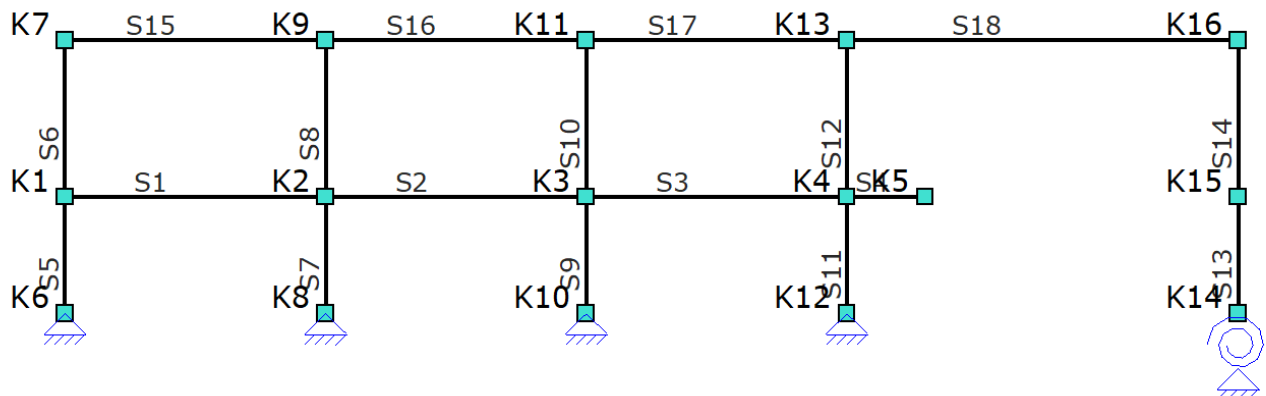


Projectomschrijving		Projectnummer	
Onderdeel		Constructeur	
Opdrachtgever		Eenheden	m, mm, kN, kNm
Bestand	C:\Users\awnis\Desktop\Matrix\Heinenoord spanten midden gedeelte.mxf		

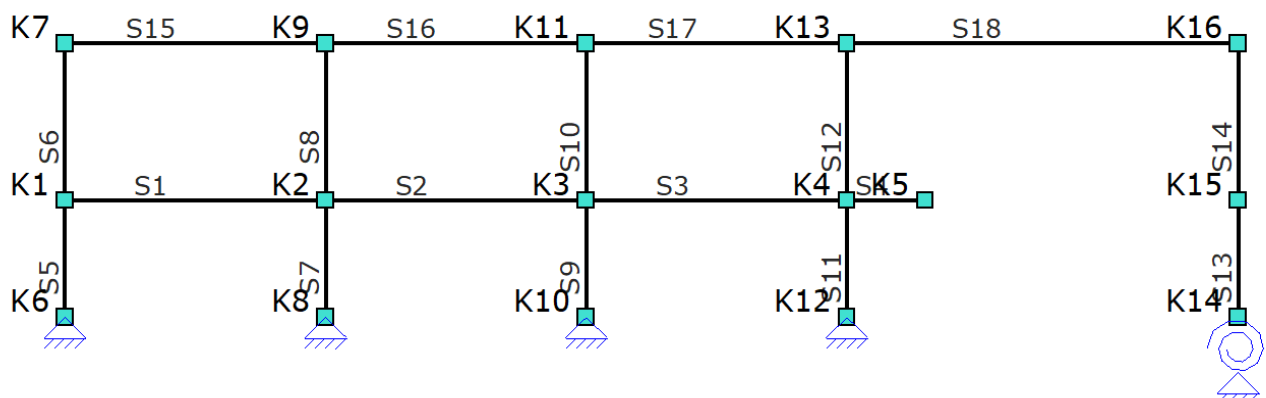
Constructiegegevens



CONSTRUCTIEGEGEVENS

Projecttype	Knopen	Staven	Opleggingen	Profielen	Belastingsgevallen	Belastingscombinaties
2D-Raamwerk	16	18	5	4	5	18

Constructie



STAVEN

Staaf	Knoop-B	Knoop-E	X-B	X-E	Z-B	Z-E	Lengte	Profiel	Positie
S1	K1	K2	0.000	10.000	7.500	7.500	10.000	P4	0.000 - 10.000 (L)
S2	K2	K3	10.000	20.000	7.500	7.500	10.000	P4	0.000 - 10.000 (L)
S3	K3	K4	20.000	30.000	7.500	7.500	10.000	P4	0.000 - 10.000 (L)
S4	K4	K5	30.000	33.000	7.500	7.500	3.000	P4	0.000 - 3.000 (L)
S5	K6	K1	0.000	0.000	12.000	7.500	4.500	P3	0.000 - 4.500 (L)
S6	K1	K7	0.000	0.000	7.500	1.500	6.000	P3	0.000 - 6.000 (L)
S7	K8	K2	10.000	10.000	12.000	7.500	4.500	P3	0.000 - 4.500 (L)
S8	K2	K9	10.000	10.000	7.500	1.500	6.000	P3	0.000 - 6.000 (L)
S9	K10	K3	20.000	20.000	12.000	7.500	4.500	P3	0.000 - 4.500 (L)
S10	K3	K11	20.000	20.000	7.500	1.500	6.000	P3	0.000 - 6.000 (L)
S11	K12	K4	30.000	30.000	12.000	7.500	4.500	P3	0.000 - 4.500 (L)
S12	K4	K13	30.000	30.000	7.500	1.500	6.000	P3	0.000 - 6.000 (L)
S13	K14	K15	45.000	45.000	12.000	7.500	4.500	P3	0.000 - 4.500 (L)
S14	K15	K16	45.000	45.000	7.500	1.500	6.000	P3	0.000 - 6.000 (L)
S15	K7	K9	0.000	10.000	1.500	1.500	10.000	P1	0.000 - 10.000 (L)
S16	K9	K11	10.000	20.000	1.500	1.500	10.000	P1	0.000 - 10.000 (L)
S17	K11	K13	20.000	30.000	1.500	1.500	10.000	P1	0.000 - 10.000 (L)
S18	K13	K16	30.000	45.000	1.500	1.500	15.000	P1	0.000 - 15.000 (L)
			m	m	m	m	m		m



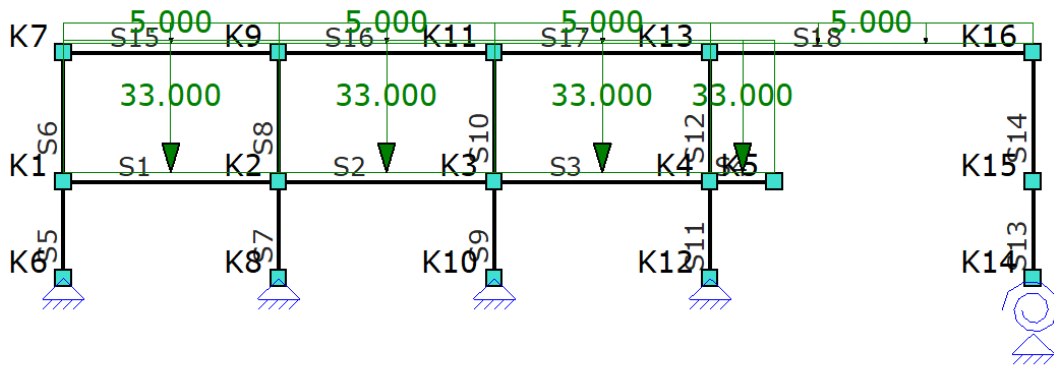
MATERIALEN



Oplegging	Object	Positie	X	Z	Yr	Hoek	Yr
O1	K14	K14	Vast	Vast	20000.00		0
O2	K12	K12	Vast	Vast	Vrij		0
O3	K10	K10	Vast	Vast	Vrij		0
O4	K8	K8	Vast	Vast	Vrij		0
O5	K6	K6	Vast	Vast	Vrij		0
			m kN/m	kN/m	kNm/rad		°

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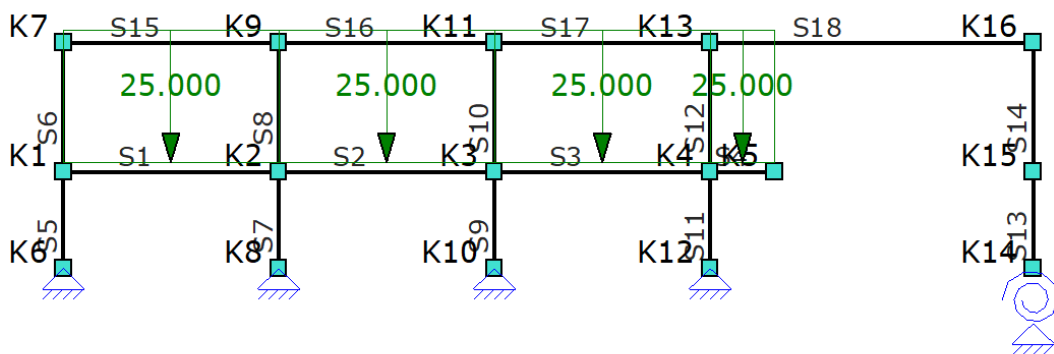
B.G.1: Permanent



B.G.1: PERMANENT

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	5.000	5.000	0.000	L	Z	S15-S18	
q	33.000	33.000	0.000	L	Z	S1-S4	
Som lasten		Z: 1314.000 Yr: 0.000					
			m	m			

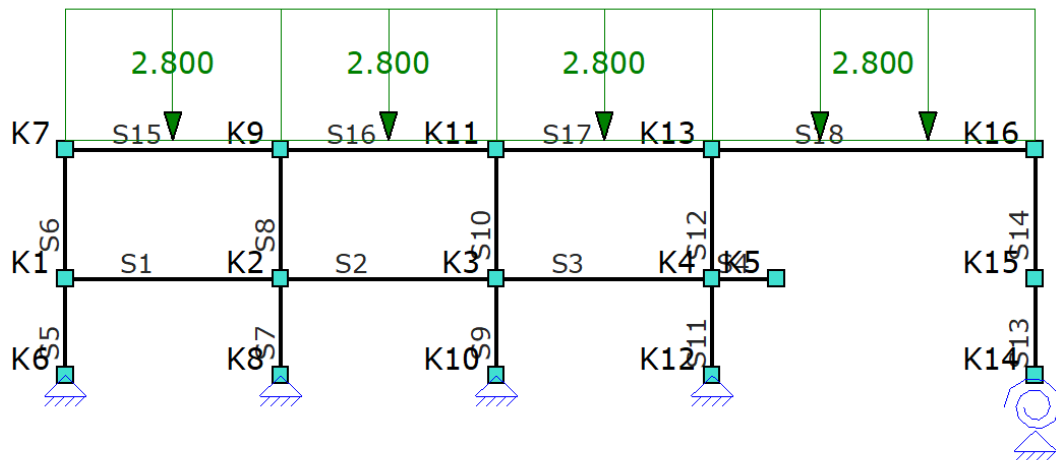
B.G.2: Verdeelde veranderlijke belasting



B.G.2: VERDEELDE VERANDERLIJKE BELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	25.000	25.000	0.000	L	Z	S1-S4	
Som lasten		Z: 825.000 Yr: -0.000					
			m	m			

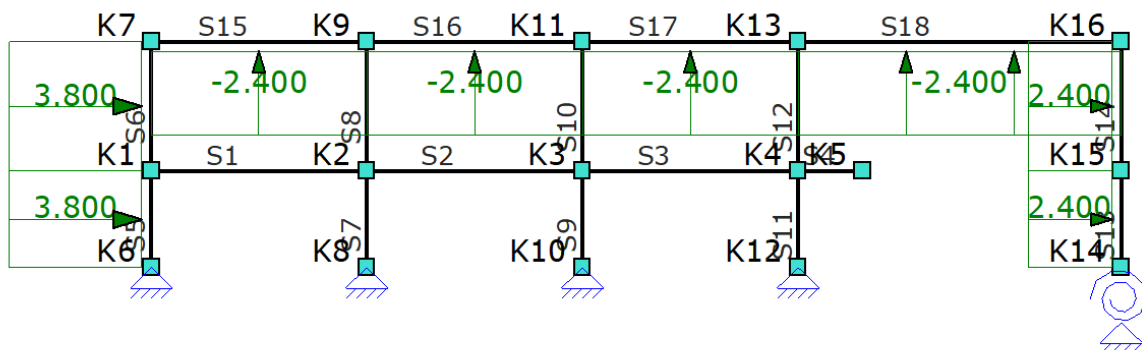
B.G.3: Sneeuwbelasting



B.G.3: SNEEUWBELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	2.800	2.800	0.000	L	Z'	S15-S18	
Som lasten		Z: 126.000 Yr: 0.000					
			m	m			

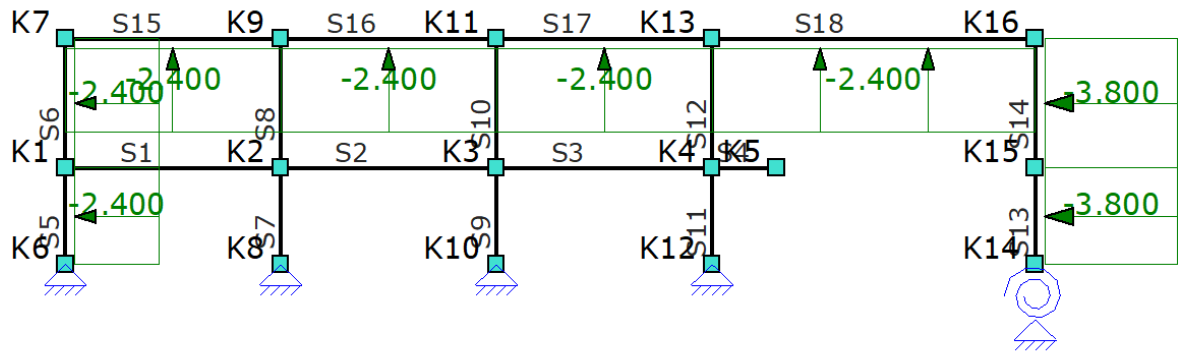
B.G.4: Windbelasting



B.G.4: WINDBELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	3.800	3.800	0.000	L	Z'	S5-S6	
q	2.400	2.400	0.000	L	Z'	S13-S14	
q	-2.400	-2.400	0.000	L	Z'	S15-S18	
Som lasten		X: 65.100 Z: -108.000 Yr: 0.000					
			m	m			

B.G.5: Windbelasting



B.G.5: WINDBELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	-2.400	-2.400	0.000		L	Z' S5-S6,S15-S18	
q	-3.800	-3.800	0.000		L	Z' S13-S14	
Som lasten		X: -65.100 Z: -108.000 Yr: 0.000					
			m	m			

BELASTINGSCOMBINATIES

Fundamenteel

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3	Fu.C.4	Fu.C.5
B.G.1	Permanent	1.08	1.08	1.08	1.08	1.22
B.G.2	Verdeelde veranderlijk...	1.35	0.54	0.54	0.54	0.54
B.G.3	Sneeuwbelasting		1.35			
B.G.4	Windbelasting			1.35		
B.G.5	Windbelasting				1.35	

Karakteristiek

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3	Ka.C.4	Ka.C.5
B.G.1	Permanent	1.00	1.00	1.00	1.00	1.00	1.00
B.G.2	Verdeelde veranderlijk...		0.40	1.00	0.40	0.40	0.40
B.G.3	Sneeuwbelasting				1.00		
B.G.4	Windbelasting					1.00	
B.G.5	Windbelasting						1.00

Quasi-permanent

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Verdeelde veranderlijk...	0.30
B.G.3	Sneeuwbelasting	
B.G.4	Windbelasting	
B.G.5	Windbelasting	

BELASTINGSCOMBINATIES

Fundamenteel

$Fu.C.1 = 1.08 \cdot B.G.1 + 1.35 \cdot B.G.2$
 $Fu.C.2 = 1.08 \cdot B.G.1 + 0.54 \cdot B.G.2 + 1.35 \cdot B.G.3$
 $Fu.C.3 = 1.08 \cdot B.G.1 + 0.54 \cdot B.G.2 + 1.35 \cdot B.G.4$
 $Fu.C.4 = 1.08 \cdot B.G.1 + 0.54 \cdot B.G.2 + 1.35 \cdot B.G.5$

$$Fu.C.5 = 1.22 \cdot B.G.1 + 0.54 \cdot B.G.2$$

Karakteristiek

$$Ka.C.(w1) = B.G.1$$

$$Ka.C.1 = B.G.1 + 0.40 \cdot B.G.2$$

$$Ka.C.2 = B.G.1 + B.G.2$$

$$Ka.C.3 = B.G.1 + 0.40 \cdot B.G.2 + B.G.3$$

$$Ka.C.4 = B.G.1 + 0.40 \cdot B.G.2 + B.G.4$$

$$Ka.C.5 = B.G.1 + 0.40 \cdot B.G.2 + B.G.5$$

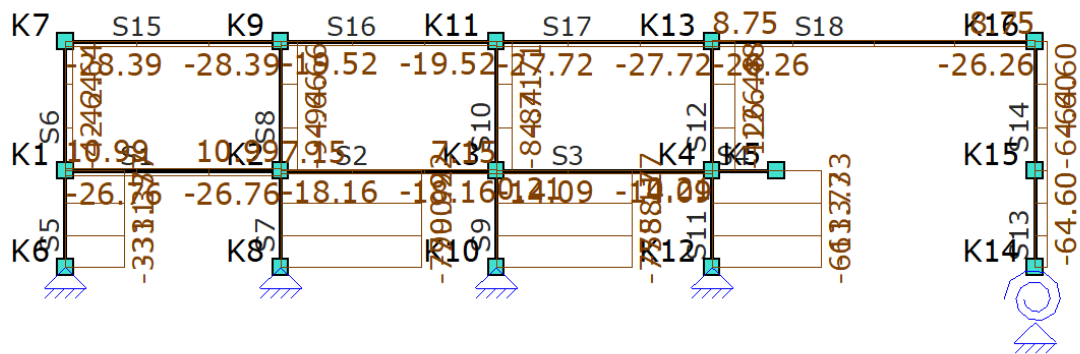
Quasi-permanent

$$Qu.C.1 = B.G.1 + 0.30 \cdot B.G.2$$

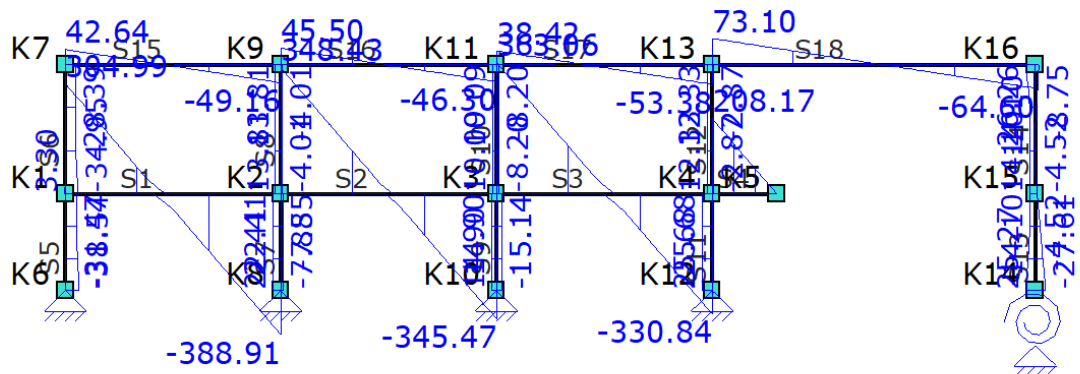
UITGANGSPUNTEN VAN DE ANALYSE

Lineaire Elastische Analyse uitgevoerd

Fu.C. Omhullende Normalkracht (Nx)

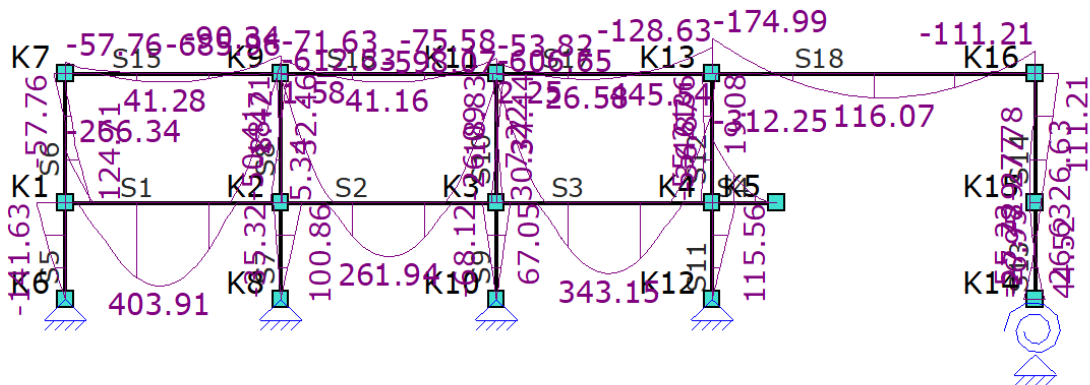


Fu.C. Omhullende Dwarskracht (Vz)

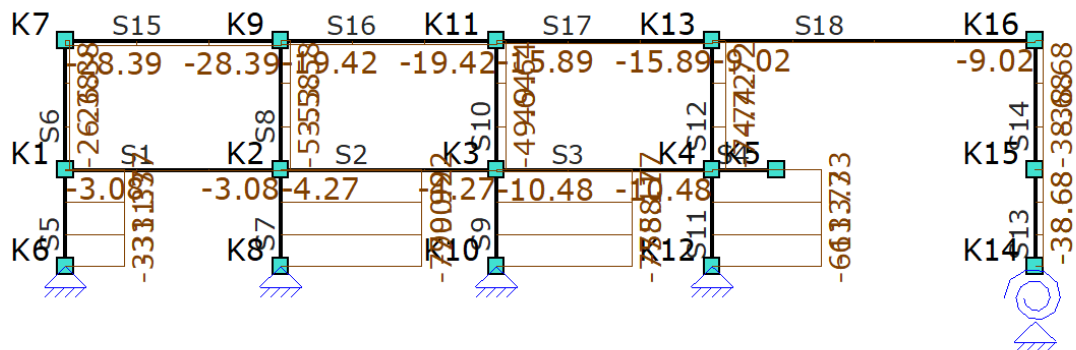


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Fu.C. Omhullende Momenten (My)

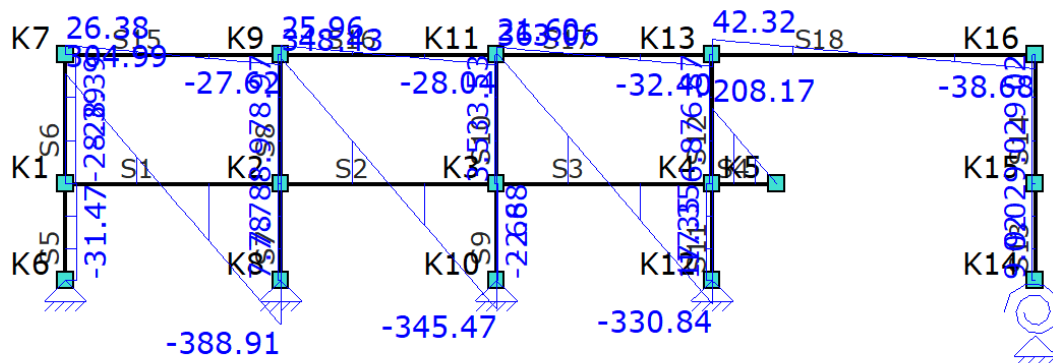


Fu.C.1 Normalkracht (Nx)

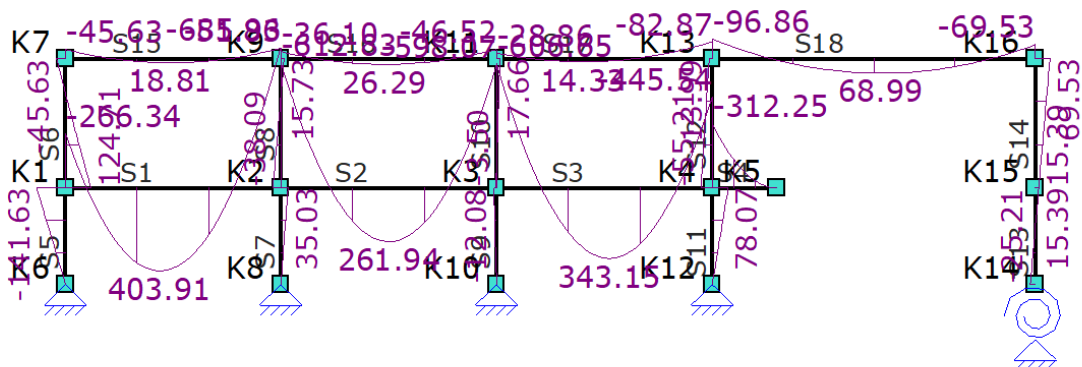


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Fu.C.1 Dwarskracht (Vz)

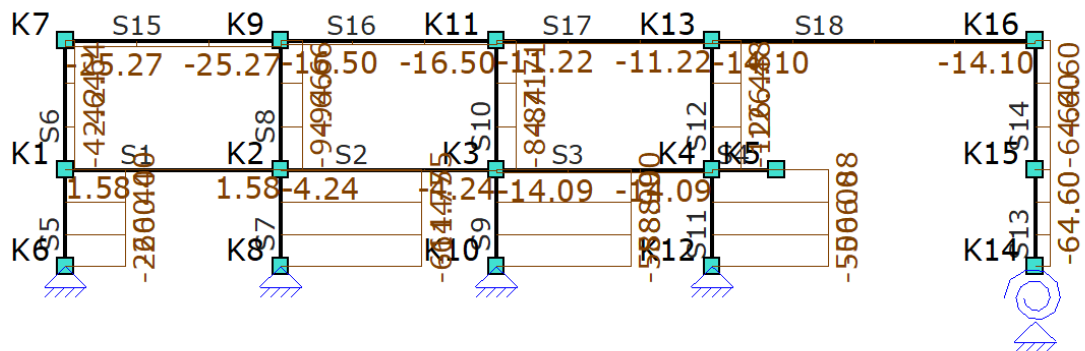


Fu.C.1 Momenten (My)

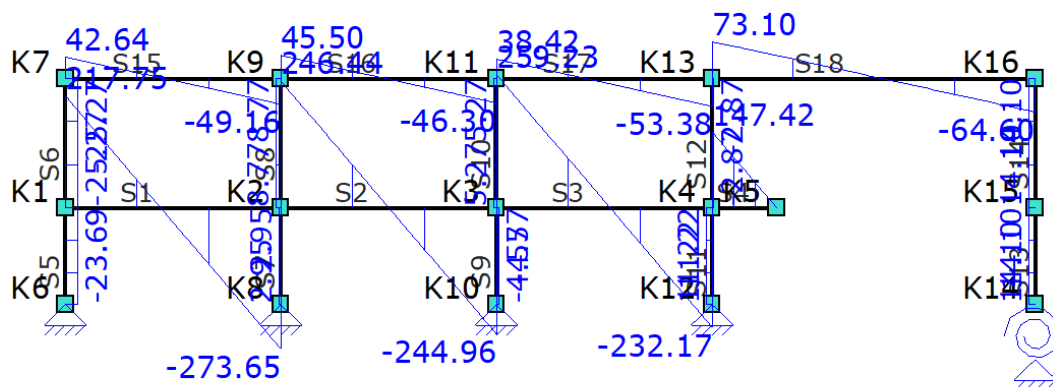


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Fu.C.2 Normalkracht (Nx)

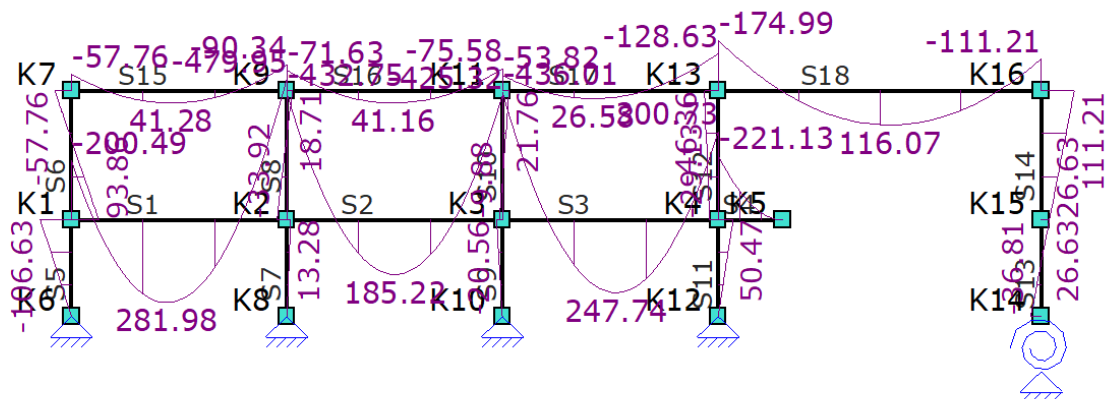


Fu.C.2 Dwarskracht (Vz)

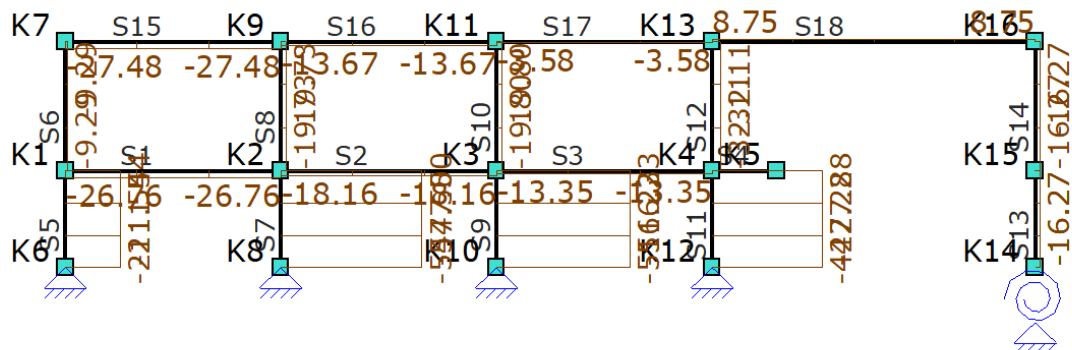


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Fu.C.2 Momenten (My)

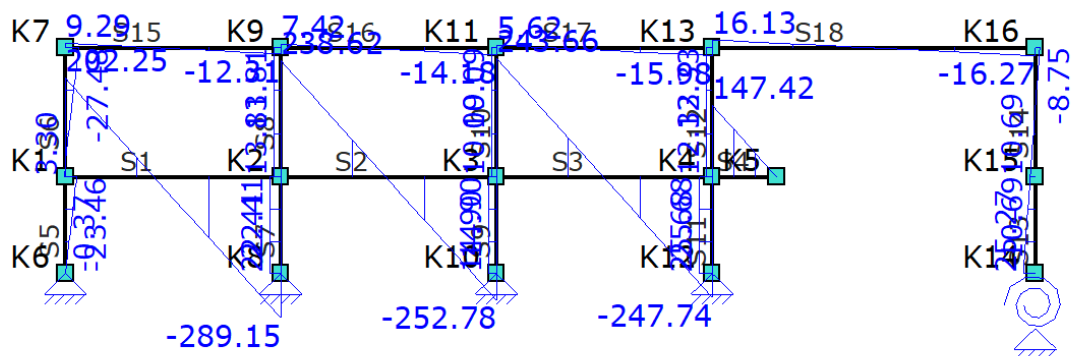


Fu.C.3 Normalkracht (Nx)

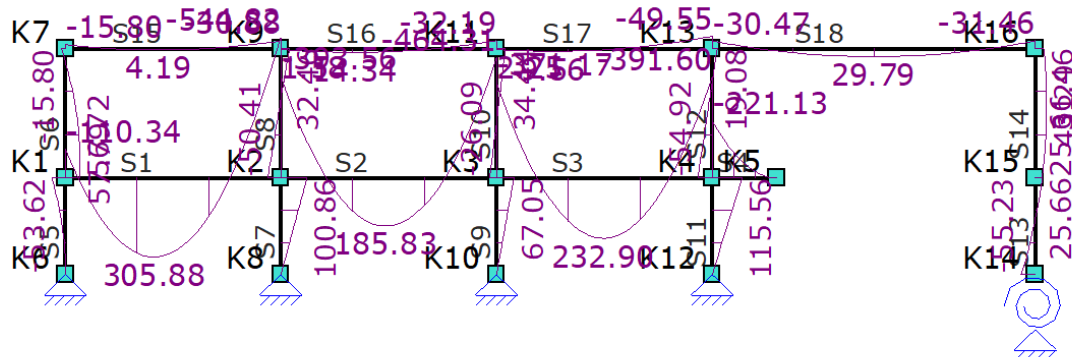


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Fu.C.3 Dwarskracht (Vz)

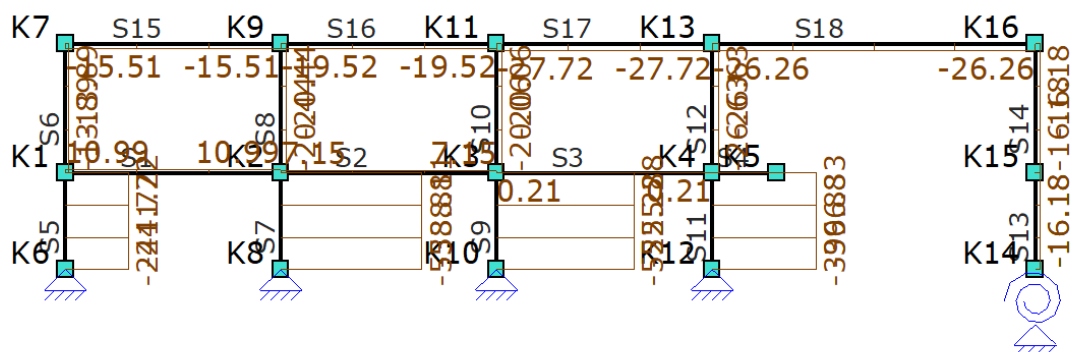


Fu.C.3 Momenten (My)

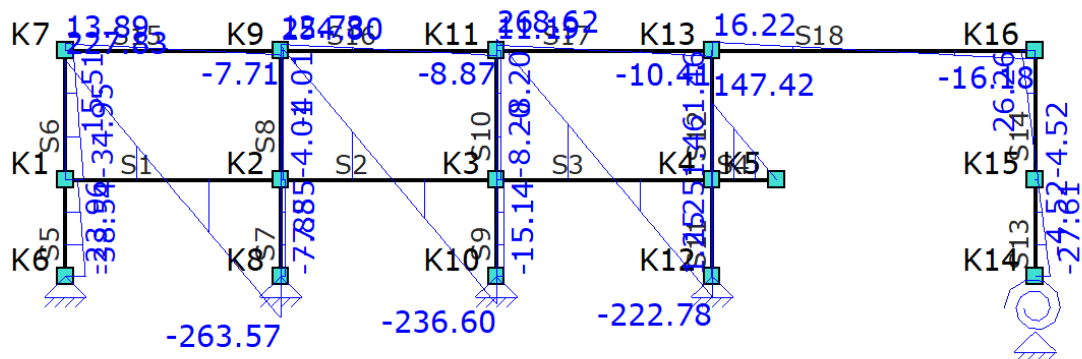


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Fu.C.4 Normalkracht (Nx)

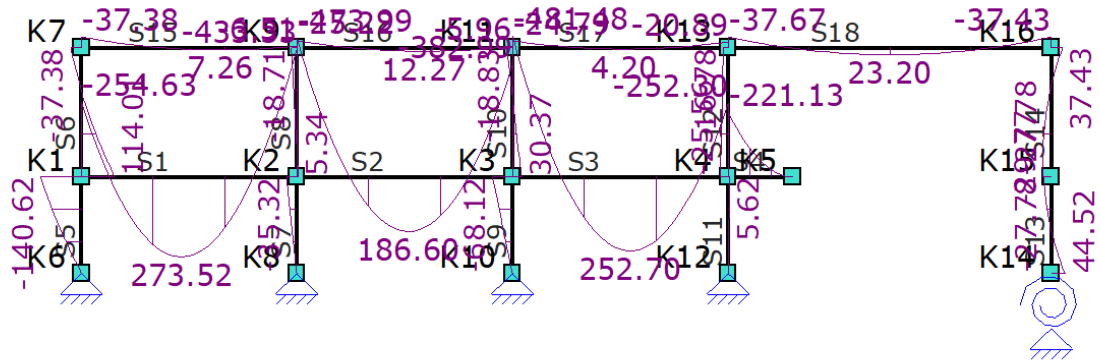


Fu.C.4 Dwarskracht (Vz)

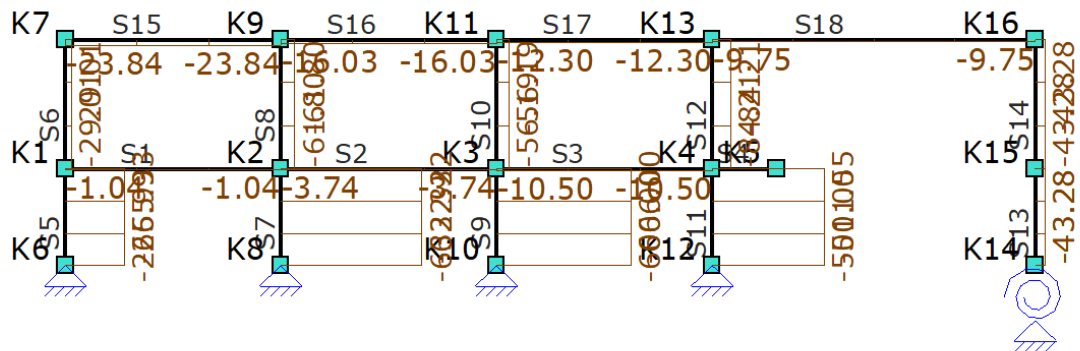


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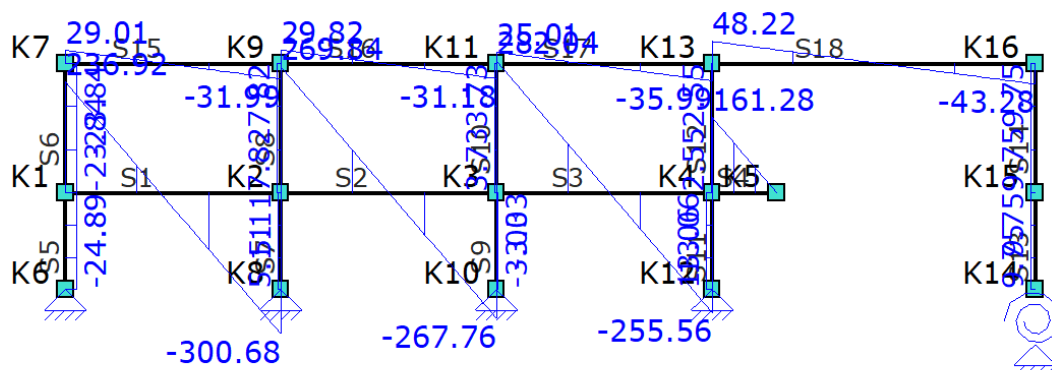
Fu.C.4 Momenten (My)



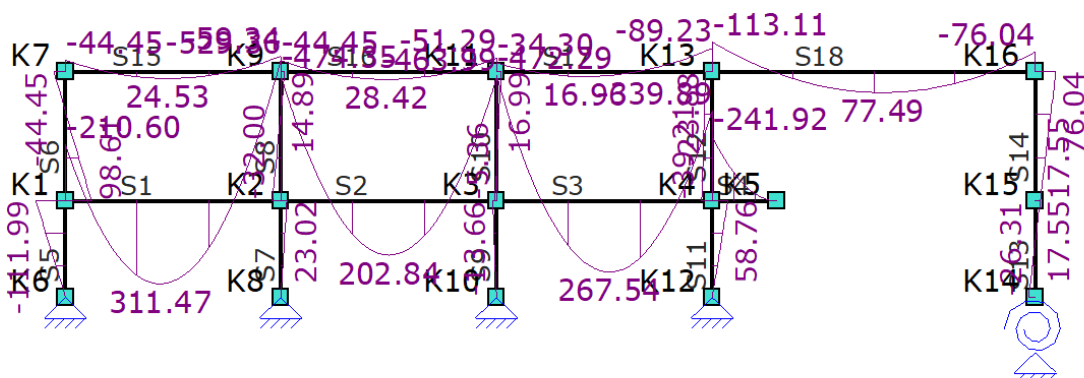
Fu.C.5 Normalkracht (Nx)



Fu.C.5 Dwarskracht (Vz)



Fu.C.5 Momenten (My)



EXTREME STAAFKRACHTEN (FUNDAMENTEEL)

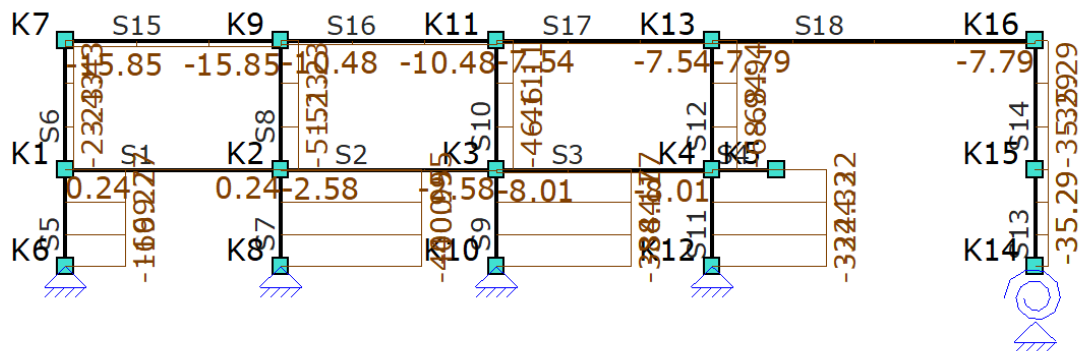
Staaf	Veld	B.C.	M _b	M _{max}	xM _{max}	M _e	x-M0	x-M0	T/D	N _{max}	V _b	V _{max}	V _e
S1	Veld 1 (0.000 - 10.000)	Fu.C.1	-266.34	403.91	4.395	-685.96	0.983	7.807	T	-3.08	304.99	-388.91	-388.91
	Veld 1 (0.000 - 10.000)	Fu.C.3	-110.34	305.88	4.116	-544.82	0.587	7.644	T	-26.76	202.25	-289.15	-289.15
	Veld 1 (0.000 - 10.000)	Fu.C.4	-254.63	273.52	4.636	-433.33	1.300	7.973	D	10.99	227.83	-263.57	-263.57
S2	Veld 1 (0.000 - 10.000)	Fu.C.1	-612.83	261.94	5.021	-598.07	2.274	7.769	T	-4.27	348.43	348.43	-345.47
	Veld 1 (0.000 - 10.000)	Fu.C.3	-393.56	185.83	4.856	-464.31	2.106	7.606	T	-18.16	238.62	-252.78	-252.78
	Veld 1 (0.000 - 10.000)	Fu.C.4	-473.99	186.60	5.185	-382.99	2.429	7.941	D	7.15	254.80	254.80	-236.60
S3	Veld 1 (0.000 - 10.000)	Fu.C.1	-606.65	343.15	5.232	-445.54	2.087	8.377	T	-10.48	363.06	363.06	-330.84
	Veld 1 (0.000 - 10.000)	Fu.C.2	-436.01	247.74	5.275	-300.73	2.100	8.451	T	-14.09	259.23	259.23	-232.17
	Veld 1 (0.000 - 10.000)	Fu.C.3	-371.17	232.90	4.958	-391.60	1.880	8.037	T	-13.35	243.66	-247.74	-247.74
	Veld 1 (0.000 - 10.000)	Fu.C.4	-481.48	252.70	5.466	-252.30	2.259	8.673	D	0.21	268.62	268.62	-222.78
S4	Veld 1 (0.000 - 3.000)	Fu.C.1	-312.25			0.00			-	0.00	208.17	208.17	0.00
S5	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			-141.63			T	-331.37	-31.47	-31.47	-31.47
	Veld 1 (0.000 - 4.500)	Fu.C.4	0.00			-140.62			T	-241.72	-38.54	-38.54	-23.96
m			kNm		kNm	m	kNm	m	m	kN	kN	kN	kN

