ry [kN]*	*Rz [kN]*
40	137	30,000	48,000	0	Ry	5,843	**−29,746**	3,074
32	81	30,000	0	0		5,806	**29,744**	3,052
10	31	9,600	18,000	0	Rz	46,843	−0,036	**−421,570**
14	42	9,600	24,000	0		46,931	−0,025	**−421,583**
18	53	9,600	30,000	0		47,011	−0,014	**−421,691**
3	5	20,400	6,000	0		−0,035	−0,004	**16,430**
27	68	20,400	42,000	0		−0,034	0,004	**16,432**
36	99	25,200	0	0	αR	−0,686	12,151	−0,098
38	114	9,600	48,000	0		−54,037	3,241	1,090

Knoop: Ondersteunde knoop; **C:** Extreme component; **Rx:** X-component opleggingsreactiekracht; **Ry:** Y-component opleggingsreactiekracht; **Rz:** Z-component opleggingsreactiekracht;

Sondeerrapport

Project: Achthoven Oost 13 te Montfoort

Opdrachtgever: Invepro b.v.

Datum rapport: 9-5-2022

Referentie: -

Inhoud: 1 Omschrijving werkzaamheden
1 Tekening
10 Sondeergrafieken
1 Tabel met coördinaten

Projectnummer: 325

Versie rapport: 1.0

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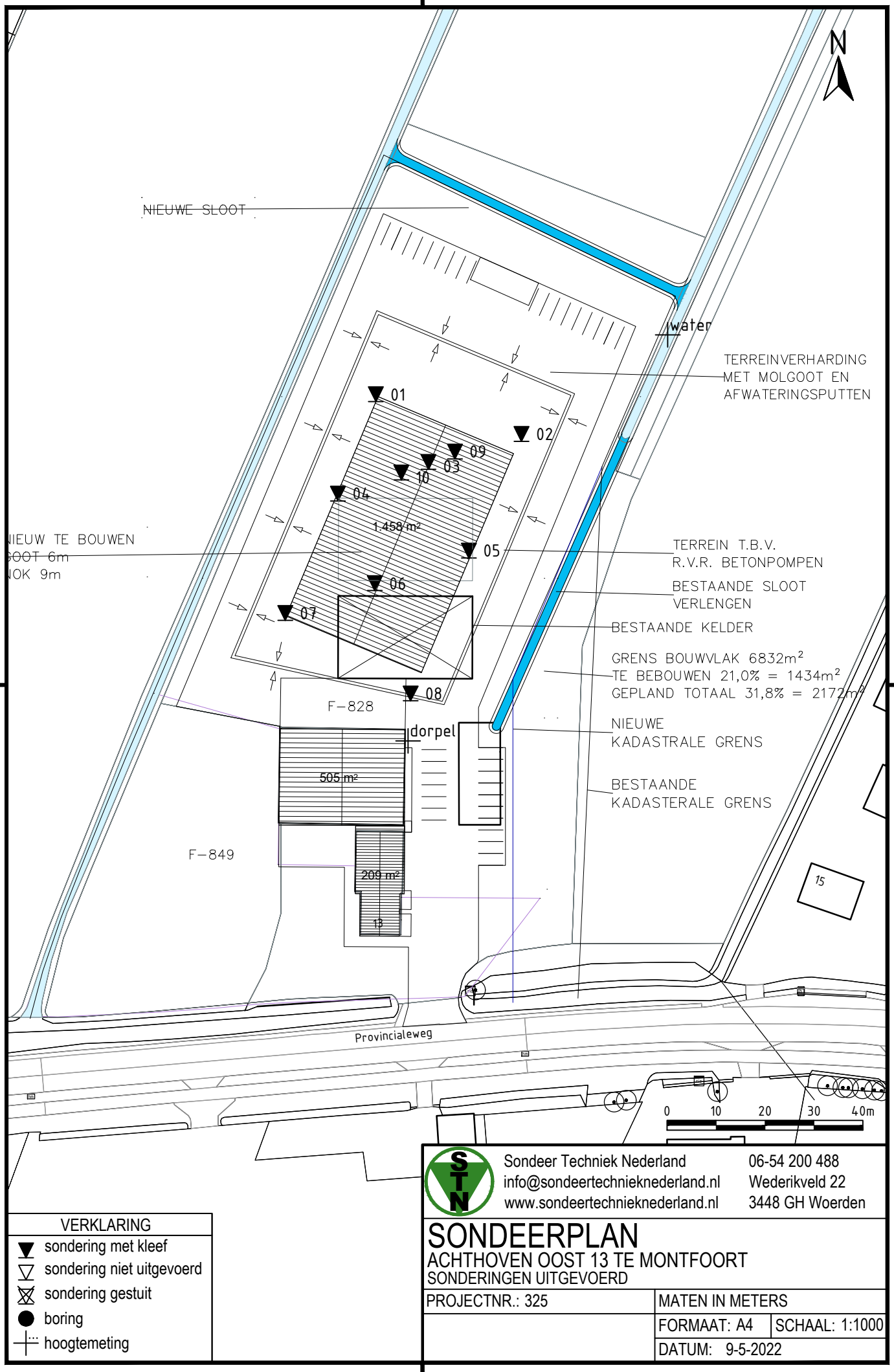
Omschrijving werkzaamheden

Op 17 maart 2022 heeft Sondeer Techniek Nederland in opdracht van Invepro b.v. 8 sonderingen gemaakt. Op 3 mei 2022 zijn er nog 2 aanvullende sonderingen gemaakt. De onderzoeksopzet is bepaald door of namens de opdrachtgever. De locatie van het project bevindt zich aan Achthoven Oost 13 te Montfoort.

De resultaten van de sondering(en) worden weergegeven in de sondeergrafiek(en). De sonderingen zijn uitgevoerd conform NEN-EN-ISO 22476-1, met een elektrische kleefmantelconus klasse 3.

De locaties van de sondering(en) en enkele referentiepunten zijn ingemeten met dGPS. De locaties zijn weergegeven op de tekening, de coördinaten zijn weergegeven in de Tabel met coördinaten.