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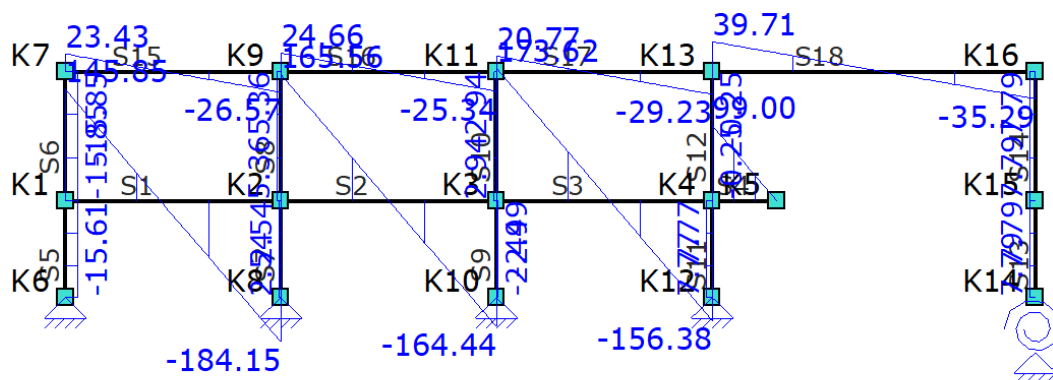
Staaf	Veld	B.C.	M _b	M _{max}	xM _{max}	M _e	x-M0	x-M0	T/D	N _{max}	V _b	V _{max}	V _e
S6	Veld 1 (0.000 - 6.000)	Fu.C.1	124.71			-45.63	4.393		T	-26.38	-28.39	-28.39	-28.39
	Veld 1 (0.000 - 6.000)	Fu.C.2	93.86			-57.76	3.714		T	-42.64	-25.27	-25.27	-25.27
	Veld 1 (0.000 - 6.000)	Fu.C.3	56.72	57.79	0.644	-15.80	5.390		T	-9.29	3.30	-27.48	-27.48
	Veld 1 (0.000 - 6.000)	Fu.C.4	114.01			-37.38	4.006		T	-13.89	-34.95	-34.95	-15.51
S7	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			35.03			T	-790.92	7.78	7.78	7.78
	Veld 1 (0.000 - 4.500)	Fu.C.3	0.00			100.86			T	-547.50	22.41	22.41	22.41
	Veld 1 (0.000 - 4.500)	Fu.C.4	0.00			-35.32			T	-538.81	-7.85	-7.85	-7.85
S8	Veld 1 (0.000 - 6.000)	Fu.C.2	-33.92			18.71	3.867		T	-94.66	8.77	8.77	8.77
	Veld 1 (0.000 - 6.000)	Fu.C.3	-50.41			32.46	3.650		T	-19.73	13.81	13.81	13.81
	Veld 1 (0.000 - 6.000)	Fu.C.4	5.34			-18.71	1.332		T	-20.44	-4.01	-4.01	-4.01
S9	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			-12.08			T	-758.17	-2.68	-2.68	-2.68
	Veld 1 (0.000 - 4.500)	Fu.C.3	0.00			67.05			T	-516.23	14.90	14.90	14.90
	Veld 1 (0.000 - 4.500)	Fu.C.4	0.00			-68.12			T	-525.28	-15.14	-15.14	-15.14
S10	Veld 1 (0.000 - 6.000)	Fu.C.2	-9.88			21.76	1.874		T	-84.71	5.27	5.27	5.27
	Veld 1 (0.000 - 6.000)	Fu.C.3	-26.09			34.44	2.586		T	-19.80	10.09	10.09	10.09
	Veld 1 (0.000 - 6.000)	Fu.C.4	30.37			-18.83	3.704		T	-20.06	-8.20	-8.20	-8.20
S11	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			78.07			T	-613.73	17.35	17.35	17.35
	Veld 1 (0.000 - 4.500)	Fu.C.3	0.00			115.56			T	-427.28	25.68	25.68	25.68
S12	Veld 1 (0.000 - 6.000)	Fu.C.1	-55.21			-13.99			T	-74.72	6.87	6.87	6.87
	Veld 1 (0.000 - 6.000)	Fu.C.2	-29.13			-46.36			T	-126.48	-2.87	-2.87	-2.87
	Veld 1 (0.000 - 6.000)	Fu.C.3	-54.92			19.08	4.453		T	-32.11	12.33	12.33	12.33
S13	Veld 1 (0.000 - 4.500)	Fu.C.2	-36.81			26.63	2.611		T	-64.60	14.10	14.10	14.10
	Veld 1 (0.000 - 4.500)	Fu.C.3	-55.23			25.66	2.629		T	-16.27	25.27	25.27	10.69
	Veld 1 (0.000 - 4.500)	Fu.C.4	44.52			-27.78	1.975		T	-16.18	-27.61	-27.61	-4.52
S14	Veld 1 (0.000 - 6.000)	Fu.C.2	26.63			111.21			T	-64.60	14.10	14.10	14.10
	Veld 1 (0.000 - 6.000)	Fu.C.3	25.66	43.29	3.298	31.46			T	-16.27	10.69	10.69	-8.75
	Veld 1 (0.000 - 6.000)	Fu.C.4	-27.78	-29.77	0.882	37.43	4.288		T	-16.18	-4.52	26.26	26.26
S15	Veld 1 (0.000 - 10.000)	Fu.C.1	-45.63	18.81	4.885	-51.83	2.246	7.525	T	-28.39	26.38	-27.62	-27.62
	Veld 1 (0.000 - 10.000)	Fu.C.2	-57.76	41.28	4.645	-90.34	1.646	7.644	T	-25.27	42.64	-49.16	-49.16
	Veld 1 (0.000 - 10.000)	Fu.C.4	-37.38	7.26	6.429	-6.51	3.836	9.022	T	-15.51	13.89	13.89	-7.71
S16	Veld 1 (0.000 - 10.000)	Fu.C.2	-71.63	41.16	4.957	-75.58	1.963	7.951	T	-16.50	45.50	-46.30	-46.30
	Veld 1 (0.000 - 10.000)	Fu.C.3	1.58	14.34	3.436	-32.19	7.080		T	-13.67	7.42	-14.18	-14.18
	Veld 1 (0.000 - 10.000)	Fu.C.4	-25.22	12.27	5.892	-5.96	2.521	9.262	T	-19.52	12.73	12.73	-8.87
S17	Veld 1 (0.000 - 10.000)	Fu.C.2	-53.82	26.58	4.185	-128.63	1.779	6.591	T	-11.22	38.42	-53.38	-53.38
	Veld 1 (0.000 - 10.000)	Fu.C.3	2.25	9.56	2.602	-49.55	5.578		T	-3.58	5.62	-15.98	-15.98
	Veld 1 (0.000 - 10.000)	Fu.C.4	-24.79	4.20	5.181	-20.89	3.209	7.152	T	-27.72	11.19	11.19	-10.41
S18	Veld 1 (0.000 - 15.000)	Fu.C.2	-174.99	116.07	7.963	-111.21	2.934	12.992	T	-14.10	73.10	73.10	-64.60
	Veld 1 (0.000 - 15.000)	Fu.C.3	-30.47	29.79	7.469	-31.46	2.218	12.721	D	8.75	16.13	-16.27	-16.27
	Veld 1 (0.000 - 15.000)	Fu.C.4	-37.67	23.20	7.508	-37.43	2.873	12.143	T	-26.26	16.22	16.22	-16.18
m			kNm	kNm	m	kNm	m	m		kN	kN	kN	kN

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B.G.1 Normalkracht (Nx)

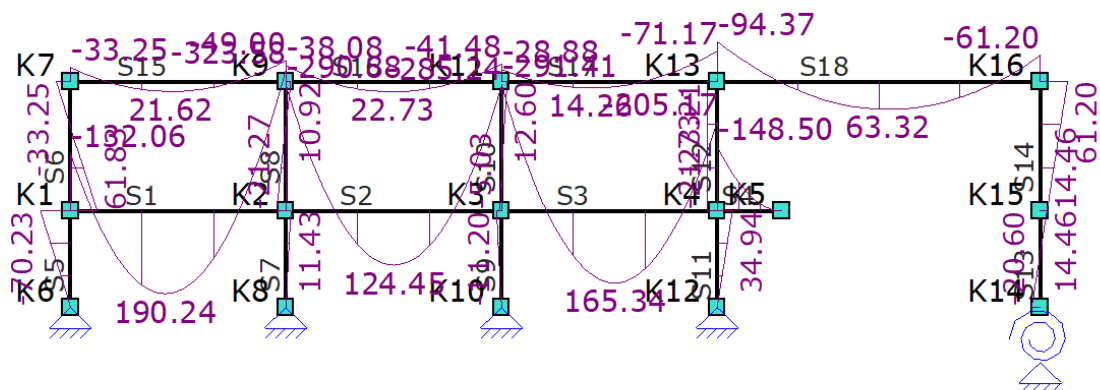


B.G.1 Dwarskracht (Vz)

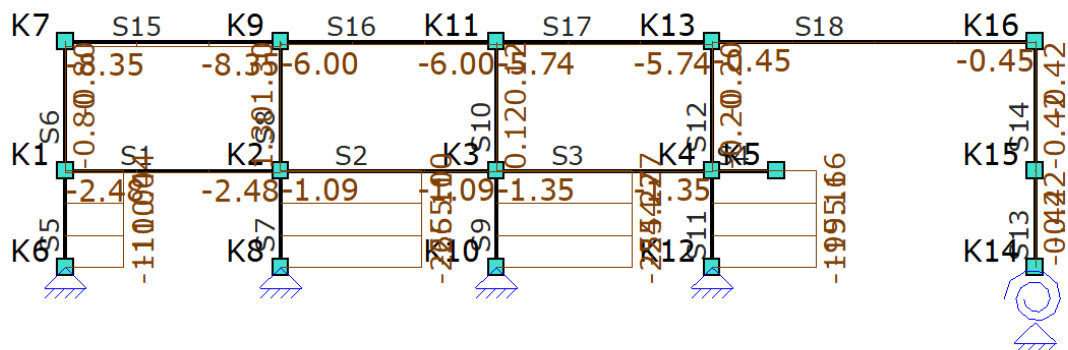


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B.G.1 Momenten (My)

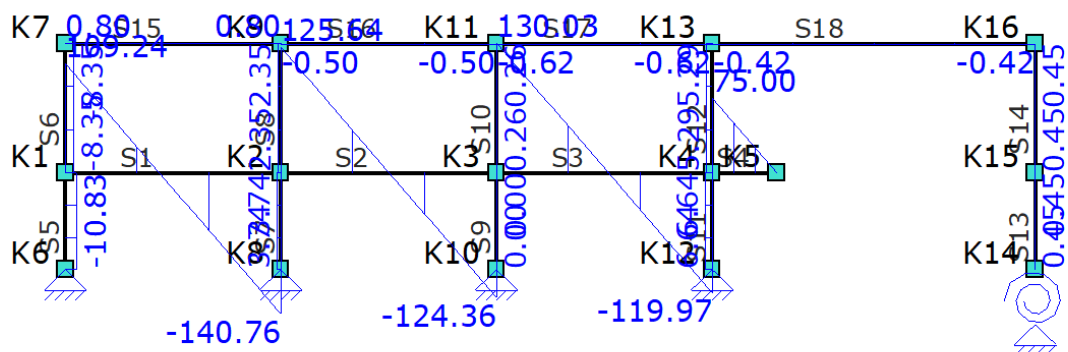


B.G.2 Normalkracht (Nx)

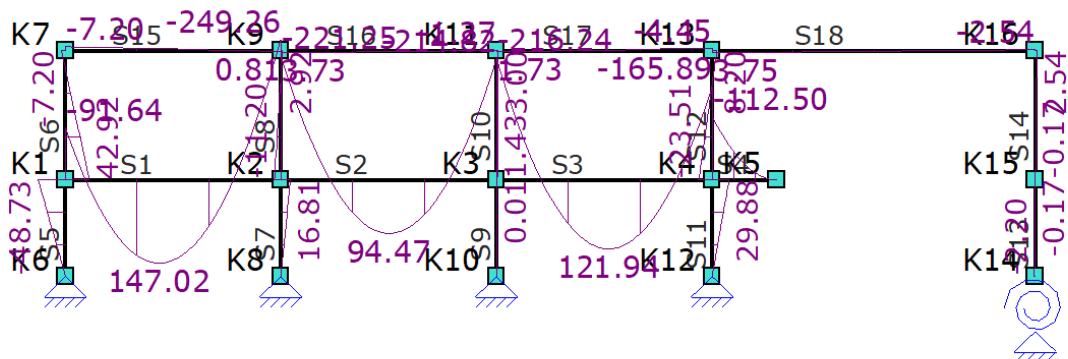


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B.G.2 Dwarskracht (Vz)

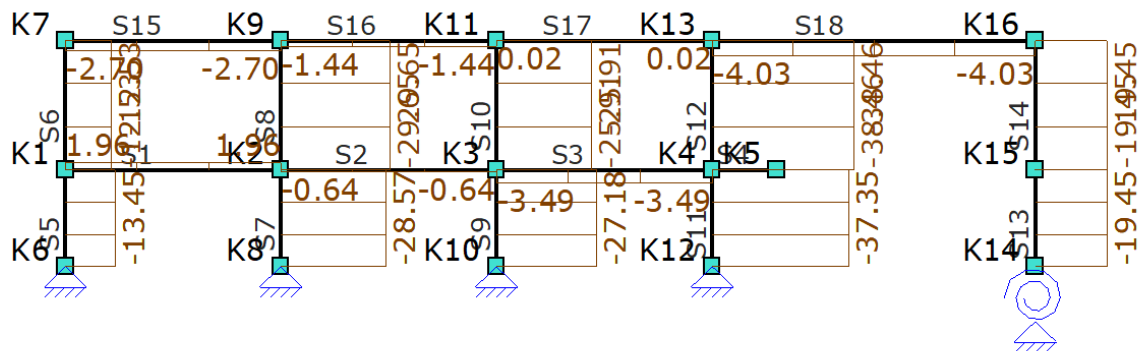


B.G.2 Momenten (My)

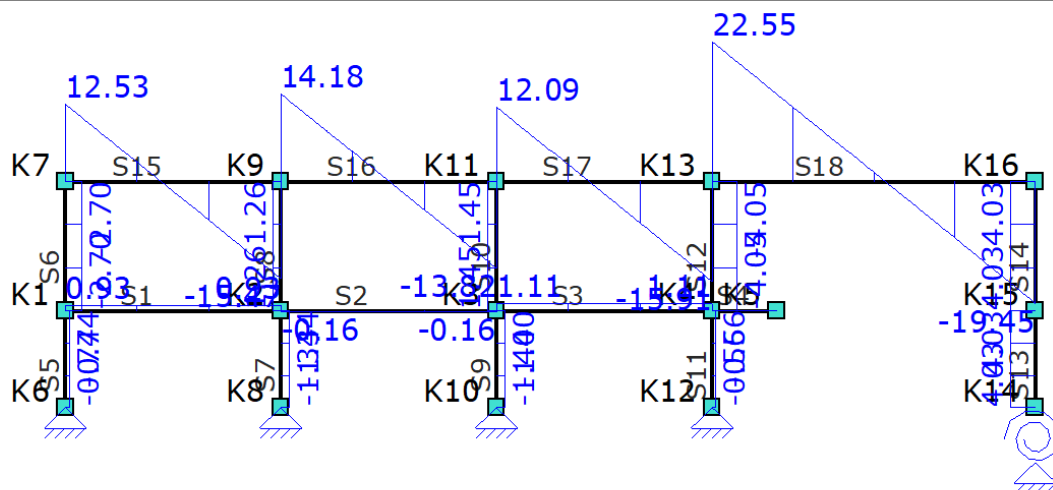


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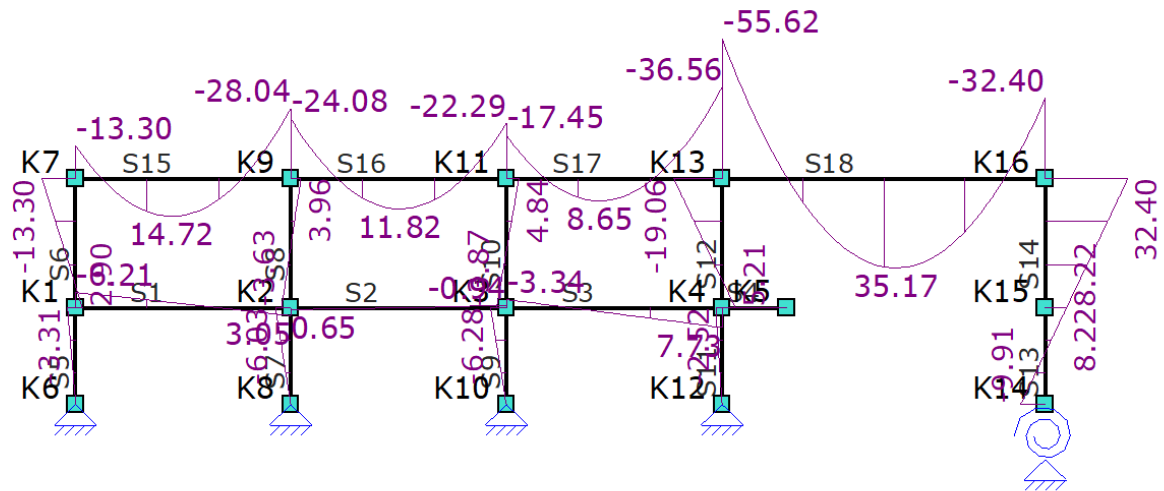
B.G.3 Normaalkracht (Nx)



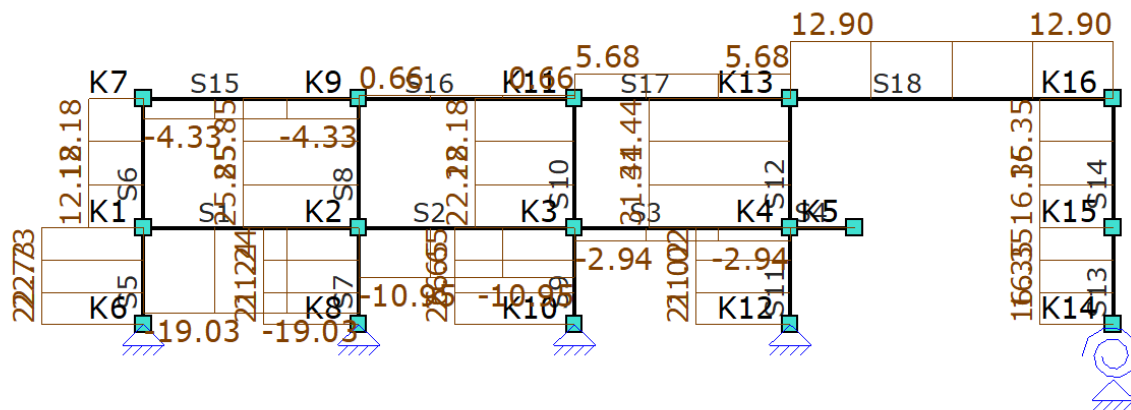
B.G.3 Dwarskracht (Vz)



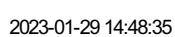
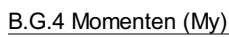
B.G.3 Momenten (My)



B.G.4 Normalkracht (Nx)

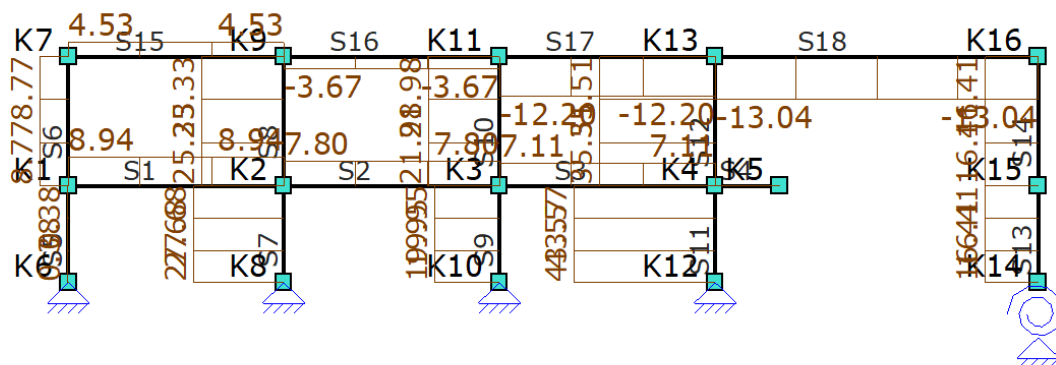


B.G.4 Dwarskracht (Vz)

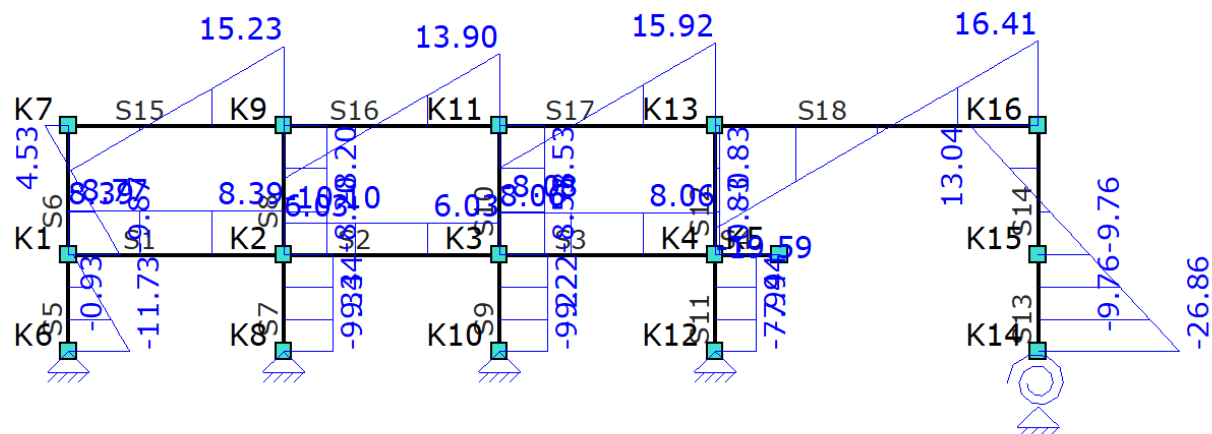


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B.G.5 Normaalkracht (Nx)



B.G.5 Dwarskracht (Vz)



B.G.5 Momenten (My)2023-01-29 14:48:35

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		1.200	-0.5	-0.3	0.00	59.40	-53.46
		1.500	-0.7	-0.3	0.00	49.50	-37.13
		1.800	-0.8	-0.3	0.00	39.60	-23.76
		2.100	-1.0	-0.2	0.00	29.70	-13.36
		2.400	-1.1	-0.1	0.00	19.80	-5.94
		2.700	-1.2	-0.1	0.00	9.90	-1.49
		L(3.000)	-1.3	-0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-169.27	-15.61	0.00
		0.450	-0.6	-0.6	-169.27	-15.61	-7.02
		0.900	-1.2	-1.1	-169.27	-15.61	-14.05
		1.350	-1.6	-1.6	-169.27	-15.61	-21.07
		1.800	-2.0	-2.0	-169.27	-15.61	-28.09
		2.250	-2.3	-2.2	-169.27	-15.61	-35.11
		2.700	-2.3	-2.2	-169.27	-15.61	-42.14
		3.150	-2.2	-2.1	-169.27	-15.61	-49.16
		3.600	-1.8	-1.7	-169.27	-15.61	-56.18
		4.050	-1.1	-1.0	-169.27	-15.61	-63.21
		L(4.500)	-0.1	0.0	-169.27	-15.61	-70.23
	S6	0.000	-0.1	0.0	-23.43	-15.85	61.83
		0.600	1.2	1.1	-23.43	-15.85	52.32
		1.200	2.0	1.7	-23.43	-15.85	42.81
		1.800	2.4	1.9	-23.43	-15.85	33.30
		2.400	2.6	1.9	-23.43	-15.85	23.80
		3.000	2.5	1.6	-23.43	-15.85	14.29
		3.600	2.3	1.2	-23.43	-15.85	4.78
		4.200	2.0	0.7	-23.43	-15.85	-4.73
		4.800	1.8	0.3	-23.43	-15.85	-14.24
		5.400	1.8	0.1	-23.43	-15.85	-23.74
		L(6.000)	1.9	-0.0	-23.43	-15.85	-33.25
	S7	0.000	0.0	0.0	-400.95	2.54	0.00
		0.450	0.1	0.1	-400.95	2.54	1.14
		0.900	0.2	0.2	-400.95	2.54	2.29
		1.350	0.2	0.3	-400.95	2.54	3.43
		1.800	0.3	0.3	-400.95	2.54	4.57
		2.250	0.3	0.4	-400.95	2.54	5.71
		2.700	0.3	0.4	-400.95	2.54	6.86
		3.150	0.3	0.3	-400.95	2.54	8.00
		3.600	0.2	0.3	-400.95	2.54	9.14
		4.050	0.0	0.2	-400.95	2.54	10.28
		L(4.500)	-0.1	-0.0	-400.95	2.54	11.43
	S8	0.000	-0.1	0.0	-51.23	5.36	-21.27
		0.600	-0.3	-0.4	-51.23	5.36	-18.05
		1.200	-0.3	-0.6	-51.23	5.36	-14.83
		1.800	-0.2	-0.7	-51.23	5.36	-11.61
		2.400	-0.0	-0.7	-51.23	5.36	-8.39
		3.000	0.3	-0.6	-51.23	5.36	-5.18
		3.600	0.6	-0.4	-51.23	5.36	-1.96
		4.200	1.0	-0.3	-51.23	5.36	1.26
		4.800	1.3	-0.1	-51.23	5.36	4.48
		5.400	1.6	-0.0	-51.23	5.36	7.70
		L(6.000)	1.9	-0.0	-51.23	5.36	10.92
	S9	0.000	0.0	0.0	-384.17	-2.49	0.00
		0.450	-0.1	-0.1	-384.17	-2.49	-1.12
		0.900	-0.2	-0.2	-384.17	-2.49	-2.24
		1.350	-0.3	-0.3	-384.17	-2.49	-3.36
		1.800	-0.4	-0.3	-384.17	-2.49	-4.48
		2.250	-0.4	-0.4	-384.17	-2.49	-5.60
		2.700	-0.4	-0.4	-384.17	-2.49	-6.72
		3.150	-0.4	-0.3	-384.17	-2.49	-7.84
		3.600	-0.4	-0.3	-384.17	-2.49	-8.96
		4.050	-0.3	-0.2	-384.17	-2.49	-10.08
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		L(4.500)	-0.1	0.0	-384.17	-2.49	-11.20
	S10	0.000	-0.1	0.0	-46.11	2.94	-5.03
		0.600	0.1	0.1	-46.11	2.94	-3.26
		1.200	0.4	0.1	-46.11	2.94	-1.50
		1.800	0.7	0.2	-46.11	2.94	0.26
		2.400	1.0	0.3	-46.11	2.94	2.02
		3.000	1.3	0.4	-46.11	2.94	3.79
		3.600	1.5	0.5	-46.11	2.94	5.55
		4.200	1.7	0.5	-46.11	2.94	7.31
		4.800	1.8	0.4	-46.11	2.94	9.08
		5.400	1.9	0.2	-46.11	2.94	10.84
		L(6.000)	1.8	0.0	-46.11	2.94	12.60
	S11	0.000	0.0	0.0	-324.32	7.77	0.00
		0.450	0.3	0.3	-324.32	7.77	3.49
		0.900	0.5	0.6	-324.32	7.77	6.99
		1.350	0.8	0.8	-324.32	7.77	10.48
		1.800	0.9	1.0	-324.32	7.77	13.98
		2.250	1.0	1.1	-324.32	7.77	17.47
		2.700	1.0	1.1	-324.32	7.77	20.97
		3.150	0.9	1.0	-324.32	7.77	24.46
		3.600	0.7	0.8	-324.32	7.77	27.95
		4.050	0.4	0.5	-324.32	7.77	31.45
		L(4.500)	-0.1	-0.0	-324.32	7.77	34.94
	S12	0.000	-0.1	0.0	-68.94	-0.25	-21.73
		0.600	-0.8	-0.9	-68.94	-0.25	-21.88
		1.200	-1.3	-1.6	-68.94	-0.25	-22.02
		1.800	-1.7	-2.1	-68.94	-0.25	-22.17
		2.400	-1.8	-2.4	-68.94	-0.25	-22.32
		3.000	-1.7	-2.5	-68.94	-0.25	-22.47
		3.600	-1.4	-2.4	-68.94	-0.25	-22.61
		4.200	-0.9	-2.1	-68.94	-0.25	-22.76
		4.800	-0.2	-1.6	-68.94	-0.25	-22.91
		5.400	0.7	-0.9	-68.94	-0.25	-23.06
		L(6.000)	1.8	-0.0	-68.94	-0.25	-23.21
	S13	0.000	0.0	0.0	-35.29	7.79	-20.60
		0.450	0.5	-0.2	-35.29	7.79	-17.09
		0.900	1.1	-0.3	-35.29	7.79	-13.58
		1.350	1.8	-0.3	-35.29	7.79	-10.08
		1.800	2.5	-0.3	-35.29	7.79	-6.57
		2.250	3.2	-0.2	-35.29	7.79	-3.07
		2.700	4.0	-0.1	-35.29	7.79	0.44
		3.150	4.8	-0.0	-35.29	7.79	3.94
		3.600	5.5	0.0	-35.29	7.79	7.45
		4.050	6.2	0.0	-35.29	7.79	10.96
		L(4.500)	6.9	-0.0	-35.29	7.79	14.46
	S14	0.000	6.9	0.0	-35.29	7.79	14.46
		0.600	7.6	1.3	-35.29	7.79	19.14
		1.200	8.2	2.4	-35.29	7.79	23.81
		1.800	8.6	3.2	-35.29	7.79	28.48
		2.400	8.7	3.9	-35.29	7.79	33.16
		3.000	8.5	4.2	-35.29	7.79	37.83
		3.600	8.0	4.2	-35.29	7.79	42.51
		4.200	7.1	3.8	-35.29	7.79	47.18
		4.800	5.8	3.0	-35.29	7.79	51.86
		5.400	4.0	1.8	-35.29	7.79	56.53
		L(6.000)	1.7	0.0	-35.29	7.79	61.20
	S15	0.000	0.3	0.0	-15.85	23.43	-33.25
		1.000	1.1	0.7	-15.85	18.43	-12.33
		2.000	2.2	1.8	-15.85	13.43	3.60
		3.000	3.3	2.8	-15.85	8.43	14.52
		4.000	4.0	3.5	-15.85	3.43	20.45
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My	
	S16	5.000	4.1	3.6	-15.85	-1.57	21.37	
		6.000	3.7	3.1	-15.85	-6.57	17.30	
		7.000	2.9	2.3	-15.85	-11.57	8.22	
		8.000	1.9	1.2	-15.85	-16.57	-5.85	
		9.000	1.0	0.3	-15.85	-21.57	-24.93	
		L(10.000)	0.8	0.0	-15.85	-26.57	-49.00	
		0.000	0.8	0.0	-10.48	24.66	-38.08	
		1.000	1.5	0.7	-10.48	19.66	-15.92	
		2.000	2.6	1.9	-10.48	14.66	1.24	
		3.000	3.7	3.0	-10.48	9.66	13.40	
		4.000	4.5	3.8	-10.48	4.66	20.56	
		5.000	4.8	4.0	-10.48	-0.34	22.72	
		6.000	4.4	3.7	-10.48	-5.34	19.88	
		7.000	3.6	2.8	-10.48	-10.34	12.04	
		8.000	2.4	1.7	-10.48	-15.34	-0.80	
		9.000	1.3	0.6	-10.48	-20.34	-18.64	
		S17	L(10.000)	0.7	0.0	-10.48	-25.34	-41.48
	0.000		0.7	0.0	-7.54	20.77	-28.88	
	1.000		0.8	0.1	-7.54	15.77	-10.61	
	2.000		1.2	0.5	-7.54	10.77	2.66	
	3.000		1.6	0.9	-7.54	5.77	10.93	
	4.000		1.7	1.0	-7.54	0.77	14.20	
	5.000		1.4	0.7	-7.54	-4.23	12.47	
	6.000		0.8	0.1	-7.54	-9.23	5.75	
	7.000		0.0	-0.7	-7.54	-14.23	-5.98	
	8.000		-0.5	-1.2	-7.54	-19.23	-22.71	
	S18	9.000	-0.5	-1.2	-7.54	-24.23	-44.44	
		L(10.000)	0.7	-0.0	-7.54	-29.23	-71.17	
		0.000	0.7	0.0	-7.79	39.71	-94.37	
		1.500	5.9	5.3	-7.79	32.21	-40.43	
		3.000	13.5	13.0	-7.79	24.71	2.26	
		4.500	21.1	20.6	-7.79	17.21	33.70	
		6.000	26.8	26.3	-7.79	9.71	53.89	
		7.500	29.3	28.9	-7.79	2.21	62.84	
		9.000	28.2	27.9	-7.79	-5.29	60.53	
		10.500	23.6	23.3	-7.79	-12.79	46.97	
	B.G.2	S1	12.000	16.3	16.1	-7.79	-20.29	22.16
			13.500	7.8	7.6	-7.79	-27.79	-13.90
			L(15.000)	0.1	-0.0	-7.79	-35.29	-61.20
			0.000	0.2	0.0	-2.48	109.24	-91.64
			1.000	2.4	2.2	-2.48	84.24	5.10
			2.000	4.7	4.5	-2.48	59.24	76.83
			3.000	6.5	6.2	-2.48	34.24	123.57
			4.000	7.4	7.2	-2.48	9.24	145.31
			5.000	7.5	7.2	-2.48	-15.76	142.05
			6.000	6.7	6.4	-2.48	-40.76	113.79
		S2	7.000	5.1	4.8	-2.48	-65.76	60.53
			8.000	3.2	2.8	-2.48	-90.76	-17.73
			9.000	1.4	1.0	-2.48	-115.76	-120.99
			L(10.000)	0.4	-0.0	-2.48	-140.76	-249.26
			0.000	0.4	0.0	-1.09	125.64	-221.25
			1.000	0.7	0.2	-1.09	100.64	-108.10
			2.000	1.6	1.2	-1.09	75.64	-19.96
			3.000	2.7	2.3	-1.09	50.64	43.18
			4.000	3.5	3.1	-1.09	25.64	81.32
			5.000	3.8	3.4	-1.09	0.64	94.47
			6.000	3.5	3.1	-1.09	-24.36	82.61
			7.000	2.7	2.3	-1.09	-49.36	45.75
			8.000	1.7	1.2	-1.09	-74.36	-16.11
			9.000	0.7	0.3	-1.09	-99.36	-102.97
			L(10.000)	0.4	-0.0	-1.09	-124.36	-214.82
		m	mm	mm	kN	kN	kNm	