VERKLARING

- sondering met kleef
- sondering niet uitgevoerd
- sondering gestuit
- boring
- hoogtemeting

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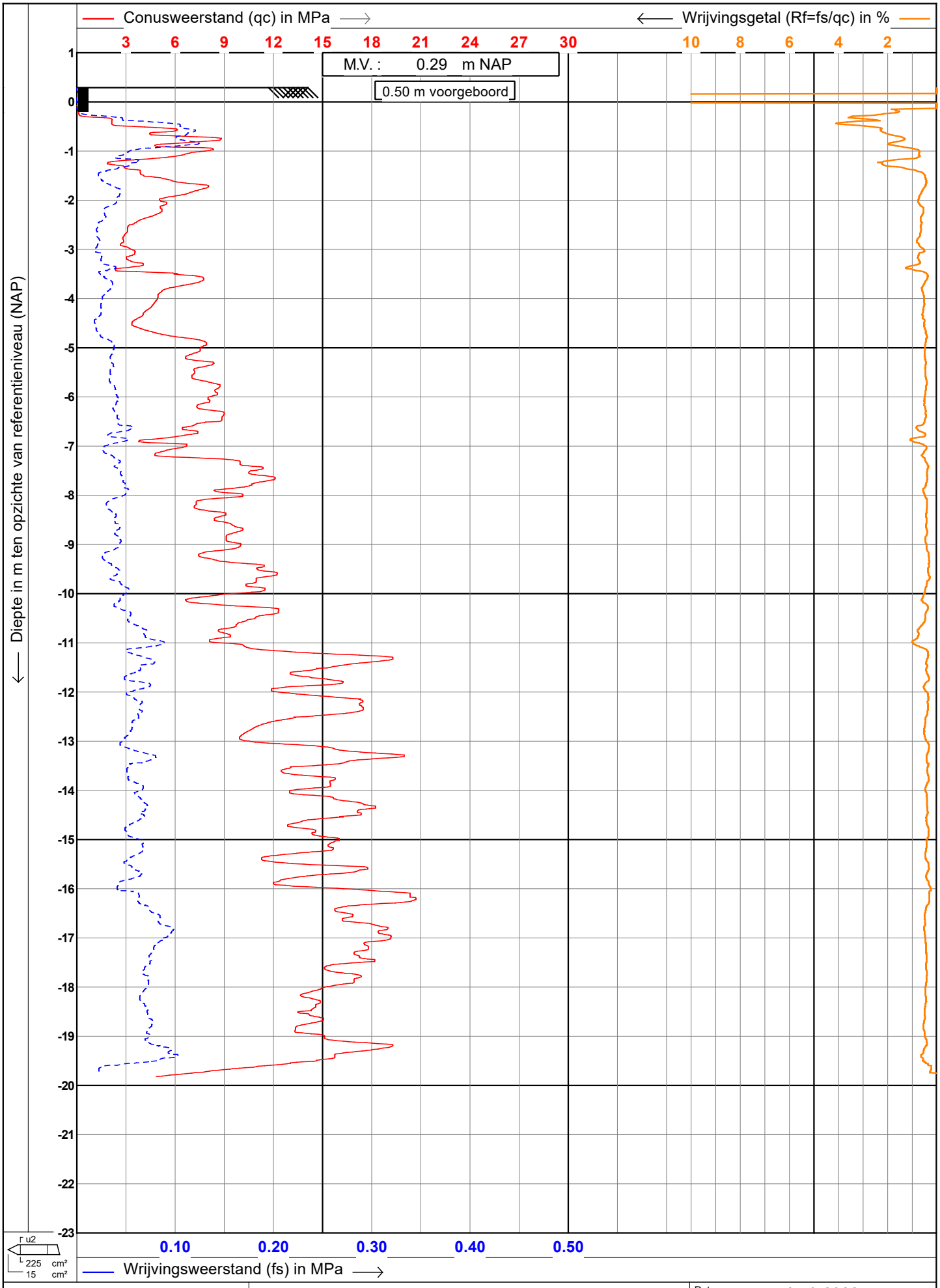
SONDEERPLAN

ACHTHOVEN OOST 13 TE MONTFOORT

SONDERINGEN UITGEVOERD

PROJECTNR.: 325	MATEN IN METERS	
	FORMAAT: A4	SCHAAL: 1:1000
	DATUM: 9-5-2022	



Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**01**

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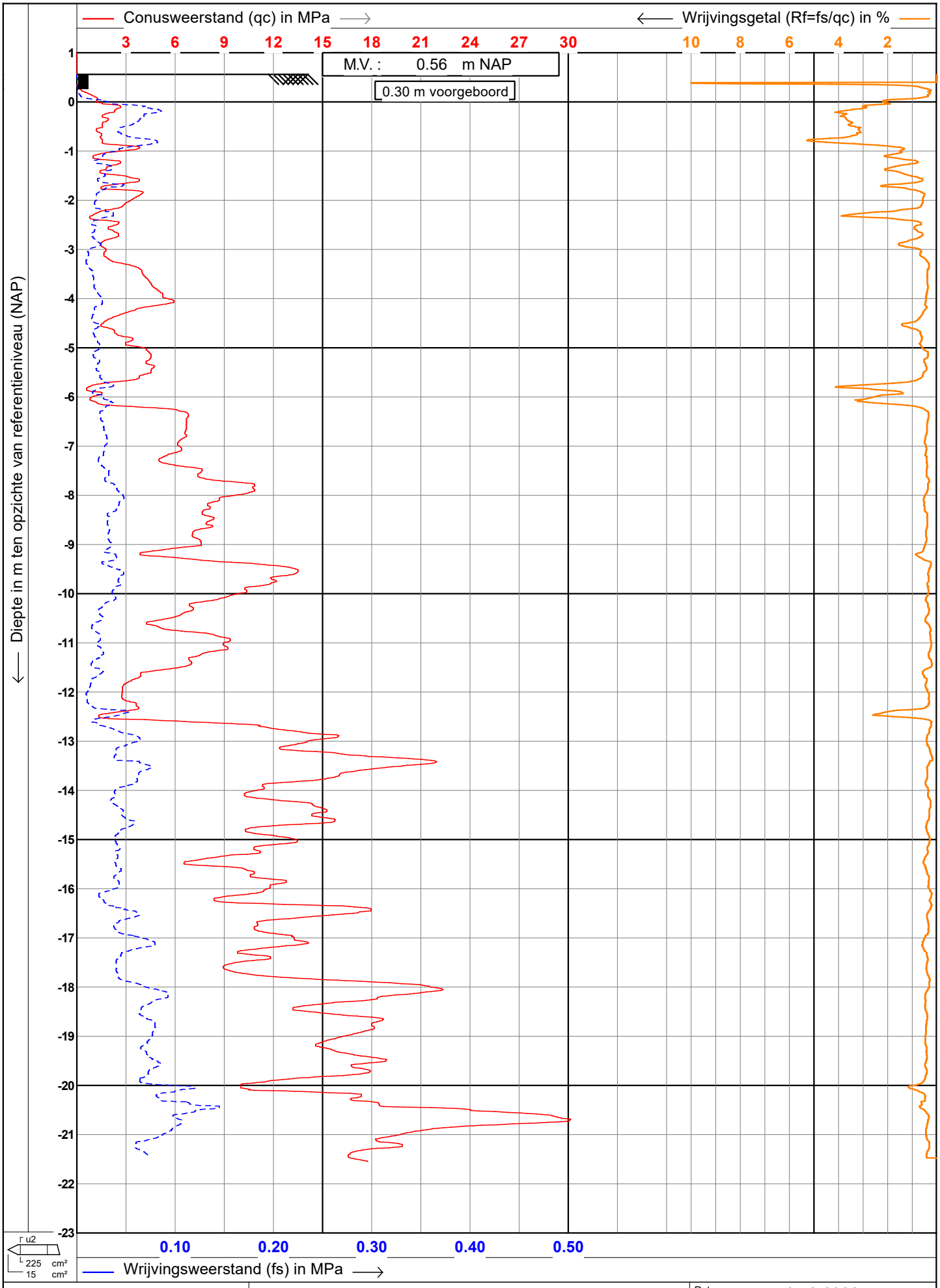
Sondeer Techniek Nederland



Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**02**

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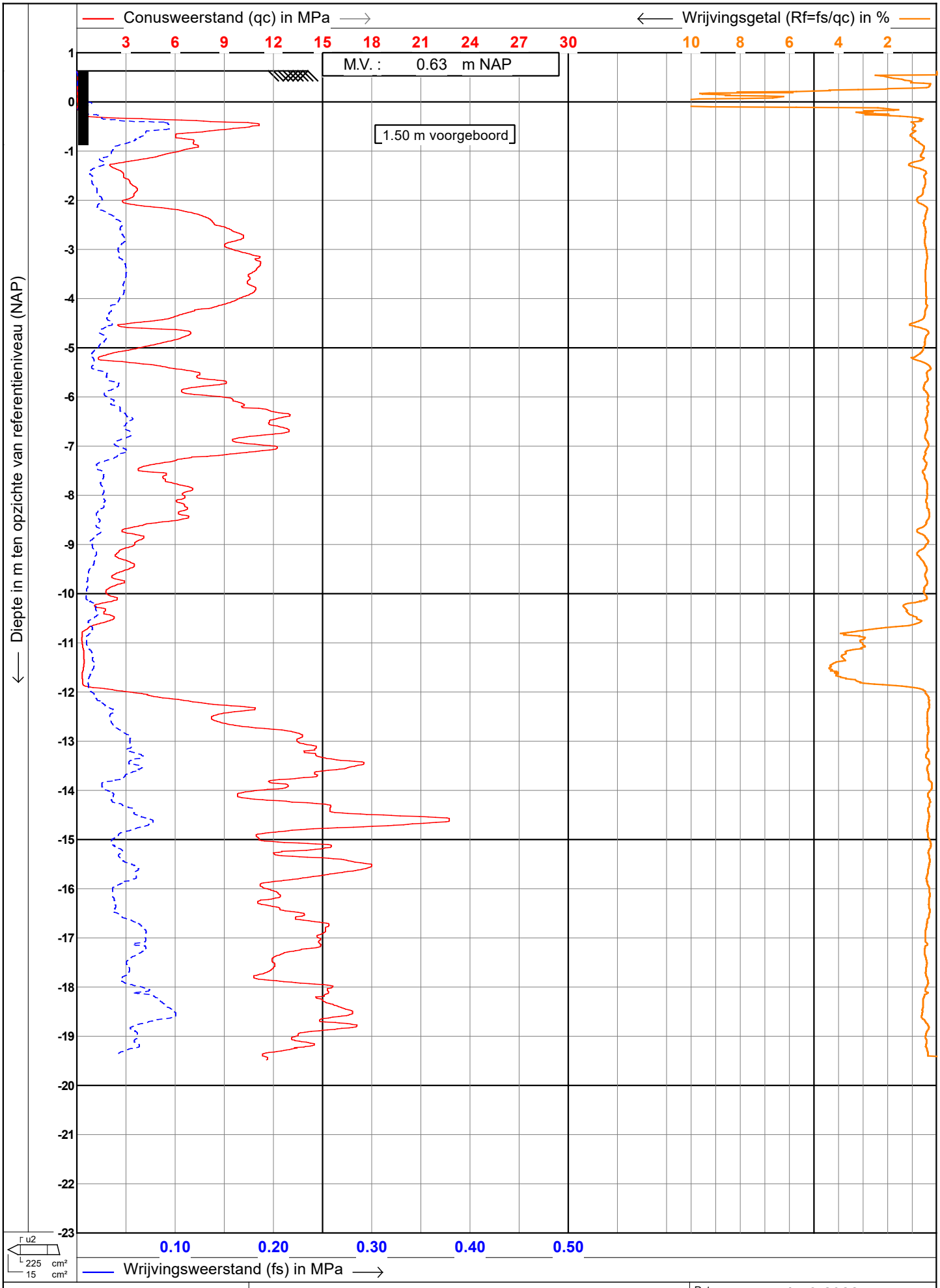
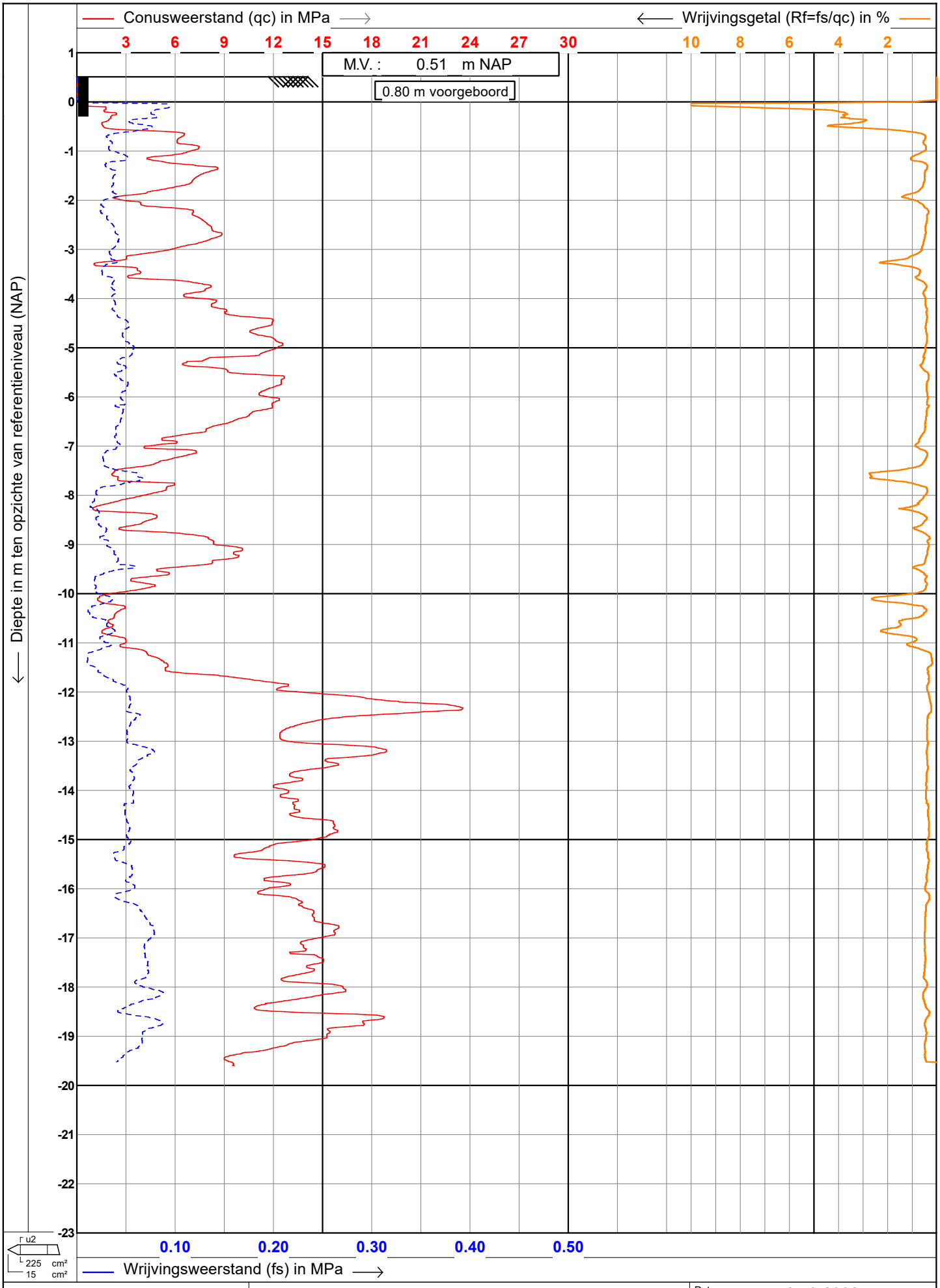
Sondeer Techniek Nederland