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
	S3	0.000	0.4	0.0	-1.35	130.03	-216.24
		1.000	1.3	0.8	-1.35	105.03	-98.71
		2.000	2.7	2.3	-1.35	80.03	-6.17
		3.000	4.3	3.9	-1.35	55.03	61.36
		4.000	5.4	5.0	-1.35	30.03	103.90
		5.000	5.9	5.6	-1.35	5.03	121.43
		6.000	5.7	5.3	-1.35	-19.97	113.97
		7.000	4.7	4.3	-1.35	-44.97	81.50
		8.000	3.2	2.9	-1.35	-69.97	24.04
		9.000	1.6	1.2	-1.35	-94.97	-58.43
		L(10.000)	0.3	0.0	-1.35	-119.97	-165.89
	S4	0.000	0.3	0.0	0.00	75.00	-112.50
		0.300	0.1	-0.1	0.00	67.50	-91.13
		0.600	-0.1	-0.2	0.00	60.00	-72.00
		0.900	-0.2	-0.2	0.00	52.50	-55.13
		1.200	-0.3	-0.3	0.00	45.00	-40.50
		1.500	-0.4	-0.2	0.00	37.50	-28.13
		1.800	-0.4	-0.2	0.00	30.00	-18.00
		2.100	-0.5	-0.2	0.00	22.50	-10.12
		2.400	-0.5	-0.1	0.00	15.00	-4.50
		2.700	-0.5	-0.1	0.00	7.50	-1.13
		L(3.000)	-0.6	-0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-110.04	-10.83	0.00
		0.450	-0.3	-0.4	-110.04	-10.83	-4.87
		0.900	-0.5	-0.8	-110.04	-10.83	-9.75
		1.350	-0.7	-1.1	-110.04	-10.83	-14.62
		1.800	-0.9	-1.4	-110.04	-10.83	-19.49
		2.250	-0.9	-1.5	-110.04	-10.83	-24.36
		2.700	-0.8	-1.6	-110.04	-10.83	-29.24
		3.150	-0.6	-1.5	-110.04	-10.83	-34.11
		3.600	-0.2	-1.2	-110.04	-10.83	-38.98
		4.050	0.4	-0.7	-110.04	-10.83	-43.85
		L(4.500)	1.2	0.0	-110.04	-10.83	-48.73
	S6	0.000	1.2	0.0	-0.80	-8.35	42.92
		0.600	2.3	1.0	-0.80	-8.35	37.91
		1.200	3.0	1.6	-0.80	-8.35	32.89
		1.800	3.5	2.0	-0.80	-8.35	27.88
		2.400	3.7	2.1	-0.80	-8.35	22.87
		3.000	3.7	2.0	-0.80	-8.35	17.86
		3.600	3.5	1.7	-0.80	-8.35	12.85
		4.200	3.2	1.4	-0.80	-8.35	7.84
		4.800	2.8	0.9	-0.80	-8.35	2.83
		5.400	2.4	0.4	-0.80	-8.35	-2.18
		L(6.000)	2.1	0.0	-0.80	-8.35	-7.20
	S7	0.000	0.0	0.0	-265.10	3.74	0.00
		0.450	0.3	0.1	-265.10	3.74	1.68
		0.900	0.5	0.3	-265.10	3.74	3.36
		1.350	0.8	0.4	-265.10	3.74	5.04
		1.800	1.0	0.5	-265.10	3.74	6.72
		2.250	1.1	0.5	-265.10	3.74	8.40
		2.700	1.3	0.5	-265.10	3.74	10.09
		3.150	1.4	0.5	-265.10	3.74	11.77
		3.600	1.4	0.4	-265.10	3.74	13.45
		4.050	1.4	0.2	-265.10	3.74	15.13
		L(4.500)	1.2	-0.0	-265.10	3.74	16.81
	S8	0.000	1.2	0.0	1.30	2.35	-11.20
		0.600	1.1	-0.2	1.30	2.35	-9.79
		1.200	1.0	-0.4	1.30	2.35	-8.38
		1.800	1.0	-0.5	1.30	2.35	-6.97
		2.400	1.1	-0.5	1.30	2.35	-5.56
		3.000	1.2	-0.5	1.30	2.35	-4.14
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.600	1.3	-0.4	1.30	2.35	-2.73
		4.200	1.5	-0.3	1.30	2.35	-1.32
		4.800	1.7	-0.2	1.30	2.35	0.09
		5.400	1.9	-0.1	1.30	2.35	1.50
		L(6.000)	2.0	-0.0	1.30	2.35	2.92
	S9	0.000	0.0	0.0	-254.27	0.00	0.00
		0.450	0.1	0.0	-254.27	0.00	0.00
		0.900	0.2	0.0	-254.27	0.00	0.00
		1.350	0.4	0.0	-254.27	0.00	0.00
		1.800	0.5	0.0	-254.27	0.00	0.00
		2.250	0.6	0.0	-254.27	0.00	0.00
		2.700	0.7	0.0	-254.27	0.00	0.01
		3.150	0.9	0.0	-254.27	0.00	0.01
		3.600	1.0	0.0	-254.27	0.00	0.01
		4.050	1.1	0.0	-254.27	0.00	0.01
		L(4.500)	1.2	0.0	-254.27	0.00	0.01
	S10	0.000	1.2	0.0	0.12	0.26	1.43
		0.600	1.4	0.1	0.12	0.26	1.58
		1.200	1.5	0.1	0.12	0.26	1.74
		1.800	1.7	0.2	0.12	0.26	1.90
		2.400	1.8	0.2	0.12	0.26	2.06
		3.000	1.9	0.2	0.12	0.26	2.21
		3.600	2.0	0.2	0.12	0.26	2.37
		4.200	2.0	0.2	0.12	0.26	2.53
		4.800	2.0	0.2	0.12	0.26	2.68
		5.400	2.0	0.1	0.12	0.26	2.84
		L(6.000)	2.0	0.0	0.12	0.26	3.00
	S11	0.000	0.0	0.0	-195.16	6.64	0.00
		0.450	0.4	0.2	-195.16	6.64	2.99
		0.900	0.7	0.5	-195.16	6.64	5.98
		1.350	1.1	0.7	-195.16	6.64	8.96
		1.800	1.3	0.8	-195.16	6.64	11.95
		2.250	1.6	0.9	-195.16	6.64	14.94
		2.700	1.7	1.0	-195.16	6.64	17.93
		3.150	1.8	0.9	-195.16	6.64	20.91
		3.600	1.7	0.7	-195.16	6.64	23.90
		4.050	1.5	0.4	-195.16	6.64	26.89
		L(4.500)	1.2	-0.0	-195.16	6.64	29.88
	S12	0.000	1.2	0.0	-0.20	5.29	-23.51
		0.600	0.8	-0.5	-0.20	5.29	-20.34
		1.200	0.6	-0.8	-0.20	5.29	-17.17
		1.800	0.6	-0.9	-0.20	5.29	-14.00
		2.400	0.6	-0.9	-0.20	5.29	-10.83
		3.000	0.8	-0.9	-0.20	5.29	-7.65
		3.600	1.0	-0.7	-0.20	5.29	-4.48
		4.200	1.3	-0.5	-0.20	5.29	-1.31
		4.800	1.5	-0.3	-0.20	5.29	1.86
		5.400	1.8	-0.1	-0.20	5.29	5.03
		L(6.000)	2.0	-0.0	-0.20	5.29	8.20
	S13	0.000	0.0	0.0	-0.42	0.45	-2.20
		0.450	0.1	-0.0	-0.42	0.45	-1.99
		0.900	0.1	-0.1	-0.42	0.45	-1.79
		1.350	0.2	-0.1	-0.42	0.45	-1.59
		1.800	0.3	-0.1	-0.42	0.45	-1.38
		2.250	0.4	-0.1	-0.42	0.45	-1.18
		2.700	0.5	-0.1	-0.42	0.45	-0.98
		3.150	0.6	-0.1	-0.42	0.45	-0.78
		3.600	0.7	-0.0	-0.42	0.45	-0.57
		4.050	0.8	-0.0	-0.42	0.45	-0.37
		L(4.500)	0.9	0.0	-0.42	0.45	-0.17
	S14	0.000	0.9	0.0	-0.42	0.45	-0.17
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		0.600	1.0	0.0	-0.42	0.45	0.10
		1.200	1.2	0.1	-0.42	0.45	0.37
		1.800	1.3	0.1	-0.42	0.45	0.64
		2.400	1.4	0.1	-0.42	0.45	0.92
		3.000	1.6	0.1	-0.42	0.45	1.19
		3.600	1.7	0.1	-0.42	0.45	1.46
		4.200	1.8	0.1	-0.42	0.45	1.73
		4.800	1.9	0.1	-0.42	0.45	2.00
		5.400	1.9	0.1	-0.42	0.45	2.27
		L(6.000)	2.0	0.0	-0.42	0.45	2.54
	S15	0.000	0.2	0.0	-8.35	0.80	-7.20
		1.000	-0.3	-0.5	-8.35	0.80	-6.40
		2.000	-0.6	-0.8	-8.35	0.80	-5.59
		3.000	-0.8	-1.0	-8.35	0.80	-4.79
		4.000	-0.8	-1.1	-8.35	0.80	-3.99
		5.000	-0.7	-1.0	-8.35	0.80	-3.19
		6.000	-0.6	-0.9	-8.35	0.80	-2.39
		7.000	-0.4	-0.7	-8.35	0.80	-1.59
		8.000	-0.1	-0.5	-8.35	0.80	-0.79
		9.000	0.2	-0.2	-8.35	0.80	0.01
		L(10.000)	0.4	-0.0	-8.35	0.80	0.81
	S16	0.000	0.4	0.0	-6.00	-0.50	3.73
		1.000	0.7	0.2	-6.00	-0.50	3.23
		2.000	0.8	0.4	-6.00	-0.50	2.73
		3.000	0.9	0.4	-6.00	-0.50	2.23
		4.000	0.9	0.4	-6.00	-0.50	1.73
		5.000	0.8	0.4	-6.00	-0.50	1.23
		6.000	0.8	0.3	-6.00	-0.50	0.73
		7.000	0.7	0.2	-6.00	-0.50	0.23
		8.000	0.6	0.2	-6.00	-0.50	-0.27
		9.000	0.5	0.1	-6.00	-0.50	-0.77
		L(10.000)	0.4	-0.0	-6.00	-0.50	-1.27
	S17	0.000	0.4	0.0	-5.74	-0.62	1.73
		1.000	0.3	-0.1	-5.74	-0.62	1.11
		2.000	0.2	-0.2	-5.74	-0.62	0.49
		3.000	0.1	-0.3	-5.74	-0.62	-0.13
		4.000	0.0	-0.4	-5.74	-0.62	-0.74
		5.000	-0.1	-0.4	-5.74	-0.62	-1.36
		6.000	-0.1	-0.5	-5.74	-0.62	-1.98
		7.000	-0.1	-0.5	-5.74	-0.62	-2.60
		8.000	-0.1	-0.4	-5.74	-0.62	-3.22
		9.000	0.1	-0.3	-5.74	-0.62	-3.83
		L(10.000)	0.3	-0.0	-5.74	-0.62	-4.45
	S18	0.000	0.3	0.0	-0.45	-0.42	3.75
		1.500	0.7	0.4	-0.45	-0.42	3.12
		3.000	0.8	0.6	-0.45	-0.42	2.49
		4.500	0.9	0.6	-0.45	-0.42	1.86
		6.000	0.8	0.6	-0.45	-0.42	1.24
		7.500	0.6	0.4	-0.45	-0.42	0.61
		9.000	0.4	0.3	-0.45	-0.42	-0.02
		10.500	0.2	0.1	-0.45	-0.42	-0.65
		12.000	0.1	-0.0	-0.45	-0.42	-1.28
		13.500	-0.0	-0.1	-0.45	-0.42	-1.91
		L(15.000)	0.0	0.0	-0.45	-0.42	-2.54
B.G.3	S1	0.000	0.0	0.0	1.96	0.93	-6.21
		1.000	-0.1	-0.1	1.96	0.93	-5.28
		2.000	-0.1	-0.1	1.96	0.93	-4.36
		3.000	-0.1	-0.1	1.96	0.93	-3.43
		4.000	-0.1	-0.1	1.96	0.93	-2.51
		5.000	-0.1	-0.1	1.96	0.93	-1.58
		6.000	-0.1	-0.1	1.96	0.93	-0.66
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		7.000	-0.0	-0.1	1.96	0.93	0.27
		8.000	0.0	-0.0	1.96	0.93	1.20
		9.000	0.0	-0.0	1.96	0.93	2.12
		L(10.000)	0.0	-0.0	1.96	0.93	3.05
	S2	0.000	0.0	0.0	-0.64	-0.16	0.65
		1.000	0.0	0.0	-0.64	-0.16	0.49
		2.000	0.0	0.0	-0.64	-0.16	0.33
		3.000	0.0	-0.0	-0.64	-0.16	0.18
		4.000	0.0	-0.0	-0.64	-0.16	0.02
		5.000	0.0	-0.0	-0.64	-0.16	-0.14
		6.000	0.0	-0.0	-0.64	-0.16	-0.30
		7.000	0.0	-0.0	-0.64	-0.16	-0.46
		8.000	0.0	-0.0	-0.64	-0.16	-0.62
		9.000	0.0	-0.0	-0.64	-0.16	-0.78
		L(10.000)	0.0	-0.0	-0.64	-0.16	-0.94
	S3	0.000	0.0	0.0	-3.49	1.11	-3.34
		1.000	0.1	0.0	-3.49	1.11	-2.24
		2.000	0.1	0.1	-3.49	1.11	-1.13
		3.000	0.1	0.1	-3.49	1.11	-0.02
		4.000	0.2	0.1	-3.49	1.11	1.09
		5.000	0.2	0.2	-3.49	1.11	2.19
		6.000	0.3	0.2	-3.49	1.11	3.30
		7.000	0.3	0.2	-3.49	1.11	4.41
		8.000	0.2	0.2	-3.49	1.11	5.52
		9.000	0.2	0.1	-3.49	1.11	6.62
		L(10.000)	0.1	-0.0	-3.49	1.11	7.73
	S4	0.000	0.1	0.0	0.00	0.00	0.00
		0.300	0.0	0.0	0.00	0.00	0.00
		0.600	-0.0	0.0	0.00	0.00	0.00
		0.900	-0.1	0.0	0.00	0.00	0.00
		1.200	-0.1	0.0	0.00	0.00	0.00
		1.500	-0.1	0.0	0.00	0.00	0.00
		1.800	-0.2	0.0	0.00	0.00	0.00
		2.100	-0.2	-0.0	0.00	0.00	0.00
		2.400	-0.2	-0.0	0.00	0.00	0.00
		2.700	-0.3	-0.0	0.00	0.00	0.00
		L(3.000)	-0.3	-0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-13.45	-0.74	0.00
		0.450	-0.1	-0.0	-13.45	-0.74	-0.33
		0.900	-0.3	-0.1	-13.45	-0.74	-0.66
		1.350	-0.4	-0.1	-13.45	-0.74	-0.99
		1.800	-0.5	-0.1	-13.45	-0.74	-1.32
		2.250	-0.6	-0.1	-13.45	-0.74	-1.65
		2.700	-0.7	-0.1	-13.45	-0.74	-1.99
		3.150	-0.8	-0.1	-13.45	-0.74	-2.32
		3.600	-0.9	-0.1	-13.45	-0.74	-2.65
		4.050	-0.9	-0.0	-13.45	-0.74	-2.98
		L(4.500)	-1.0	0.0	-13.45	-0.74	-3.31
	S6	0.000	-1.0	0.0	-12.53	-2.70	2.90
		0.600	-1.1	-0.1	-12.53	-2.70	1.28
		1.200	-1.1	-0.3	-12.53	-2.70	-0.34
		1.800	-1.2	-0.4	-12.53	-2.70	-1.96
		2.400	-1.3	-0.5	-12.53	-2.70	-3.58
		3.000	-1.3	-0.6	-12.53	-2.70	-5.20
		3.600	-1.3	-0.6	-12.53	-2.70	-6.82
		4.200	-1.2	-0.6	-12.53	-2.70	-8.44
		4.800	-1.1	-0.5	-12.53	-2.70	-10.06
		5.400	-0.8	-0.3	-12.53	-2.70	-11.68
		L(6.000)	-0.5	-0.0	-12.53	-2.70	-13.30
	S7	0.000	0.0	0.0	-28.57	-1.34	0.00
		0.450	-0.1	-0.0	-28.57	-1.34	-0.60

m mm mm kN kN kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		0.900	-0.3	-0.1	-28.57	-1.34	-1.21
		1.350	-0.4	-0.1	-28.57	-1.34	-1.81
		1.800	-0.6	-0.2	-28.57	-1.34	-2.41
		2.250	-0.7	-0.2	-28.57	-1.34	-3.01
		2.700	-0.8	-0.2	-28.57	-1.34	-3.62
		3.150	-0.9	-0.2	-28.57	-1.34	-4.22
		3.600	-0.9	-0.1	-28.57	-1.34	-4.82
		4.050	-1.0	-0.1	-28.57	-1.34	-5.42
		L(4.500)	-1.0	0.0	-28.57	-1.34	-6.03
	S8	0.000	-1.0	0.0	-29.65	1.26	-3.63
		0.600	-1.0	-0.0	-29.65	1.26	-2.87
		1.200	-0.9	-0.0	-29.65	1.26	-2.11
		1.800	-0.9	-0.0	-29.65	1.26	-1.35
		2.400	-0.8	-0.0	-29.65	1.26	-0.59
		3.000	-0.7	0.0	-29.65	1.26	0.16
		3.600	-0.6	0.0	-29.65	1.26	0.92
		4.200	-0.6	0.1	-29.65	1.26	1.68
		4.800	-0.5	0.1	-29.65	1.26	2.44
		5.400	-0.5	0.0	-29.65	1.26	3.20
		L(6.000)	-0.5	0.0	-29.65	1.26	3.96
	S9	0.000	0.0	0.0	-27.18	-1.40	0.00
		0.450	-0.2	-0.1	-27.18	-1.40	-0.63
		0.900	-0.3	-0.1	-27.18	-1.40	-1.26
		1.350	-0.4	-0.1	-27.18	-1.40	-1.88
		1.800	-0.6	-0.2	-27.18	-1.40	-2.51
		2.250	-0.7	-0.2	-27.18	-1.40	-3.14
		2.700	-0.8	-0.2	-27.18	-1.40	-3.77
		3.150	-0.9	-0.2	-27.18	-1.40	-4.39
		3.600	-0.9	-0.2	-27.18	-1.40	-5.02
		4.050	-1.0	-0.1	-27.18	-1.40	-5.65
		L(4.500)	-1.0	0.0	-27.18	-1.40	-6.28
	S10	0.000	-1.0	0.0	-25.91	1.45	-3.87
		0.600	-1.0	-0.0	-25.91	1.45	-3.00
		1.200	-0.9	-0.0	-25.91	1.45	-2.13
		1.800	-0.8	-0.0	-25.91	1.45	-1.26
		2.400	-0.8	0.0	-25.91	1.45	-0.39
		3.000	-0.7	0.1	-25.91	1.45	0.49
		3.600	-0.6	0.1	-25.91	1.45	1.36
		4.200	-0.5	0.1	-25.91	1.45	2.23
		4.800	-0.5	0.1	-25.91	1.45	3.10
		5.400	-0.5	0.1	-25.91	1.45	3.97
		L(6.000)	-0.5	0.0	-25.91	1.45	4.84
	S11	0.000	0.0	0.0	-37.35	-0.56	0.00
		0.450	-0.1	-0.0	-37.35	-0.56	-0.25
		0.900	-0.2	-0.0	-37.35	-0.56	-0.50
		1.350	-0.4	-0.1	-37.35	-0.56	-0.76
		1.800	-0.5	-0.1	-37.35	-0.56	-1.01
		2.250	-0.6	-0.1	-37.35	-0.56	-1.26
		2.700	-0.7	-0.1	-37.35	-0.56	-1.51
		3.150	-0.8	-0.1	-37.35	-0.56	-1.76
		3.600	-0.9	-0.1	-37.35	-0.56	-2.01
		4.050	-0.9	-0.0	-37.35	-0.56	-2.27
		L(4.500)	-1.0	0.0	-37.35	-0.56	-2.52
	S12	0.000	-1.0	0.0	-38.46	-4.05	5.21
		0.600	-1.1	-0.1	-38.46	-4.05	2.79
		1.200	-1.2	-0.3	-38.46	-4.05	0.36
		1.800	-1.3	-0.5	-38.46	-4.05	-2.07
		2.400	-1.4	-0.7	-38.46	-4.05	-4.50
		3.000	-1.5	-0.8	-38.46	-4.05	-6.92
		3.600	-1.5	-0.8	-38.46	-4.05	-9.35
		4.200	-1.4	-0.8	-38.46	-4.05	-11.78
		m	mm	mm	kN	kN	kNm

B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		4.800	-1.3	-0.7	-38.46	-4.05	-14.20
		5.400	-0.9	-0.4	-38.46	-4.05	-16.63
		L(6.000)	-0.5	-0.0	-38.46	-4.05	-19.06
	S13	0.000	0.0	0.0	-19.45	4.03	-9.91
		0.450	0.2	-0.1	-19.45	4.03	-8.10
		0.900	0.5	-0.1	-19.45	4.03	-6.28
		1.350	0.9	-0.1	-19.45	4.03	-4.47
		1.800	1.2	-0.1	-19.45	4.03	-2.66
		2.250	1.5	-0.1	-19.45	4.03	-0.84
		2.700	1.9	-0.0	-19.45	4.03	0.97
		3.150	2.3	0.0	-19.45	4.03	2.78
		3.600	2.6	0.0	-19.45	4.03	4.60
		4.050	2.9	0.0	-19.45	4.03	6.41
		L(4.500)	3.2	-0.0	-19.45	4.03	8.22
	S14	0.000	3.2	0.0	-19.45	4.03	8.22
		0.600	3.5	0.7	-19.45	4.03	10.64
		1.200	3.7	1.3	-19.45	4.03	13.06
		1.800	3.8	1.7	-19.45	4.03	15.47
		2.400	3.8	2.1	-19.45	4.03	17.89
		3.000	3.6	2.3	-19.45	4.03	20.31
		3.600	3.2	2.3	-19.45	4.03	22.73
		4.200	2.7	2.0	-19.45	4.03	25.14
		4.800	1.9	1.6	-19.45	4.03	27.56
		5.400	0.8	0.9	-19.45	4.03	29.98
		L(6.000)	-0.5	0.0	-19.45	4.03	32.40
	S15	0.000	0.0	0.0	-2.70	12.53	-13.30
		1.000	0.8	0.8	-2.70	9.73	-2.18
		2.000	1.7	1.6	-2.70	6.93	6.15
		3.000	2.4	2.3	-2.70	4.13	11.68
		4.000	2.8	2.7	-2.70	1.33	14.40
		5.000	2.8	2.8	-2.70	-1.47	14.33
		6.000	2.5	2.4	-2.70	-4.27	11.46
		7.000	1.9	1.8	-2.70	-7.07	5.78
		8.000	1.1	1.0	-2.70	-9.87	-2.69
		9.000	0.4	0.3	-2.70	-12.67	-13.97
		L(10.000)	0.1	0.0	-2.70	-15.47	-28.04
	S16	0.000	0.1	0.0	-1.44	14.18	-24.08
		1.000	0.3	0.2	-1.44	11.38	-11.30
		2.000	0.9	0.8	-1.44	8.58	-1.32
		3.000	1.5	1.3	-1.44	5.78	5.86
		4.000	1.9	1.8	-1.44	2.98	10.24
		5.000	2.1	1.9	-1.44	0.18	11.81
		6.000	1.9	1.8	-1.44	-2.62	10.59
		7.000	1.5	1.4	-1.44	-5.42	6.57
		8.000	0.9	0.8	-1.44	-8.22	-0.25
		9.000	0.4	0.3	-1.44	-11.02	-9.87
		L(10.000)	0.1	-0.0	-1.44	-13.82	-22.29
	S17	0.000	0.1	0.0	0.02	12.09	-17.45
		1.000	0.2	0.1	0.02	9.29	-6.76
		2.000	0.5	0.4	0.02	6.49	1.13
		3.000	0.8	0.7	0.02	3.69	6.22
		4.000	0.9	0.8	0.02	0.89	8.50
		5.000	0.8	0.7	0.02	-1.91	7.99
		6.000	0.5	0.4	0.02	-4.71	4.68
		7.000	0.1	-0.0	0.02	-7.51	-1.43
		8.000	-0.3	-0.4	0.02	-10.31	-10.34
		9.000	-0.3	-0.5	0.02	-13.11	-22.05
		L(10.000)	0.1	0.0	0.02	-15.91	-36.56
	S18	0.000	0.1	0.0	-4.03	22.55	-55.62
		1.500	2.8	2.7	-4.03	18.35	-24.95
		3.000	7.0	6.8	-4.03	14.15	-0.58
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
B.G.4	S1	4.500	11.2	11.1	-4.03	9.95	17.49
		6.000	14.4	14.3	-4.03	5.75	29.27
		7.500	16.0	15.9	-4.03	1.55	34.74
		9.000	15.5	15.4	-4.03	-2.65	33.91
		10.500	13.1	13.0	-4.03	-6.85	26.79
		12.000	9.1	9.0	-4.03	-11.05	13.36
		13.500	4.4	4.3	-4.03	-15.25	-6.37
		L(15.000)	0.1	0.0	-4.03	-19.45	-32.40
		0.000	-0.0	0.0	-19.03	-10.56	60.57
		1.000	0.6	0.6	-19.03	-10.56	50.01
		2.000	0.9	0.9	-19.03	-10.56	39.45
		3.000	1.0	1.0	-19.03	-10.56	28.90
		4.000	0.8	0.9	-19.03	-10.56	18.34
		5.000	0.6	0.6	-19.03	-10.56	7.78
		6.000	0.3	0.3	-19.03	-10.56	-2.78
		7.000	0.0	0.1	-19.03	-10.56	-13.33
		8.000	-0.2	-0.1	-19.03	-10.56	-23.89
		9.000	-0.2	-0.2	-19.03	-10.56	-34.45
	S2	L(10.000)	-0.0	0.0	-19.03	-10.56	-45.01
		0.000	-0.0	0.0	-10.95	-5.95	29.68
		1.000	0.2	0.2	-10.95	-5.95	23.73
		2.000	0.3	0.3	-10.95	-5.95	17.78
		3.000	0.2	0.3	-10.95	-5.95	11.83
		4.000	0.1	0.1	-10.95	-5.95	5.88
		5.000	-0.0	-0.0	-10.95	-5.95	-0.07
		6.000	-0.2	-0.2	-10.95	-5.95	-6.01
		7.000	-0.3	-0.3	-10.95	-5.95	-11.96
		8.000	-0.4	-0.3	-10.95	-5.95	-17.91
		9.000	-0.3	-0.2	-10.95	-5.95	-23.86
		L(10.000)	-0.0	0.0	-10.95	-5.95	-29.81
		0.000	-0.0	0.0	-2.94	-10.43	44.68
		1.000	0.1	0.2	-2.94	-10.43	34.25
		2.000	0.1	0.2	-2.94	-10.43	23.83
		3.000	-0.1	-0.0	-2.94	-10.43	13.40
		4.000	-0.3	-0.3	-2.94	-10.43	2.97
		5.000	-0.6	-0.6	-2.94	-10.43	-7.45
	6.000	-0.9	-0.8	-2.94	-10.43	-17.88	
	7.000	-1.0	-1.0	-2.94	-10.43	-28.30	
	8.000	-1.0	-0.9	-2.94	-10.43	-38.73	
	9.000	-0.7	-0.6	-2.94	-10.43	-49.16	
	S4	L(10.000)	-0.0	0.0	-2.94	-10.43	-59.58
		0.000	-0.0	0.0	0.00	0.00	0.00
		0.300	0.2	0.0	0.00	0.00	0.00
		0.600	0.4	0.0	0.00	0.00	0.00
		0.900	0.7	0.0	0.00	0.00	0.00
		1.200	0.9	0.0	0.00	0.00	0.00
		1.500	1.2	0.0	0.00	0.00	0.00
		1.800	1.4	0.0	0.00	0.00	0.00
		2.100	1.6	-0.0	0.00	0.00	0.00
		2.400	1.9	-0.0	0.00	0.00	0.00
		2.700	2.1	-0.0	0.00	0.00	0.00
		L(3.000)	2.4	0.0	0.00	0.00	0.00
		0.000	0.0	0.0	22.73	16.54	0.00
		0.450	1.6	0.5	22.73	14.83	7.06
		0.900	3.1	0.9	22.73	13.12	13.35
		1.350	4.6	1.2	22.73	11.41	18.87
		1.800	6.0	1.5	22.73	9.70	23.62
		2.250	7.3	1.6	22.73	7.99	27.60
	2.700	8.4	1.6	22.73	6.28	30.81	
	3.150	9.4	1.5	22.73	4.57	33.25	
	3.600	10.2	1.2	22.73	2.86	34.92	
			m	mm	mm	kN	kN

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		4.050	10.8	0.7	22.73	1.15	35.82
		L(4.500)	11.3	-0.0	22.73	-0.56	35.95
	S6	0.000	11.3	0.0	12.18	18.47	-24.61
		0.600	11.8	0.1	12.18	16.19	-14.22
		1.200	12.6	0.4	12.18	13.91	-5.19
		1.800	13.3	0.7	12.18	11.63	2.47
		2.400	14.0	1.0	12.18	9.35	8.76
		3.000	14.7	1.2	12.18	7.07	13.68
		3.600	15.2	1.3	12.18	4.79	17.24
		4.200	15.6	1.2	12.18	2.51	19.42
		4.800	15.8	1.0	12.18	0.23	20.24
		5.400	15.9	0.6	12.18	-2.05	19.70
		L(6.000)	15.7	0.0	12.18	-4.33	17.78
	S7	0.000	0.0	0.0	21.24	13.08	0.00
		0.450	1.6	0.5	21.24	13.08	5.88
		0.900	3.2	0.9	21.24	13.08	11.77
		1.350	4.7	1.3	21.24	13.08	17.65
		1.800	6.1	1.6	21.24	13.08	23.54
		2.250	7.5	1.8	21.24	13.08	29.42
		2.700	8.6	1.9	21.24	13.08	35.31
		3.150	9.6	1.8	21.24	13.08	41.19
		3.600	10.4	1.4	21.24	13.08	47.08
		4.050	10.9	0.8	21.24	13.08	52.96
		L(4.500)	11.2	-0.0	21.24	13.08	58.84
	S8	0.000	11.2	0.0	25.85	5.00	-15.84
		0.600	11.5	-0.2	25.85	5.00	-12.84
		1.200	11.9	-0.3	25.85	5.00	-9.84
		1.800	12.3	-0.3	25.85	5.00	-6.85
		2.400	12.8	-0.2	25.85	5.00	-3.85
		3.000	13.4	-0.1	25.85	5.00	-0.85
		3.600	13.9	0.0	25.85	5.00	2.15
		4.200	14.5	0.1	25.85	5.00	5.15
		4.800	15.0	0.2	25.85	5.00	8.15
		5.400	15.4	0.1	25.85	5.00	11.14
		L(6.000)	15.7	-0.0	25.85	5.00	14.14
	S9	0.000	0.0	0.0	26.65	13.03	0.00
		0.450	1.6	0.5	26.65	13.03	5.86
		0.900	3.2	0.9	26.65	13.03	11.72
		1.350	4.7	1.3	26.65	13.03	17.59
		1.800	6.1	1.6	26.65	13.03	23.45
		2.250	7.4	1.8	26.65	13.03	29.31
		2.700	8.6	1.9	26.65	13.03	35.17
		3.150	9.6	1.7	26.65	13.03	41.03
		3.600	10.4	1.4	26.65	13.03	46.90
		4.050	10.9	0.8	26.65	13.03	52.76
		L(4.500)	11.2	-0.0	26.65	13.03	58.62
	S10	0.000	11.2	0.0	22.18	5.02	-15.87
		0.600	11.5	-0.2	22.18	5.02	-12.86
		1.200	11.8	-0.3	22.18	5.02	-9.85
		1.800	12.3	-0.3	22.18	5.02	-6.84
		2.400	12.8	-0.2	22.18	5.02	-3.83
		3.000	13.4	-0.1	22.18	5.02	-0.82
		3.600	13.9	0.0	22.18	5.02	2.19
		4.200	14.5	0.1	22.18	5.02	5.20
		4.800	15.0	0.2	22.18	5.02	8.21
		5.400	15.4	0.1	22.18	5.02	11.22
		L(6.000)	15.7	0.0	22.18	5.02	14.23
	S11	0.000	0.0	0.0	21.02	10.15	0.00
		0.450	1.5	0.4	21.02	10.15	4.57
		0.900	3.0	0.7	21.02	10.15	9.14
		1.350	4.4	1.0	21.02	10.15	13.71
		m	mm	mm	kN	kN	kNm

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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		1.800	5.8	1.3	21.02	10.15	18.28
		2.250	7.0	1.4	21.02	10.15	22.85
		2.700	8.2	1.5	21.02	10.15	27.42
		3.150	9.2	1.4	21.02	10.15	31.99
		3.600	10.1	1.1	21.02	10.15	36.55
		4.050	10.7	0.7	21.02	10.15	41.12
		L(4.500)	11.2	-0.0	21.02	10.15	45.69
	S12	0.000	11.2	0.0	31.44	7.22	-13.89
		0.600	11.7	0.1	31.44	7.22	-9.56
		1.200	12.4	0.2	31.44	7.22	-5.23
		1.800	13.0	0.5	31.44	7.22	-0.90
		2.400	13.7	0.7	31.44	7.22	3.43
		3.000	14.3	0.9	31.44	7.22	7.76
		3.600	14.9	1.0	31.44	7.22	12.09
		4.200	15.4	1.0	31.44	7.22	16.42
		4.800	15.7	0.9	31.44	7.22	20.75
		5.400	15.8	0.5	31.44	7.22	25.08
		L(6.000)	15.8	0.0	31.44	7.22	29.41
	S13	0.000	0.0	0.0	16.35	12.30	-23.56
		0.450	0.6	-0.2	16.35	11.22	-18.26
		0.900	1.3	-0.3	16.35	10.14	-13.45
		1.350	2.0	-0.3	16.35	9.06	-9.13
		1.800	2.8	-0.2	16.35	7.98	-5.30
		2.250	3.6	-0.2	16.35	6.90	-1.95
		2.700	4.4	-0.1	16.35	5.82	0.92
		3.150	5.3	-0.1	16.35	4.74	3.29
		3.600	6.1	-0.0	16.35	3.66	5.18
		4.050	6.8	0.0	16.35	2.58	6.59
		L(4.500)	7.6	0.0	16.35	1.50	7.51
	S14	0.000	7.6	0.0	16.35	1.50	7.51
		0.600	8.5	0.1	16.35	0.06	7.98
		1.200	9.4	0.2	16.35	-1.38	7.58
		1.800	10.2	0.1	16.35	-2.82	6.33
		2.400	10.9	0.1	16.35	-4.26	4.20
		3.000	11.6	-0.1	16.35	-5.70	1.22
		3.600	12.3	-0.2	16.35	-7.14	-2.63
		4.200	13.1	-0.3	16.35	-8.58	-7.35
		4.800	13.9	-0.3	16.35	-10.02	-12.92
		5.400	14.8	-0.3	16.35	-11.46	-19.37
		L(6.000)	15.8	-0.0	16.35	-12.90	-26.67
	S15	0.000	-0.1	0.0	-4.33	-12.18	17.78
		1.000	-0.6	-0.5	-4.33	-9.78	6.80
		2.000	-1.3	-1.3	-4.33	-7.38	-1.78
		3.000	-2.0	-2.0	-4.33	-4.98	-7.95
		4.000	-2.5	-2.5	-4.33	-2.58	-11.73
		5.000	-2.7	-2.6	-4.33	-0.18	-13.11
		6.000	-2.6	-2.5	-4.33	2.22	-12.09
		7.000	-2.1	-2.0	-4.33	4.62	-8.66
		8.000	-1.4	-1.4	-4.33	7.02	-2.84
		9.000	-0.7	-0.6	-4.33	9.42	5.38
		L(10.000)	-0.1	0.0	-4.33	11.82	16.01
	S16	0.000	-0.1	0.0	0.66	-14.03	30.15
		1.000	0.0	0.1	0.66	-11.63	17.32
		2.000	-0.3	-0.2	0.66	-9.23	6.89
		3.000	-0.9	-0.8	0.66	-6.83	-1.14
		4.000	-1.4	-1.3	0.66	-4.43	-6.77
		5.000	-1.7	-1.6	0.66	-2.03	-10.00
		6.000	-1.8	-1.7	0.66	0.37	-10.83
		7.000	-1.6	-1.5	0.66	2.77	-9.26
		8.000	-1.2	-1.1	0.66	5.17	-5.29
		9.000	-0.6	-0.5	0.66	7.57	1.08
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
B.G.5	S17	L(10.000)	-0.1	0.0	0.66	9.97	9.85
		0.000	-0.1	0.0	5.68	-12.21	24.08
		1.000	0.1	0.2	5.68	-9.81	13.07
		2.000	-0.1	0.0	5.68	-7.41	4.47
		3.000	-0.4	-0.3	5.68	-5.01	-1.74
		4.000	-0.6	-0.5	5.68	-2.61	-5.55
		5.000	-0.7	-0.6	5.68	-0.21	-6.95
		6.000	-0.7	-0.6	5.68	2.19	-5.96
		7.000	-0.5	-0.4	5.68	4.59	-2.56
		8.000	-0.2	-0.1	5.68	6.99	3.23
		9.000	0.0	0.1	5.68	9.39	11.42
	S18	L(10.000)	-0.1	0.0	5.68	11.79	22.02
		0.000	-0.1	0.0	12.90	-19.65	51.43
		1.500	-1.9	-1.8	12.90	-16.05	24.65
		3.000	-5.1	-5.0	12.90	-12.45	3.28
		4.500	-8.6	-8.5	12.90	-8.85	-12.70
		6.000	-11.3	-11.2	12.90	-5.25	-23.27
		7.500	-12.7	-12.6	12.90	-1.65	-28.45
		9.000	-12.4	-12.4	12.90	1.95	-28.22
		10.500	-10.6	-10.5	12.90	5.55	-22.60
		12.000	-7.4	-7.3	12.90	9.15	-11.58
		13.500	-3.6	-3.5	12.90	12.75	4.85
	S1	L(15.000)	-0.1	0.0	12.90	16.35	26.67
		0.000	-0.0	0.0	8.94	8.39	-46.31
		1.000	-0.5	-0.4	8.94	8.39	-37.92
		2.000	-0.7	-0.7	8.94	8.39	-29.53
		3.000	-0.7	-0.7	8.94	8.39	-21.14
		4.000	-0.6	-0.6	8.94	8.39	-12.76
		5.000	-0.4	-0.4	8.94	8.39	-4.37
		6.000	-0.1	-0.1	8.94	8.39	4.02
		7.000	0.1	0.1	8.94	8.39	12.41
		8.000	0.2	0.2	8.94	8.39	20.80
		9.000	0.2	0.2	8.94	8.39	29.19
	S2	L(10.000)	-0.0	0.0	8.94	8.39	37.58
		0.000	-0.0	0.0	7.80	6.03	-29.90
		1.000	-0.3	-0.2	7.80	6.03	-23.87
		2.000	-0.3	-0.3	7.80	6.03	-17.84
		3.000	-0.3	-0.3	7.80	6.03	-11.81
		4.000	-0.2	-0.1	7.80	6.03	-5.77
		5.000	-0.0	0.0	7.80	6.03	0.26
		6.000	0.1	0.2	7.80	6.03	6.29
		7.000	0.3	0.3	7.80	6.03	12.32
		8.000	0.3	0.3	7.80	6.03	18.35
		9.000	0.2	0.2	7.80	6.03	24.39
	S3	L(10.000)	-0.0	0.0	7.80	6.03	30.42
		0.000	-0.0	0.0	7.11	8.06	-37.03
		1.000	-0.3	-0.2	7.11	8.06	-28.97
		2.000	-0.3	-0.2	7.11	8.06	-20.90
		3.000	-0.2	-0.1	7.11	8.06	-12.84
		4.000	-0.0	0.0	7.11	8.06	-4.78
		5.000	0.2	0.3	7.11	8.06	3.29
		6.000	0.4	0.5	7.11	8.06	11.35
		7.000	0.5	0.6	7.11	8.06	19.41
		8.000	0.5	0.6	7.11	8.06	27.48
		9.000	0.3	0.4	7.11	8.06	35.54
	S4	L(10.000)	-0.1	-0.0	7.11	8.06	43.60
		0.000	-0.1	0.0	0.00	0.00	0.00
		0.300	-0.2	0.0	0.00	0.00	0.00
		0.600	-0.4	0.0	0.00	0.00	0.00
		0.900	-0.6	0.0	0.00	0.00	0.00
		1.200	-0.7	-0.0	0.00	0.00	0.00
		m	mm	mm	kN	kN	kNm

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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		1.500	-0.9	-0.0	0.00	0.00	0.00
		1.800	-1.0	-0.0	0.00	0.00	0.00
		2.100	-1.2	-0.0	0.00	0.00	0.00
		2.400	-1.4	-0.0	0.00	0.00	0.00
		2.700	-1.5	-0.0	0.00	0.00	0.00
		L(3.000)	-1.7	0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	0.38	-11.73	0.00
		0.450	-1.2	-0.3	0.38	-10.65	-5.04
		0.900	-2.3	-0.6	0.38	-9.57	-9.59
		1.350	-3.4	-0.9	0.38	-8.49	-13.65
		1.800	-4.5	-1.1	0.38	-7.41	-17.23
		2.250	-5.4	-1.2	0.38	-6.33	-20.32
		2.700	-6.3	-1.2	0.38	-5.25	-22.93
		3.150	-7.0	-1.1	0.38	-4.17	-25.05
		3.600	-7.6	-0.9	0.38	-3.09	-26.68
		4.050	-8.1	-0.5	0.38	-2.01	-27.83
		L(4.500)	-8.4	-0.0	0.38	-0.93	-28.49
	S6	0.000	-8.4	0.0	8.77	-9.87	17.82
		0.600	-8.9	0.2	8.77	-8.43	12.33
		1.200	-9.4	0.2	8.77	-6.99	7.70
		1.800	-10.0	0.2	8.77	-5.55	3.94
		2.400	-10.6	0.2	8.77	-4.11	1.04
		3.000	-11.3	0.1	8.77	-2.67	-0.99
		3.600	-11.9	0.0	8.77	-1.23	-2.16
		4.200	-12.6	0.0	8.77	0.21	-2.47
		4.800	-13.2	-0.0	8.77	1.65	-1.91
		5.400	-13.8	-0.0	8.77	3.09	-0.49
		L(6.000)	-14.3	0.0	8.77	4.53	1.79
	S7	0.000	0.0	0.0	27.68	-9.34	0.00
		0.450	-1.2	-0.3	27.68	-9.34	-4.20
		0.900	-2.4	-0.7	27.68	-9.34	-8.41
		1.350	-3.5	-1.0	27.68	-9.34	-12.61
		1.800	-4.5	-1.2	27.68	-9.34	-16.81
		2.250	-5.5	-1.3	27.68	-9.34	-21.01
		2.700	-6.4	-1.3	27.68	-9.34	-25.22
		3.150	-7.1	-1.3	27.68	-9.34	-29.42
		3.600	-7.7	-1.0	27.68	-9.34	-33.62
		4.050	-8.2	-0.6	27.68	-9.34	-37.83
		L(4.500)	-8.4	0.0	27.68	-9.34	-42.03
	S8	0.000	-8.4	0.0	25.33	-8.20	25.45
		0.600	-8.7	0.3	25.33	-8.20	20.53
		1.200	-9.2	0.4	25.33	-8.20	15.61
		1.800	-9.8	0.4	25.33	-8.20	10.69
		2.400	-10.5	0.3	25.33	-8.20	5.77
		3.000	-11.3	0.1	25.33	-8.20	0.85
		3.600	-12.0	-0.1	25.33	-8.20	-4.08
		4.200	-12.8	-0.2	25.33	-8.20	-9.00
		4.800	-13.4	-0.3	25.33	-8.20	-13.92
		5.400	-14.0	-0.2	25.33	-8.20	-18.84
		L(6.000)	-14.3	0.0	25.33	-8.20	-23.76
	S9	0.000	0.0	0.0	19.95	-9.22	0.00
		0.450	-1.2	-0.3	19.95	-9.22	-4.15
		0.900	-2.3	-0.7	19.95	-9.22	-8.30
		1.350	-3.5	-0.9	19.95	-9.22	-12.45
		1.800	-4.5	-1.2	19.95	-9.22	-16.60
		2.250	-5.5	-1.3	19.95	-9.22	-20.75
		2.700	-6.4	-1.3	19.95	-9.22	-24.90
		3.150	-7.1	-1.2	19.95	-9.22	-29.05
		3.600	-7.7	-1.0	19.95	-9.22	-33.20
		4.050	-8.2	-0.6	19.95	-9.22	-37.35
		L(4.500)	-8.4	-0.0	19.95	-9.22	-41.50
		m	mm	mm	kN	kN	kNm

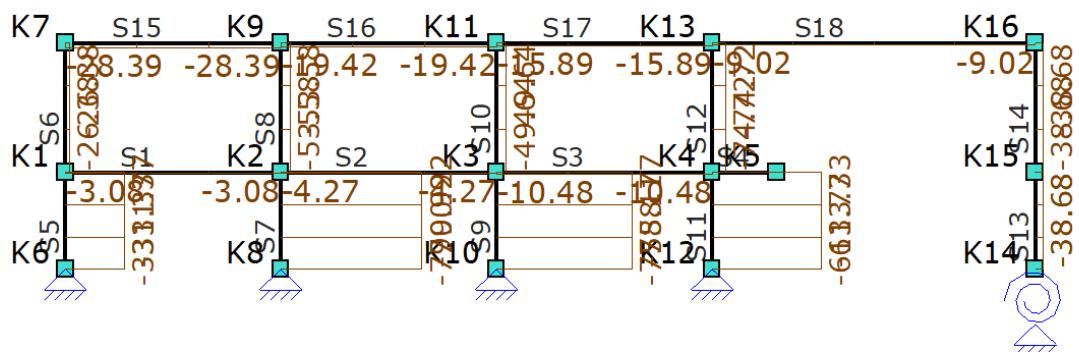
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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
	S10	0.000	-8.4	0.0	21.98	-8.53	25.95
		0.600	-8.7	0.3	21.98	-8.53	20.83
		1.200	-9.2	0.4	21.98	-8.53	15.71
		1.800	-9.8	0.4	21.98	-8.53	10.59
		2.400	-10.6	0.2	21.98	-8.53	5.48
		3.000	-11.3	0.0	21.98	-8.53	0.36
		3.600	-12.1	-0.1	21.98	-8.53	-4.76
		4.200	-12.8	-0.3	21.98	-8.53	-9.88
		4.800	-13.5	-0.3	21.98	-8.53	-14.99
		5.400	-14.0	-0.3	21.98	-8.53	-20.11
	S11	L(6.000)	-14.3	0.0	21.98	-8.53	-25.23
		0.000	0.0	0.0	43.57	-7.94	0.00
		0.450	-1.1	-0.3	43.57	-7.94	-3.57
		0.900	-2.3	-0.6	43.57	-7.94	-7.15
		1.350	-3.3	-0.8	43.57	-7.94	-10.72
		1.800	-4.4	-1.0	43.57	-7.94	-14.30
		2.250	-5.3	-1.1	43.57	-7.94	-17.87
		2.700	-6.2	-1.1	43.57	-7.94	-21.45
		3.150	-6.9	-1.1	43.57	-7.94	-25.02
		3.600	-7.6	-0.9	43.57	-7.94	-28.59
	S12	4.050	-8.1	-0.5	43.57	-7.94	-32.17
		L(4.500)	-8.4	0.0	43.57	-7.94	-35.74
		0.000	-8.4	0.0	35.51	-0.83	7.86
		0.600	-8.8	0.2	35.51	-0.83	7.36
		1.200	-9.2	0.4	35.51	-0.83	6.86
		1.800	-9.7	0.5	35.51	-0.83	6.36
		2.400	-10.2	0.6	35.51	-0.83	5.85
		3.000	-10.8	0.6	35.51	-0.83	5.35
		3.600	-11.4	0.6	35.51	-0.83	4.85
		4.200	-12.1	0.5	35.51	-0.83	4.35
	S13	4.800	-12.8	0.3	35.51	-0.83	3.85
		5.400	-13.6	0.2	35.51	-0.83	3.35
		L(6.000)	-14.4	-0.0	35.51	-0.83	2.85
		0.000	0.0	0.0	16.41	-26.86	50.33
		0.450	-1.2	0.3	16.41	-25.15	38.63
		0.900	-2.7	0.4	16.41	-23.44	27.69
		1.350	-4.3	0.4	16.41	-21.73	17.53
		1.800	-5.9	0.2	16.41	-20.02	8.13
		2.250	-7.7	0.1	16.41	-18.31	-0.49
		2.700	-9.4	-0.1	16.41	-16.60	-8.35
	S14	3.150	-11.0	-0.2	16.41	-14.89	-15.43
		3.600	-12.6	-0.3	16.41	-13.18	-21.75
		4.050	-14.1	-0.2	16.41	-11.47	-27.30
		L(4.500)	-15.4	0.0	16.41	-9.76	-32.08
		0.000	-15.4	0.0	16.41	-9.76	-32.08
		0.600	-17.0	-1.6	16.41	-7.48	-37.25
		1.200	-18.2	-2.9	16.41	-5.20	-41.06
		1.800	-19.0	-3.9	16.41	-2.92	-43.49
		2.400	-19.5	-4.4	16.41	-0.64	-44.56
		3.000	-19.6	-4.6	16.41	1.64	-44.27
	S15	3.600	-19.2	-4.4	16.41	3.92	-42.60
		4.200	-18.5	-3.8	16.41	6.20	-39.57
		4.800	-17.5	-2.8	16.41	8.48	-35.16
		5.400	-16.1	-1.5	16.41	10.76	-29.39
		L(6.000)	-14.5	-0.0	16.41	13.04	-22.26
		0.000	-0.0	0.0	4.53	-8.77	1.79
		1.000	-1.0	-1.0	4.53	-6.37	-5.78
		2.000	-1.8	-1.8	4.53	-3.97	-10.95
		3.000	-2.4	-2.3	4.53	-1.57	-13.73
		4.000	-2.5	-2.5	4.53	0.83	-14.10
		5.000	-2.4	-2.3	4.53	3.23	-12.08
		m	mm	mm	kN	kN	kNm