Test according ISO 22476-1

Sondeer Techniek Nederland

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**
Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**03**

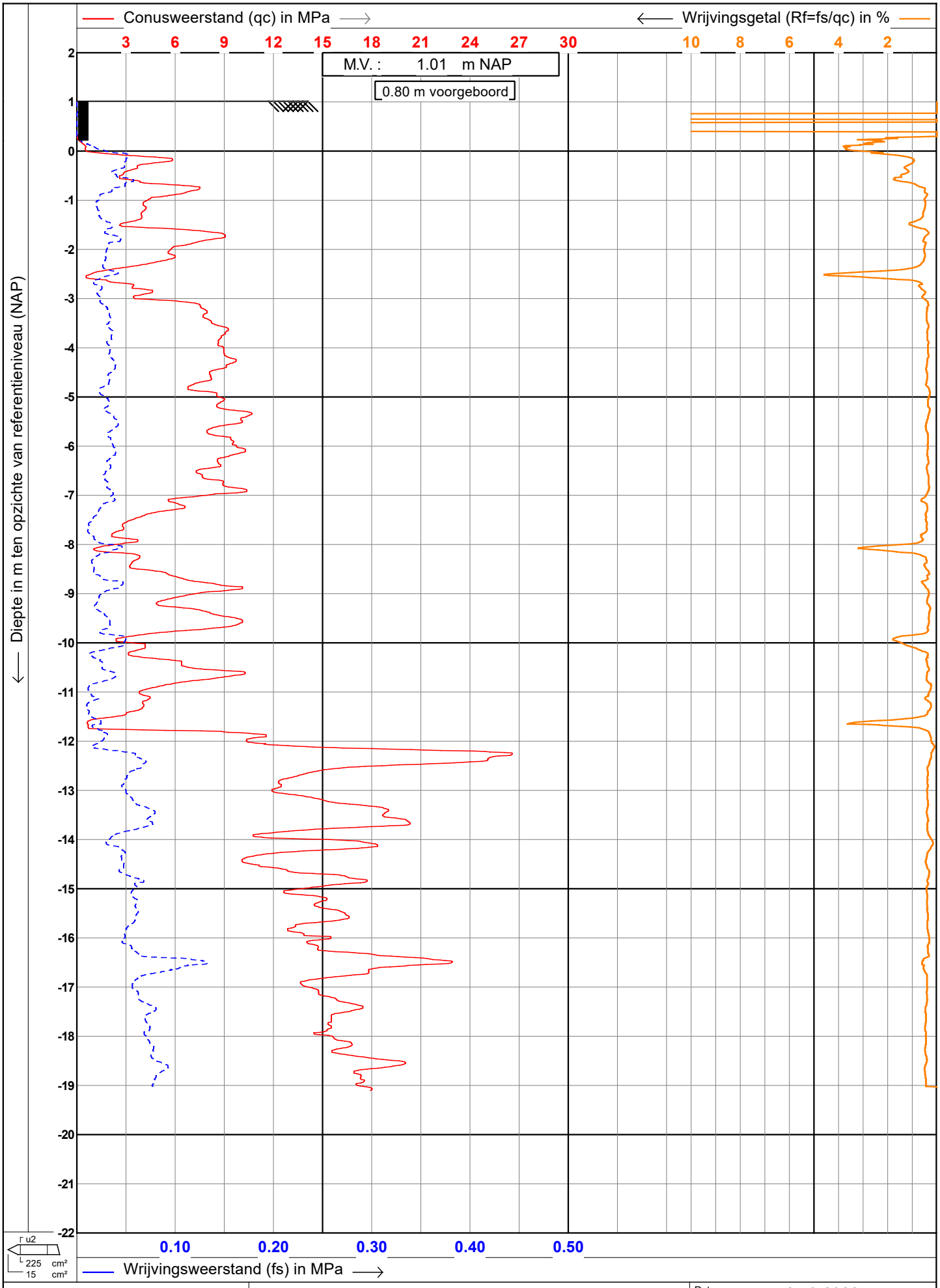


Sondeer Techniek Nederland

Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**04**



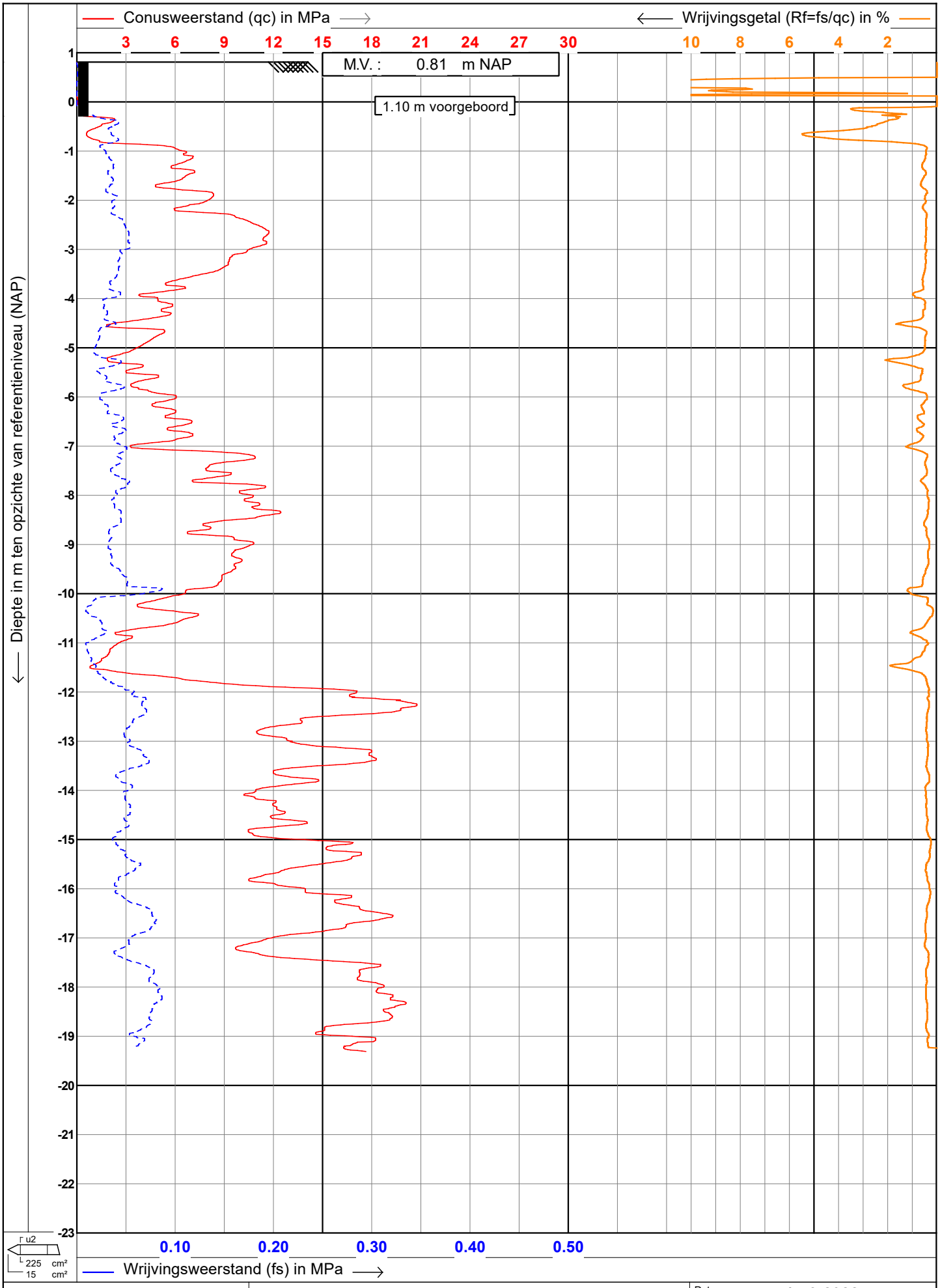
Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**05**

1/1

Sondeer Techniek Nederland



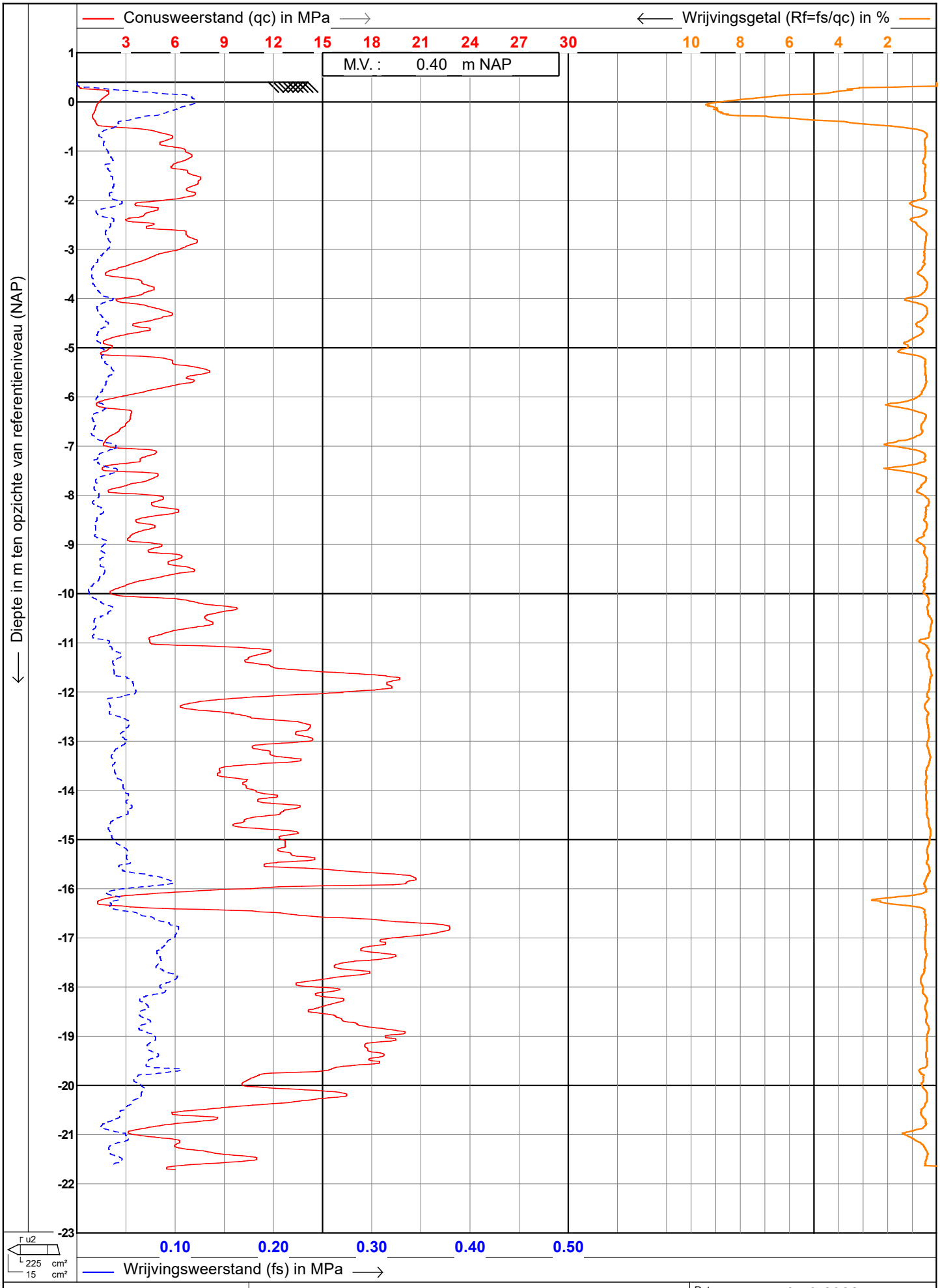
Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**06**