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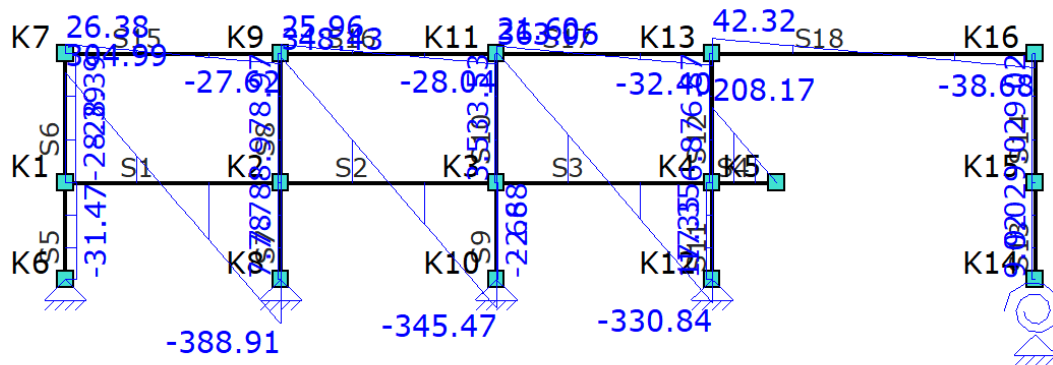
B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My	
S16		6.000	-1.9	-1.8	4.53	5.63	-7.65	
		7.000	-1.2	-1.1	4.53	8.03	-0.82	
		8.000	-0.5	-0.4	4.53	10.43	8.40	
		9.000	-0.0	0.0	4.53	12.83	20.03	
		L(10.000)	-0.1	-0.0	4.53	15.23	34.05	
		0.000	-0.1	0.0	-3.67	-10.10	10.29	
		1.000	-0.6	-0.5	-3.67	-7.70	1.39	
		2.000	-1.2	-1.1	-3.67	-5.30	-5.11	
		3.000	-1.6	-1.6	-3.67	-2.90	-9.21	
		4.000	-1.9	-1.8	-3.67	-0.50	-10.91	
		5.000	-1.8	-1.7	-3.67	1.90	-10.21	
		6.000	-1.5	-1.4	-3.67	4.30	-7.11	
		7.000	-0.9	-0.9	-3.67	6.70	-1.62	
		8.000	-0.4	-0.3	-3.67	9.10	6.28	
		9.000	-0.0	0.1	-3.67	11.50	16.58	
S17		L(10.000)	-0.1	-0.0	-3.67	13.90	29.28	
		0.000	-0.1	0.0	-12.20	-8.08	4.05	
		1.000	-0.5	-0.4	-12.20	-5.68	-2.83	
		2.000	-0.8	-0.7	-12.20	-3.28	-7.31	
		3.000	-1.0	-0.9	-12.20	-0.88	-9.39	
		4.000	-0.9	-0.8	-12.20	1.52	-9.07	
		5.000	-0.6	-0.4	-12.20	3.92	-6.35	
		6.000	-0.1	0.0	-12.20	6.32	-1.23	
		7.000	0.4	0.6	-12.20	8.72	6.29	
		8.000	0.8	0.9	-12.20	11.12	16.21	
		9.000	0.7	0.8	-12.20	13.52	28.53	
		L(10.000)	-0.1	0.0	-12.20	15.92	43.25	
	S18		0.000	-0.1	0.0	-13.04	-19.59	46.10
			1.500	-3.2	-3.1	-13.04	-15.99	19.41
			3.000	-7.5	-7.3	-13.04	-12.39	-1.87
		4.500	-11.6	-11.5	-13.04	-8.79	-17.76	
		6.000	-14.8	-14.7	-13.04	-5.19	-28.24	
		7.500	-16.3	-16.2	-13.04	-1.59	-33.32	
		9.000	-15.9	-15.8	-13.04	2.01	-33.01	
		10.500	-13.6	-13.5	-13.04	5.61	-27.29	
		12.000	-9.7	-9.6	-13.04	9.21	-16.18	
		13.500	-4.8	-4.8	-13.04	12.81	0.34	
		L(15.000)	-0.1	0.0	-13.04	16.41	22.26	
		m	mm	mm	kN	kN	kNm	

Fu.C.1 Normaalkracht (Nx)

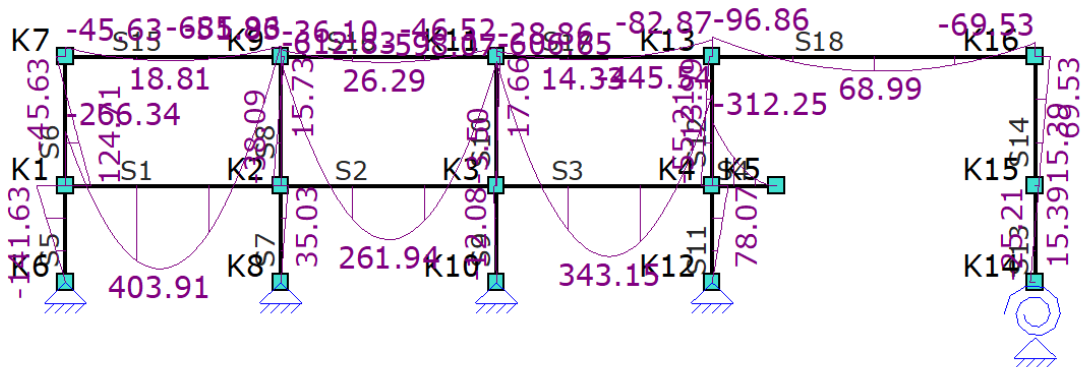


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Fu.C.1 Dwarskracht (Vz)

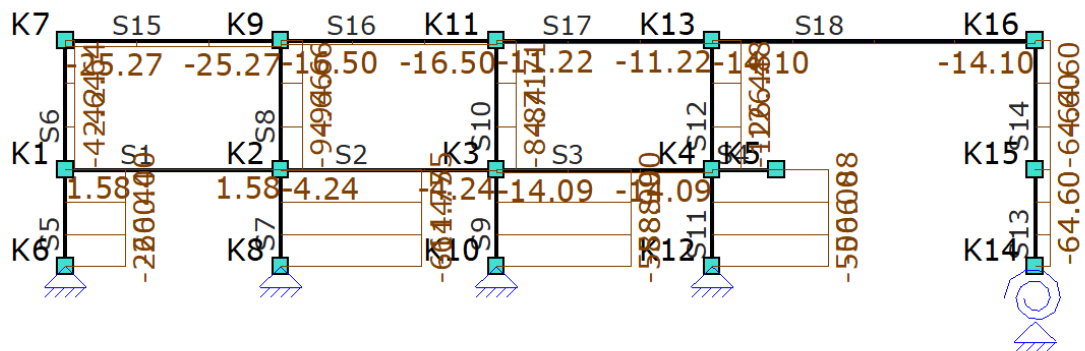


Fu.C.1 Momenten (My)

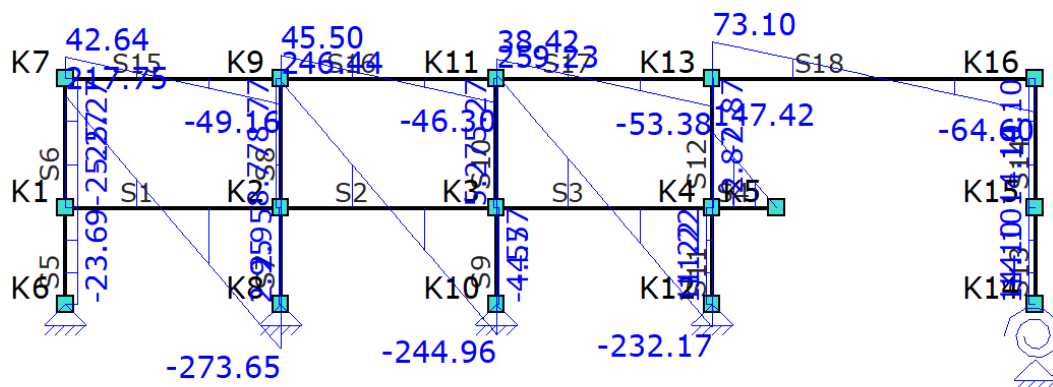


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Fu.C.2 Normalkracht (Nx)

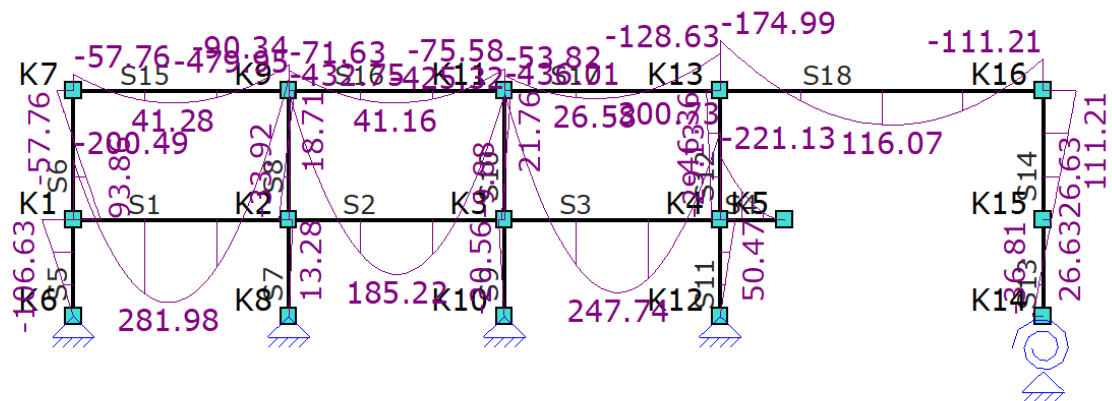


Fu.C.2 Dwarskracht (Vz)

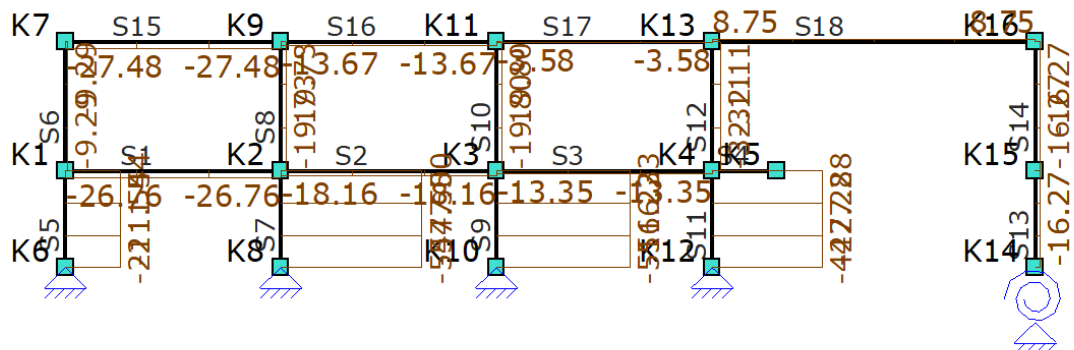


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Fu.C.2 Momenten (My)

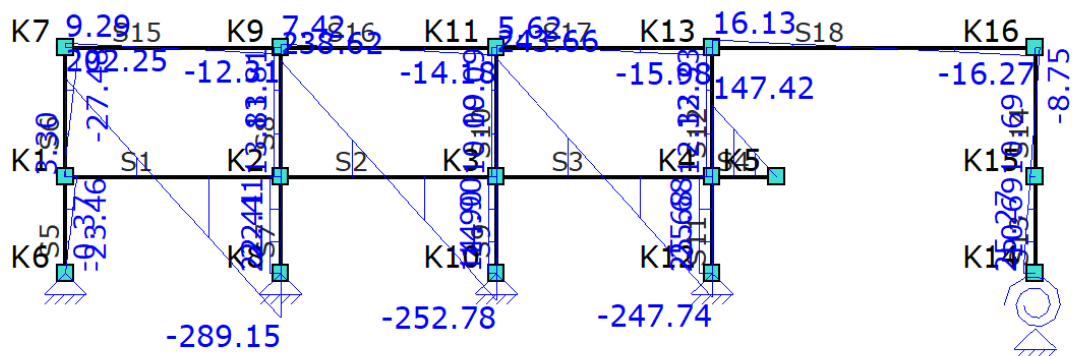


Fu.C.3 Normaalkracht (Nx)

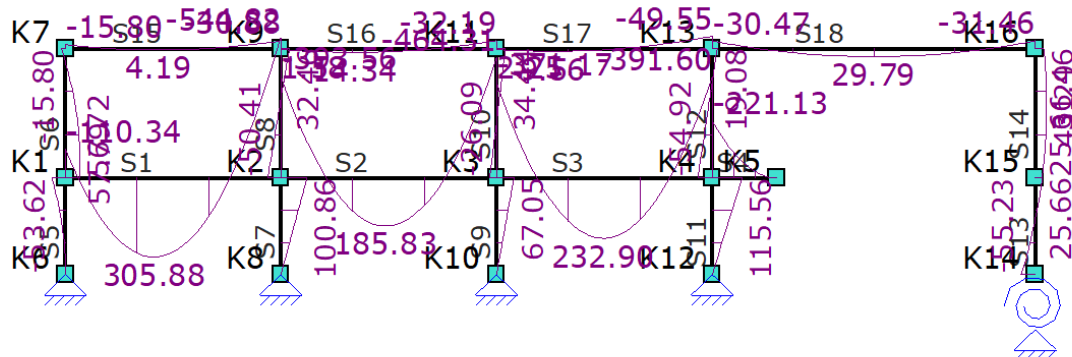


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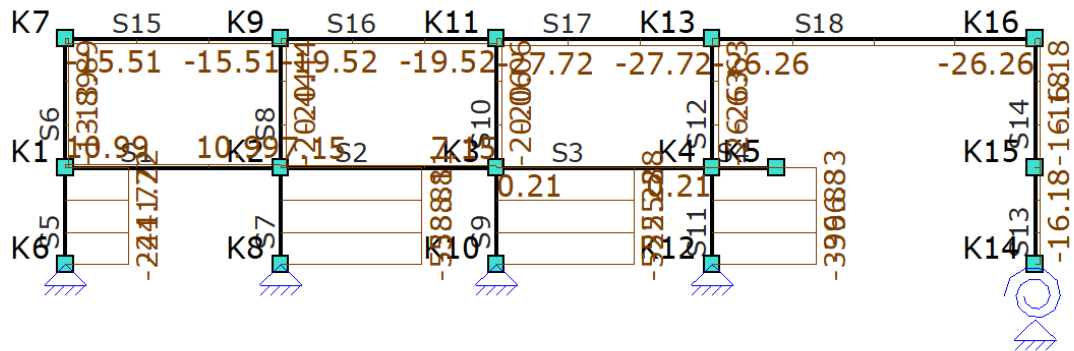
Fu.C.3 Dwarskracht (Vz)



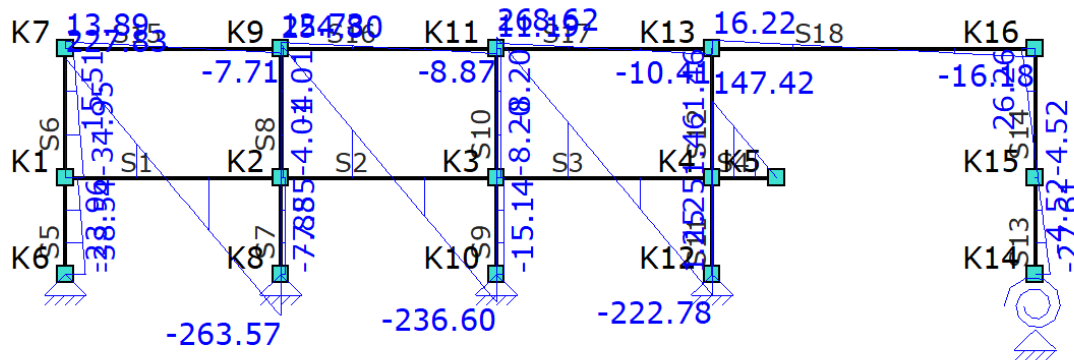
Fu.C.3 Momenten (My)



Fu.C.4 Normalkracht (Nx)

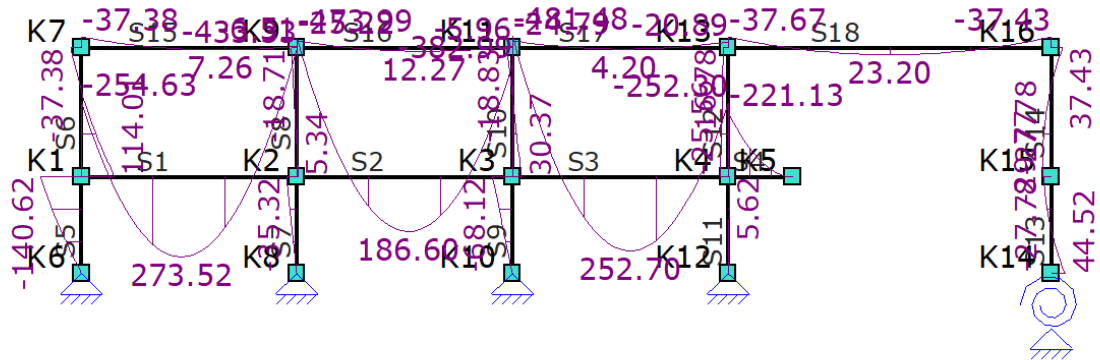


Fu.C.4 Dwarskracht (Vz)

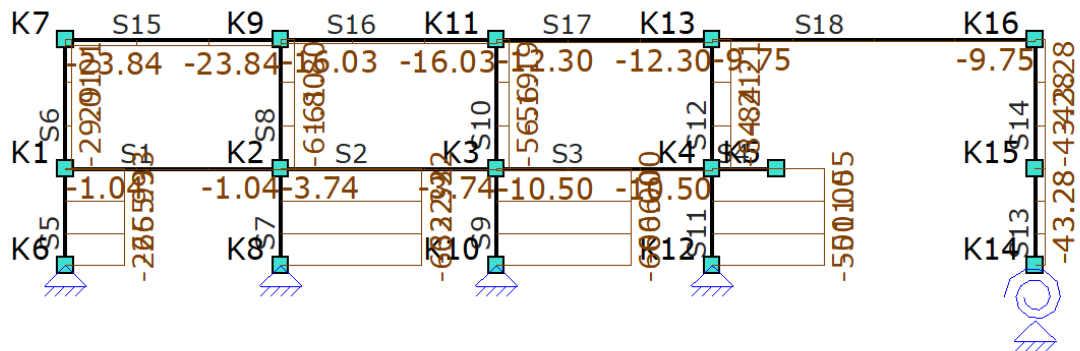


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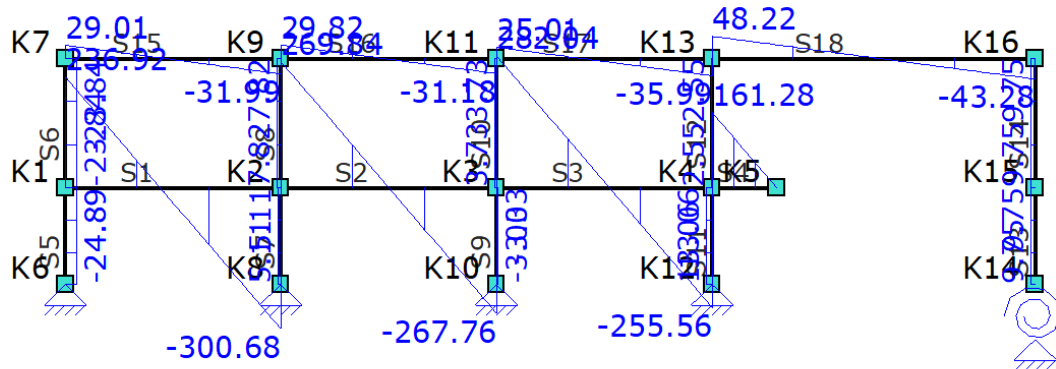
Fu.C.4 Momenten (My)



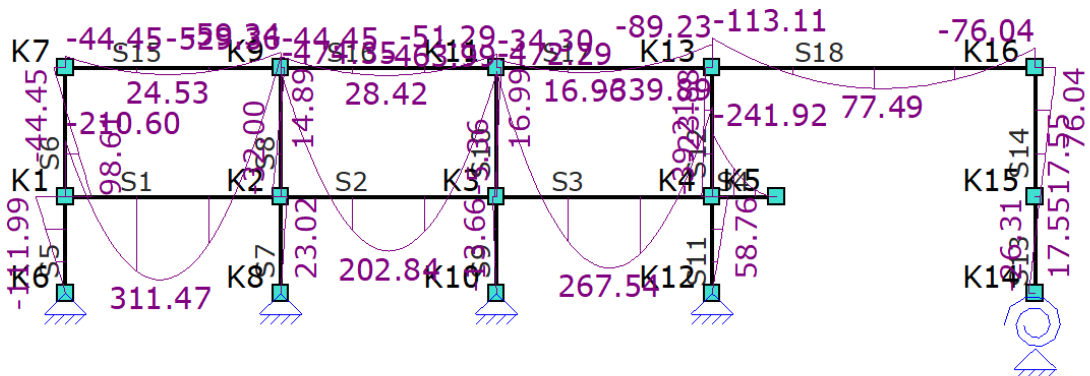
Fu.C.5 Normalkracht (Nx)



Fu.C.5 Dwarskracht (Vz)



Fu.C.5 Momenten (My)



INTERNE KRACHTEN & VERPLAATSINGEN (FUNDAMENTEEL)

B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.1	S1	0.000	0.5	0.0	-3.08	304.99	-266.34
		1.000	6.7	6.1	-3.08	235.60	3.95
		2.000	12.8	12.1	-3.08	166.21	204.86
		3.000	17.7	16.9	-3.08	96.82	336.37
		4.000	20.5	19.6	-3.08	27.43	398.49
		5.000	20.7	19.8	-3.08	-41.96	391.23
		6.000	18.5	17.5	-3.08	-111.35	314.57
		7.000	14.2	13.2	-3.08	-180.74	168.52
		8.000	9.0	7.8	-3.08	-250.13	-46.91
	9.000	4.0	2.8	-3.08	-319.52	-331.74	
	S2	L(10.000)	1.3	0.0	-3.08	-388.91	-685.96
		0.000	1.3	0.0	-4.27	348.43	-612.83
		1.000	1.9	0.7	-4.27	279.04	-299.10
		m	mm	mm	kN	kN	kNm

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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		2.000	4.6	3.3	-4.27	209.65	-54.76
		3.000	7.6	6.3	-4.27	140.26	120.19
		4.000	9.8	8.6	-4.27	70.87	225.75
		5.000	10.7	9.4	-4.27	1.48	261.93
		6.000	9.9	8.6	-4.27	-67.91	228.71
		7.000	7.7	6.4	-4.27	-137.30	126.10
		8.000	4.7	3.4	-4.27	-206.69	-45.90
		9.000	2.0	0.8	-4.27	-276.08	-287.29
		L(10.000)	1.2	-0.0	-4.27	-345.47	-598.07
	S3	0.000	1.2	0.0	-10.48	363.06	-606.65
		1.000	3.6	2.4	-10.48	293.67	-278.28
		2.000	7.8	6.6	-10.48	224.28	-19.30
		3.000	12.1	11.0	-10.48	154.89	170.28
		4.000	15.4	14.3	-10.48	85.50	290.48
		5.000	16.9	15.8	-10.48	16.11	341.28
		6.000	16.2	15.1	-10.48	-53.28	322.70
		7.000	13.5	12.4	-10.48	-122.67	234.72
		8.000	9.3	8.3	-10.48	-192.06	77.36
		9.000	4.7	3.6	-10.48	-261.45	-149.39
		L(10.000)	1.0	0.0	-10.48	-330.84	-445.54
	S4	0.000	1.0	0.0	0.00	208.17	-312.25
		0.300	0.3	-0.4	0.00	187.35	-252.93
		0.600	-0.2	-0.6	0.00	166.54	-199.84
		0.900	-0.6	-0.7	0.00	145.72	-153.00
		1.200	-1.0	-0.7	0.00	124.90	-112.41
		1.500	-1.2	-0.7	0.00	104.09	-78.06
		1.800	-1.5	-0.6	0.00	83.27	-49.96
		2.100	-1.7	-0.4	0.00	62.45	-28.10
		2.400	-1.8	-0.3	0.00	41.63	-12.49
		2.700	-2.0	-0.2	0.00	20.82	-3.12
		L(3.000)	-2.2	0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-331.37	-31.47	0.00
		0.450	-1.0	-1.2	-331.37	-31.47	-14.16
		0.900	-2.0	-2.3	-331.37	-31.47	-28.33
		1.350	-2.8	-3.2	-331.37	-31.47	-42.49
		1.800	-3.4	-4.0	-331.37	-31.47	-56.65
		2.250	-3.7	-4.4	-331.37	-31.47	-70.81
		2.700	-3.6	-4.5	-331.37	-31.47	-84.98
		3.150	-3.1	-4.2	-331.37	-31.47	-99.14
		3.600	-2.2	-3.4	-331.37	-31.47	-113.30
		4.050	-0.6	-2.0	-331.37	-31.47	-127.46
		L(4.500)	1.5	0.0	-331.37	-31.47	-141.63
	S6	0.000	1.5	0.0	-26.38	-28.39	124.71
		0.600	4.4	2.5	-26.38	-28.39	107.68
		1.200	6.2	4.0	-26.38	-28.39	90.65
		1.800	7.3	4.8	-26.38	-28.39	73.61
		2.400	7.7	4.8	-26.38	-28.39	56.58
		3.000	7.6	4.4	-26.38	-28.39	39.54
		3.600	7.2	3.6	-26.38	-28.39	22.51
		4.200	6.5	2.6	-26.38	-28.39	5.48
		4.800	5.8	1.6	-26.38	-28.39	-11.56
		5.400	5.2	0.7	-26.38	-28.39	-28.59
		L(6.000)	4.9	0.0	-26.38	-28.39	-45.63
	S7	0.000	0.0	0.0	-790.92	7.78	0.00
		0.450	0.4	0.3	-790.92	7.78	3.50
		0.900	0.9	0.6	-790.92	7.78	7.01
		1.350	1.3	0.8	-790.92	7.78	10.51
		1.800	1.6	1.0	-790.92	7.78	14.01
		2.250	1.9	1.1	-790.92	7.78	17.52
		2.700	2.0	1.1	-790.92	7.78	21.02
		3.150	2.1	1.0	-790.92	7.78	24.52
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.600	2.1	0.8	-790.92	7.78	28.03
		4.050	1.9	0.5	-790.92	7.78	31.53
		L(4.500)	1.5	-0.0	-790.92	7.78	35.03
	S8	0.000	1.5	0.0	-53.58	8.97	-38.09
		0.600	1.1	-0.7	-53.58	8.97	-32.71
		1.200	1.0	-1.2	-53.58	8.97	-27.33
		1.800	1.1	-1.4	-53.58	8.97	-21.95
		2.400	1.4	-1.4	-53.58	8.97	-16.57
		3.000	1.9	-1.2	-53.58	8.97	-11.18
		3.600	2.5	-1.0	-53.58	8.97	-5.80
		4.200	3.1	-0.7	-53.58	8.97	-0.42
		4.800	3.7	-0.4	-53.58	8.97	4.96
		5.400	4.3	-0.2	-53.58	8.97	10.35
		L(6.000)	4.8	-0.0	-53.58	8.97	15.73
	S9	0.000	0.0	0.0	-758.17	-2.68	0.00
		0.450	0.1	-0.1	-758.17	-2.68	-1.21
		0.900	0.1	-0.2	-758.17	-2.68	-2.42
		1.350	0.2	-0.3	-758.17	-2.68	-3.62
		1.800	0.3	-0.3	-758.17	-2.68	-4.83
		2.250	0.4	-0.4	-758.17	-2.68	-6.04
		2.700	0.5	-0.4	-758.17	-2.68	-7.25
		3.150	0.7	-0.4	-758.17	-2.68	-8.46
		3.600	0.9	-0.3	-758.17	-2.68	-9.66
		4.050	1.2	-0.2	-758.17	-2.68	-10.87
		L(4.500)	1.5	0.0	-758.17	-2.68	-12.08
	S10	0.000	1.5	0.0	-49.64	3.53	-3.50
		0.600	2.0	0.2	-49.64	3.53	-1.39
		1.200	2.5	0.4	-49.64	3.53	0.73
		1.800	3.0	0.5	-49.64	3.53	2.84
		2.400	3.5	0.7	-49.64	3.53	4.96
		3.000	3.9	0.8	-49.64	3.53	7.08
		3.600	4.3	0.8	-49.64	3.53	9.19
		4.200	4.5	0.8	-49.64	3.53	11.31
		4.800	4.7	0.7	-49.64	3.53	13.42
		5.400	4.8	0.4	-49.64	3.53	15.54
		L(6.000)	4.7	0.0	-49.64	3.53	17.66
	S11	0.000	0.0	0.0	-613.73	17.35	0.00
		0.450	0.8	0.6	-613.73	17.35	7.81
		0.900	1.6	1.3	-613.73	17.35	15.61
		1.350	2.2	1.8	-613.73	17.35	23.42
		1.800	2.8	2.2	-613.73	17.35	31.23
		2.250	3.2	2.4	-613.73	17.35	39.04
		2.700	3.4	2.5	-613.73	17.35	46.84
		3.150	3.4	2.3	-613.73	17.35	54.65
		3.600	3.1	1.9	-613.73	17.35	62.46
		4.050	2.5	1.1	-613.73	17.35	70.27
		L(4.500)	1.5	-0.0	-613.73	17.35	78.07
	S12	0.000	1.5	0.0	-74.72	6.87	-55.21
		0.600	0.2	-1.6	-74.72	6.87	-51.09
		1.200	-0.6	-2.8	-74.72	6.87	-46.97
		1.800	-1.0	-3.5	-74.72	6.87	-42.84
		2.400	-1.1	-3.8	-74.72	6.87	-38.72
		3.000	-0.8	-3.8	-74.72	6.87	-34.60
		3.600	-0.2	-3.5	-74.72	6.87	-30.48
		4.200	0.7	-3.0	-74.72	6.87	-26.35
		4.800	1.8	-2.2	-74.72	6.87	-22.23
		5.400	3.1	-1.2	-74.72	6.87	-18.11
		L(6.000)	4.6	-0.0	-74.72	6.87	-13.99
	S13	0.000	0.0	0.0	-38.68	9.02	-25.21
		0.450	0.6	-0.2	-38.68	9.02	-21.15
		0.900	1.4	-0.4	-38.68	9.02	-17.09
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		1.350	2.2	-0.4	-38.68	9.02	-13.03
		1.800	3.1	-0.4	-38.68	9.02	-8.97
		2.250	4.0	-0.3	-38.68	9.02	-4.91
		2.700	4.9	-0.2	-38.68	9.02	-0.85
		3.150	5.9	-0.1	-38.68	9.02	3.21
		3.600	6.8	-0.0	-38.68	9.02	7.27
		4.050	7.7	0.0	-38.68	9.02	11.33
		L(4.500)	8.6	-0.0	-38.68	9.02	15.39
	S14	0.000	8.6	0.0	-38.68	9.02	15.39
		0.600	9.6	1.4	-38.68	9.02	20.81
		1.200	10.4	2.6	-38.68	9.02	26.22
		1.800	11.0	3.6	-38.68	9.02	31.63
		2.400	11.3	4.3	-38.68	9.02	37.05
		3.000	11.3	4.7	-38.68	9.02	42.46
		3.600	10.9	4.7	-38.68	9.02	47.87
		4.200	10.1	4.3	-38.68	9.02	53.29
		4.800	8.8	3.4	-38.68	9.02	58.70
		5.400	6.9	2.0	-38.68	9.02	64.11
		L(6.000)	4.6	0.0	-38.68	9.02	69.53
	S15	0.000	0.6	0.0	-28.39	26.38	-45.63
		1.000	0.8	0.1	-28.39	20.98	-21.95
		2.000	1.6	0.9	-28.39	15.58	-3.67
		3.000	2.5	1.7	-28.39	10.18	9.21
		4.000	3.2	2.3	-28.39	4.78	16.69
		5.000	3.5	2.5	-28.39	-0.62	18.77
		6.000	3.2	2.1	-28.39	-6.02	15.45
		7.000	2.6	1.5	-28.39	-11.42	6.73
		8.000	1.8	0.6	-28.39	-16.82	-7.39
		9.000	1.3	-0.1	-28.39	-22.22	-26.91
		L(10.000)	1.4	0.0	-28.39	-27.62	-51.83
	S16	0.000	1.4	0.0	-19.42	25.96	-36.10
		1.000	2.5	1.1	-19.42	20.56	-12.84
		2.000	3.9	2.5	-19.42	15.16	5.02
		3.000	5.2	3.8	-19.42	9.76	17.48
		4.000	6.0	4.6	-19.42	4.36	24.53
		5.000	6.2	4.9	-19.42	-1.04	26.19
		6.000	5.8	4.4	-19.42	-6.44	22.45
		7.000	4.8	3.4	-19.42	-11.84	13.31
		8.000	3.4	2.1	-19.42	-17.24	-1.23
		9.000	2.1	0.7	-19.42	-22.64	-21.17
		L(10.000)	1.3	-0.0	-19.42	-28.04	-46.52
	S17	0.000	1.3	0.0	-15.89	21.60	-28.86
		1.000	1.4	0.0	-15.89	16.20	-9.96
		2.000	1.7	0.4	-15.89	10.80	3.54
		3.000	1.9	0.6	-15.89	5.40	11.64
		4.000	1.8	0.5	-15.89	-0.00	14.33
		5.000	1.4	0.1	-15.89	-5.40	11.63
		6.000	0.7	-0.6	-15.89	-10.80	3.53
		7.000	-0.2	-1.4	-15.89	-16.20	-9.97
		8.000	-0.7	-1.9	-15.89	-21.60	-28.87
		9.000	-0.5	-1.6	-15.89	-27.00	-53.17
		L(10.000)	1.2	-0.0	-15.89	-32.40	-82.87
	S18	0.000	1.2	0.0	-9.02	42.32	-96.86
		1.500	7.3	6.2	-9.02	34.22	-39.45
		3.000	15.8	14.8	-9.02	26.12	5.81
		4.500	24.0	23.1	-9.02	18.02	38.91
		6.000	29.9	29.2	-9.02	9.92	59.87
		7.500	32.5	31.8	-9.02	1.82	68.68
		9.000	31.0	30.5	-9.02	-6.28	65.34
		10.500	25.8	25.3	-9.02	-14.38	49.85
		12.000	17.7	17.4	-9.02	-22.48	22.21
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.2	S1	13.500	8.4	8.1	-9.02	-30.58	-17.59
		L(15.000)	0.1	0.0	-9.02	-38.68	-69.53
		0.000	0.4	0.0	1.58	217.75	-200.49
		1.000	4.6	4.1	1.58	168.61	-7.31
		2.000	8.9	8.4	1.58	119.47	136.74
		3.000	12.3	11.7	1.58	70.33	231.64
		4.000	14.3	13.6	1.58	21.19	277.41
		5.000	14.5	13.8	1.58	-27.95	274.03
		6.000	13.0	12.2	1.58	-77.09	221.52
		7.000	10.0	9.2	1.58	-126.23	119.86
	S2	8.000	6.4	5.5	1.58	-175.37	-30.94
		9.000	2.9	2.0	1.58	-224.51	-230.87
		L(10.000)	1.0	-0.0	1.58	-273.65	-479.95
		0.000	1.0	0.0	-4.24	246.44	-432.75
		1.000	1.5	0.5	-4.24	197.30	-210.87
		2.000	3.3	2.3	-4.24	148.16	-38.14
		3.000	5.4	4.4	-4.24	99.02	85.45
		4.000	7.0	6.0	-4.24	49.88	159.90
		5.000	7.6	6.6	-4.24	0.74	185.22
		6.000	7.1	6.1	-4.24	-48.40	161.39
	S3	7.000	5.5	4.5	-4.24	-97.54	88.42
		8.000	3.4	2.4	-4.24	-146.68	-33.69
		9.000	1.5	0.5	-4.24	-195.82	-204.94
		L(10.000)	1.0	0.0	-4.24	-244.96	-425.32
		0.000	1.0	0.0	-14.09	259.23	-436.01
		1.000	2.7	1.7	-14.09	210.09	-201.35
		2.000	5.7	4.8	-14.09	160.95	-15.83
		3.000	8.9	8.0	-14.09	111.81	120.55
		4.000	11.3	10.4	-14.09	62.67	207.79
		5.000	12.4	11.5	-14.09	13.53	245.88
	S4	6.000	12.0	11.1	-14.09	-35.61	234.84
		7.000	10.0	9.2	-14.09	-84.75	174.66
		8.000	7.0	6.2	-14.09	-133.89	65.34
		9.000	3.6	2.8	-14.09	-183.03	-93.13
		L(10.000)	0.8	0.0	-14.09	-232.17	-300.73
		0.000	0.8	0.0	0.00	147.42	-221.13
		0.300	0.3	-0.3	0.00	132.68	-179.12
		0.600	-0.2	-0.4	0.00	117.94	-141.52
		0.900	-0.6	-0.5	0.00	103.19	-108.35
		1.200	-0.9	-0.5	0.00	88.45	-79.61
	S5	1.500	-1.1	-0.5	0.00	73.71	-55.28
		1.800	-1.4	-0.4	0.00	58.97	-35.38
		2.100	-1.6	-0.3	0.00	44.23	-19.90
		2.400	-1.8	-0.2	0.00	29.48	-8.85
		2.700	-2.0	-0.1	0.00	14.74	-2.21
		L(3.000)	-2.2	0.0	0.00	0.00	0.00
		0.000	0.0	0.0	-260.40	-23.69	0.00
		0.450	-1.0	-0.9	-260.40	-23.69	-10.66
		0.900	-1.9	-1.7	-260.40	-23.69	-21.33
		1.350	-2.7	-2.4	-260.40	-23.69	-31.99
	S6	1.800	-3.3	-3.0	-260.40	-23.69	-42.65
		2.250	-3.7	-3.3	-260.40	-23.69	-53.31
		2.700	-3.9	-3.4	-260.40	-23.69	-63.98
		3.150	-3.7	-3.2	-260.40	-23.69	-74.64
		3.600	-3.2	-2.6	-260.40	-23.69	-85.30
		4.050	-2.2	-1.5	-260.40	-23.69	-95.96
		L(4.500)	-0.8	0.0	-260.40	-23.69	-106.63
		0.000	-0.8	0.0	-42.64	-25.27	93.86
		0.600	1.1	1.5	-42.64	-25.27	78.70
		1.200	2.2	2.4	-42.64	-25.27	63.54
	1.800	2.8	2.6	-42.64	-25.27	48.38	
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		2.400	3.0	2.5	-42.64	-25.27	33.22
		3.000	2.9	2.0	-42.64	-25.27	18.05
		3.600	2.6	1.4	-42.64	-25.27	2.89
		4.200	2.3	0.7	-42.64	-25.27	-12.27
		4.800	2.1	0.2	-42.64	-25.27	-27.43
		5.400	2.1	-0.1	-42.64	-25.27	-42.59
		L(6.000)	2.6	-0.0	-42.64	-25.27	-57.76
	S7	0.000	0.0	0.0	-614.75	2.95	0.00
		0.450	0.0	0.1	-614.75	2.95	1.33
		0.900	0.1	0.2	-614.75	2.95	2.66
		1.350	0.1	0.3	-614.75	2.95	3.98
		1.800	0.1	0.4	-614.75	2.95	5.31
		2.250	0.0	0.4	-614.75	2.95	6.64
		2.700	-0.1	0.4	-614.75	2.95	7.97
		3.150	-0.2	0.4	-614.75	2.95	9.30
		3.600	-0.3	0.3	-614.75	2.95	10.63
		4.050	-0.5	0.2	-614.75	2.95	11.95
		L(4.500)	-0.8	-0.0	-614.75	2.95	13.28
	S8	0.000	-0.8	0.0	-94.66	8.77	-33.92
		0.600	-1.1	-0.6	-94.66	8.77	-28.66
		1.200	-1.1	-0.9	-94.66	8.77	-23.39
		1.800	-0.9	-1.0	-94.66	8.77	-18.13
		2.400	-0.5	-1.0	-94.66	8.77	-12.87
		3.000	-0.0	-0.8	-94.66	8.77	-7.60
		3.600	0.5	-0.6	-94.66	8.77	-2.34
		4.200	1.1	-0.4	-94.66	8.77	2.92
		4.800	1.6	-0.2	-94.66	8.77	8.18
		5.400	2.1	-0.0	-94.66	8.77	13.45
		L(6.000)	2.5	0.0	-94.66	8.77	18.71
	S9	0.000	0.0	0.0	-588.90	-4.57	0.00
		0.450	-0.3	-0.2	-588.90	-4.57	-2.06
		0.900	-0.5	-0.3	-588.90	-4.57	-4.11
		1.350	-0.7	-0.5	-588.90	-4.57	-6.17
		1.800	-0.9	-0.6	-588.90	-4.57	-8.23
		2.250	-1.0	-0.6	-588.90	-4.57	-10.28
		2.700	-1.1	-0.7	-588.90	-4.57	-12.34
		3.150	-1.2	-0.6	-588.90	-4.57	-14.40
		3.600	-1.1	-0.5	-588.90	-4.57	-16.45
		4.050	-1.0	-0.3	-588.90	-4.57	-18.51
		L(4.500)	-0.8	0.0	-588.90	-4.57	-20.56
	S10	0.000	-0.8	0.0	-84.71	5.27	-9.88
		0.600	-0.4	0.1	-84.71	5.27	-6.72
		1.200	0.0	0.2	-84.71	5.27	-3.55
		1.800	0.5	0.4	-84.71	5.27	-0.39
		2.400	1.0	0.5	-84.71	5.27	2.78
		3.000	1.5	0.7	-84.71	5.27	5.94
		3.600	1.9	0.7	-84.71	5.27	9.11
		4.200	2.2	0.8	-84.71	5.27	12.27
		4.800	2.4	0.6	-84.71	5.27	15.43
		5.400	2.5	0.4	-84.71	5.27	18.60
		L(6.000)	2.4	0.0	-84.71	5.27	21.76
	S11	0.000	0.0	0.0	-506.08	11.22	0.00
		0.450	0.3	0.4	-506.08	11.22	5.05
		0.900	0.6	0.8	-506.08	11.22	10.09
		1.350	0.9	1.1	-506.08	11.22	15.14
		1.800	1.1	1.4	-506.08	11.22	20.19
		2.250	1.2	1.6	-506.08	11.22	25.24
		2.700	1.1	1.6	-506.08	11.22	30.28
		3.150	0.9	1.5	-506.08	11.22	35.33
		3.600	0.5	1.2	-506.08	11.22	40.38
		4.050	-0.0	0.7	-506.08	11.22	45.43
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		L(4.500)	-0.8	-0.0	-506.08	11.22	50.47
	S12	0.000	-0.8	0.0	-126.48	-2.87	-29.13
		0.600	-1.9	-1.4	-126.48	-2.87	-30.85
		1.200	-2.8	-2.6	-126.48	-2.87	-32.57
		1.800	-3.3	-3.4	-126.48	-2.87	-34.30
		2.400	-3.5	-4.0	-126.48	-2.87	-36.02
		3.000	-3.4	-4.2	-126.48	-2.87	-37.74
		3.600	-3.0	-4.1	-126.48	-2.87	-39.47
		4.200	-2.2	-3.6	-126.48	-2.87	-41.19
		4.800	-1.1	-2.8	-126.48	-2.87	-42.91
		5.400	0.4	-1.6	-126.48	-2.87	-44.64
		L(6.000)	2.3	-0.0	-126.48	-2.87	-46.36
	S13	0.000	0.0	0.0	-64.60	14.10	-36.81
		0.450	0.9	-0.3	-64.60	14.10	-30.46
		0.900	2.0	-0.5	-64.60	14.10	-24.12
		1.350	3.2	-0.5	-64.60	14.10	-17.78
		1.800	4.4	-0.4	-64.60	14.10	-11.43
		2.250	5.8	-0.3	-64.60	14.10	-5.09
		2.700	7.1	-0.2	-64.60	14.10	1.25
		3.150	8.5	-0.0	-64.60	14.10	7.60
		3.600	9.8	0.1	-64.60	14.10	13.94
		4.050	11.1	0.1	-64.60	14.10	20.28
		L(4.500)	12.2	-0.0	-64.60	14.10	26.63
	S14	0.000	12.2	0.0	-64.60	14.10	26.63
		0.600	13.5	2.3	-64.60	14.10	35.09
		1.200	14.5	4.3	-64.60	14.10	43.54
		1.800	15.1	5.9	-64.60	14.10	52.00
		2.400	15.3	7.1	-64.60	14.10	60.46
		3.000	14.9	7.7	-64.60	14.10	68.92
		3.600	13.9	7.7	-64.60	14.10	77.38
		4.200	12.2	7.0	-64.60	14.10	85.83
		4.800	9.7	5.5	-64.60	14.10	94.29
		5.400	6.5	3.2	-64.60	14.10	102.75
		L(6.000)	2.3	0.0	-64.60	14.10	111.21
	S15	0.000	0.5	0.0	-25.27	42.64	-57.76
		1.000	2.2	1.6	-25.27	33.46	-19.70
		2.000	4.4	3.7	-25.27	24.28	9.17
		3.000	6.4	5.7	-25.27	15.10	28.86
		4.000	7.6	6.9	-25.27	5.92	39.37
		5.000	7.9	7.0	-25.27	-3.26	40.70
		6.000	7.1	6.2	-25.27	-12.44	32.86
		7.000	5.5	4.5	-25.27	-21.62	15.83
		8.000	3.5	2.4	-25.27	-30.80	-10.38
		9.000	1.7	0.6	-25.27	-39.98	-45.77
		L(10.000)	1.2	-0.0	-25.27	-49.16	-90.34
	S16	0.000	1.2	0.0	-16.50	45.50	-71.63
		1.000	2.4	1.2	-16.50	36.32	-30.71
		2.000	4.4	3.2	-16.50	27.14	1.02
		3.000	6.5	5.3	-16.50	17.96	23.58
		4.000	7.9	6.7	-16.50	8.78	36.95
		5.000	8.4	7.2	-16.50	-0.40	41.15
		6.000	7.8	6.6	-16.50	-9.58	36.16
		7.000	6.3	5.1	-16.50	-18.76	22.00
		8.000	4.2	3.1	-16.50	-27.94	-1.35
		9.000	2.2	1.1	-16.50	-37.12	-33.87
		L(10.000)	1.1	-0.0	-16.50	-46.30	-75.58
	S17	0.000	1.1	0.0	-11.22	38.42	-53.82
		1.000	1.4	0.3	-11.22	29.24	-19.99
		2.000	2.2	1.0	-11.22	20.06	4.66
		3.000	2.9	1.7	-11.22	10.88	20.13
		4.000	3.0	1.9	-11.22	1.70	26.42
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My	
Fu.C.3	S18	5.000	2.6	1.4	-11.22	-7.48	23.53	
		6.000	1.5	0.4	-11.22	-16.66	11.46	
		7.000	0.1	-1.0	-11.22	-25.84	-9.79	
		8.000	-1.0	-2.1	-11.22	-35.02	-40.23	
		9.000	-1.0	-2.1	-11.22	-44.20	-79.84	
		L(10.000)	1.1	-0.0	-11.22	-53.38	-128.63	
		0.000	1.1	0.0	-14.10	73.10	-174.99	
		1.500	10.5	9.5	-14.10	59.33	-75.66	
		3.000	24.5	23.6	-14.10	45.56	3.01	
		4.500	38.4	37.5	-14.10	31.79	61.02	
		6.000	48.8	48.0	-14.10	18.02	98.38	
		7.500	53.5	52.8	-14.10	4.25	115.09	
		9.000	51.6	51.0	-14.10	-9.52	111.14	
		10.500	43.3	42.8	-14.10	-23.29	86.54	
		12.000	30.0	29.5	-14.10	-37.06	41.28	
		13.500	14.3	14.0	-14.10	-50.83	-24.64	
		L(15.000)	0.2	0.0	-14.10	-64.60	-111.21	
	S1	0.000	0.3	0.0	-26.76	202.25	-110.34	
		1.000	5.5	5.1	-26.76	153.11	67.34	
		2.000	10.3	9.8	-26.76	103.97	195.88	
		3.000	13.8	13.3	-26.76	54.83	275.28	
		4.000	15.5	15.0	-26.76	5.69	305.55	
		5.000	15.4	14.8	-26.76	-43.45	286.67	
		6.000	13.4	12.8	-26.76	-92.59	218.65	
		7.000	10.1	9.4	-26.76	-141.73	101.49	
		8.000	6.1	5.3	-26.76	-190.87	-64.80	
		9.000	2.6	1.8	-26.76	-240.01	-280.24	
		L(10.000)	0.9	-0.0	-26.76	-289.15	-544.82	
		S2	0.000	0.9	0.0	-18.16	238.62	-393.56
			1.000	1.7	0.8	-18.16	189.48	-179.50
			2.000	3.6	2.7	-18.16	140.34	-14.59
			3.000	5.7	4.8	-18.16	91.20	101.19
			4.000	7.1	6.3	-18.16	42.06	167.82
			5.000	7.5	6.7	-18.16	-7.08	185.32
	6.000		6.8	5.9	-18.16	-56.22	153.67	
	7.000		5.0	4.2	-18.16	-105.36	72.89	
	8.000		2.9	2.0	-18.16	-154.50	-57.04	
	9.000		1.1	0.2	-18.16	-203.64	-236.10	
	L(10.000)		0.8	-0.0	-18.16	-252.78	-464.31	
	S3		0.000	0.8	0.0	-13.35	243.66	-371.17
			1.000	2.8	2.0	-13.35	194.52	-152.09
			2.000	5.7	4.9	-13.35	145.38	17.86
			3.000	8.6	7.8	-13.35	96.24	138.67
			4.000	10.6	9.8	-13.35	47.10	210.33
5.000			11.2	10.5	-13.35	-2.04	232.86	
6.000		10.4	9.7	-13.35	-51.18	206.25		
7.000		8.3	7.6	-13.35	-100.32	130.49		
8.000		5.4	4.7	-13.35	-149.46	5.60		
9.000		2.5	1.8	-13.35	-198.60	-168.43		
L(10.000)		0.7	0.0	-13.35	-247.74	-391.60		
S4		0.000	0.7	0.0	0.00	147.42	-221.13	
		0.300	0.5	-0.3	0.00	132.68	-179.12	
		0.600	0.4	-0.4	0.00	117.94	-141.52	
		0.900	0.4	-0.5	0.00	103.19	-108.35	
		1.200	0.5	-0.5	0.00	88.45	-79.61	
		1.500	0.6	-0.5	0.00	73.71	-55.28	
	1.800	0.8	-0.4	0.00	58.97	-35.38		
	2.100	0.9	-0.3	0.00	44.23	-19.90		
	2.400	1.1	-0.2	0.00	29.48	-8.85		
	2.700	1.3	-0.1	0.00	14.74	-2.21		
	L(3.000)	1.5	-0.0	0.00	0.00	0.00		
		m	mm	mm	kN	kN	kNm	