1/1

Sondeer Techniek Nederland



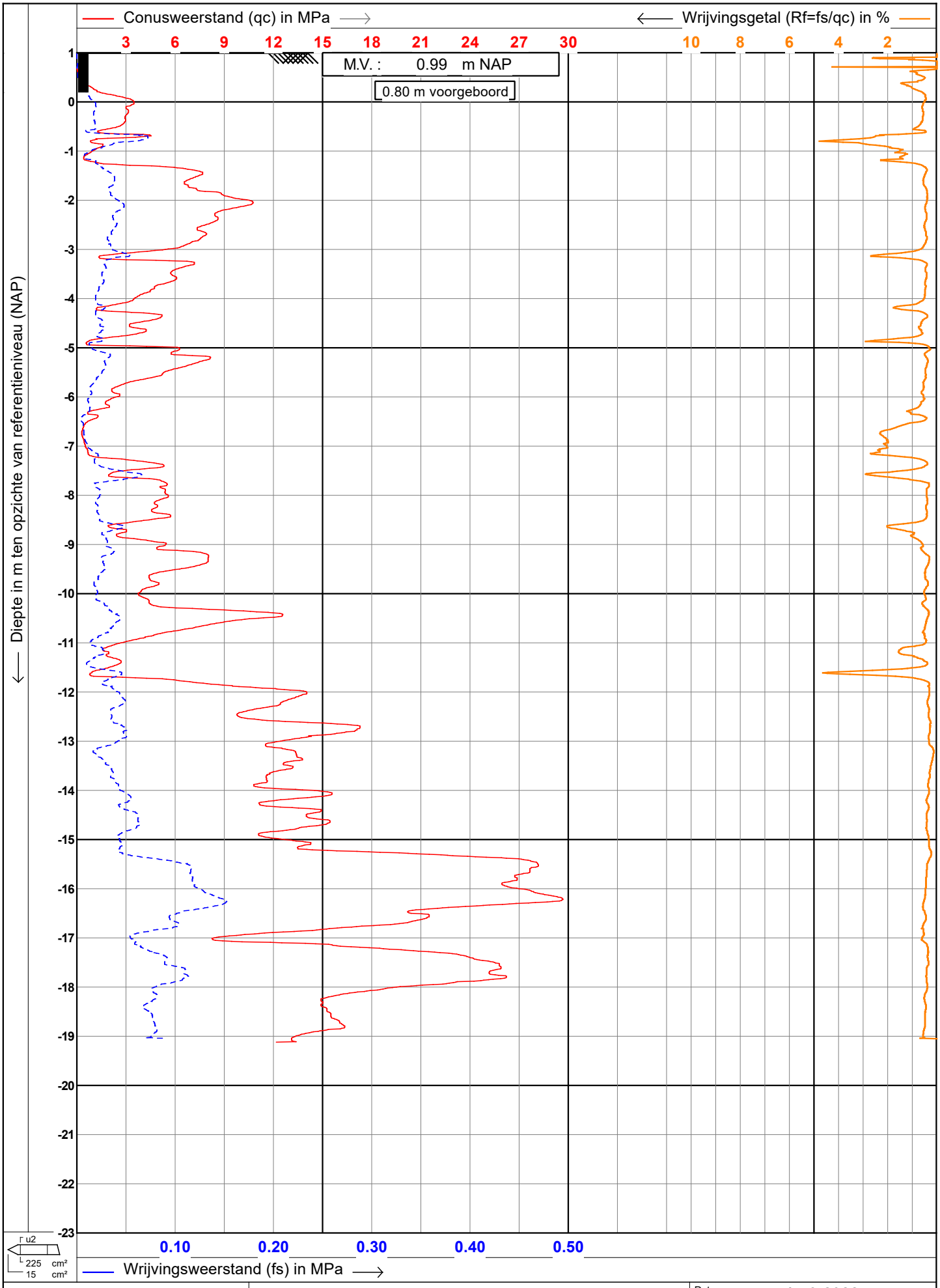
Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**07**