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
	S5	0.000	0.0	0.0	-211.54	-0.37	0.00
		0.450	1.3	-0.2	-211.54	-2.68	-0.69
		0.900	2.7	-0.5	-211.54	-4.99	-2.41
		1.350	4.1	-0.7	-211.54	-7.30	-5.18
		1.800	5.4	-0.9	-211.54	-9.61	-8.98
		2.250	6.9	-1.0	-211.54	-11.92	-13.82
		2.700	8.4	-1.1	-211.54	-14.22	-19.71
		3.150	10.0	-1.0	-211.54	-16.53	-26.63
		3.600	11.7	-0.9	-211.54	-18.84	-34.59
		4.050	13.6	-0.6	-211.54	-21.15	-43.58
		L(4.500)	15.7	-0.0	-211.54	-23.46	-53.62
	S6	0.000	15.7	0.0	-9.29	3.30	56.72
		0.600	18.5	1.9	-9.29	0.23	57.78
		1.200	20.7	3.2	-9.29	-2.85	56.99
		1.800	22.5	4.1	-9.29	-5.93	54.36
		2.400	23.7	4.5	-9.29	-9.01	49.88
		3.000	24.5	4.4	-9.29	-12.09	43.55
		3.600	24.9	4.0	-9.29	-15.16	35.37
		4.200	25.0	3.2	-9.29	-18.24	25.35
		4.800	24.9	2.2	-9.29	-21.32	13.48
		5.400	24.7	1.1	-9.29	-24.40	-0.23
		L(6.000)	24.4	0.0	-9.29	-27.48	-15.80
	S7	0.000	0.0	0.0	-547.50	22.41	0.00
		0.450	2.4	0.8	-547.50	22.41	10.09
		0.900	4.8	1.6	-547.50	22.41	20.17
		1.350	7.0	2.3	-547.50	22.41	30.26
		1.800	9.1	2.8	-547.50	22.41	40.34
		2.250	11.0	3.2	-547.50	22.41	50.43
		2.700	12.6	3.2	-547.50	22.41	60.51
		3.150	14.0	3.0	-547.50	22.41	70.60
		3.600	15.0	2.4	-547.50	22.41	80.69
		4.050	15.6	1.4	-547.50	22.41	90.77
		L(4.500)	15.7	-0.0	-547.50	22.41	100.86
	S8	0.000	15.7	0.0	-19.73	13.81	-50.41
		0.600	15.8	-0.8	-19.73	13.81	-42.12
		1.200	16.2	-1.2	-19.73	13.81	-33.83
		1.800	16.9	-1.4	-19.73	13.81	-25.55
		2.400	17.9	-1.3	-19.73	13.81	-17.26
		3.000	19.0	-1.0	-19.73	13.81	-8.97
		3.600	20.2	-0.7	-19.73	13.81	-0.69
		4.200	21.4	-0.3	-19.73	13.81	7.60
		4.800	22.6	-0.0	-19.73	13.81	15.89
		5.400	23.6	0.1	-19.73	13.81	24.17
		L(6.000)	24.3	0.0	-19.73	13.81	32.46
	S9	0.000	0.0	0.0	-516.23	14.90	0.00
		0.450	2.1	0.6	-516.23	14.90	6.70
		0.900	4.2	1.1	-516.23	14.90	13.41
		1.350	6.2	1.5	-516.23	14.90	20.11
		1.800	8.1	1.9	-516.23	14.90	26.82
		2.250	9.9	2.1	-516.23	14.90	33.52
		2.700	11.5	2.1	-516.23	14.90	40.23
		3.150	13.0	2.0	-516.23	14.90	46.93
		3.600	14.1	1.6	-516.23	14.90	53.64
		4.050	15.1	1.0	-516.23	14.90	60.34
		L(4.500)	15.7	-0.0	-516.23	14.90	67.05
	S10	0.000	15.7	0.0	-19.80	10.09	-26.09
		0.600	16.4	-0.2	-19.80	10.09	-20.03
		1.200	17.3	-0.1	-19.80	10.09	-13.98
		1.800	18.3	0.0	-19.80	10.09	-7.93
		2.400	19.3	0.2	-19.80	10.09	-1.88
		3.000	20.4	0.5	-19.80	10.09	4.18
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.600	21.5	0.7	-19.80	10.09	10.23
		4.200	22.5	0.8	-19.80	10.09	16.28
		4.800	23.3	0.7	-19.80	10.09	22.33
		5.400	23.9	0.5	-19.80	10.09	28.39
		L(6.000)	24.3	0.0	-19.80	10.09	34.44
	S11	0.000	0.0	0.0	-427.28	25.68	0.00
		0.450	2.5	1.0	-427.28	25.68	11.56
		0.900	5.0	1.9	-427.28	25.68	23.11
		1.350	7.3	2.6	-427.28	25.68	34.67
		1.800	9.5	3.2	-427.28	25.68	46.22
		2.250	11.4	3.6	-427.28	25.68	57.78
		2.700	13.1	3.7	-427.28	25.68	69.34
		3.150	14.4	3.4	-427.28	25.68	80.89
		3.600	15.3	2.8	-427.28	25.68	92.45
		4.050	15.7	1.6	-427.28	25.68	104.00
		L(4.500)	15.6	-0.0	-427.28	25.68	115.56
	S12	0.000	15.6	0.0	-32.11	12.33	-54.92
		0.600	15.4	-1.1	-32.11	12.33	-47.52
		1.200	15.6	-1.8	-32.11	12.33	-40.12
		1.800	16.1	-2.1	-32.11	12.33	-32.72
		2.400	16.9	-2.2	-32.11	12.33	-25.32
		3.000	18.0	-2.0	-32.11	12.33	-17.92
		3.600	19.2	-1.6	-32.11	12.33	-10.52
		4.200	20.5	-1.2	-32.11	12.33	-3.12
		4.800	21.8	-0.7	-32.11	12.33	4.28
		5.400	23.1	-0.3	-32.11	12.33	11.68
		L(6.000)	24.3	-0.0	-32.11	12.33	19.08
	S13	0.000	0.0	0.0	-16.27	25.27	-55.23
		0.450	1.4	-0.4	-16.27	23.81	-44.19
		0.900	3.0	-0.7	-16.27	22.35	-33.80
		1.350	4.7	-0.7	-16.27	20.89	-24.07
		1.800	6.6	-0.6	-16.27	19.43	-15.00
		2.250	8.6	-0.5	-16.27	17.98	-6.58
		2.700	10.6	-0.3	-16.27	16.52	1.18
		3.150	12.5	-0.1	-16.27	15.06	8.29
		3.600	14.5	-0.0	-16.27	13.60	14.74
		4.050	16.4	0.0	-16.27	12.14	20.53
		L(4.500)	18.1	0.0	-16.27	10.69	25.66
	S14	0.000	18.1	0.0	-16.27	10.69	25.66
		0.600	20.3	1.5	-16.27	8.74	31.49
		1.200	22.2	2.8	-16.27	6.80	36.16
		1.800	23.7	3.7	-16.27	4.85	39.65
		2.400	24.9	4.3	-16.27	2.91	41.98
		3.000	25.7	4.5	-16.27	0.97	43.14
		3.600	26.2	4.4	-16.27	-0.98	43.14
		4.200	26.3	3.8	-16.27	-2.92	41.97
		4.800	26.0	2.9	-16.27	-4.87	39.63
		5.400	25.3	1.6	-16.27	-6.81	36.13
		L(6.000)	24.3	-0.0	-16.27	-8.75	31.46
	S15	0.000	0.4	0.0	-27.48	9.29	-15.80
		1.000	0.2	-0.2	-27.48	7.13	-7.59
		2.000	0.3	-0.2	-27.48	4.97	-1.53
		3.000	0.4	-0.2	-27.48	2.81	2.36
		4.000	0.4	-0.2	-27.48	0.65	4.09
		5.000	0.4	-0.3	-27.48	-1.51	3.66
		6.000	0.2	-0.5	-27.48	-3.67	1.08
		7.000	0.1	-0.7	-27.48	-5.83	-3.67
		8.000	-0.0	-0.8	-27.48	-7.99	-10.58
		9.000	0.2	-0.7	-27.48	-10.15	-19.65
		L(10.000)	0.9	-0.0	-27.48	-12.31	-30.88
	S16	0.000	0.9	0.0	-13.67	7.42	1.58
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My	
Fu.C.4	S17	1.000	2.0	1.0	-13.67	5.26	7.93	
		2.000	2.8	1.9	-13.67	3.10	12.11	
		3.000	3.3	2.4	-13.67	0.94	14.13	
		4.000	3.5	2.5	-13.67	-1.22	13.99	
		5.000	3.3	2.3	-13.67	-3.38	11.70	
		6.000	2.7	1.8	-13.67	-5.54	7.24	
		7.000	2.1	1.2	-13.67	-7.70	0.62	
		8.000	1.4	0.5	-13.67	-9.86	-8.15	
		9.000	0.9	-0.0	-13.67	-12.02	-19.09	
		L(10.000)	0.9	0.0	-13.67	-14.18	-32.19	
		0.000	0.9	0.0	-3.58	5.62	2.25	
		1.000	1.2	0.3	-3.58	3.46	6.79	
		2.000	1.4	0.5	-3.58	1.30	9.17	
		3.000	1.3	0.4	-3.58	-0.86	9.39	
		4.000	1.0	0.1	-3.58	-3.02	7.45	
		5.000	0.5	-0.4	-3.58	-5.18	3.35	
		6.000	-0.1	-1.0	-3.58	-7.34	-2.91	
		7.000	-0.7	-1.5	-3.58	-9.50	-11.33	
		8.000	-0.9	-1.7	-3.58	-11.66	-21.91	
		9.000	-0.5	-1.3	-3.58	-13.82	-34.65	
	S18	L(10.000)	0.8	0.0	-3.58	-15.98	-49.55	
		0.000	0.8	0.0	8.75	16.13	-30.47	
		1.500	4.2	3.5	8.75	12.89	-8.70	
		3.000	8.2	7.6	8.75	9.65	8.21	
		4.500	11.7	11.2	8.75	6.41	20.26	
		6.000	14.1	13.6	8.75	3.17	27.45	
		7.500	14.8	14.4	8.75	-0.07	29.78	
		9.000	13.9	13.5	8.75	-3.31	27.26	
		10.500	11.3	11.1	8.75	-6.55	19.87	
		12.000	7.7	7.5	8.75	-9.79	7.62	
	S1	13.500	3.6	3.4	8.75	-13.03	-9.49	
		L(15.000)	0.1	-0.0	8.75	-16.27	-31.46	
		0.000	0.4	0.0	10.99	227.83	-254.63	
		1.000	4.1	3.6	10.99	178.69	-51.37	
		2.000	8.1	7.6	10.99	129.55	102.75	
		3.000	11.5	11.0	10.99	80.41	207.73	
		4.000	13.7	13.1	10.99	31.27	263.57	
		5.000	14.1	13.5	10.99	-17.87	270.27	
		6.000	12.8	12.2	10.99	-67.01	227.83	
		7.000	10.1	9.4	10.99	-116.15	136.25	
		8.000	6.6	5.8	10.99	-165.29	-4.47	
		9.000	3.1	2.3	10.99	-214.43	-194.33	
		S2	L(10.000)	0.9	-0.0	10.99	-263.57	-433.33
			0.000	0.9	0.0	7.15	254.80	-473.99
			1.000	1.0	0.2	7.15	205.66	-243.76
			2.000	2.8	1.9	7.15	156.52	-62.67
			3.000	5.0	4.1	7.15	107.38	69.28
			4.000	6.7	5.9	7.15	58.24	152.09
			5.000	7.6	6.7	7.15	9.10	185.76
			6.000	7.2	6.3	7.15	-40.04	170.29
	7.000		5.8	4.9	7.15	-89.18	105.68	
	8.000		3.7	2.9	7.15	-138.32	-8.07	
	S3	9.000	1.7	0.9	7.15	-187.46	-170.96	
		L(10.000)	0.9	-0.0	7.15	-236.60	-382.99	
		0.000	0.9	0.0	0.21	268.62	-481.48	
		1.000	2.2	1.4	0.21	219.48	-237.43	
		2.000	5.2	4.4	0.21	170.34	-42.53	
		3.000	8.4	7.6	0.21	121.20	103.24	
		4.000	11.0	10.3	0.21	72.06	199.87	
		5.000	12.4	11.6	0.21	22.92	247.36	
		6.000	12.2	11.4	0.21	-26.22	245.70	
		m	mm	mm	kN	kN	kNm	

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		7.000	10.4	9.7	0.21	-75.36	194.91
		8.000	7.4	6.7	0.21	-124.50	94.98
		9.000	3.8	3.2	0.21	-173.64	-54.09
		L(10.000)	0.6	0.0	0.21	-222.78	-252.30
	S4	0.000	0.6	0.0	0.00	147.42	-221.13
		0.300	-0.1	-0.3	0.00	132.68	-179.12
		0.600	-0.7	-0.4	0.00	117.94	-141.52
		0.900	-1.2	-0.5	0.00	103.19	-108.35
		1.200	-1.7	-0.5	0.00	88.45	-79.61
		1.500	-2.1	-0.5	0.00	73.71	-55.28
		1.800	-2.5	-0.4	0.00	58.97	-35.38
		2.100	-2.9	-0.3	0.00	44.23	-19.90
		2.400	-3.3	-0.2	0.00	29.48	-8.85
		2.700	-3.6	-0.1	0.00	14.74	-2.21
		L(3.000)	-4.0	0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-241.72	-38.54	0.00
		0.450	-2.4	-1.3	-241.72	-37.08	-17.01
		0.900	-4.7	-2.5	-241.72	-35.62	-33.37
		1.350	-6.8	-3.5	-241.72	-34.16	-49.08
		1.800	-8.7	-4.3	-241.72	-32.71	-64.12
		2.250	-10.3	-4.8	-241.72	-31.25	-78.51
		2.700	-11.4	-4.9	-241.72	-29.79	-92.25
		3.150	-12.1	-4.5	-241.72	-28.33	-105.32
		3.600	-12.3	-3.6	-241.72	-26.87	-117.74
		4.050	-11.9	-2.1	-241.72	-25.42	-129.51
		L(4.500)	-10.9	0.0	-241.72	-23.96	-140.62
	S6	0.000	-10.9	0.0	-13.89	-34.95	114.01
		0.600	-9.5	1.9	-13.89	-33.01	93.62
		1.200	-8.9	3.0	-13.89	-31.06	74.40
		1.800	-9.0	3.4	-13.89	-29.12	56.35
		2.400	-9.6	3.3	-13.89	-27.17	39.46
		3.000	-10.6	2.9	-13.89	-25.23	23.74
		3.600	-11.8	2.3	-13.89	-23.29	9.18
		4.200	-13.0	1.5	-13.89	-21.34	-4.21
		4.800	-14.3	0.8	-13.89	-19.40	-16.43
		5.400	-15.3	0.3	-13.89	-17.45	-27.49
		L(6.000)	-16.2	0.0	-13.89	-15.51	-37.38
	S7	0.000	0.0	0.0	-538.81	-7.85	0.00
		0.450	-1.4	-0.3	-538.81	-7.85	-3.53
		0.900	-2.7	-0.6	-538.81	-7.85	-7.06
		1.350	-4.1	-0.8	-538.81	-7.85	-10.60
		1.800	-5.3	-1.0	-538.81	-7.85	-14.13
		2.250	-6.5	-1.1	-538.81	-7.85	-17.66
		2.700	-7.6	-1.1	-538.81	-7.85	-21.19
		3.150	-8.6	-1.1	-538.81	-7.85	-24.73
		3.600	-9.5	-0.8	-538.81	-7.85	-28.26
		4.050	-10.3	-0.5	-538.81	-7.85	-31.79
		L(4.500)	-10.8	0.0	-538.81	-7.85	-35.32
	S8	0.000	-10.8	0.0	-20.44	-4.01	5.34
		0.600	-11.5	-0.1	-20.44	-4.01	2.93
		1.200	-12.2	-0.3	-20.44	-4.01	0.53
		1.800	-12.9	-0.5	-20.44	-4.01	-1.87
		2.400	-13.6	-0.6	-20.44	-4.01	-4.28
		3.000	-14.3	-0.7	-20.44	-4.01	-6.68
		3.600	-14.9	-0.8	-20.44	-4.01	-9.09
		4.200	-15.4	-0.8	-20.44	-4.01	-11.49
		4.800	-15.8	-0.6	-20.44	-4.01	-13.90
		5.400	-16.1	-0.4	-20.44	-4.01	-16.30
		L(6.000)	-16.2	-0.0	-20.44	-4.01	-18.71
	S9	0.000	0.0	0.0	-525.28	-15.14	0.00
		0.450	-1.6	-0.6	-525.28	-15.14	-6.81

m mm mm kN kN kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		0.900	-3.3	-1.1	-525.28	-15.14	-13.62
		1.350	-4.8	-1.6	-525.28	-15.14	-20.44
		1.800	-6.2	-1.9	-525.28	-15.14	-27.25
		2.250	-7.5	-2.1	-525.28	-15.14	-34.06
		2.700	-8.7	-2.2	-525.28	-15.14	-40.87
		3.150	-9.6	-2.0	-525.28	-15.14	-47.68
		3.600	-10.3	-1.6	-525.28	-15.14	-54.49
		4.050	-10.7	-1.0	-525.28	-15.14	-61.31
		L(4.500)	-10.8	0.0	-525.28	-15.14	-68.12
	S10	0.000	-10.8	0.0	-20.06	-8.20	30.37
		0.600	-10.9	0.5	-20.06	-8.20	25.45
		1.200	-11.2	0.8	-20.06	-8.20	20.53
		1.800	-11.6	0.8	-20.06	-8.20	15.61
		2.400	-12.2	0.8	-20.06	-8.20	10.69
		3.000	-12.9	0.6	-20.06	-8.20	5.77
		3.600	-13.7	0.4	-20.06	-8.20	0.85
		4.200	-14.4	0.2	-20.06	-8.20	-4.07
		4.800	-15.2	0.1	-20.06	-8.20	-8.99
		5.400	-15.8	-0.0	-20.06	-8.20	-13.91
		L(6.000)	-16.3	-0.0	-20.06	-8.20	-18.83
	S11	0.000	0.0	0.0	-396.83	1.25	0.00
		0.450	-1.0	0.0	-396.83	1.25	0.56
		0.900	-2.1	0.1	-396.83	1.25	1.12
		1.350	-3.1	0.1	-396.83	1.25	1.69
		1.800	-4.2	0.2	-396.83	1.25	2.25
		2.250	-5.2	0.2	-396.83	1.25	2.81
		2.700	-6.3	0.2	-396.83	1.25	3.37
		3.150	-7.4	0.2	-396.83	1.25	3.93
		3.600	-8.5	0.1	-396.83	1.25	4.49
		4.050	-9.7	0.1	-396.83	1.25	5.06
		L(4.500)	-10.8	-0.0	-396.83	1.25	5.62
	S12	0.000	-10.8	0.0	-26.63	1.46	-25.56
		0.600	-12.3	-0.9	-26.63	1.46	-24.68
		1.200	-13.5	-1.6	-26.63	1.46	-23.80
		1.800	-14.5	-2.0	-26.63	1.46	-22.92
		2.400	-15.4	-2.3	-26.63	1.46	-22.05
		3.000	-16.0	-2.4	-26.63	1.46	-21.17
		3.600	-16.4	-2.2	-26.63	1.46	-20.29
		4.200	-16.7	-1.9	-26.63	1.46	-19.42
		4.800	-16.8	-1.4	-26.63	1.46	-18.54
		5.400	-16.7	-0.8	-26.63	1.46	-17.66
		L(6.000)	-16.4	0.0	-26.63	1.46	-16.78
	S13	0.000	0.0	0.0	-16.18	-27.61	44.52
		0.450	-1.1	0.2	-16.18	-25.30	32.62
		0.900	-2.4	0.2	-16.18	-22.99	21.75
		1.350	-3.7	0.1	-16.18	-20.68	11.92
		1.800	-5.2	0.0	-16.18	-18.37	3.14
		2.250	-6.6	-0.2	-16.18	-16.07	-4.61
		2.700	-8.1	-0.3	-16.18	-13.76	-11.32
		3.150	-9.4	-0.4	-16.18	-11.45	-16.99
		3.600	-10.7	-0.4	-16.18	-9.14	-21.63
		4.050	-11.9	-0.2	-16.18	-6.83	-25.22
		L(4.500)	-13.0	0.0	-16.18	-4.52	-27.78
	S14	0.000	-13.0	0.0	-16.18	-4.52	-27.78
		0.600	-14.2	-0.8	-16.18	-1.45	-29.57
		1.200	-15.1	-1.4	-16.18	1.63	-29.51
		1.800	-15.7	-1.7	-16.18	4.71	-27.61
		2.400	-16.2	-1.8	-16.18	7.79	-23.86
		3.000	-16.4	-1.6	-16.18	10.87	-18.26
		3.600	-16.4	-1.3	-16.18	13.94	-10.82
		4.200	-16.4	-0.9	-16.18	17.02	-1.53
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		4.800	-16.3	-0.5	-16.18	20.10	9.61
		5.400	-16.4	-0.1	-16.18	23.18	22.60
		L(6.000)	-16.6	-0.0	-16.18	26.26	37.43
	S15	0.000	0.4	0.0	-15.51	13.89	-37.38
		1.000	-0.3	-0.8	-15.51	11.73	-24.57
		2.000	-0.3	-0.9	-15.51	9.57	-13.92
		3.000	-0.0	-0.6	-15.51	7.41	-5.44
		4.000	0.4	-0.2	-15.51	5.25	0.89
		5.000	0.9	0.2	-15.51	3.09	5.06
		6.000	1.2	0.4	-15.51	0.93	7.06
		7.000	1.3	0.5	-15.51	-1.23	6.91
		8.000	1.2	0.4	-15.51	-3.39	4.60
		9.000	1.1	0.2	-15.51	-5.55	0.12
		L(10.000)	0.9	0.0	-15.51	-7.71	-6.51
	S16	0.000	0.9	0.0	-19.52	12.73	-25.22
		1.000	1.1	0.2	-19.52	10.57	-13.57
		2.000	1.6	0.7	-19.52	8.41	-4.09
		3.000	2.3	1.3	-19.52	6.25	3.24
		4.000	2.8	1.9	-19.52	4.09	8.40
		5.000	3.2	2.3	-19.52	1.93	11.41
		6.000	3.2	2.3	-19.52	-0.23	12.26
		7.000	3.0	2.0	-19.52	-2.39	10.94
		8.000	2.4	1.5	-19.52	-4.55	7.47
		9.000	1.7	0.8	-19.52	-6.71	1.83
		L(10.000)	0.9	0.0	-19.52	-8.87	-5.96
	S17	0.000	0.9	0.0	-27.72	11.19	-24.79
		1.000	0.4	-0.4	-27.72	9.03	-14.68
		2.000	0.4	-0.5	-27.72	6.87	-6.73
		3.000	0.5	-0.4	-27.72	4.71	-0.94
		4.000	0.6	-0.2	-27.72	2.55	2.69
		5.000	0.7	-0.1	-27.72	0.39	4.16
		6.000	0.7	-0.1	-27.72	-1.77	3.47
		7.000	0.5	-0.2	-27.72	-3.93	0.62
		8.000	0.4	-0.3	-27.72	-6.09	-4.39
		9.000	0.4	-0.3	-27.72	-8.25	-11.56
		L(10.000)	0.7	0.0	-27.72	-10.41	-20.89
	S18	0.000	0.7	0.0	-26.26	16.22	-37.67
		1.500	2.4	1.7	-26.26	12.98	-15.78
		3.000	5.0	4.4	-26.26	9.74	1.26
		4.500	7.6	7.0	-26.26	6.50	13.43
		6.000	9.4	8.9	-26.26	3.26	20.75
		7.500	10.0	9.6	-26.26	0.02	23.20
		9.000	9.2	8.9	-26.26	-3.22	20.80
		10.500	7.3	7.1	-26.26	-6.46	13.53
		12.000	4.6	4.4	-26.26	-9.70	1.40
		13.500	1.9	1.8	-26.26	-12.94	-15.58
		L(15.000)	0.1	0.0	-26.26	-16.18	-37.43
Fu.C.5	S1	0.000	0.4	0.0	-1.04	236.92	-210.60
		1.000	5.1	4.6	-1.04	183.16	-0.55
		2.000	9.9	9.3	-1.04	129.40	155.73
		3.000	13.6	13.0	-1.04	75.64	258.25
		4.000	15.8	15.1	-1.04	21.88	307.02
		5.000	16.0	15.2	-1.04	-31.88	302.02
		6.000	14.3	13.5	-1.04	-85.64	243.26
		7.000	11.0	10.2	-1.04	-139.40	130.75
		8.000	7.0	6.0	-1.04	-193.16	-35.53
		9.000	3.2	2.2	-1.04	-246.92	-255.57
		L(10.000)	1.0	-0.0	-1.04	-300.68	-529.36
	S2	0.000	1.0	0.0	-3.74	269.84	-474.35
		1.000	1.5	0.5	-3.74	216.08	-231.39
		2.000	3.6	2.5	-3.74	162.32	-42.20
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.000	5.9	4.9	-3.74	108.56	93.24
		4.000	7.6	6.6	-3.74	54.80	174.91
		5.000	8.3	7.3	-3.74	1.04	202.83
		6.000	7.7	6.7	-3.74	-52.72	176.99
		7.000	6.0	5.0	-3.74	-106.48	97.38
		8.000	3.6	2.6	-3.74	-160.24	-35.98
		9.000	1.6	0.6	-3.74	-214.00	-223.11
		L(10.000)	1.0	0.0	-3.74	-267.76	-463.99
	S3	0.000	1.0	0.0	-10.50	282.04	-472.29
		1.000	2.8	1.9	-10.50	228.28	-217.13
		2.000	6.1	5.1	-10.50	174.52	-15.73
		3.000	9.5	8.6	-10.50	120.76	131.91
		4.000	12.1	11.2	-10.50	67.00	225.79
		5.000	13.2	12.3	-10.50	13.24	265.91
		6.000	12.7	11.8	-10.50	-40.52	252.27
		7.000	10.6	9.8	-10.50	-94.28	184.87
		8.000	7.4	6.5	-10.50	-148.04	63.71
		9.000	3.7	2.9	-10.50	-201.80	-111.21
		L(10.000)	0.8	0.0	-10.50	-255.56	-339.89
	S4	0.000	0.8	0.0	0.00	161.28	-241.92
		0.300	0.3	-0.3	0.00	145.15	-195.96
		0.600	-0.2	-0.5	0.00	129.02	-154.83
		0.900	-0.5	-0.5	0.00	112.90	-118.54
		1.200	-0.8	-0.5	0.00	96.77	-87.09
		1.500	-1.0	-0.5	0.00	80.64	-60.48
		1.800	-1.2	-0.4	0.00	64.51	-38.71
		2.100	-1.4	-0.3	0.00	48.38	-21.77
		2.400	-1.6	-0.2	0.00	32.26	-9.68
		2.700	-1.7	-0.1	0.00	16.13	-2.42
		L(3.000)	-1.9	-0.0	0.00	0.00	0.00
	S5	0.000	0.0	0.0	-265.93	-24.89	0.00
		0.450	-0.9	-0.9	-265.93	-24.89	-11.20
		0.900	-1.7	-1.8	-265.93	-24.89	-22.40
		1.350	-2.4	-2.5	-265.93	-24.89	-33.60
		1.800	-2.9	-3.1	-265.93	-24.89	-44.80
		2.250	-3.2	-3.5	-265.93	-24.89	-56.00
		2.700	-3.3	-3.6	-265.93	-24.89	-67.19
		3.150	-3.0	-3.3	-265.93	-24.89	-78.39
		3.600	-2.3	-2.7	-265.93	-24.89	-89.59
		4.050	-1.1	-1.6	-265.93	-24.89	-100.79
		L(4.500)	0.5	0.0	-265.93	-24.89	-111.99
	S6	0.000	0.5	0.0	-29.01	-23.84	98.61
		0.600	2.7	1.8	-29.01	-23.84	84.30
		1.200	4.1	2.9	-29.01	-23.84	69.99
		1.800	4.8	3.4	-29.01	-23.84	55.69
		2.400	5.1	3.4	-29.01	-23.84	41.38
		3.000	5.0	3.0	-29.01	-23.84	27.08
		3.600	4.7	2.4	-29.01	-23.84	12.77
		4.200	4.2	1.6	-29.01	-23.84	-1.54
		4.800	3.8	0.9	-29.01	-23.84	-15.84
		5.400	3.5	0.3	-29.01	-23.84	-30.15
		L(6.000)	3.5	0.0	-29.01	-23.84	-44.45
	S7	0.000	0.0	0.0	-632.32	5.11	0.00
		0.450	0.2	0.2	-632.32	5.11	2.30
		0.900	0.5	0.4	-632.32	5.11	4.60
		1.350	0.7	0.5	-632.32	5.11	6.91
		1.800	0.9	0.6	-632.32	5.11	9.21
		2.250	1.0	0.7	-632.32	5.11	11.51
		2.700	1.0	0.7	-632.32	5.11	13.81
		3.150	1.0	0.7	-632.32	5.11	16.11
		3.600	1.0	0.6	-632.32	5.11	18.41
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		4.050	0.8	0.3	-632.32	5.11	20.72
		L(4.500)	0.5	-0.0	-632.32	5.11	23.02
	S8	0.000	0.5	0.0	-61.80	7.82	-32.00
		0.600	0.2	-0.6	-61.80	7.82	-27.31
		1.200	0.1	-0.9	-61.80	7.82	-22.62
		1.800	0.3	-1.1	-61.80	7.82	-17.93
		2.400	0.6	-1.1	-61.80	7.82	-13.24
		3.000	1.0	-1.0	-61.80	7.82	-8.55
		3.600	1.5	-0.7	-61.80	7.82	-3.86
		4.200	2.0	-0.5	-61.80	7.82	0.83
		4.800	2.5	-0.3	-61.80	7.82	5.52
		5.400	3.0	-0.1	-61.80	7.82	10.21
		L(6.000)	3.4	0.0	-61.80	7.82	14.89
	S9	0.000	0.0	0.0	-606.00	-3.03	0.00
		0.450	-0.1	-0.1	-606.00	-3.03	-1.37
		0.900	-0.1	-0.2	-606.00	-3.03	-2.73
		1.350	-0.2	-0.3	-606.00	-3.03	-4.10
		1.800	-0.2	-0.4	-606.00	-3.03	-5.46
		2.250	-0.2	-0.4	-606.00	-3.03	-6.83
		2.700	-0.1	-0.4	-606.00	-3.03	-8.19
		3.150	-0.1	-0.4	-606.00	-3.03	-9.56
		3.600	0.1	-0.3	-606.00	-3.03	-10.93
		4.050	0.3	-0.2	-606.00	-3.03	-12.29
		L(4.500)	0.5	0.0	-606.00	-3.03	-13.66
	S10	0.000	0.5	0.0	-56.19	3.73	-5.36
		0.600	0.9	0.1	-56.19	3.73	-3.13
		1.200	1.3	0.3	-56.19	3.73	-0.89
		1.800	1.7	0.4	-56.19	3.73	1.34
		2.400	2.2	0.5	-56.19	3.73	3.58
		3.000	2.5	0.6	-56.19	3.73	5.82
		3.600	2.9	0.7	-56.19	3.73	8.05
		4.200	3.1	0.7	-56.19	3.73	10.29
		4.800	3.3	0.6	-56.19	3.73	12.52
		5.400	3.4	0.4	-56.19	3.73	14.76
		L(6.000)	3.3	-0.0	-56.19	3.73	16.99
	S11	0.000	0.0	0.0	-501.05	13.06	0.00
		0.450	0.5	0.5	-501.05	13.06	5.88
		0.900	1.0	0.9	-501.05	13.06	11.75
		1.350	1.5	1.3	-501.05	13.06	17.63
		1.800	1.8	1.6	-501.05	13.06	23.51
		2.250	2.1	1.8	-501.05	13.06	29.38
		2.700	2.2	1.9	-501.05	13.06	35.26
		3.150	2.1	1.7	-501.05	13.06	41.14
		3.600	1.8	1.4	-501.05	13.06	47.01
		4.050	1.3	0.8	-501.05	13.06	52.89
		L(4.500)	0.5	-0.0	-501.05	13.06	58.76
	S12	0.000	0.5	0.0	-84.21	2.55	-39.21
		0.600	-0.6	-1.3	-84.21	2.55	-37.67
		1.200	-1.3	-2.4	-84.21	2.55	-36.14
		1.800	-1.7	-3.0	-84.21	2.55	-34.61
		2.400	-1.8	-3.4	-84.21	2.55	-33.08
		3.000	-1.6	-3.5	-84.21	2.55	-31.54
		3.600	-1.2	-3.3	-84.21	2.55	-30.01
		4.200	-0.4	-2.9	-84.21	2.55	-28.48
		4.800	0.6	-2.1	-84.21	2.55	-26.95
		5.400	1.8	-1.2	-84.21	2.55	-25.41
		L(6.000)	3.2	-0.0	-84.21	2.55	-23.88
	S13	0.000	0.0	0.0	-43.28	9.75	-26.31
		0.450	0.7	-0.2	-43.28	9.75	-21.93
		0.900	1.4	-0.4	-43.28	9.75	-17.54
		1.350	2.3	-0.4	-43.28	9.75	-13.15
		m	mm	mm	kN	kN	kNm

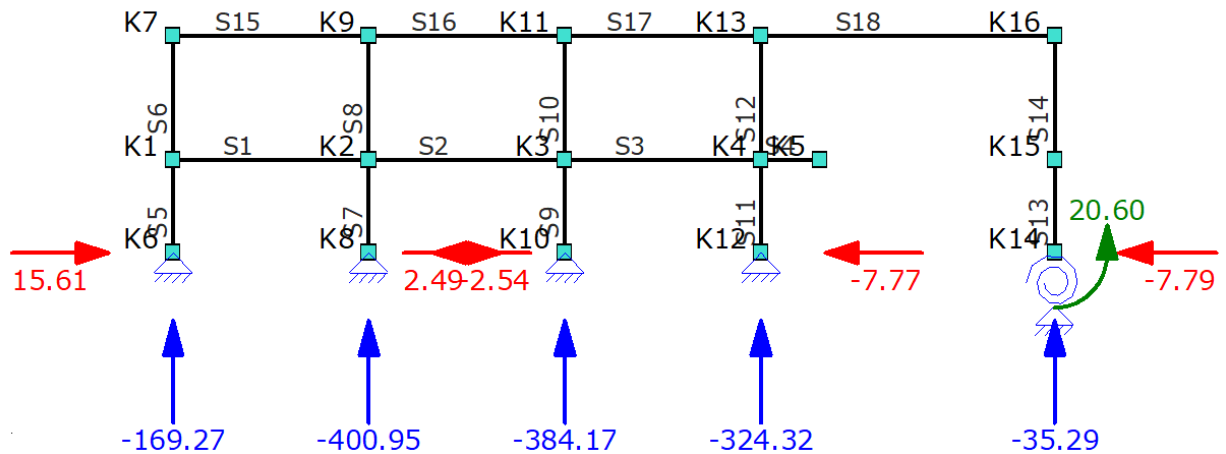
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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		1.800	3.2	-0.4	-43.28	9.75	-8.77
		2.250	4.1	-0.3	-43.28	9.75	-4.38
		2.700	5.1	-0.2	-43.28	9.75	0.01
		3.150	6.1	-0.1	-43.28	9.75	4.39
		3.600	7.1	0.0	-43.28	9.75	8.78
		4.050	8.0	0.0	-43.28	9.75	13.17
		L(4.500)	8.8	0.0	-43.28	9.75	17.55
	S14	0.000	8.8	0.0	-43.28	9.75	17.55
		0.600	9.8	1.6	-43.28	9.75	23.40
		1.200	10.6	2.9	-43.28	9.75	29.25
		1.800	11.2	4.0	-43.28	9.75	35.10
		2.400	11.4	4.8	-43.28	9.75	40.95
		3.000	11.2	5.2	-43.28	9.75	46.80
		3.600	10.7	5.2	-43.28	9.75	52.65
		4.200	9.6	4.7	-43.28	9.75	58.49
		4.800	8.1	3.7	-43.28	9.75	64.34
		5.400	5.9	2.2	-43.28	9.75	70.19
		L(6.000)	3.2	0.0	-43.28	9.75	76.04
	S15	0.000	0.5	0.0	-23.84	29.01	-44.45
		1.000	1.2	0.6	-23.84	22.91	-18.49
		2.000	2.4	1.8	-23.84	16.81	1.37
		3.000	3.6	2.9	-23.84	10.71	15.13
		4.000	4.4	3.6	-23.84	4.61	22.79
		5.000	4.6	3.8	-23.84	-1.49	24.35
		6.000	4.2	3.3	-23.84	-7.59	19.81
		7.000	3.3	2.4	-23.84	-13.69	9.17
		8.000	2.2	1.2	-23.84	-19.79	-7.57
		9.000	1.3	0.2	-23.84	-25.89	-30.40
		L(10.000)	1.2	0.0	-23.84	-31.99	-59.34
	S16	0.000	1.2	0.0	-16.03	29.82	-44.45
		1.000	2.2	1.0	-16.03	23.72	-17.68
		2.000	3.6	2.5	-16.03	17.62	2.98
		3.000	5.0	3.9	-16.03	11.52	17.55
		4.000	6.0	4.8	-16.03	5.42	26.01
		5.000	6.2	5.1	-16.03	-0.68	28.38
		6.000	5.8	4.7	-16.03	-6.78	24.64
		7.000	4.7	3.6	-16.03	-12.88	14.81
		8.000	3.3	2.2	-16.03	-18.98	-1.13
		9.000	1.9	0.8	-16.03	-25.08	-23.16
		L(10.000)	1.1	-0.0	-16.03	-31.18	-51.29
	S17	0.000	1.1	0.0	-12.30	25.01	-34.30
		1.000	1.2	0.1	-12.30	18.91	-12.34
		2.000	1.7	0.6	-12.30	12.81	3.51
		3.000	2.0	0.9	-12.30	6.71	13.27
		4.000	2.0	1.0	-12.30	0.61	16.93
		5.000	1.6	0.6	-12.30	-5.49	14.48
		6.000	0.9	-0.2	-12.30	-11.59	5.94
		7.000	-0.0	-1.1	-12.30	-17.69	-8.70
		8.000	-0.7	-1.7	-12.30	-23.79	-29.45
		9.000	-0.6	-1.6	-12.30	-29.89	-56.29
		L(10.000)	1.0	0.0	-12.30	-35.99	-89.23
	S18	0.000	1.0	0.0	-9.75	48.22	-113.11
		1.500	7.6	6.6	-9.75	39.07	-47.64
		3.000	17.0	16.1	-9.75	29.92	4.10
		4.500	26.2	25.5	-9.75	20.77	42.12
		6.000	33.1	32.4	-9.75	11.62	66.42
		7.500	36.1	35.5	-9.75	2.47	76.99
		9.000	34.6	34.1	-9.75	-6.68	73.83
		10.500	28.9	28.5	-9.75	-15.83	56.95
		12.000	20.0	19.6	-9.75	-24.98	26.35
		13.500	9.5	9.2	-9.75	-34.13	-17.98
		m	mm	mm	kN	kN	kNm

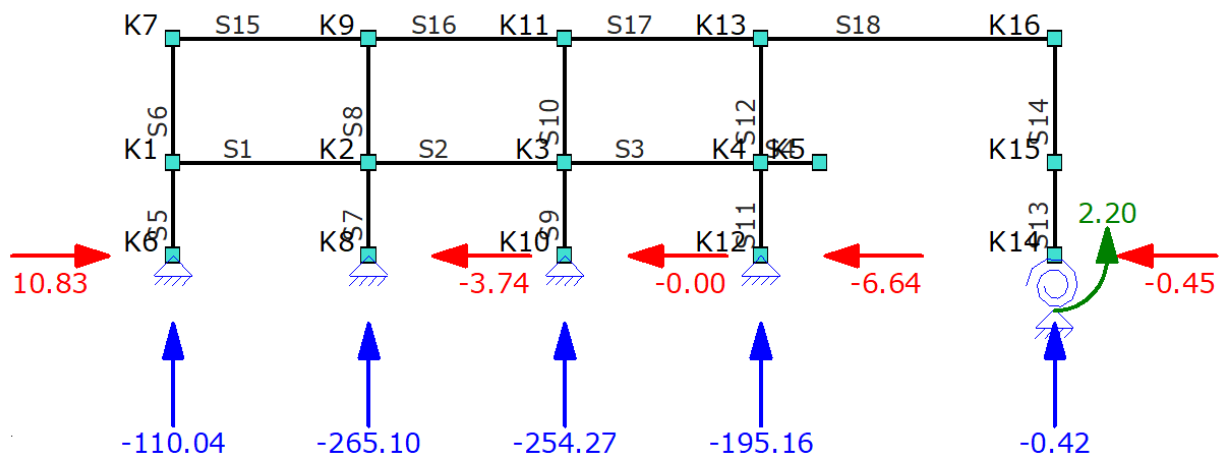
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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		L(15.000)	0.2	0.0	-9.75	-43.28	-76.04
		m	mm	mm	kN	kN	kNm

B.G.1 Oplegreacties

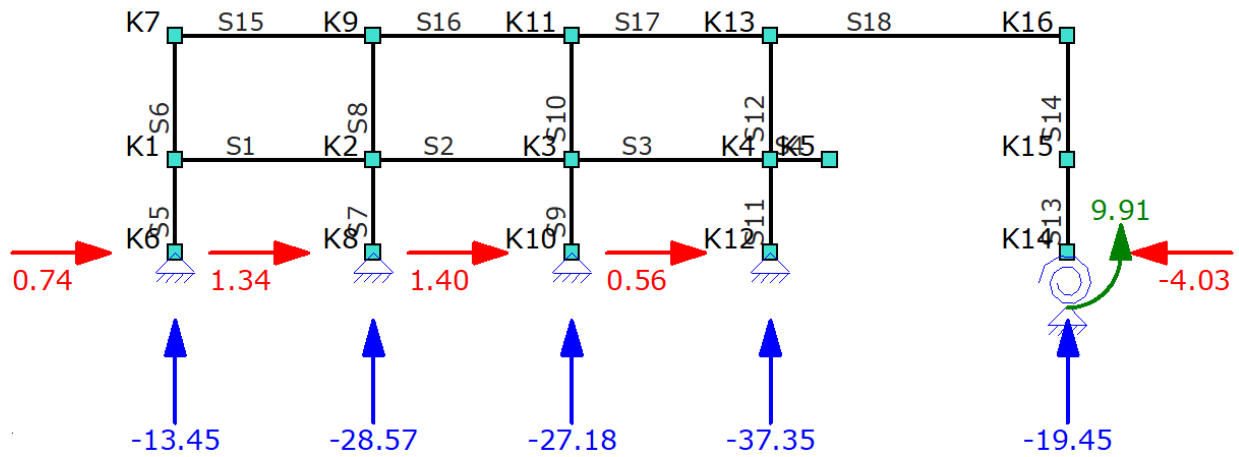


B.G.2 Oplegreacties

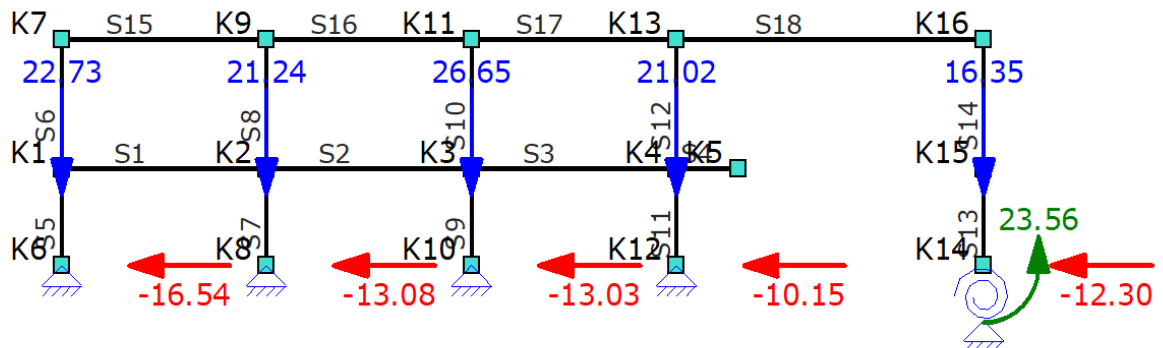


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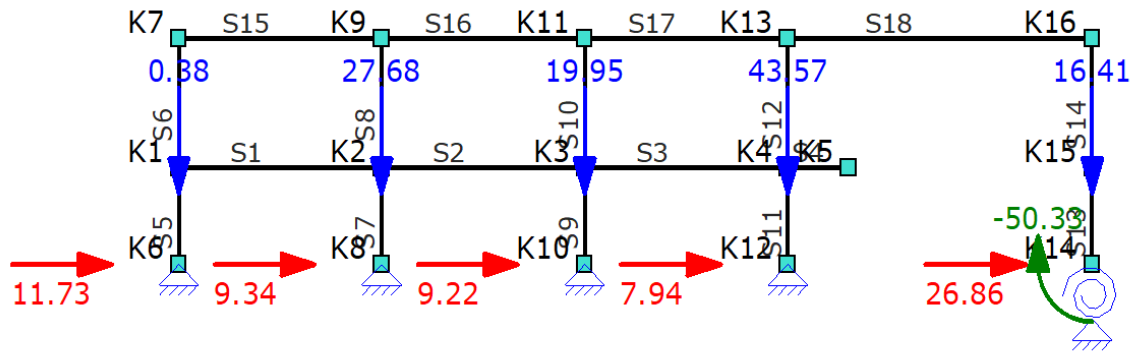
B.G.3 Oplegreacties



B.G.4 Oplegreacties



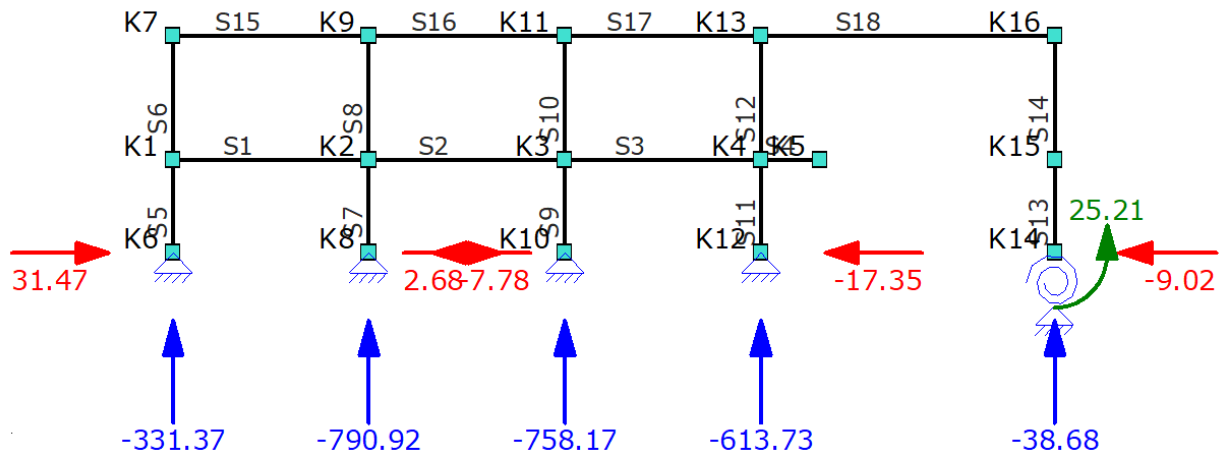
B.G.5 Oplegreacties



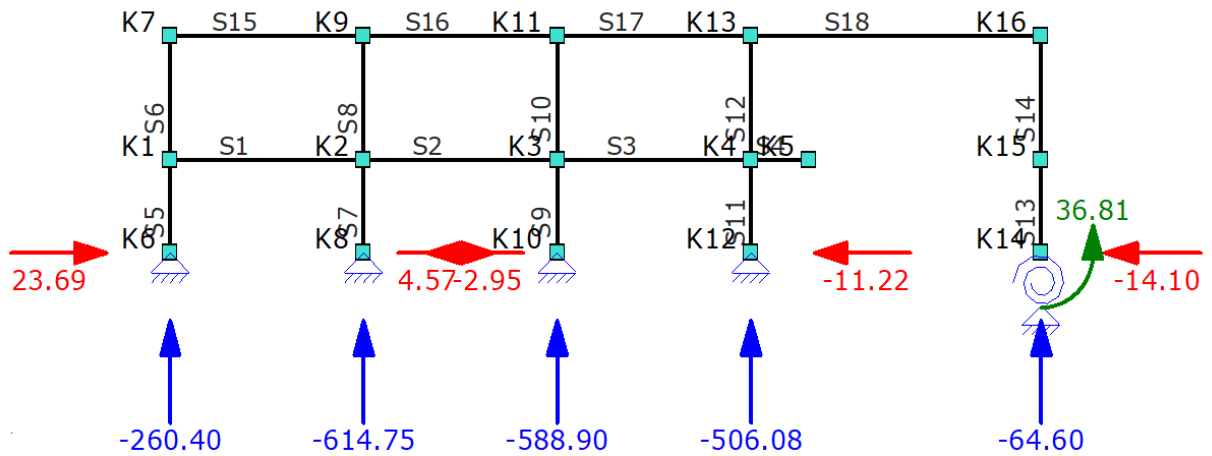
EXTREME OPLEGREACTIES (BELASTINGSGEVALLEN)

Oplegging	Afbouw	B.G.	X _{max}	Z	Y _r	B.G.	X	Z _{max}	Y _r	B.G.	X	Z	Y _r max
O1	K14	B.G.5	26.86	16.41	-50.33	B.G.5	26.86	16.41	-50.33	B.G.4	-12.30	16.35	23.56
		B.G.4	-12.30	16.35	23.56	B.G.1	-7.79	-35.29	20.60	B.G.5	26.86	16.41	-50.33
O2	K12	B.G.5	7.94	43.57	0.00	B.G.5	7.94	43.57	0.00				
		B.G.4	-10.15	21.02	0.00	B.G.1	-7.77	-324.32	0.00				
O3	K10	B.G.5	9.22	19.95	0.00	B.G.4	-13.03	26.65	0.00				
		B.G.4	-13.03	26.65	0.00	B.G.1	2.49	-384.17	0.00				
O4	K8	B.G.5	9.34	27.68	0.00	B.G.5	9.34	27.68	0.00				
		B.G.4	-13.08	21.24	0.00	B.G.1	-2.54	-400.95	0.00				
O5	K6	B.G.1	15.61	-169.27	0.00	B.G.4	-16.54	22.73	0.00				
		B.G.4	-16.54	22.73	0.00	B.G.1	15.61	-169.27	0.00				
Globale extreme waarden													
O1	K14	B.G.5	26.86	16.41	-50.33					B.G.4	-12.30	16.35	23.56
O5	K6	B.G.4	-16.54	22.73	0.00								
O2	K12					B.G.5	7.94	43.57	0.00				
O4	K8					B.G.1	-2.54	-400.95	0.00				
O1	K14									B.G.5	26.86	16.41	-50.33
			kN	kN	kNm				kN	kN	kNm	kN	kNm

Fu.C.1 Oplegreacties

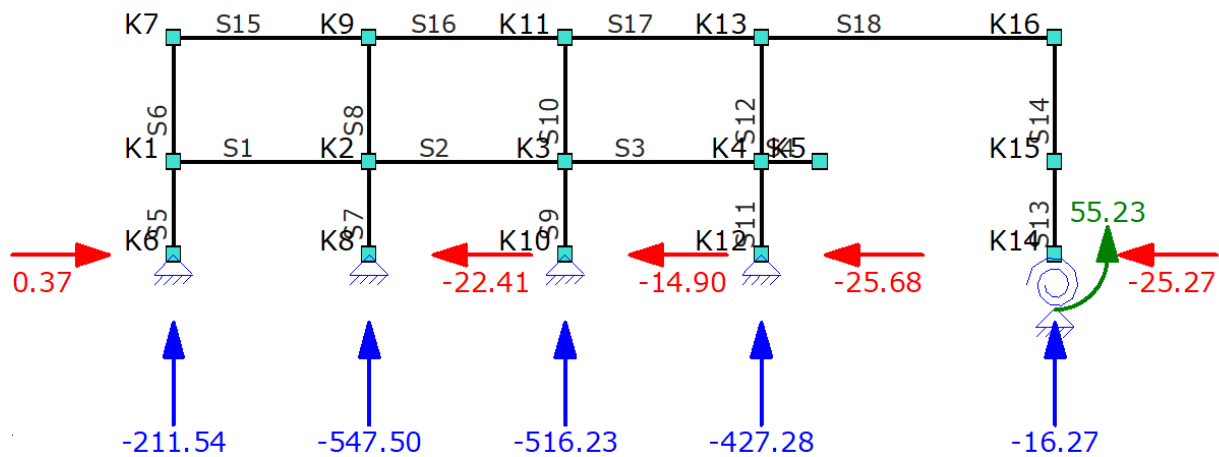


Fu.C.2 Oplegreacties

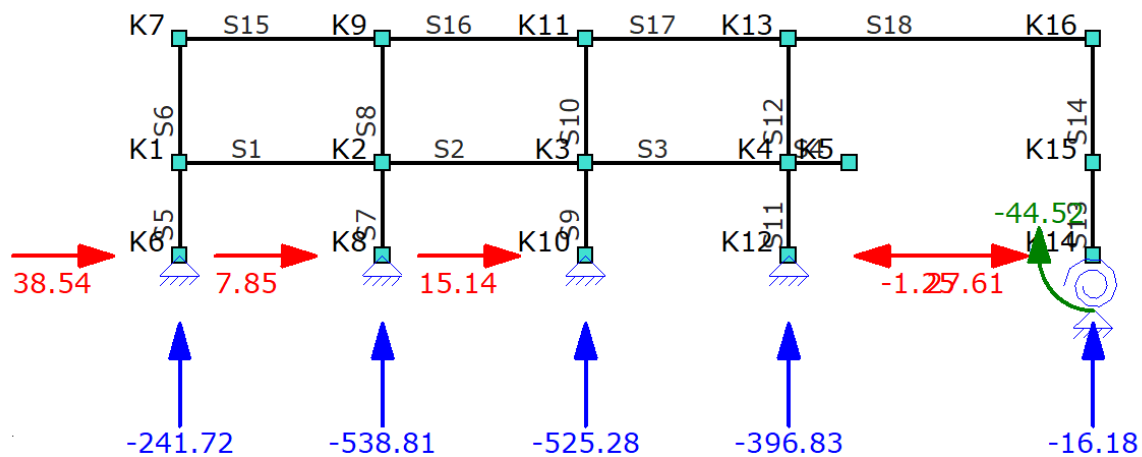


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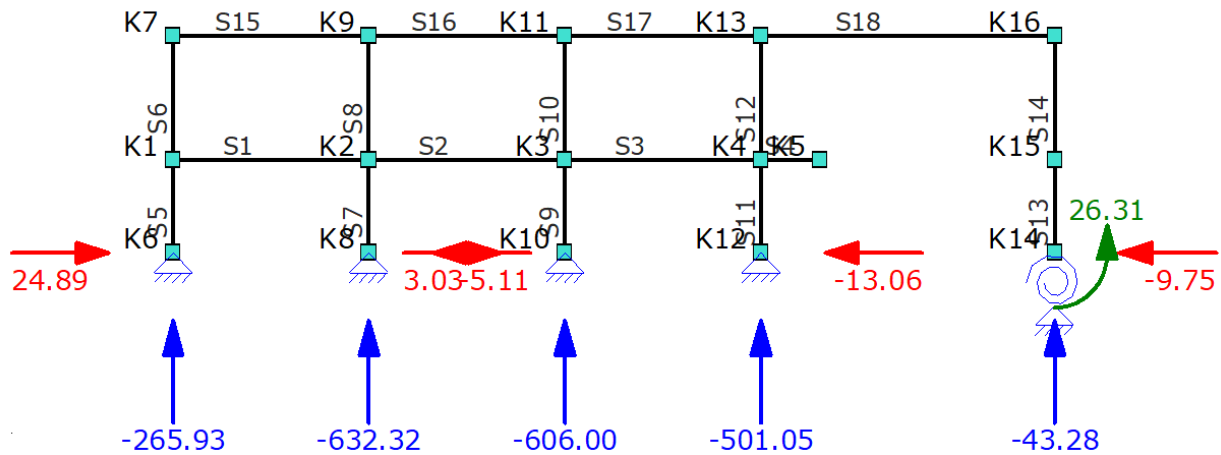
Fu.C.3 Oplegreacties



Fu.C.4 Oplegreacties



Fu.C.5 Oplegreacties

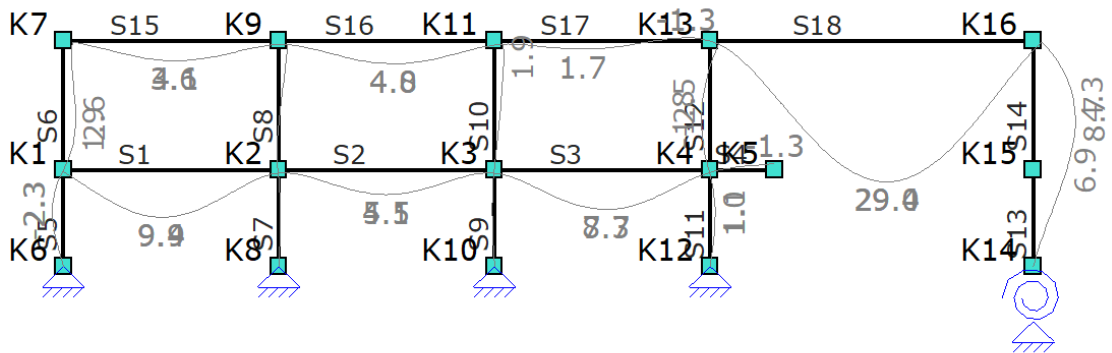


EXTREME OPLEGREACTIES (FUNDAMENTEEL)

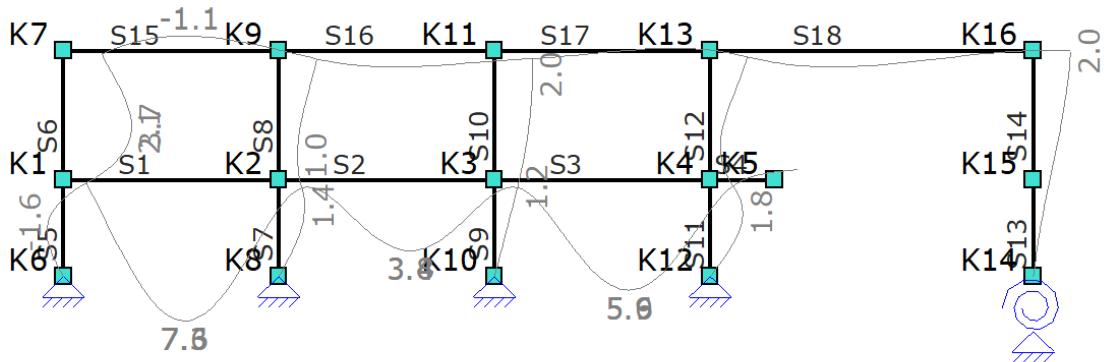
Oplegging	Afbouw	B.G.	X _{max}	Z	Y _r	B.G.	X	Z _{max}	Y _r	B.G.	X	Z	Y _r max
O1	K14	Fu.C.4	27.61	-16.18	-44.52					Fu.C.3	-25.27	-16.27	55.23
		Fu.C.3	-25.27	-16.27	55.23	Fu.C.2	-14.10	-64.60	36.81	Fu.C.4	27.61	-16.18	-44.52
O2	K12	Fu.C.3	-25.68	-427.28	0.00	Fu.C.1	-17.35	-613.73	0.00				
O3	K10	Fu.C.4	15.14	-525.28	0.00								
		Fu.C.3	-14.90	-516.23	0.00	Fu.C.1	2.68	-758.17	0.00				
O4	K8	Fu.C.4	7.85	-538.81	0.00								
		Fu.C.3	-22.41	-547.50	0.00	Fu.C.1	-7.78	-790.92	0.00				
O5	K6	Fu.C.4	38.54	-241.72	0.00								
						Fu.C.1	31.47	-331.37	0.00				
Globale extreme waarden													
O2	K12	Fu.C.3	-25.68	-427.28	0.00								
O5	K6	Fu.C.4	38.54	-241.72	0.00								
O4	K8					Fu.C.1	-7.78	-790.92	0.00				
O1	K14									Fu.C.3	-25.27	-16.27	55.23
										Fu.C.4	27.61	-16.18	-44.52
			kN	kN	kNm				kN	kN	kNm		

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B.G.1 Doorbuigingen

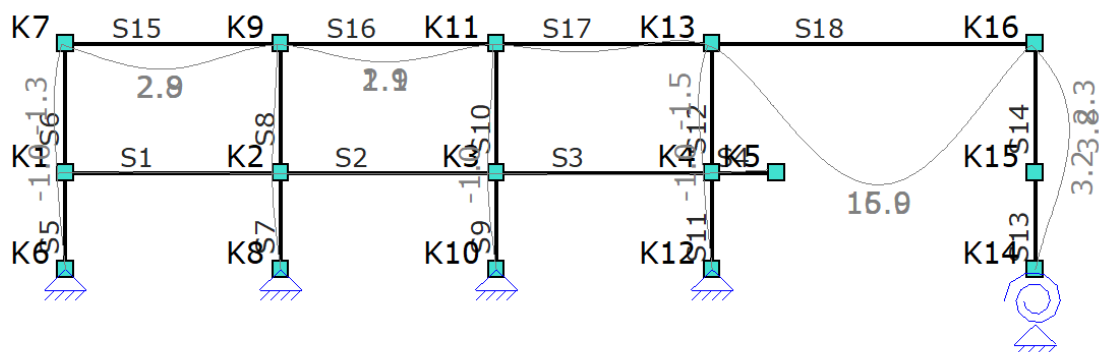


B.G.2 Doorbuigingen

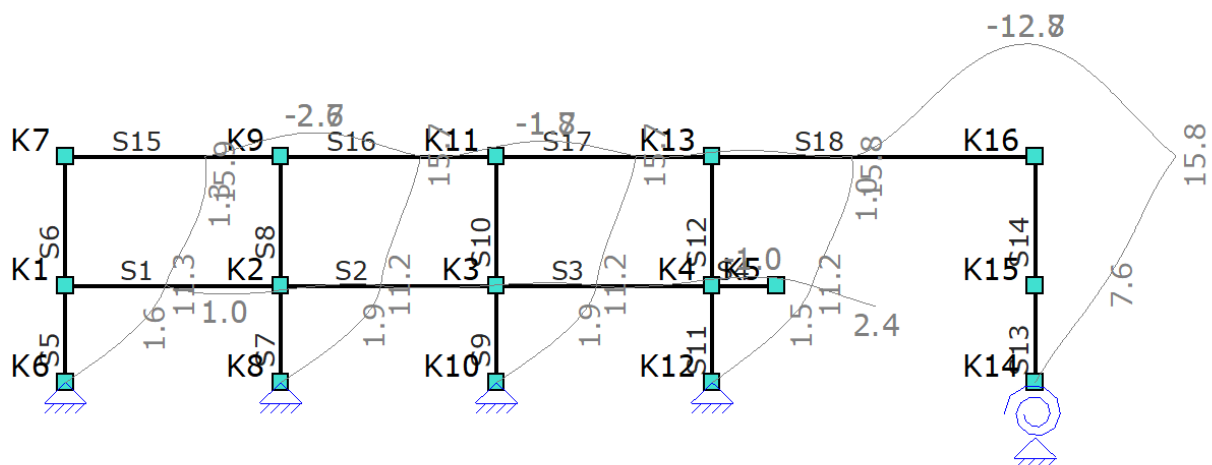


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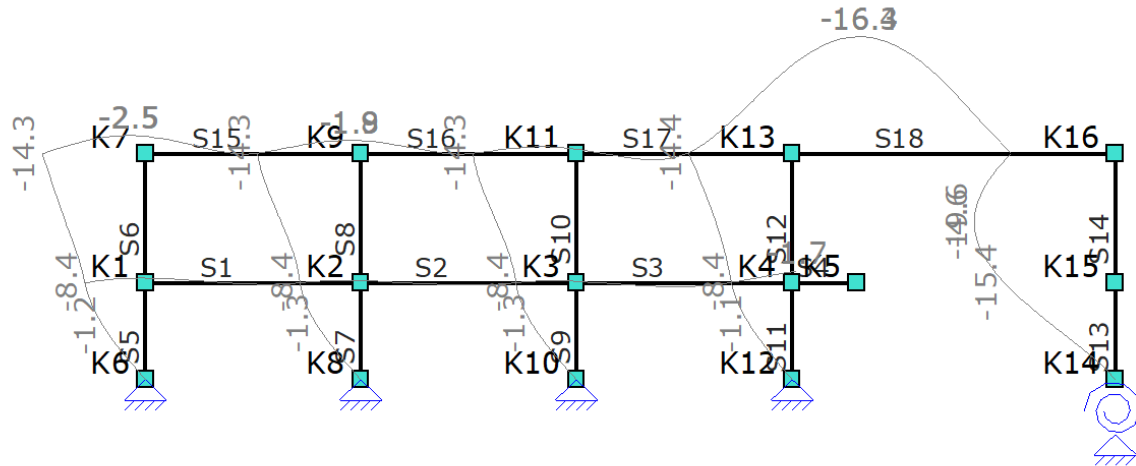
B.G.3 Doorbuigingen



B.G.4 Doorbuigingen



B.G.5 Doorbuigingen

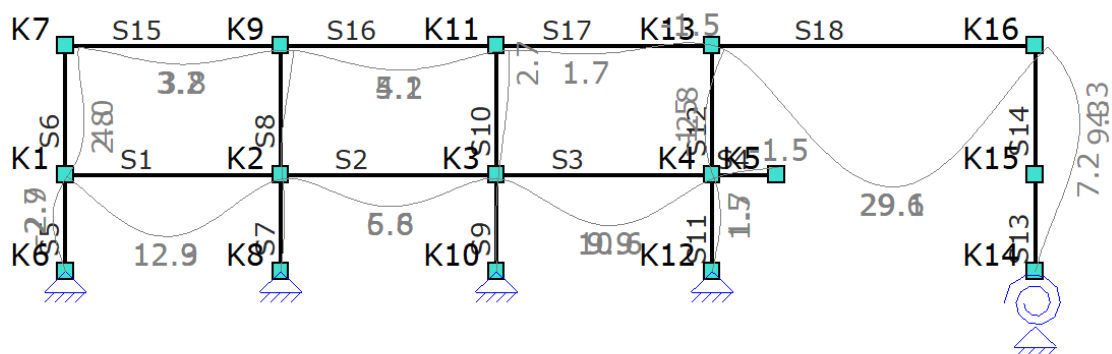


EXTREME DOORBUIGINGEN (BELASTINGSGEVALLEN)

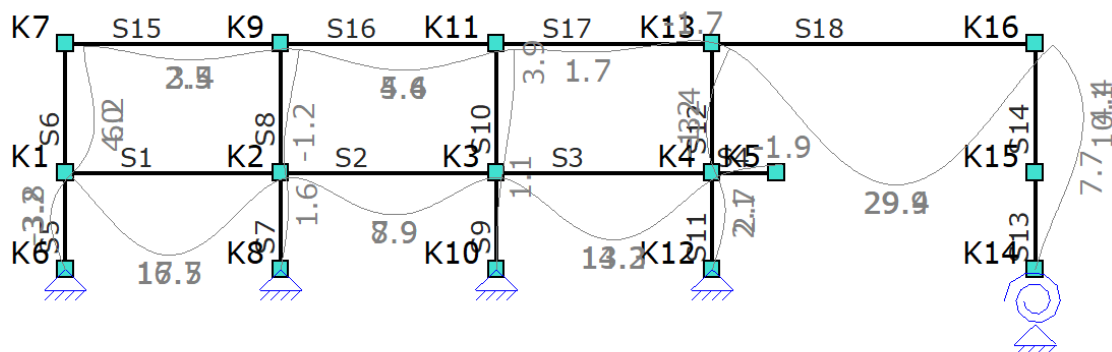
Staal	Veld	B.C.	Knoop Begin		Z'afst	Staal			Knoop Eind	
			X	Z		Z'	Z' glb dist	Z' glb	X	Z
S1	Veld 1 (0.000 - 10.000)	B.G.1	-0.1	0.3	4.575	9.4	4.606	9.9	-0.1	0.7
	Veld 1 (0.000 - 10.000)	B.G.5	-8.4	-0.0	2.587	-0.7	2.615	-0.7	-8.4	-0.0
S2	Veld 1 (0.000 - 10.000)	B.G.1	-0.1	0.7	5.019	4.5	5.015	5.1	-0.1	0.6
	Veld 1 (0.000 - 10.000)	B.G.4	11.2	-0.0	7.876	-0.3	7.884	-0.4	11.2	-0.0
S3	Veld 1 (0.000 - 10.000)	B.G.1	-0.1	0.6	5.218	7.7	5.209	8.3	-0.1	0.5
	Veld 1 (0.000 - 10.000)	B.G.4	11.2	-0.0	7.259	-1.0	7.255	-1.0	11.2	-0.0
S4	Veld 1 (0.000 - 3.000)	B.G.1	-0.1	0.5	1.110	-0.3	3.000	-1.3	-0.1	-1.3
S5	Veld 1 (0.000 - 4.500)	B.G.1	0.0	0.0	2.598	-2.3	2.626	-2.3	-0.3	-0.1
	Veld 1 (0.000 - 4.500)	B.G.4	0.0	0.0	2.486	1.6	4.500	11.3	0.0	11.3
S6	Veld 1 (0.000 - 6.000)	B.G.2	-0.2	1.2	2.387	2.1	2.644	3.7	-0.2	2.1
	Veld 1 (0.000 - 6.000)	B.G.3	-0.0	-1.0	3.664	-0.6	3.094	-1.3	-0.0	-0.5
S7	Veld 1 (0.000 - 4.500)	B.G.4	0.0	0.0	2.598	1.9	4.500	11.2	0.0	11.2
	Veld 1 (0.000 - 4.500)	B.G.5	0.0	0.0	2.598	-1.3	4.500	-8.4	0.0	-8.4
S8	Veld 1 (0.000 - 6.000)	B.G.1	-0.7	-0.1	1.982	-0.7	6.000	1.9	-0.8	1.9
	Veld 1 (0.000 - 6.000)	B.G.5	0.0	-8.4	1.368	0.4	6.000	-14.3	0.1	-14.3
S9	Veld 1 (0.000 - 4.500)	B.G.4	0.0	0.0	2.598	1.9	4.500	11.2	0.0	11.2
	Veld 1 (0.000 - 4.500)	B.G.5	0.0	0.0	2.598	-1.3	4.500	-8.4	0.0	-8.4
S10	Veld 1 (0.000 - 6.000)	B.G.1	-0.6	-0.1	3.870	0.5	5.393	1.9	-0.7	1.8
	Veld 1 (0.000 - 6.000)	B.G.4	0.0	11.2	1.424	-0.3	6.000	15.7	0.1	15.7
S11	Veld 1 (0.000 - 4.500)	B.G.1	0.0	0.0	2.598	1.5	4.500	11.2	0.0	11.2
	Veld 1 (0.000 - 4.500)	B.G.5	0.0	0.0	2.598	-1.1	4.500	-8.4	0.1	-8.4
S12	Veld 1 (0.000 - 6.000)	B.G.1	-0.5	-0.1	3.016	-2.5	6.000	1.8	-0.7	1.8
	Veld 1 (0.000 - 6.000)	B.G.4	0.0	11.2	3.963	1.0	5.480	15.8	0.1	15.8
S13	Veld 1 (0.000 - 4.500)	B.G.1	0.0	0.0	1.286	-0.3	4.500	6.9	-0.1	6.9
	Veld 1 (0.000 - 4.500)	B.G.5	0.0	0.0	0.980	0.4	4.500	-15.4	0.0	-15.4
S14	Veld 1 (0.000 - 6.000)	B.G.1	-0.1	6.9	3.300	4.3	2.349	8.7	-0.1	1.7
	Veld 1 (0.000 - 6.000)	B.G.5	0.0	-15.4	2.945	-4.6	2.797	-19.6	0.1	-14.5
S15	Veld 1 (0.000 - 10.000)	B.G.1	1.9	0.3	4.695	3.6	4.773	4.1	1.9	0.8
	Veld 1 (0.000 - 10.000)	B.G.4	15.7	-0.1	5.056	-2.6	5.064	-2.7	15.7	-0.1
S16	Veld 1 (0.000 - 10.000)	B.G.1	1.9	0.8	4.938	4.0	4.931	4.8	1.8	0.7
	Veld 1 (0.000 - 10.000)	B.G.5	-14.3	-0.1	4.260	-1.8	4.253	-1.9	-14.3	-0.1
S17	Veld 1 (0.000 - 10.000)	B.G.1	1.8	0.7	8.489	-1.3	3.711	1.7	1.8	0.7
	Veld 1 (0.000 - 10.000)	B.G.5	-14.3	-0.1	8.378	0.9	3.135	-1.0	-14.4	-0.1
S18	Veld 1 (0.000 - 15.000)	B.G.1	1.8	0.7	7.829	29.0	7.807	29.4	1.7	0.1
	Veld 1 (0.000 - 15.000)	B.G.5	-14.4	-0.1	7.943	-16.3	7.937	-16.4	-14.5	-0.1
m			mm		m	mm	m	mm	mm	mm

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Ka.C.1 Doorbuigingen

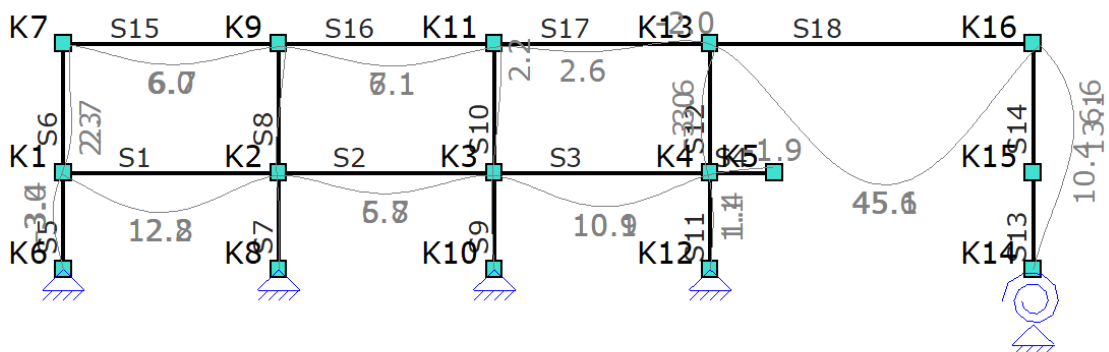


Ka.C.2 Doorbuigingen

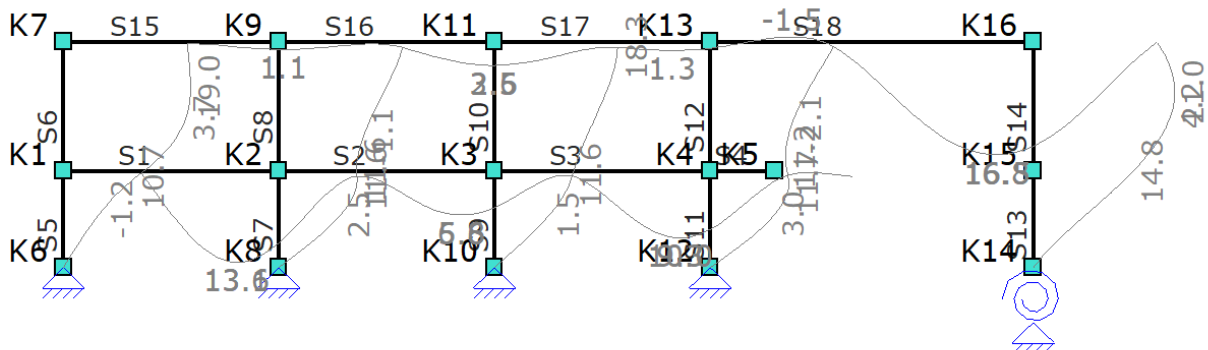


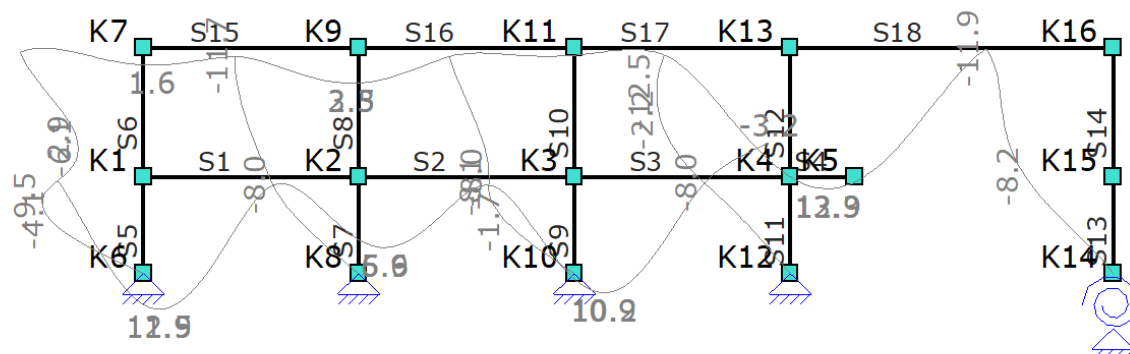
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Ka.C.3 Doorbuigingen