1/1

Sondeer Techniek Nederland

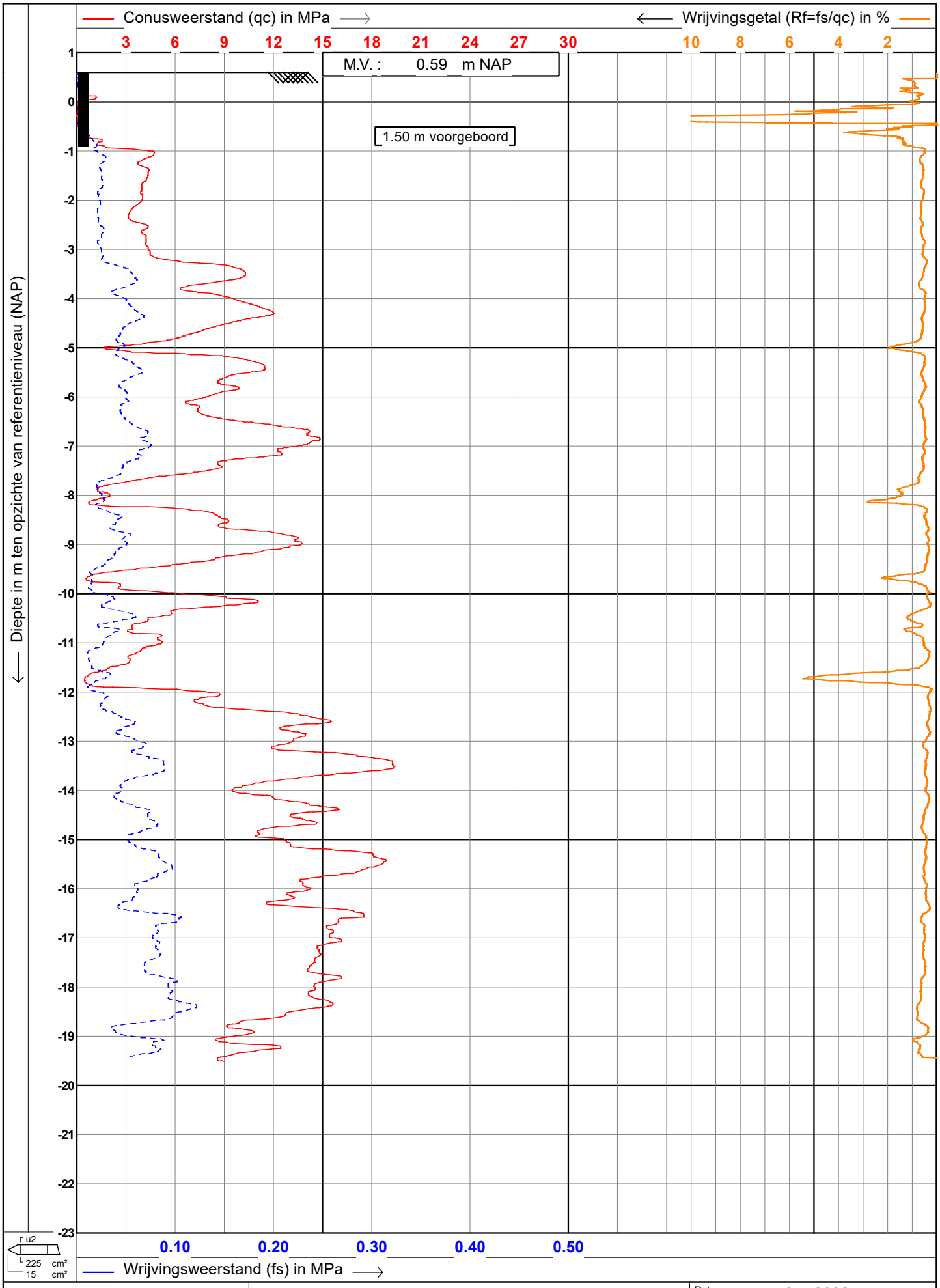


Sondeer Techniek Nederland

Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

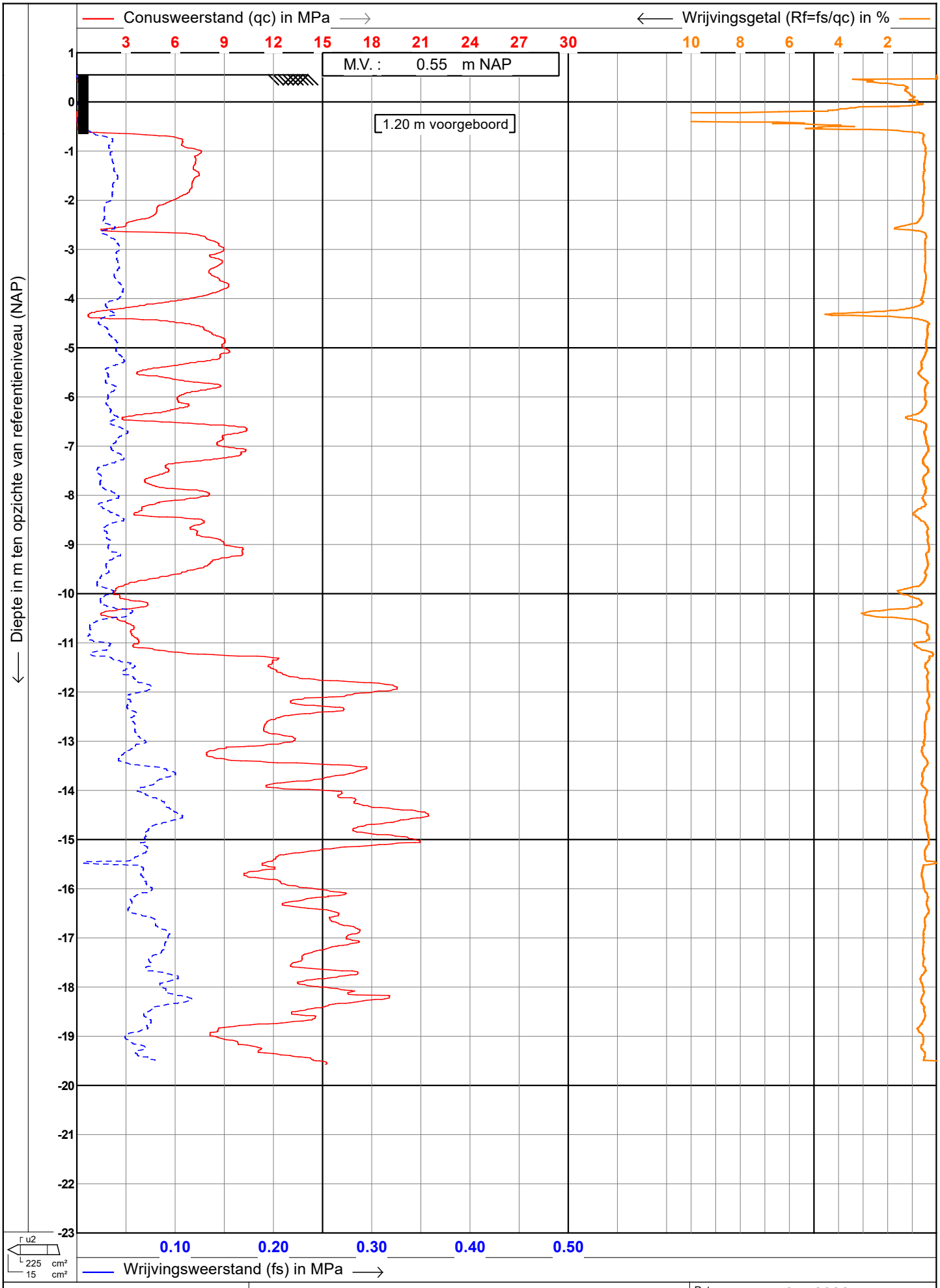
Datum	:	**17-3-2022**
Conusnr.	:	**DP15-CFPTxy.71047**
Projectnr.	:	**325**
Sondeernr.	:	**08**



Test according ISO 22476-1

Sondeer Techniek Nederland

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**
Datum	:	**3-5-2022**
Conusnr.	:	**DP15-CFPTxy.71096**
Projectnr.	:	**325**
Sondeernr.	:	**09**



Sondeer Techniek Nederland

Test according ISO 22476-1

Project	:	**Geotechnisch bodemonderzoek**
Lokatie	:	**Achthoven Oost 13, Montfoort**

Datum	:	**3-5-2022**
Conusnr.	:	**DP15-CFPTxy.71096**
Projectnr.	:	**325**
Sondeernr.	:	**10**

Tabel met coördinaten

In de onderstaande tabel zijn de ingemeten punten weergegeven. De coördinaten zijn aangegeven in Rijksdriehoekscoördinaten.