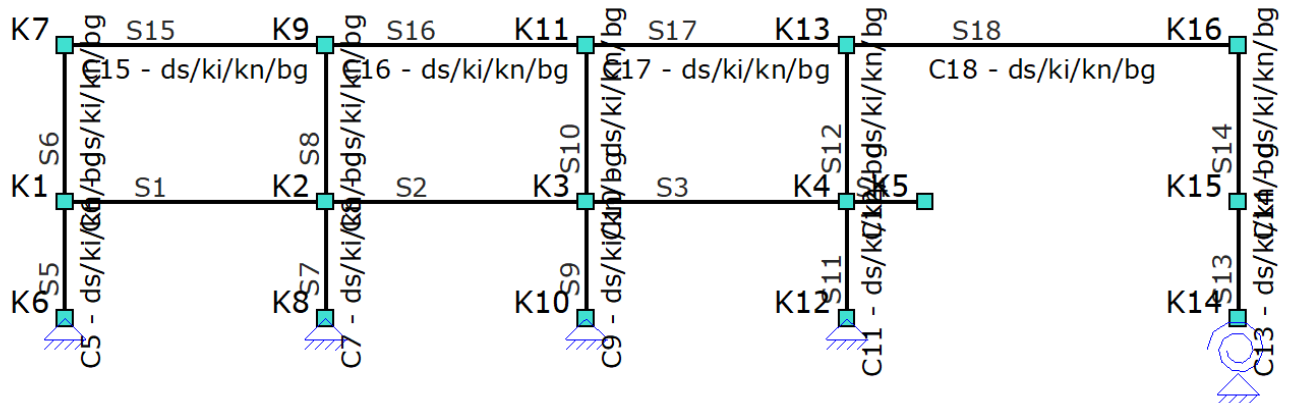
Ka.C.4 Doorbuigingen





Staaf	Veld	B.C.	Knoop Begin		Staaf				Knoop Eind	
			X	Z	Z'afst	Z'	Z' glb dist	Z' glb	X	Z
S1	Veld 1 (0.000 - 10.000)	Ka.C.2	1.1	0.5	4.563	16.7	4.592	17.5	1.1	1.1
S2	Veld 1 (0.000 - 10.000)		1.1	1.1	5.023	7.9	5.020	8.9	1.1	1.0
S3	Veld 1 (0.000 - 10.000)		1.1	1.0	5.199	13.3	5.188	14.2	1.1	0.8
S4	Veld 1 (0.000 - 3.000)		1.1	0.8	1.110	-0.6	3.000	-1.9	1.1	-1.9
S5	Veld 1 (0.000 - 4.500)	Ka.C.5	0.0	0.0	2.570	-4.1	3.431	-9.5	-0.3	-8.1
S6	Veld 1 (0.000 - 6.000)	Ka.C.2	-0.5	1.1	2.146	4.0	2.551	6.2	-0.5	4.0
S7	Veld 1 (0.000 - 4.500)	Ka.C.4	0.0	0.0	2.598	2.5	4.353	11.6	-0.8	11.6
	Veld 1 (0.000 - 4.500)	Ka.C.5	0.0	0.0	2.598	-0.8	4.500	-8.0	-0.8	-8.0
S8	Veld 1 (0.000 - 6.000)	Ka.C.2	-1.1	1.1	2.096	-1.2	6.000	3.9	-1.2	3.9
S9	Veld 1 (0.000 - 4.500)	Ka.C.4	0.0	0.0	2.598	1.5	4.500	11.6	-0.7	11.6
	Veld 1 (0.000 - 4.500)	Ka.C.5	0.0	0.0	2.598	-1.7	4.370	-8.1	-0.8	-8.0
S10	Veld 1 (0.000 - 6.000)	Ka.C.2	-1.0	1.1	3.678	0.7	5.366	3.9	-1.1	3.8
S11	Veld 1 (0.000 - 4.500)	Ka.C.4	0.0	0.0	2.598	3.0	4.105	11.7	-0.6	11.6
S12	Veld 1 (0.000 - 6.000)	Ka.C.3	-0.7	-0.6	3.100	-3.6	2.524	-3.0	-1.0	2.1
S13	Veld 1 (0.000 - 4.500)	Ka.C.4	0.0	0.0	1.286	-0.6	4.500	14.8	-0.0	14.8
S14	Veld 1 (0.000 - 6.000)	Ka.C.3	-0.1	10.4	3.298	6.6	2.289	13.1	-0.2	2.0
	Veld 1 (0.000 - 6.000)	Ka.C.5	-0.0	-8.2	1.704	-0.6	6.000	-11.9	-0.1	-11.9
S15	Veld 1 (0.000 - 10.000)	Ka.C.3	2.3	0.4	4.673	6.0	4.739	6.7	2.2	1.0
S16	Veld 1 (0.000 - 10.000)		2.2	1.0	4.957	6.1	4.951	7.1	2.1	1.0
S17	Veld 1 (0.000 - 10.000)		2.1	1.0	8.529	-2.0	3.776	2.6	2.1	1.0
S18	Veld 1 (0.000 - 15.000)		2.1	1.0	7.843	45.1	7.823	45.6	2.0	0.2
	m		mm	mm	m	mm	m	mm	mm	mm

Staaldefinitie



STAALTOETS RESULTATEN

NEN-EN1993-1-1:2016/NB:2016

Uitgangspunten berekening voor staalcontrole
Alpha;cr = 7.10 < 10; GNL analyse vereist

DOORSNEDE GEGEVENS

Staal C5-V1 (0.000-4.500)

HE280B

h	280.0 mm	A	1.3136e-02 m ²	W _{pl,y}	1.5344e-03 m ³	W _{el,y}	1.3764e-03 m ³
b	280.0 mm	I _y	1.9270e-04 m ⁴	W _{pl,z}	7.1757e-04 m ³	W _{el,z}	4.7104e-04 m ³
t _f	18.0 mm	I _z	6.5945e-05 m ⁴	A _{w,pl,y}	1.0574e-02 m ²	A _{w,el,y}	1.0574e-02 m ²
t _w	10.5 mm	Massa/m	103.1 kg/m	A _{w,pl,z}	4.1094e-03 m ²	A _{w,el,z}	4.1094e-03 m ²
r _i	24.0 mm			I _t	1.4372e-06 m ⁴	I _w	1.1302e-06 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staal C5-V1 (0.000-4.500)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	4.500 m		
Normaalkracht	N _{Ed}	-331.37 kN	Ontwerpweerstand (6.10) N _{Rd} 3087.06 kN
Buigmoment	M _{y,Ed}	-141.63 kNm	Ontwerpweerstand (6.13) M _{y,Rd} 360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand (6.13) M _{z,Rd} 168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand (6.18) V _{y,Rd} 1434.71 kN
Dwarskracht	V _{z,Ed}	-31.47 kN	Ontwerpweerstand (6.18) V _{z,Rd} 557.56 kN

Buiging en schuif #6.2.8

Verhouding	5.6 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.11
NEN-EN1993-1-1(6.12): UC (y) = 0.39
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.06

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KNIK (#6.3.1)

Staaf C5-V1 (0.000-4.500)

Profiel		HE280B	Doorsnedeklasse	1
Maatgevende combinatie		Fu.C.1		
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld	0.000 - 4.500 m
Normaalkracht	$N_{Ed,y}$	-331.37 kN	Normaalkracht	$N_{Ed,z}$ -331.37 kN
Lengte	$L_{cr,y}$	4.500 m	Lengte	$L_{cr,z}$ 4.500 m
Elastische kritische kracht	$N_{cr,y}$	19723.40 kN	Elastische kritische kracht	$N_{cr,z}$ 6749.59 kN
Slankheid	λ_y	0.396	Slankheid	λ_z 0.676
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2 c
Imperfectiefactor	Tabel 6.1	α_y 0.340	Imperfectiefactor	Tabel 6.1 α_z 0.490
		Φ_y 0.612		Φ_z 0.845
Reductiefactor	(6.49)	χ_y 0.928	Reductiefactor	(6.49) χ_z 0.739
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$ 2864.20 kN	Ontwerpweerstand	(6.47) $N_{b,Rd,z}$ 2282.29 kN

NEN-EN1993-1-1(6.46): UC = 0.15

KIP (#6.3.2)

Staaf C5-V1 (0.000-4.500)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		4.500 m	Moment (eind)	M_y	-141.63 kNm
Lengte	L	4.500 m	Moment (max)	M_y	-141.63 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)	β	0.00
Lengte	L_{st}	4.500 m	Lengte	L_{kip} 4.500 m
	(NB.NB.12) S	1.430 m		
Coefficient	C_1	1.750	Coefficient	C_2 (Tabel) 0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g 4.500 m
Coefficient	(NB.NB.11) C	7.768	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6) M_{cr}	2188.71 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.406	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT} 0.210		Φ_{LT}	0.604
Reductiefactor	(6.56)	$\chi_{LT,y}$ 0.951			
Reductiefactor		$\chi_{LT,z}$ 1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$ 343.00 kNm			
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$ 168.63 kNm			

NEN-EN1993-1-1(6.54): UC = 0.41

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C5-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-141.63 kNm	M	0.00 kNm	M	-141.63 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm

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ψ	-0.000	ψ	1.000	ψ	-0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.614		k_{yz}	0.666
	k_{zy}	0.972		k_{zz}	1.109
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-331.37 kN	Normaalkracht	$N_{z,Ed}$	-331.37 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.928	Reductiefactor	(6.49) χ_z	0.739
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	141.63 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.951			

NEN-EN1993-1-1(6.61): UC = 0.37

NEN-EN1993-1-1(6.62): UC = 0.55

DOORBUIGINGSTOETSING

Staaf C5-V1 (0.000-4.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	11.6	Ka.C.4	15.0	0.78
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C6-V1 (0.000-6.000)

HE280B								
h	280.0	mm	A	1.3136e-02	m ²	$W_{pl,y}$	1.5344e-03	m ³
b	280.0	mm	I_y	1.9270e-04	m ⁴	$W_{pl,z}$	7.1757e-04	m ³
t_f	18.0	mm	I_z	6.5945e-05	m ⁴	$A_{w,pl,y}$	1.0574e-02	m ²
t_w	10.5	mm	Massa/m	103.1	kg/m	$A_{w,pl,z}$	4.1094e-03	m ²
r_i	24.0	mm				I_t	1.4372e-06	m ⁴
						I_w	1.1302e-06	m ⁶
S235								
$f_y (\leq 40 \text{ mm})$	235.00	N/mm ²						
$f_y (> 40 \text{ mm})$	215.00	N/mm ²						

DOORSNEDE (#6.2)

Staaf C6-V1 (0.000-6.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N _{Ed}	-26.38 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	124.71 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	-28.39 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Buiging en schuif #6.2.8

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Verhouding	5.1 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
NEN-EN1993-1-1(6.12): UC (y) = 0.35
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.05

KNIK (#6.3.1)

Staaf C6-V1 (0.000-6.000)

Profiel		HE280B	Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.1				
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m	
Normaalkracht	$N_{Ed,y}$	-26.38 kN	Normaalkracht	$N_{Ed,z}$	-26.38 kN	
Lengte	$L_{cr,y}$	6.000 m	Lengte	$L_{cr,z}$	6.000 m	
Elastische kritische kracht	$N_{cr,y}$	11094.42 kN	Elastische kritische kracht	$N_{cr,z}$	3796.64 kN	
Slankheid	λ_y	0.527	Slankheid	λ_z	0.902	
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y			Φ_z	1.078
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z	0.599
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	1848.45 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C6-V1 (0.000-6.000)

Equivalent profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M _y	124.71 kNm
Veld einde		6.000 m	Moment (eind)	M _y	-45.63 kNm
Lengte	L	6.000 m	Moment (max)	M _y	124.71 kNm
Maatgevende flens		Boven	Moment (max)	M _z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	-0.37
Lengte	L_{st}	6.000 m		β	-0.366
Lengte	L_{kip}	6.000 m		(NB.NB.12) S	1.430 m
Coefficient	C_1	2.174	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	6.000 m
Coefficient	(NB.NB.11) C	8.533	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	1803.15 kNm			

Kipcurve #6.3.2.2

Slankheid	λ _{LT}	0.447	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α _{LT}		Φ _{LT}	0.626
Reductiefactor	(6.56)	χ _{LT,y}			
Reductiefactor		χ _{LT,z}			
Ontwerpweerstand	(6.55)	M _{b,Rd,y}	338.93 kNm		

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Ontwerpweerstand (6.55) $M_{b,Rd,z}$ 168.63 kNm

NEN-EN1993-1-1(6.54): UC = 0.37

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C6-V1 (0.000-6.000)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	124.71 kNm	M	0.00 kNm	M	124.71 kNm
ψM	-45.63 kNm	ψM	0.00 kNm	ψM	-45.63 kNm
M_s	39.54 kNm	ψ	1.000	M_s	39.54 kNm
ψ	-0.366	Belasting	Geconcentreerd	ψ	-0.366
α_s	0.317	C_{mz}	1.000	α_s	0.317
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.454			C_{mLT}	0.454

Interactiefactoren (Tabel B.2)

	k_{yy}	0.455		k_{yz}	0.610
	k_{zy}	0.994		k_{zz}	1.017
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	$N_{y,Ed}$	-26.38 kN	Normaalkracht	$N_{z,Ed}$	-26.38 kN
Lengte	$L_{y,cr}$	6.000 m	Lengte	$L_{z,cr}$	6.000 m
Reductiefactor (6.49)	χ_y	0.872	Reductiefactor (6.49)	χ_z	0.599
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Buigmoment	$M_{y,Ed}$	124.71 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.940			

NEN-EN1993-1-1(6.61): UC = 0.18

NEN-EN1993-1-1(6.62): UC = 0.38

DOORBUIGINGSTOETSING

Staaf C6-V1 (0.000-6.000)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	6.9	Ka.C.4	20.0	0.34
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C7-V1 (0.000-4.500)

HE280B									
h	280.0 mm	A	1.3136e-02 m ²	$W_{pl,y}$	1.5344e-03 m ³	$W_{el,y}$	1.3764e-03 m ³		
b	280.0 mm	I_y	1.9270e-04 m ⁴	$W_{pl,z}$	7.1757e-04 m ³	$W_{el,z}$	4.7104e-04 m ³		
t_f	18.0 mm	I_z	6.5945e-05 m ⁴	$A_{w,pl,y}$	1.0574e-02 m ²	$A_{w,el,y}$	1.0574e-02 m ²		
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m ²	$A_{w,el,z}$	4.1094e-03 m ²		
r_i	24.0 mm			I_t	1.4372e-06 m ⁴	I_w	1.1302e-06 m ⁶		

S235

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$f_y (\leq 40 \text{ mm})$ 235.00 N/mm²
 $f_y (> 40 \text{ mm})$ 215.00 N/mm²

DOORSNEDE (#6.2)

Staaf C7-V1 (0.000-4.500)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse			1
Maatgevende positie		4.500 m				
Normaalkracht	N _{Ed}	-547.50 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	100.86 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	22.41 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Buiging en schuif #6.2.8

Verhouding	4.0 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?		Ja	Is reductie nodig?	Nee
	n	0.177		
	a	0.233		
Ontwerpweerstand	$M_{pl,y,Rd}$	360.59 kNm		
Ontwerpweerstand (6.36)	$M_{N,y,Rd}$	335.69 kNm		

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.18
 NEN-EN1993-1-1(6.12): UC (y) = 0.28
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.04
 NEN-EN1993-1-1(6.31): UC (y) = 0.30

KNIK (#6.3.1)

Staaf C7-V1 (0.000-4.500)

Profiel		HE280B		Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.3					
Maatgevend veld		0.000 - 4.500 m		Maatgevend veld		0.000 - 4.500 m	
Normaalkracht	$N_{Ed,y}$	-547.50	kN	Normaalkracht	$N_{Ed,z}$	-547.50	kN
Lengte	$L_{cr,y}$	4.500	m	Lengte	$L_{cr,z}$	4.500	m
Elastische kritische kracht	$N_{cr,y}$	19723.40	kN	Elastische kritische kracht	$N_{cr,z}$	6749.59	kN
Slankheid	λ_y	0.396		Slankheid	λ_z	0.676	
Knikcurve	Tabel 6.2	b		Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	0.340	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y	0.612			Φ_z	0.845
Reductiefactor	(6.49)	χ_y	0.928	Reductiefactor	(6.49)	χ_z	0.739
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	2864.20 kN	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	2282.29 kN

NEN-EN1993-1-1(6.46): UC = 0.24

KIP (#6.3.2)

Staaf C7-V1 (0.000-4.500)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde	4.500 m	Moment (eind)	M_y	100.86 kNm

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Lengte	L	4.500 m	Moment (max)	M_y	100.86 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.1 (1)			β	0.00
Lengte	L_{st}	4.500 m	Lengte	L_{kip}	4.500 m
	(NB.NB.12) S	1.430 m			
Coefficient	C_1	1.750	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	4.500 m
Coefficient	(NB.NB.11) C	7.768	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	2188.71 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.406	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.604
Reductiefactor	(6.56) $\chi_{LT,y}$	0.951			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	343.00 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	168.63 kNm			

NEN-EN1993-1-1(6.54): UC = 0.29

BUIGING EN AXIALE DRUK (#6.3.3)

Staal C7-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	100.86 kNm	M	0.00 kNm	M	100.86 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	0.000	ψ	1.000	ψ	0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.622		k_{yz}	0.708
	k_{zy}	0.954		k_{zz}	1.181
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-547.50 kN	Normaalkracht	$N_{z,Ed}$	-547.50 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.928	Reductiefactor	(6.49) χ_z	0.739
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	100.86 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.951			

NEN-EN1993-1-1(6.61): UC = 0.37

NEN-EN1993-1-1(6.62): UC = 0.52

DOORBUIGINGSTOETSING

Staal C7-V1 (0.000-4.500)

Constructietype	Kolom
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Toetsing

1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	11.6	Ka.C.4	15.0	0.77
	mm		mm	

DOORSNEDE GEGEVENS

Staal C8-V1 (0.000-6.000)

HE280B

h	280.0 mm	A	1.3136e-02 m²	$W_{pl,y}$	1.5344e-03 m³	$W_{el,y}$	1.3764e-03 m³
b	280.0 mm	I_y	1.9270e-04 m⁴	$W_{pl,z}$	7.1757e-04 m³	$W_{el,z}$	4.7104e-04 m³
t_f	18.0 mm	I_z	6.5945e-05 m⁴	$A_{w,pl,y}$	1.0574e-02 m²	$A_{w,el,y}$	1.0574e-02 m²
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m²	$A_{w,el,z}$	4.1094e-03 m²
r_i	24.0 mm			I_t	1.4372e-06 m⁴	I_w	1.1302e-06 m⁶

S235

f_y (≤40 mm)	235.00 N/mm²
f_y (>40 mm)	215.00 N/mm²

DOORSNEDE (#6.2)

Staal C8-V1 (0.000-6.000)

Maatgevende combinatie	Fu.C.3	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N_{Ed}	-19.73 kN	Ontwerpweerstand (6.10) N_{Rd} 3087.06 kN
Buigmoment	$M_{y,Ed}$	-50.41 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 360.59 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 168.63 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 1434.71 kN
Dwarskracht	$V_{z,Ed}$	13.81 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 557.56 kN

Buiging en schuif #6.2.8

Verhouding	2.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
 NEN-EN1993-1-1(6.12): UC (y) = 0.14
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staal C8-V1 (0.000-6.000)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		
Maatgevend veld	0.000 - 6.000 m	Maatgevend veld	0.000 - 6.000 m
Normaalkracht	$N_{Ed,y}$	-19.73 kN	Normaalkracht $N_{Ed,z}$ -19.73 kN
Lengte	$L_{cr,y}$	6.000 m	Lengte $L_{cr,z}$ 6.000 m
Elastische kritische kracht	$N_{cr,y}$	11094.42 kN	Elastische kritische kracht $N_{cr,z}$ 3796.64 kN
Slankheid	λ_y	0.527	Slankheid λ_z 0.902
Knikcurve	Tabel 6.2	b	Knikcurve Tabel 6.2 c
Imperfectiefactor	Tabel 6.1 α_y	0.340	Imperfectiefactor Tabel 6.1 α_z 0.490
	Φ_y	0.695	Φ_z 1.078
Reductiefactor	(6.49) χ_y	0.872	Reductiefactor (6.49) χ_z 0.599

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Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	$N_{y,Ed}$	-19.73 kN	Normaalkracht	$N_{z,Ed}$	-19.73 kN
Lengte	$L_{y,cr}$	6.000 m	Lengte	$L_{z,cr}$	6.000 m
Reductiefactor	(6.49) χ_y	0.872	Reductiefactor	(6.49) χ_z	0.599
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Buigmoment	$M_{y,Ed}$	50.41 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.943			

NEN-EN1993-1-1(6.61): UC = 0.07

NEN-EN1993-1-1(6.62): UC = 0.16

DOORBUIGINGSTOETSING

Staaf C8-V1 (0.000-6.000)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	6.8	Ka.C.4	20.0	0.34
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C9-V1 (0.000-4.500)

HE280B

h	280.0 mm	A	1.3136e-02 m ²	$W_{pl,y}$	1.5344e-03 m ³	$W_{el,y}$	1.3764e-03 m ³
b	280.0 mm	I_y	1.9270e-04 m ⁴	$W_{pl,z}$	7.1757e-04 m ³	$W_{el,z}$	4.7104e-04 m ³
t_f	18.0 mm	I_z	6.5945e-05 m ⁴	$A_{w,pl,y}$	1.0574e-02 m ²	$A_{w,el,y}$	1.0574e-02 m ²
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m ²	$A_{w,el,z}$	4.1094e-03 m ²
r_i	24.0 mm			I_t	1.4372e-06 m ⁴	I_w	1.1302e-06 m ⁶

S235

$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²
$f_y (> 40 \text{ mm})$	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C9-V1 (0.000-4.500)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N _{Ed}	-758.17 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	-2.68 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.25

NEN-EN1993-1-1(6.12): UC (y) = 0.00

NEN-EN1993-1-1(6.12): UC (z) = 0.00

NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.00

KNIK (#6.3.1)

Staaf C9-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
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Maatgevende combinatie

Fu.C.4

Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{Ed,y}$	-525.28 kN	Normaalkracht	$N_{Ed,z}$	-525.28 kN
Lengte	$L_{cr,y}$	4.500 m	Lengte	$L_{cr,z}$	4.500 m
Elastische kritische kracht	$N_{cr,y}$	19723.40 kN	Elastische kritische kracht	$N_{cr,z}$	6749.59 kN
Slankheid	λ_y	0.396	Slankheid	λ_z	0.676
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.612			0.845
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		0.928			0.739
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		2864.20 kN			2282.29 kN

NEN-EN1993-1-1(6.46): UC = 0.23

KIP (#6.3.2)

Staaf C9-V1 (0.000-4.500)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.4	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		4.500 m	Moment (eind)	M_y	-68.12 kNm
Lengte	L	4.500 m	Moment (max)	M_y	-68.12 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.00		
Lengte		L_{st}	4.500 m	Lengte	L_{kip}	4.500 m	
	(NB.NB.12)	S	1.430 m				
Coefficient		C_1	1.750	Coefficient	C_2 (Tabel)	0.000	
Coefficient		C_2 (Berekend)	0.000	Lengte	L_g	4.500 m	
Coefficient	(NB.NB.11)	C	7.768	Reductiefactor	(NB.NB.7)	K_{red}	1.000
	(NB.NB.6)	M_{cr}	2188.71 kNm				

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.406	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}		Φ_{LT}	0.604
Reductiefactor	(6.56)	$\chi_{LT,y}$			
Reductiefactor		$\chi_{LT,z}$			
		1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$			343.00 kNm
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$			168.63 kNm

NEN-EN1993-1-1(6.54): UC = 0.20

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C9-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.4		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-68.12 kNm	M	0.00 kNm	M	-68.12 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	-0.000	ψ	1.000	ψ	-0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd

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C_{my} 0.600 C_{mz} 1.000 C_{mLT} 0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.622		k_{yz}	0.704
	k_{zy}	0.956		k_{zz}	1.173
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-525.28 kN	Normaalkracht	$N_{z,Ed}$	-525.28 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.928	Reductiefactor	(6.49) χ_z	0.739
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	68.12 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.951			

NEN-EN1993-1-1(6.61): UC = 0.31

NEN-EN1993-1-1(6.62): UC = 0.42

DOORBUIGINGSTOETSING

Staal C9-V1 (0.000-4.500)

Constructietype Kolom
Toetsing 1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	11.6	Ka.C.4	15.0	0.77
	mm		mm	

DOORSNEDE GEGEVENS

Staal C10-V1 (0.000-6.000)

HE280B

h	280.0 mm	A	1.3136e-02 m ²	$W_{pl,y}$	1.5344e-03 m ³	$W_{el,y}$	1.3764e-03 m ³
b	280.0 mm	I_y	1.9270e-04 m ⁴	$W_{pl,z}$	7.1757e-04 m ³	$W_{el,z}$	4.7104e-04 m ³
t_f	18.0 mm	I_z	6.5945e-05 m ⁴	$A_{w,pl,y}$	1.0574e-02 m ²	$A_{w,el,y}$	1.0574e-02 m ²
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m ²	$A_{w,el,z}$	4.1094e-03 m ²
r_i	24.0 mm			I_t	1.4372e-06 m ⁴	I_w	1.1302e-06 m ⁶

S235

f_y (≤40 mm)	235.00 N/mm ²
f_y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staal C10-V1 (0.000-6.000)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse			1
Maatgevende positie		6.000 m				
Normaalkracht	N _{Ed}	-19.80 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	34.44 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	10.09 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Buiging en schuif #6.2.8

Verhouding	1.8 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

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Buig- en normaalkracht #6.2.9

Is reductie nodig?

Nee

Is reductie nodig?

Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01

NEN-EN1993-1-1(6.12): UC (y) = 0.10

NEN-EN1993-1-1(6.12): UC (z) = 0.00

NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staal C10-V1 (0.000-6.000)

Profiel		HE280B	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.3			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	$N_{Ed,y}$	-19.80 kN	Normaalkracht	$N_{Ed,z}$	-19.80 kN
Lengte	$L_{cr,y}$	6.000 m	Lengte	$L_{cr,z}$	6.000 m
Elastische kritische kracht	$N_{cr,y}$	11094.42 kN	Elastische kritische kracht	$N_{cr,z}$	3796.64 kN
Slankheid	λ_y	0.527	Slankheid	λ_z	0.902
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.340			0.490
		0.695			1.078
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		0.872			0.599
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		2691.39 kN			1848.45 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staal C10-V1 (0.000-6.000)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-26.09 kNm
Veld einde		6.000 m	Moment (eind)	M_y	34.44 kNm
Lengte	L	6.000 m	Moment (max)	M_y	34.44 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.1 (1)		β	-0.76
Lengte	L_{st}	6.000 m	β	-0.757
Lengte	L_{kip}	6.000 m	(NB.NB.12) S	1.430 m
Coefficient	C_1	2.300	Coefficient	C_2 (Tabel)
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g
Coefficient	(NB.NB.11) C	9.026	Reductiefactor	(NB.NB.7) K_{red}
	(NB.NB.6) M_{cr}	1907.40 kNm		1.000

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.435	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}		Φ_{LT}	0.619
Reductiefactor	(6.56)	$\chi_{LT,y}$			
Reductiefactor		$\chi_{LT,z}$			
		1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$			
		340.18 kNm			
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$			
		168.63 kNm			

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NEN-EN1993-1-1(6.54): UC = 0.10

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C10-V1 (0.000-6.000)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	34.44 kNm	M	0.00 kNm	M	34.44 kNm
ψM	-26.09 kNm	ψM	0.00 kNm	ψM	-26.09 kNm
ψ	-0.757	ψ	1.000	ψ	-0.757
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C _{my}	0.400	C _{mz}	1.000	C _{mLT}	0.400

Interactiefactoren (Tabel B.2)

	k _{yy}	0.401		k _{yz}	0.608
	k _{zy}	0.994		k _{zz}	1.013
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	N _{y,Ed}	-19.80 kN	Normaalkracht	N _{z,Ed}	-19.80 kN
Lengte	L _{y,cr}	6.000 m	Lengte	L _{z,cr}	6.000 m
Reductiefactor	(6.49) X _y	0.872	Reductiefactor	(6.49) X _z	0.599
Ontwerpweerstand	N _{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Buigmoment	M _{y,Ed}	34.44 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	ΔM _{y,Ed}	0.00 kNm	Buigmoment	ΔM _{z,Ed}	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	360.59 kNm	Ontwerpweerstand	M _{z,Rk}	168.63 kNm
Reductiefactor	X _{LT}	0.943			

NEN-EN1993-1-1(6.61): UC = 0.05

NEN-EN1993-1-1(6.62): UC = 0.11

DOORBUIGINGSTOETSING

Staaf C10-V1 (0.000-6.000)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	u _{i,max} Limiet (H/300)	UC
X	6.8	Ka.C.4	20.0	0.34
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C11-V1 (0.000-4.500)

HE280B							
h	280.0 mm	A	1.3136e-02 m ²	W _{pl,y}	1.5344e-03 m ³	W _{el,y}	1.3764e-03 m ³
b	280.0 mm	I _y	1.9270e-04 m ⁴	W _{pl,z}	7.1757e-04 m ³	W _{el,z}	4.7104e-04 m ³
t _f	18.0 mm	I _z	6.5945e-05 m ⁴	A _{w,pl,y}	1.0574e-02 m ²	A _{w,el,y}	1.0574e-02 m ²
t _w	10.5 mm	Massa/m	103.1 kg/m	A _{w,pl,z}	4.1094e-03 m ²	A _{w,el,z}	4.1094e-03 m ²
r _i	24.0 mm			I _t	1.4372e-06 m ⁴	I _w	1.1302e-06 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

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DOORSNEDE (#6.2)

Staaf C11-V1 (0.000-4.500)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse			1
Maatgevende positie		4.500 m				
Normaalkracht	N _{Ed}	-427.28 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	115.56 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	25.68 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Buiging en schuif #6.2.8

Verhouding	4.6 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?		Ja	Is reductie nodig?	Nee
	n	0.138		
	a	0.233		
Ontwerpweerstand	$M_{pl,y,Rd}$	360.59 kNm		
Ontwerpweerstand (6.36)	$M_{N,y,Rd}$	351.58 kNm		

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.14
 NEN-EN1993-1-1(6.12): UC (y) = 0.32
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.05
 NEN-EN1993-1-1(6.31): UC (y) = 0.33

KNIK (#6.3.1)

Staaf C11-V1 (0.000-4.500)

Profiel		HE280B	Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.3				
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m	
Normaalkracht	$N_{Ed,y}$	-427.28 kN	Normaalkracht	$N_{Ed,z}$	-427.28 kN	
Lengte	$L_{cr,y}$	4.500 m	Lengte	$L_{cr,z}$	4.500 m	
Elastische kritische kracht	$N_{cr,y}$	19723.40 kN	Elastische kritische kracht	$N_{cr,z}$	6749.59 kN	
Slankheid	λ_y	0.396	Slankheid	λ_z	0.676	
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y			Φ_z	0.845
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z	0.739
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	2282.29 kN

NEN-EN1993-1-1(6.46): UC = 0.19

KIP (#6.3.2)

Staaf C11-V1 (0.000-4.500)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		4.500 m	Moment (eind)	M_y	115.56 kNm
Lengte	L	4.500 m	Moment (max)	M_y	115.56 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

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Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.1 (1)		β	0.00
Lengte	L_{st}	4.500 m	Lengte	L_{kip} 4.500 m
	(NB.NB.12) S	1.430 m		
Coefficient	C_1	1.750	Coefficient	C_2 (Tabel) 0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g 4.500 m
Coefficient	(NB.NB.11) C	7.768	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6) M_{cr}	2188.71 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.406	Knikcurve	Tabel 6.4	Φ_{LT}	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210				0.604
Reductiefactor	(6.56) $\chi_{LT,y}$	0.951				
Reductiefactor	$\chi_{LT,z}$	1.000				
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	343.00 kNm				
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	168.63 kNm				

NEN-EN1993-1-1(6.54): UC = 0.34

BUIGING EN AXIALE DRUK (#6.3.3)

Staal C11-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	115.56 kNm	M	0.00 kNm	M	115.56 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	0.000	ψ	1.000	ψ	0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.618		k_{yz}	0.685
	k_{zy}	0.964		k_{zz}	1.141
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-427.28 kN	Normaalkracht	$N_{z,Ed}$	-427.28 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.928	Reductiefactor	(6.49) χ_z	0.739
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	115.56 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.951			

NEN-EN1993-1-1(6.61): UC = 0.36

NEN-EN1993-1-1(6.62): UC = 0.51

DOORBUIGINGSTOETSING

Staal C11-V1 (0.000-4.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

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As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	11.6	Ka.C.4	15.0	0.77
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C12-V1 (0.000-6.000)

HE280B

h	280.0	mm	A	1.3136e-02	m ²	$W_{pl,y}$	1.5344e-03	m ³	$W_{el,y}$	1.3764e-03	m ³
b	280.0	mm	I_y	1.9270e-04	m ⁴	$W_{pl,z}$	7.1757e-04	m ³	$W_{el,z}$	4.7104e-04	m ³
t_f	18.0	mm	I_z	6.5945e-05	m ⁴	$A_{w,pl,y}$	1.0574e-02	m ²	$A_{w,el,y}$	1.0574e-02	m ²
t_w	10.5	mm	Massa/m	103.1	kg/m	$A_{w,pl,z}$	4.1094e-03	m ²	$A_{w,el,z}$	4.1094e-03	m ²
r_i	24.0	mm				I_t	1.4372e-06	m ⁴	I_w	1.1302e-06	m ⁶

S235

f_y (≤ 40 mm)	235.00	N/mm ²
f_y (> 40 mm)	215.00	N/mm ²

DOORSNEDE (#6.2)

Staaf C12-V1 (0.000-6.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse		1
Maatgevende positie		0.000 m			
Normaalkracht	N_{Ed}	-74.72 kN	Ontwerpweerstand	(6.10)	N_{Rd} 3087.06 kN
Buigmoment	$M_{y,Ed}$	-55.21 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$ 360.59 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$ 168.63 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$ 1434.71 kN
Dwarskracht	$V_{z,Ed}$	6.87 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$ 557.56 kN

Buiging en schuif #6.2.8

Verhouding	1.2 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.02
 NEN-EN1993-1-1(6.12): UC (y) = 0.15
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.01

KNIK (#6.3.1)

Staaf C12-V1 (0.000-6.000)

Profiel		HE280B	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	$N_{Ed,y}$	-126.48 kN	Normaalkracht	$N_{Ed,z}$	-126.48 kN
Lengte	$L_{cr,y}$	6.000 m	Lengte	$L_{cr,z}$	6.000 m
Elastische kritische kracht	$N_{cr,y}$	11094.42 kN	Elastische kritische kracht	$N_{cr,z}$	3796.64 kN
Slankheid	λ_y	0.527	Slankheid	λ_z	0.902
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.695			1.078
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		0.872			0.599
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		2691.39 kN			1848.45 kN

NEN-EN1993-1-1(6.46): UC = 0.07

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KIP (#6.3.2)

Staaf C12-V1 (0.000-6.000)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-55.21 kNm
Veld einde		6.000 m	Moment (eind)	M_y	-13.99 kNm
Lengte	L	6.000 m	Moment (max)	M_y	-55.21 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.25
Lengte	L_{st}	6.000 m		β	0.253
Lengte	L_{kip}	6.000 m		(NB.NB.12) S	1.430 m
Coefficient	C_1	1.503	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	6.000 m
Coefficient	(NB.NB.11) C	5.900	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	1246.66 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.538	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.680
Reductiefactor	(6.56) $\chi_{LT,y}$	0.912			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	328.90 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	168.63 kNm			

NEN-EN1993-1-1(6.54): UC = 0.17

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C12-V1 (0.000-6.000)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-46.36 kNm	M	0.00 kNm	M	-46.36 kNm
ψM	-29.13 kNm	ψM	0.00 kNm	ψM	-29.13 kNm
M_s	-37.74 kNm	ψ	1.000	M_s	-37.74 kNm
ψ	0.628	Belasting	Geconcentreerd	ψ	0.628
α_s	0.814	C_{mz}	1.000	α_s	0.814
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.851			C_{mLT}	0.851

Interactiefactoren (Tabel B.2)

	k_{yy}	0.864		k_{yz}	0.649
	k_{zy}	0.990		k_{zz}	1.082
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	$N_{y,Ed}$	-126.48 kN	Normaalkracht	$N_{z,Ed}$	-126.48 kN
Lengte	$L_{y,cr}$	6.000 m	Lengte	$L_{z,cr}$	6.000 m
Reductiefactor	(6.49) χ_y	0.872	Reductiefactor	(6.49) χ_z	0.599
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m

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Buigmoment	$M_{y,Ed}$	46.36 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	XLT	0.890			

NEN-EN1993-1-1(6.61): UC = 0.17

NEN-EN1993-1-1(6.62): UC = 0.21

DOORBUIGINGSTOETSING

Staal C12-V1 (0.000-6.000)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	6.8	Ka.C.4	20.0	0.34
	mm		mm	

DOORSNEDE GEGEVENS

Staal C13-V1 (0.000-4.500)

HE280B

h	280.0 mm	A	1.3136e-02 m ²	$W_{pl,y}$	1.5344e-03 m ³	$W_{el,y}$	1.3764e-03 m ³
b	280.0 mm	I_y	1.9270e-04 m ⁴	$W_{pl,z}$	7.1757e-04 m ³	$W_{el,z}$	4.7104e-04 m ³
t_f	18.0 mm	I_z	6.5945e-05 m ⁴	$A_{w,pl,y}$	1.0574e-02 m ²	$A_{w,el,y}$	1.0574e-02 m ²
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m ²	$A_{w,el,z}$	4.1094e-03 m ²
r_i	24.0 mm			I_t	1.4372e-06 m ⁴	I_w	1.1302e-06 m ⁶

S235

$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²
$f_y (> 40 \text{ mm})$	215.00 N/mm ²

DOORSNEDE (#6.2)

Staal C13-V1 (0.000-4.500)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N _{Ed}	-16.27 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	-55.23 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	25.27 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

Buiging en schuif #6.2.8

Verhouding	4.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01

NEN-EN1993-1-1(6.12): UC (y) = 0.15

NEN-EN1993-1-1(6.12): UC (z) = 0.00

NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.05

KNIK (#6.3.1)

Staal C13-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
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Maatgevende combinatie

Fu.C.3

Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{Ed,y}$	-16.27 kN	Normaalkracht	$N_{Ed,z}$	-16.27 kN
Lengte	$L_{cr,y}$	4.500 m	Lengte	$L_{cr,z}$	4.500 m
Elastische kritische kracht	$N_{cr,y}$	19723.40 kN	Elastische kritische kracht	$N_{cr,z}$	6749.59 kN
Slankheid	λ_y	0.396	Slankheid	λ_z	0.676
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.612			0.845
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		0.928			0.739
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		2864.20 kN			2282.29 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C13-V1 (0.000-4.500)

Equivalente profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.5	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-26.31 kNm
Veld einde		4.500 m	Moment (eind)	M_y	17.55 kNm
Lengte	L	4.500 m	Moment (max)	M_y	17.55 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	-0.67
Lengte	L_{st}	4.500 m		β	-0.667
Lengte	L_{kip}	4.500 m	(NB.NB.12)	S	1.430 m
Coefficient	C_1	2.300	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	4.500 m
Coefficient	(NB.NB.11) C	10.210	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	2876.59 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.354	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}		Φ_{LT}	0.579
Reductiefactor	(6.56)	$\chi_{LT,y}$			
Reductiefactor		$\chi_{LT,z}$			
		1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$			347.79 kNm
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$			168.63 kNm

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)

NEN-EN1993-1-1(6.54): UC = 0.00

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C13-V1 (0.000-4.500)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-55.23 kNm	M	0.00 kNm	M	-55.23 kNm
ψM	25.66 kNm	ψM	0.00 kNm	ψM	25.66 kNm

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M_s	-6.58 kNm	ψ	1.000	M_s	-6.58 kNm
ψ	-0.465	Belasting	Geconcentreerd	ψ	-0.465
α_s	0.119	C_{mz}	1.000	α_s	0.119
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.400			C_{mLT}	0.400

Interactiefactoren (Tabel B.2)

	k_{yy}	0.400		k_{yz}	0.603
	k_{zy}	0.997		k_{zz}	1.005
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-16.27 kN	Normaalkracht	$N_{z,Ed}$	-16.27 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.928	Reductiefactor	(6.49) χ_z	0.739
Ontwerpweerstand	N_{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	55.23 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	360.59 kNm	Ontwerpweerstand	$M_{z,Rk}$	168.63 kNm
Reductiefactor	χ_{LT}	0.964			

NEN-EN1993-1-1(6.61): UC = 0.07

NEN-EN1993-1-1(6.62): UC = 0.17

DOORBUIGINGSTOETSING

Staal C13-V1 (0.000-4.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	14.8	Ka.C.4	15.0	0.99
	mm		mm	

DOORSNEDE GEGEVENS

Staal C14-V1 (0.000-6.000)