Locatie	Hoogte in m t.o.v. N.A.P.	X	Y	Opmerking
Sondering 01	+0,29	129015,69	452198,71	
Sondering 02	+0,56	129045,45	452190,57	
Sondering 03	+0,63	129026,44	452184,84	
Sondering 04	+0,51	129007,95	452178,37	
Sondering 05	+1,01	129034,69	452166,73	
Sondering 06	+0,81	129015,47	452160,10	GWS: 1,29 m - maaiveld
Sondering 07	+0,40	128997,18	452153,97	
Sondering 08	+0,99	129022,79	452137,54	
Sondering 09	+0,60	129031,85	452186,97	
Sondering 10	+0,55	129020,90	452182,70	
Dorpel	+1,13	129022,28	452127,81	
Water	-0,95	129075,33	452210,79	

Opmerking:

De hierboven aangegeven hoogten zijn indicatief, en uitsluitend bedoeld om inzicht te verkrijgen in de maaiveldhoogten van de meetpunten. Zonder verificatie van de gebruiker mogen deze hoogten niet gebruikt worden voor andere doeleinden.

Sondeer Techniek Nederland

HOEKSTRA STRUCTURE ENVIRONMENT
Civil, mechanical & environmental engineering

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Invepro b.v.

FUNDERINGSADVIES

nummer: 22-1500-v1-STN

datum: 27-06-2022

Betreft: funderingsadvies bedrijfshal aan de Achthoven Oost 13 te Montfoort.

Documenten:

- grondonderzoek 325 van Sondeer Techniek Nederland d.d. 09-05-2022.

Projectgegevens:

- het project betreft het nieuw bouwen van een bedrijfshal;
- de te funderen constructiedelen betreffen stroken en poeren.

Rekentechnische uitgangspunten:

- er zijn 10 sonderingen uitgevoerd;
- (sondeer)peil = NAP;
- grondwaterstand: NAP -0,48 m;
- berekening volgens NEN-EN 1997-1 en NEN-EN 1997-1/NB (Eurocode 7);
- grenstoestand 1A, grenstoestanden 1B en 2 zijn voorlopig buiten beschouwing gelaten;
- indeling in geotechnische categorie 2 (GC2);
- op basis van het sondeerbeeld wordt een fundering op staal geadviseerd;
- uitgangspunt is dat de stroken en poeren centrisch belast worden. Momenten en horizontale lasten worden niet aanwezig geacht;
- het bouwpeil is voorlopig aangehouden op NAP +1,08 m;
- het niveau van de onderkant van de stroken en poeren aangehouden op NAP +0,28 m (0,80 m - Peil).

Berekening van de draagkracht van de stroken en poeren:

Het evenwichtsdraagvermogen van de stroken en poeren is berekend met het programma Technosoft Funderingen op Staal.

De berekeningen zijn uitgevoerd voor de stroken en poeren met verschillende afmetingen.

De resultaten zijn als volgt:

Rd in kN/m[1] voor stroken						
Sondering: 01-10	Gronddekking (m):					
Afmetingen strook (m):	0,3	0,4	0,5	0,6	0,7	0,8
0,50	**52**	**62**	**72**	**82**	**92**	**101**
0,60	**67**	**79**	**91**	**103**	**115**	**126**
0,70	**84**	**97**	**111**	**125**	**139**	**152**
0,80	**100**	**116**	**132**	**148**	**163**	**179**
0,90	**118**	**136**	**154**	**171**	**189**	**207**
1,00	**137**	**157**	**176**	**196**	**216**	**235**
1,10	**156**	**177**	**199**	**220**	**242**	**263**
1,20	**174**	**197**	**221**	**244**	**267**	**290**
1,30	**192**	**217**	**242**	**267**	**292**	**317**
1,40	**211**	**237**	**264**	**290**	**317**	**343**
1,50	**229**	**258**	**286**	**314**	**342**	**370**

Rd in kN voor poeren						
Sondering: 01-10	Gronddekking (m):					
Afmetingen poer (m):	0,3	0,4	0,5	0,6	0,7	0,8
0,50x0,50	**29**	**36**	**44**	**51**	**58**	**65**
0,60x0,60	**44**	**54**	**65**	**75**	**85**	**95**
0,70x0,70	**63**	**77**	**90**	**104**	**118**	**132**
0,80x0,80	**85**	**103**	**121**	**139**	**157**	**176**
0,90x0,90	**110**	**133**	**156**	**179**	**203**	**226**
1,00x1,00	**140**	**168**	**197**	**225**	**254**	**282**
1,10x1,10	**173**	**207**	**242**	**276**	**310**	**345**
1,20x1,20	**209**	**240**	**290**	**330**	**370**	**411**
1,30x1,30	**247**	**294**	**341**	**388**	**435**	**482**
1,40x1,40	**289**	**343**	**396**	**450**	**503**	**557**
1,50x1,50	**335**	**395**	**456**	**517**	**577**	**638**

Als gronddekking dient de werkelijke gronddekking t.o.v. aanlegniveau gerekend te worden.

De beddingsconstante die kan worden gehanteerd voor permanente statische belastingen bedraagt 5-8 MN/m^2 voor de stroken en 12-15 MN/m voor de poeren.

De berekende zettingen bedragen 20-38 mm bij de stroken en 14-17 mm bij de poeren.

In onderstaande tabel is het benodigde ontgravingsniveau voor de grondverbetering onder de stroken per sondering weergegeven.

Sondering:	Minimale ontgravingsdiepte m t.o.v. NAP	Sondering:	Minimale ontgravingsdiepte m t.o.v. NAP
1	-1,30	6	-0,90
2	-1,50	7	-0,60
3	-1,40	8	-1,30
4	-0,70	9	-1,00
5	-0,70	10	-0,70

Algemene richtlijnen voor de grondverbetering:

- de ontgraving dient zodanig breed te zijn dat de funderingsdruk zich vanaf de onderzijde van de fundering onder een hoek van 45° kan spreiden in het goede zandpakket;
- de ontgraving voor de grondverbetering weer aanvullen met schoon zand in lagen van 0,30 m dikte, waarbij iedere laag verdicht dient te worden met een mechanische trilplaat. Dit aantrillen dient te geschieden in 3 gangen per laag, welke om en om haaks op elkaar moeten worden uitgevoerd;
- de aanvulling in den droge uit te voeren, zo nodig de grondwaterstand te verlagen tot 0,50 m onder het ontgravingsniveau;
- het zandpakket onder de funderingsstroken of funderingspoeren dient een minimale sondeerwaarde te hebben van
  4 MN/m^2, vanaf aanlegniveau tot minimaal 1 m minus aanlegniveau;
- indien geen grondverbetering hoeft te worden toegepast, de bouwput natrillen zodat aan bovenstaande eisen wordt voldaan.

Er wordt geadviseerd om rekening te houden met plaatselijk geroerde grond door het slopen van de mestkelder.

Hoogachtend,



ing. B.G. Hoekstra