HE280B								
h	280.0 mm	A	1.3136e-02 m ²	$W_{pl,y}$	1.5344e-03 m ³	$W_{el,y}$	1.3764e-03 m ³	
b	280.0 mm	I_y	1.9270e-04 m ⁴	$W_{pl,z}$	7.1757e-04 m ³	$W_{el,z}$	4.7104e-04 m ³	
t_f	18.0 mm	I_z	6.5945e-05 m ⁴	$A_{w,pl,y}$	1.0574e-02 m ²	$A_{w,el,y}$	1.0574e-02 m ²	
t_w	10.5 mm	Massa/m	103.1 kg/m	$A_{w,pl,z}$	4.1094e-03 m ²	$A_{w,el,z}$	4.1094e-03 m ²	
r_i	24.0 mm			I_t	1.4372e-06 m ⁴	I_w	1.1302e-06 m ⁶	
S235								
$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²							
$f_y (> 40 \text{ mm})$	215.00 N/mm ²							

DOORSNEDE (#6.2)

Staal C14-V1 (0.000-6.000)

Maatgevende combinatie		Fu.C.2	Doorsnedeklasse			1
Maatgevende positie		6.000 m				
Normaalkracht	N _{Ed}	-64.60 kN	Ontwerpweerstand	(6.10)	N _{Rd}	3087.06 kN
Buigmoment	M _{y,Ed}	111.21 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	360.59 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	168.63 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1434.71 kN
Dwarskracht	V _{z,Ed}	14.10 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	557.56 kN

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Buiging en schuif #6.2.8

Verhouding	2.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.02
NEN-EN1993-1-1(6.12): UC (y) = 0.31
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.03

KNIK (#6.3.1)

Staaf C14-V1 (0.000-6.000)

Profiel		HE280B	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	N _{Ed,y}	-64.60 kN	Normaalkracht	N _{Ed,z}	-64.60 kN
Lengte	L _{cr,y}	6.000 m	Lengte	L _{cr,z}	6.000 m
Elastische kritische kracht	N _{cr,y}	11094.42 kN	Elastische kritische kracht	N _{cr,z}	3796.64 kN
Slankheid	λ _y	0.527	Slankheid	λ _z	0.902
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α _y	Imperfectiefactor	Tabel 6.1	α _z
		Φ _y			Φ _z
		0.695			1.078
Reductiefactor	(6.49)	χ _y	Reductiefactor	(6.49)	χ _z
		0.872			0.599
Ontwerpweerstand	(6.47)	N _{b,Rd,y}	Ontwerpweerstand	(6.47)	N _{b,Rd,z}
		2691.39 kN			1848.45 kN

NEN-EN1993-1-1(6.46): UC = 0.03

KIP (#6.3.2)

Staaf C14-V1 (0.000-6.000)

Equivalent profiel		HE280B	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2	Aangrijphoogte van de last vanaf het midden		0.000 m
Kipsteunen		Geen			

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M _y	26.63 kNm
Veld einde		6.000 m	Moment (eind)	M _y	111.21 kNm
Lengte	L	6.000 m	Moment (max)	M _y	111.21 kNm
Maatgevende flens		Boven	Moment (max)	M _z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.24
Lengte	L _{st}	6.000 m		β	0.239
Lengte	L _{kip}	6.000 m	(NB.NB.12)	S	1.430 m
Coefficient	C ₁	1.516	Coefficient	C ₂ (Tabel)	0.000
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	6.000 m
Coefficient	(NB.NB.11) C	5.949	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	1257.04 kNm			

Kipcurve #6.3.2.2

Slankheid	λ _{LT}	0.536	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α _{LT}		Φ _{LT}	0.679
Reductiefactor	(6.56)	χ _{LT,y}			
		0.913			

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Reductiefactor	XLT,z	1.000
Ontwerpweerstand (6.55)	M _{b,Rd,y}	329.16 kNm
Ontwerpweerstand (6.55)	M _{b,Rd,z}	168.63 kNm

NEN-EN1993-1-1(6.54): UC = 0.34

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C14-V1 (0.000-6.000)

Profiel	HE280B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	111.21 kNm	M	0.00 kNm	M	111.21 kNm
ψM	26.63 kNm	ψM	0.00 kNm	ψM	26.63 kNm
M _s	68.92 kNm	ψ	1.000	M _s	68.92 kNm
ψ	0.239	Belasting	Geconcentreerd	ψ	0.239
α _s	0.620	C _{mz}	1.000	α _s	0.620
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.696			C _{mLT}	0.696

Interactiefactoren (Tabel B.2)

	k _{yy}	0.701		k _{yz}	0.625
	k _{zy}	0.993		k _{zz}	1.042
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Normaalkracht	N _{y,Ed}	-64.60 kN	Normaalkracht	N _{z,Ed}	-64.60 kN
Lengte	L _{y,cr}	6.000 m	Lengte	L _{z,cr}	6.000 m
Reductiefactor (6.49)	χ _y	0.872	Reductiefactor (6.49)	χ _z	0.599
Ontwerpweerstand	N _{Rk}	3087.06 kN			
Maatgevend veld		0.000 - 6.000 m	Maatgevend veld		0.000 - 6.000 m
Buigmoment	M _{y,Ed}	111.21 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	ΔM _{y,Ed}	0.00 kNm	Buigmoment	ΔM _{z,Ed}	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	360.59 kNm	Ontwerpweerstand	M _{z,Rk}	168.63 kNm
Reductiefactor	XLT	0.913			

NEN-EN1993-1-1(6.61): UC = 0.26

NEN-EN1993-1-1(6.62): UC = 0.37

DOORBUIGINGSTOETSING

Staaf C14-V1 (0.000-6.000)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	u _{i,max} Limiet (H/300)	UC
X	-8.4	Ka.C.3	20.0	0.42
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C15-V1 (0.000-10.000)

HE300A							
h	290.0 mm	A	1.1253e-02 m ²	W _{pl,y}	1.3833e-03 m ³	W _{el,y}	1.2596e-03 m ³
b	300.0 mm	I _y	1.8263e-04 m ⁴	W _{pl,z}	6.4117e-04 m ³	W _{el,z}	4.2064e-04 m ³
t _f	14.0 mm	I _z	6.3096e-05 m ⁴	A _{w,pl,y}	9.0258e-03 m ²	A _{w,el,y}	9.0258e-03 m ²

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t_w	8.5 mm	Massa/m	88.3 kg/m	$A_{w,pl,z}$	3.7278e-03 m ²	$A_{w,el,z}$	3.7278e-03 m ²
r_i	27.0 mm			I_t	8.5173e-07 m ⁴	I_w	1.1998e-06 m ⁶

S235

f_y (≤40 mm)	235.00 N/mm ²
f_y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C15-V1 (0.000-10.000)

Maatgevende combinatie		Fu.C.2	Doorsnedeklasse			1
Maatgevende positie		10.000 m				
Normaalkracht	N _{Ed}	-25.27 kN	Ontwerpweerstand	(6.10)	N _{Rd}	2644.40 kN
Buigmoment	M _{y,Ed}	-90.34 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	325.07 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	150.67 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1224.59 kN
Dwarskracht	V _{z,Ed}	-49.16 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	505.78 kN

Buiging en schuif #6.2.8

Verhouding	9.7 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
NEN-EN1993-1-1(6.12): UC (y) = 0.28
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.10

KNIK (#6.3.1)

Staaf C15-V1 (0.000-10.000)

Profiel		HE300A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2			
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Normaalkracht	$N_{Ed,y}$	-25.27 kN	Normaalkracht	$N_{Ed,z}$	-25.27 kN
Lengte	$L_{cr,y}$	10.000 m	Lengte	$L_{cr,z}$	10.000 m
Elastische kritische kracht	$N_{cr,y}$	3785.32 kN	Elastische kritische kracht	$N_{cr,z}$	1307.73 kN
Slankheid	λ_y	0.836	Slankheid	λ_z	1.422
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$

NEN-EN1993-1-1(6.46): UC = 0.03

KIP (#6.3.2)

Staaf C15-V1 (0.000-10.000)

Equivalente profiel			HE300A	Doorsnedeklasse	1
Maatgevende combinatie			Fu.C.2	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen			Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-57.76 kNm
Veld einde	10.000 m	Moment (eind)	M_y	-90.34 kNm

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Lengte	L	10.000 m	Moment (max)	M_y	-90.34 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	90.34 kNm
Belasting	q	9.18 kN/m	Lengte	L_{st}	10.000 m
	B^*	-0.44	Lengte	L_{st}	10.000 m
	β	0.639	Lengte	L_{kip}	10.000 m
	(NB.NB.12) S	1.914 m			
Coefficient	C_1	2.300	Coefficient	C_2 (Tabel)	1.337
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	10.000 m
Coefficient	(NB.NB.11) C	8.431	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{Cr}	804.94 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.635	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.748
Reductiefactor	(6.56) $\chi_{LT,y}$	0.876			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	284.77 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.32

BUIGING EN AXIALE DRUK (#6.3.3)

Staal C15-V1 (0.000-10.000)

Profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-90.34 kNm	M	0.00 kNm	M	-90.34 kNm
ψM	-57.76 kNm	ψM	0.00 kNm	ψM	-57.76 kNm
M_s	40.70 kNm	ψ	1.000	M_s	40.70 kNm
ψ	0.639	Belasting	Geconcentreerd	ψ	0.639
α_s	-0.451	C_{mz}	1.000	α_s	-0.451
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.460			C_{mLT}	0.460

Interactiefactoren (Tabel B.2)

	k_{yy}	0.464		k_{yz}	0.624
	k_{zy}	0.987		k_{zz}	1.039
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Normaalkracht	$N_{y,Ed}$	-25.27 kN	Normaalkracht	$N_{z,Ed}$	-25.27 kN
Lengte	$L_{y,cr}$	10.000 m	Lengte	$L_{z,cr}$	10.000 m
Reductiefactor	(6.49) χ_y	0.702	Reductiefactor	(6.49) χ_z	0.341
Ontwerpweerstand	N_{Rk}	2644.40 kN			
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Buigmoment	$M_{y,Ed}$	90.34 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	325.07 kNm	Ontwerpweerstand	$M_{z,Rk}$	150.67 kNm
Reductiefactor	χ_{LT}	0.876			

NEN-EN1993-1-1(6.61): UC = 0.16

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NEN-EN1993-1-1(6.62): UC = 0.34

DOORBUIGINGSTOETSING

Staaf C15-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	4.729	3.6 Fr.C.(w1)	-0.3 Qu.C.1	3.3	0.0	3.3	40.0	0.08
Z''	4.729	3.6 Fr.C.(w1)	-0.3 Qu.C.1	3.3	0.0	3.3	40.0	0.08
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	4.762	-0.8 Fr.C.3	-0.8	0.0	30.0	0.03
Z''	4.790	-0.9 Fr.C.3	-0.9	0.0	30.0	0.03
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C16-V1 (0.000-10.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	$W_{pl,y}$	1.3833e-03 m ³	$W_{el,y}$	1.2596e-03 m ³
b	300.0 mm	I_y	1.8263e-04 m ⁴	$W_{pl,z}$	6.4117e-04 m ³	$W_{el,z}$	4.2064e-04 m ³
t_f	14.0 mm	I_z	6.3096e-05 m ⁴	$A_{w,pl,y}$	9.0258e-03 m ²	$A_{w,el,y}$	9.0258e-03 m ²
t_w	8.5 mm	Massa/m	88.3 kg/m	$A_{w,pl,z}$	3.7278e-03 m ²	$A_{w,el,z}$	3.7278e-03 m ²
r_i	27.0 mm			I_t	8.5173e-07 m ⁴	I_w	1.1998e-06 m ⁶

S235

$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²
$f_y (> 40 \text{ mm})$	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C16-V1 (0.000-10.000)

Maatgevende combinatie	Fu.C.2	Doorsnedeklasse	1
Maatgevende positie	10.000 m		

Normaalkracht	N_{Ed}	-16.50 kN	Ontwerpweerstand	(6.10)	N_{Rd}	2644.40 kN
Buigmoment	$M_{y,Ed}$	-75.58 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	325.07 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	150.67 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	1224.59 kN
Dwarskracht	$V_{z,Ed}$	-46.30 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	505.78 kN

Buiging en schuif #6.2.8

Verhouding	9.2 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
NEN-EN1993-1-1(6.12): UC (y) = 0.23
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.09

KNIK (#6.3.1)

Staaf C16-V1 (0.000-10.000)

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Profiel		HE300A	Doorsnedeklasse	1
Maatgevende combinatie		Fu.C.2		
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld	0.000 - 10.000 m
Normaalkracht	$N_{Ed,y}$	-16.50 kN	Normaalkracht	$N_{Ed,z}$ -16.50 kN
Lengte	$L_{cr,y}$	10.000 m	Lengte	$L_{cr,z}$ 10.000 m
Elastische kritische kracht	$N_{cr,y}$	3785.32 kN	Elastische kritische kracht	$N_{cr,z}$ 1307.73 kN
Slankheid	λ_y	0.836	Slankheid	λ_z 1.422
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2 c
Imperfectiefactor	Tabel 6.1	α_y 0.340	Imperfectiefactor	Tabel 6.1 α_z 0.490
		Φ_y 0.957		Φ_z 1.810
Reductiefactor	(6.49)	χ_y 0.702	Reductiefactor	(6.49) χ_z 0.341
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$ 1856.65 kN	Ontwerpweerstand	(6.47) $N_{b,Rd,z}$ 902.22 kN

NEN-EN1993-1-1(6.46): UC = 0.02

KIP (#6.3.2)

Staaf C16-V1 (0.000-10.000)

Equivalent profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-71.63 kNm
Veld einde		10.000 m	Moment (eind)	M_y	-75.58 kNm
Lengte	L	10.000 m	Moment (max)	M_y	-75.58 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.4	Moment	M	75.58 kNm
Belasting	q	9.18 kN/m	Lengte	L_{st} 10.000 m
	B^*	-0.40	Lengte	L_{st} 10.000 m
	β	0.948	Lengte	L_{kip} 10.000 m
	(NB.NB.12) S	1.914 m		
Coefficient	C_1	2.223	Coefficient	C_2 (Tabel) 1.493
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g 10.000 m
Coefficient	(NB.NB.11) C	8.149	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6) M_{cr}	778.06 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.646	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT} 0.210		Φ_{LT}	0.756
Reductiefactor	(6.56)	$\chi_{LT,y}$ 0.872			
Reductiefactor		$\chi_{LT,z}$ 1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$ 283.31 kNm			
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$ 150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.27

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C16-V1 (0.000-10.000)

Profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}	C_{mz}	C_{mLT}
M -75.58 kNm	M 0.00 kNm	M -75.58 kNm

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ψM	-71.63 kNm	ψM	0.00 kNm	ψM	-71.63 kNm
M_s	41.15 kNm	ψ	1.000	M_s	41.15 kNm
ψ	0.948	Belasting	Geconcentreerd	ψ	0.948
α_s	-0.544	C_{mz}	1.000	α_s	-0.544
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.536			C_{mLT}	0.536

Interactiefactoren (Tabel B.2)

	k_{yy}	0.539		k_{yz}	0.615
	k_{zy}	0.994		k_{zz}	1.026
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Normaalkracht	N_{yEd}	-16.50 kN	Normaalkracht	N_{zEd}	-16.50 kN
Lengte	$L_{y,cr}$	10.000 m	Lengte	$L_{z,cr}$	10.000 m
Reductiefactor	(6.49) χ_y	0.702	Reductiefactor	(6.49) χ_z	0.341
Ontwerpweerstand	N_{Rk}	2644.40 kN			
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Buigmoment	M_{yEd}	75.58 kNm	Buigmoment	M_{zEd}	0.00 kNm
Buigmoment	ΔM_{yEd}	0.00 kNm	Buigmoment	ΔM_{zEd}	0.00 kNm
Ontwerpweerstand	M_{yRk}	325.07 kNm	Ontwerpweerstand	M_{zRk}	150.67 kNm
Reductiefactor	XL	0.872			

NEN-EN1993-1-1(6.61): UC = 0.15

NEN-EN1993-1-1(6.62): UC = 0.28

DOORBUIGINGSTOETSING

Staaf C16-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	4.912	4.0 Fr.C.(w1)	0.1 Qu.C.1	4.1	0.0	4.1	40.0	0.10
Z''	4.912	4.0 Fr.C.(w1)	0.1 Qu.C.1	4.1	0.0	4.1	40.0	0.10
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	4.918	0.5 Fr.C.2	0.5	0.0	30.0	0.02
Z''	4.762	0.5 Fr.C.2	0.5	0.0	30.0	0.02
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C17-V1 (0.000-10.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	$W_{pl,y}$	1.3833e-03 m ³	$W_{el,y}$	1.2596e-03 m ³
b	300.0 mm	I_y	1.8263e-04 m ⁴	$W_{pl,z}$	6.4117e-04 m ³	$W_{el,z}$	4.2064e-04 m ³
t_f	14.0 mm	I_z	6.3096e-05 m ⁴	$A_{w,pl,y}$	9.0258e-03 m ²	$A_{w,el,y}$	9.0258e-03 m ²
t_w	8.5 mm	Massa/m	88.3 kg/m	$A_{w,pl,z}$	3.7278e-03 m ²	$A_{w,el,z}$	3.7278e-03 m ²
r_i	27.0 mm			I_t	8.5173e-07 m ⁴	I_w	1.1998e-06 m ⁶

S235

$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²
$f_y (> 40 \text{ mm})$	215.00 N/mm ²

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DOORSNEDE (#6.2)

Staaf C17-V1 (0.000-10.000)

Maatgevende combinatie		Fu.C.2	Doorsnedeklasse			1
Maatgevende positie		10.000 m				
Normaalkracht	N _{Ed}	-11.22 kN	Ontwerpweerstand	(6.10)	N _{Rd}	2644.40 kN
Buigmoment	M _{y,Ed}	-128.63 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	325.07 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	150.67 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1224.59 kN
Dwarskracht	V _{z,Ed}	-53.38 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	505.78 kN

Buiging en schuif #6.2.8

Verhouding	10.6 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.40
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.11

KNIK (#6.3.1)

Staaf C17-V1 (0.000-10.000)

Profiel		HE300A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2			
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Normaalkracht	$N_{Ed,y}$	-11.22 kN	Normaalkracht	$N_{Ed,z}$	-11.22 kN
Lengte	$L_{cr,y}$	10.000 m	Lengte	$L_{cr,z}$	10.000 m
Elastische kritische kracht	$N_{cr,y}$	3785.32 kN	Elastische kritische kracht	$N_{cr,z}$	1307.73 kN
Slankheid	λ_y	0.836	Slankheid	λ_z	1.422
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C17-V1 (0.000-10.000)

Equivalente profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M _y	-53.82 kNm
Veld einde		10.000 m	Moment (eind)	M _y	-128.63 kNm
Lengte	L	10.000 m	Moment (max)	M _y	-128.63 kNm
Maatgevende flens		Onder	Moment (max)	M _z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Elasticiteit kritiek moment voor kip (NEN-EN 1993-1-1:2010 NB.NB.4)					
Tabel gebruikt		NB.NB.4	Moment	M	128.63 kNm
Belasting	q	9.18 kN/m	Lengte	L _{st}	10.000 m
	B*	-0.53	Lengte	L _{st}	10.000 m
	β	0.418	Lengte	L _{kip}	10.000 m

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Coefficient	(NB.NB.12)	S	1.914 m	Coefficient	C ₂ (Tabel)	1.292
Coefficient		C ₁	2.300	Lengte	L _g	10.000 m
Coefficient	(NB.NB.11)	C	8.431	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6)	M _{cr}	804.94 kNm			

Kipcurve #6.3.2.2

Slankheid		λ_{LT}	0.635	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}	0.210		Φ_{LT}	0.748
Reductiefactor	(6.56)	$\chi_{LT,y}$	0.876			
Reductiefactor		$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55)	M _{b,Rd,y}	284.77 kNm			
Ontwerpweerstand	(6.55)	M _{b,Rd,z}	150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.45

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C17-V1 (0.000-10.000)

Profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	-128.63 kNm	M	0.00 kNm	M	-128.63 kNm
ψM	-53.82 kNm	ψM	0.00 kNm	ψM	-53.82 kNm
M _s	23.53 kNm	ψ	1.000	M _s	23.53 kNm
ψ	0.418	Belasting	Geconcentreerd	ψ	0.418
α_s	-0.183	C _{mz}	1.000	α_s	-0.183
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.400			C _{mLT}	0.400

Interactiefactoren (Tabel B.2)

	k _{yy}	0.402		k _{yz}	0.610
	k _{zy}	0.992		k _{zz}	1.017
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Normaalkracht	N _{y,Ed}	-11.22 kN	Normaalkracht	N _{z,Ed}	-11.22 kN
Lengte	L _{y,cr}	10.000 m	Lengte	L _{z,cr}	10.000 m
Reductiefactor	(6.49) X _y	0.702	Reductiefactor	(6.49) X _z	0.341
Ontwerpweerstand	N _{Rk}	2644.40 kN			
Maatgevend veld		0.000 - 10.000 m	Maatgevend veld		0.000 - 10.000 m
Buigmoment	M _{y,Ed}	128.63 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	325.07 kNm	Ontwerpweerstand	M _{z,Rk}	150.67 kNm
Reductiefactor	X _{LT}	0.876			

NEN-EN1993-1-1(6.61): UC = 0.19

NEN-EN1993-1-1(6.62): UC = 0.46

DOORBUIGINGSTOETSING

Staaf C17-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w _c 0 mm

w_{max}

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As	Positie	w ₁	B.G.	w ₃	B.G.	w _{tot}	w _c	w	Limiet (L/250)	UC
Z'	8.436	-1.3	Fr.C.(w1)	-0.1	Qu.C.1	-1.4	0.0	-1.4	40.0	0.04
Z''	8.436	-1.3	Fr.C.(w1)	-0.1	Qu.C.1	-1.4	0.0	-1.4	40.0	0.04
	m	mm		mm		mm	mm	mm	mm	

(w₂+w₃)

As	Positie	w ₃	B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	5.476	-0.3	Fr.C.3	-0.3	0.0	30.0	0.01
Z''	5.717	-0.3	Fr.C.3	-0.3	0.0	30.0	0.01
	m	mm		mm	mm	mm	

DOORSNEDE GEGEVENS

Staal C18-V1 (0.000-15.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	W _{pl,y}	1.3833e-03 m ³	W _{el,y}	1.2596e-03 m ³
b	300.0 mm	I _y	1.8263e-04 m ⁴	W _{pl,z}	6.4117e-04 m ³	W _{el,z}	4.2064e-04 m ³
t _f	14.0 mm	I _z	6.3096e-05 m ⁴	A _{w,pl,y}	9.0258e-03 m ²	A _{w,el,y}	9.0258e-03 m ²
t _w	8.5 mm	Massa/m	88.3 kg/m	A _{w,pl,z}	3.7278e-03 m ²	A _{w,el,z}	3.7278e-03 m ²
r _i	27.0 mm			I _t	8.5173e-07 m ⁴	I _w	1.1998e-06 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staal C18-V1 (0.000-15.000)

Maatgevende combinatie	Fu.C.2	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N _{Ed}	-14.10 kN	Ontwerpweerstand (6.10) N _{Rd} 2644.40 kN
Buigmoment	M _{y,Ed}	-174.99 kNm	Ontwerpweerstand (6.13) M _{y,Rd} 325.07 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand (6.13) M _{z,Rd} 150.67 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand (6.18) V _{y,Rd} 1224.59 kN
Dwarskracht	V _{z,Ed}	73.10 kN	Ontwerpweerstand (6.18) V _{z,Rd} 505.78 kN

Buiging en schuif #6.2.8

Verhouding	14.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
NEN-EN1993-1-1(6.12): UC (y) = 0.54
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.14

KNIK (#6.3.1)

Staal C18-V1 (0.000-15.000)

Profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		
Maatgevend veld	0.000 - 15.000 m	Maatgevend veld	0.000 - 15.000 m
Normaalkracht	$N_{Ed,y}$ -14.10 kN	Normaalkracht	$N_{Ed,z}$ -14.10 kN
Lengte	$L_{cr,y}$ 15.000 m	Lengte	$L_{cr,z}$ 15.000 m
Elastische kritische kracht	$N_{cr,y}$ 1682.37 kN	Elastische kritische kracht	$N_{cr,z}$ 581.21 kN
Slankheid	λ_y 1.254	Slankheid	λ_z 2.133

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Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c		
Imperfectiefactor	Tabel 6.1	α_y	0.340	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y	1.465			Φ_z	3.248
Reductiefactor	(6.49)	χ_y	0.450	Reductiefactor	(6.49)	χ_z	0.175
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	1189.55 kN	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	464.05 kN

NEN-EN1993-1-1(6.46): UC = 0.03

KIP (#6.3.2)

Staaf C18-V1 (0.000-15.000)

Equivalent profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-174.99 kNm
Veld einde	15.000 m	Moment (eind)	M_y	-111.21 kNm
Lengte	L	Moment (max)	M_y	-174.99 kNm
Maatgevende flens	Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	174.99 kNm
Belasting	q	9.18 kN/m	Lengte	L _{st}	15.000 m
	B*	-0.40	Lengte	L _{st}	15.000 m
	β	0.636	Lengte	L _{kip}	15.000 m
	(NB.NB.12) S	1.914 m			
Coefficient	C ₁	1.857	Coefficient	C ₂ (Tabel)	1.172
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	15.000 m
Coefficient	(NB.NB.11) C	6.285	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	400.02 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.901	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}	0.210	Φ_{LT}	0.980
Reductiefactor	(6.56)	$\chi_{LT,y}$	0.733		
Reductiefactor		$\chi_{LT,z}$	1.000		
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	238.27 kNm		
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	150.67 kNm		

NEN-EN1993-1-1(6.54): UC = 0.73

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C18-V1 (0.000-15.000)

Profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalenten gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-174.99 kNm	M	0.00 kNm	M	-174.99 kNm
ψM	-111.21 kNm	ψM	0.00 kNm	ψM	-111.21 kNm
M_s	115.09 kNm	ψ	1.000	M_s	115.09 kNm
ψ	0.636	Belasting	Geconcentreerd	ψ	0.636
α_s	-0.658	C_{mz}	1.000	α_s	-0.658
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.626			C_{mLT}	0.626

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Interactiefactoren (Tabel B.2)

	k_{yy}	0.632		k_{yz}	0.626
	k_{zy}	0.992		k_{zz}	1.043
Maatgevend veld		0.000 - 15.000 m	Maatgevend veld		0.000 - 15.000 m
Normaalkracht	$N_{y,Ed}$	-14.10 kN	Normaalkracht	$N_{z,Ed}$	-14.10 kN
Lengte	$L_{y,cr}$	15.000 m	Lengte	$L_{z,cr}$	15.000 m
Reductiefactor	(6.49) χ_y	0.450	Reductiefactor	(6.49) χ_z	0.175
Ontwerpweerstand	N_{Rk}	2644.40 kN			
Maatgevend veld		0.000 - 15.000 m	Maatgevend veld		0.000 - 15.000 m
Buigmoment	$M_{y,Ed}$	174.99 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	325.07 kNm	Ontwerpweerstand	$M_{z,Rk}$	150.67 kNm
Reductiefactor	χ_{LT}	0.733			

NEN-EN1993-1-1(6.61): UC = 0.48

NEN-EN1993-1-1(6.62): UC = 0.76

DOORBUIGINGSTOETSING

Staaf C18-V1 (0.000-15.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

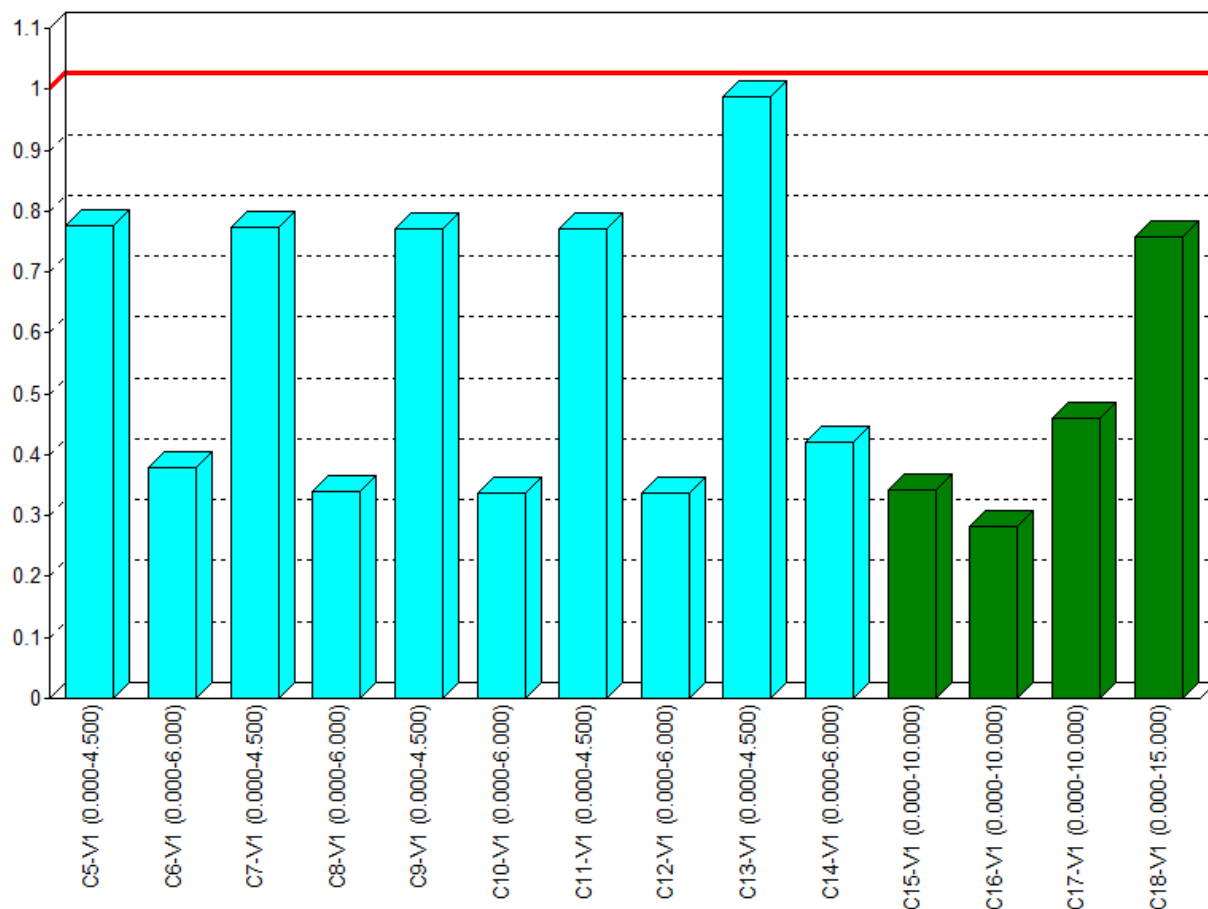
As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	7.809	29.0 Fr.C.(w1)	0.1 Qu.C.1	29.1	0.0	29.1	60.0	0.49
Z''	7.809	29.0 Fr.C.(w1)	0.1 Qu.C.1	29.1	0.0	29.1	60.0	0.49
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	7.796	3.3 Fr.C.2	3.3	0.0	45.0	0.07
Z''	7.750	3.3 Fr.C.2	3.3	0.0	45.0	0.07
	m	mm	mm	mm	mm	

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Afb. Staal UC Diagram



UNITY CHECK

Label	Toetsing	Combinatie	Artikel	Unity Check
C10-V1 (0.000-6.000)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.10
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.10
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.11
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.34
C11-V1 (0.000-4.500)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.31)	0.33
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.19
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.34
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.51
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.77
C12-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.15
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.07
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.17
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.21
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.34
C13-V1 (0.000-4.500)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.15
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.5	NEN-EN1993-1-1(6.54)	0.00
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.17
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.99
C14-V1 (0.000-6.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.31
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.03
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.34
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.37
	Doorbuigingstoetsing	Ka.C.3	NEN-EN NEN-EN1990/NB A1.4.2	0.42

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Label	Toetsing	Combinatie	Artikel	Unity Check
C15-V1 (0.000-10.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.28
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.03
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.32
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.34
	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.08
C16-V1 (0.000-10.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.23
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.02
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.27
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.28
	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.10
C17-V1 (0.000-10.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.40
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.45
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.46
	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.04
C18-V1 (0.000-15.000)	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.54
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.03
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.73
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.76
	Doorbuigingstoetsing	Qu.C.1	NEN-EN NEN-EN1990/NB A1.4.2	0.49
C5-V1 (0.000-4.500)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.39
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.15
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.41
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.55
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.78
C6-V1 (0.000-6.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.35
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.37
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.38
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.34
C7-V1 (0.000-4.500)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.31)	0.30
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.24
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.29
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.52
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.77
C8-V1 (0.000-6.000)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.14
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.15
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.16
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.34
C9-V1 (0.000-4.500)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.25
	Stabiliteit	Fu.C.4	NEN-EN1993-1-1(6.46)	0.23
	Kiptoetsing	Fu.C.4	NEN-EN1993-1-1(6.54)	0.20
	Buiging & Druk	Fu.C.4	NEN-EN1993-1-1(6.61&6.62)	0.42
	Doorbuigingstoetsing	Ka.C.4	NEN-EN NEN-EN1990/NB A1.4.2	0.77

UC'S PER COMBINATIES

C5-V1 (0.000-4.500)										
Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.39	Fu.C.1	0.15	Fu.C.1	0.41	Fu.C.1	0.55	Ka.C.1	0.02	
Fu.C.2	0.30	Fu.C.2	0.11	Fu.C.2	0.31	Fu.C.2	0.42	Ka.C.2	0.07	
Fu.C.3	0.15	Fu.C.3	0.09	Fu.C.3	0.00	Fu.C.3	0.24	Ka.C.3	0.04	
Fu.C.4	0.39	Fu.C.4	0.11	Fu.C.4	0.41	Fu.C.4	0.51	Ka.C.4	0.78	
Fu.C.5	0.31	Fu.C.5	0.12	Fu.C.5	0.33	Fu.C.5	0.44	Ka.C.5	0.54	
C6-V1 (0.000-6.000)										
Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.35	Fu.C.1	0.01	Fu.C.1	0.37	Fu.C.1	0.38	Ka.C.1	0.12	
Fu.C.2	0.26	Fu.C.2	0.02	Fu.C.2	0.28	Fu.C.2	0.30	Ka.C.2	0.14	
Fu.C.3	0.16	Fu.C.3	0.01	Fu.C.3	0.18	Fu.C.3	0.18	Ka.C.3	0.15	
Fu.C.4	0.32	Fu.C.4	0.01	Fu.C.4	0.34	Fu.C.4	0.34	Ka.C.4	0.34	

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Fu.C.5 0.27 Fu.C.5 0.02 Fu.C.5 0.29 Fu.C.5 0.30 Ka.C.5 0.18

C7-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.26	Fu.C.1	0.35	Fu.C.1	0.10	Fu.C.1	0.44	Ka.C.1	0.02	
Fu.C.2	0.20	Fu.C.2	0.27	Fu.C.2	0.04	Fu.C.2	0.31	Ka.C.2	0.07	
Fu.C.3	0.30	Fu.C.3	0.24	Fu.C.3	0.29	Fu.C.3	0.52	Ka.C.3	0.04	
Fu.C.4	0.17	Fu.C.4	0.24	Fu.C.4	0.10	Fu.C.4	0.33	Ka.C.4	0.77	
Fu.C.5	0.20	Fu.C.5	0.28	Fu.C.5	0.07	Fu.C.5	0.34	Ka.C.5	0.54	

C8-V1 (0.000-6.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.11	Fu.C.1	0.03	Fu.C.1	0.11	Fu.C.1	0.14	Ka.C.1	0.12	
Fu.C.2	0.09	Fu.C.2	0.05	Fu.C.2	0.10	Fu.C.2	0.15	Ka.C.2	0.14	
Fu.C.3	0.14	Fu.C.3	0.01	Fu.C.3	0.15	Fu.C.3	0.16	Ka.C.3	0.14	
Fu.C.4	0.05	Fu.C.4	0.01	Fu.C.4	0.06	Fu.C.4	0.07	Ka.C.4	0.34	
Fu.C.5	0.09	Fu.C.5	0.03	Fu.C.5	0.09	Fu.C.5	0.13	Ka.C.5	0.18	

C9-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.25	Fu.C.1	0.33	Fu.C.1	0.04	Fu.C.1	0.37	Ka.C.1	0.02	
Fu.C.2	0.19	Fu.C.2	0.26	Fu.C.2	0.06	Fu.C.2	0.31	Ka.C.2	0.07	
Fu.C.3	0.20	Fu.C.3	0.23	Fu.C.3	0.20	Fu.C.3	0.41	Ka.C.3	0.04	
Fu.C.4	0.20	Fu.C.4	0.23	Fu.C.4	0.20	Fu.C.4	0.42	Ka.C.4	0.77	
Fu.C.5	0.20	Fu.C.5	0.27	Fu.C.5	0.04	Fu.C.5	0.30	Ka.C.5	0.54	

C10-V1 (0.000-6.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.05	Fu.C.1	0.03	Fu.C.1	0.05	Fu.C.1	0.08	Ka.C.1	0.11	
Fu.C.2	0.06	Fu.C.2	0.05	Fu.C.2	0.06	Fu.C.2	0.11	Ka.C.2	0.14	
Fu.C.3	0.10	Fu.C.3	0.01	Fu.C.3	0.10	Fu.C.3	0.11	Ka.C.3	0.14	
Fu.C.4	0.08	Fu.C.4	0.01	Fu.C.4	0.09	Fu.C.4	0.10	Ka.C.4	0.34	
Fu.C.5	0.05	Fu.C.5	0.03	Fu.C.5	0.05	Fu.C.5	0.08	Ka.C.5	0.18	

C11-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.24	Fu.C.1	0.27	Fu.C.1	0.23	Fu.C.1	0.48	Ka.C.1	0.02	
Fu.C.2	0.16	Fu.C.2	0.22	Fu.C.2	0.15	Fu.C.2	0.36	Ka.C.2	0.07	
Fu.C.3	0.33	Fu.C.3	0.19	Fu.C.3	0.34	Fu.C.3	0.51	Ka.C.3	0.04	
Fu.C.4	0.13	Fu.C.4	0.17	Fu.C.4	0.02	Fu.C.4	0.19	Ka.C.4	0.77	
Fu.C.5	0.17	Fu.C.5	0.22	Fu.C.5	0.17	Fu.C.5	0.38	Ka.C.5	0.54	

C12-V1 (0.000-6.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.15	Fu.C.1	0.04	Fu.C.1	0.17	Fu.C.1	0.21	Ka.C.1	0.11	
Fu.C.2	0.13	Fu.C.2	0.07	Fu.C.2	0.14	Fu.C.2	0.21	Ka.C.2	0.13	
Fu.C.3	0.15	Fu.C.3	0.02	Fu.C.3	0.16	Fu.C.3	0.18	Ka.C.3	0.14	
Fu.C.4	0.07	Fu.C.4	0.01	Fu.C.4	0.08	Fu.C.4	0.09	Ka.C.4	0.34	
Fu.C.5	0.11	Fu.C.5	0.05	Fu.C.5	0.12	Fu.C.5	0.17	Ka.C.5	0.19	

C13-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid	
Fu.C.1	0.07	Fu.C.1	0.02	Fu.C.1	0.00	Fu.C.1	0.09	Ka.C.1	0.48		
Fu.C.2	0.10	Fu.C.2	0.03	Fu.C.2	0.00	Fu.C.2	0.13	Ka.C.2	0.52		
Fu.C.3	0.15	Fu.C.3	0.01	Fu.C.3	0.00	Fu.C.3	0.17	Ka.C.3	0.69		
Fu.C.4	0.12	Fu.C.4	0.01	Fu.C.4	0.00	Fu.C.4	0.13	Ka.C.4	0.99		
Fu.C.5	0.07	Fu.C.5	0.02	Fu.C.5	0.00	Fu.C.5	0.09	Ka.C.5	0.55		

C14-V1 (0.000-6.000)

014-V1 (0.000-0.000)											
Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid	
Fu.C.1	0.19	Fu.C.1	0.02	Fu.C.1	0.21	Fu.C.1	0.23	Ka.C.1	0.23		
Fu.C.2	0.31	Fu.C.2	0.03	Fu.C.2	0.34	Fu.C.2	0.37	Ka.C.2	0.20		
Fu.C.3	0.12	Fu.C.3	0.01	Fu.C.3	0.14	Fu.C.3	0.15	Ka.C.3	0.42		

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Fu.C.4	0.10	Fu.C.4	0.01	Fu.C.4	0.11	Fu.C.4	0.12	Ka.C.4	0.18
Fu.C.5	0.21	Fu.C.5	0.02	Fu.C.5	0.23	Fu.C.5	0.25	Ka.C.5	0.19

C15-V1 (0.000-10.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.16	Fu.C.1	0.03	Fu.C.1	0.18	Fu.C.1	0.21	Fr.C.1	0.02	
Fu.C.2	0.28	Fu.C.2	0.03	Fu.C.2	0.32	Fu.C.2	0.34	Fr.C.2	0.01	
Fu.C.3	0.09	Fu.C.3	0.03	Fu.C.3	0.11	Fu.C.3	0.14	Fr.C.3	0.03	
Fu.C.4	0.11	Fu.C.4	0.02	Fu.C.4	0.13	Fu.C.4	0.15	Fr.C.4	0.03	
Fu.C.5	0.18	Fu.C.5	0.03	Fu.C.5	0.21	Fu.C.5	0.23	Qu.C.1	0.08	

C16-V1 (0.000-10.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.14	Fu.C.1	0.02	Fu.C.1	0.17	Fu.C.1	0.19	Fr.C.1	0.01	
Fu.C.2	0.23	Fu.C.2	0.02	Fu.C.2	0.27	Fu.C.2	0.28	Fr.C.2	0.02	
Fu.C.3	0.10	Fu.C.3	0.02	Fu.C.3	0.11	Fu.C.3	0.13	Fr.C.3	0.01	
Fu.C.4	0.08	Fu.C.4	0.02	Fu.C.4	0.09	Fu.C.4	0.11	Fr.C.4	0.01	
Fu.C.5	0.16	Fu.C.5	0.02	Fu.C.5	0.18	Fu.C.5	0.20	Qu.C.1	0.10	

C17-V1 (0.000-10.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.25	Fu.C.1	0.02	Fu.C.1	0.29	Fu.C.1	0.31	Fr.C.1	0.01	
Fu.C.2	0.40	Fu.C.2	0.01	Fu.C.2	0.45	Fu.C.2	0.46	Fr.C.2	0.01	
Fu.C.3	0.15	Fu.C.3	0.00	Fu.C.3	0.17	Fu.C.3	0.18	Fr.C.3	0.01	
Fu.C.4	0.08	Fu.C.4	0.03	Fu.C.4	0.09	Fu.C.4	0.12	Fr.C.4	0.01	
Fu.C.5	0.27	Fu.C.5	0.01	Fu.C.5	0.31	Fu.C.5	0.32	Qu.C.1	0.04	

C18-V1 (0.000-15.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.30	Fu.C.1	0.02	Fu.C.1	0.41	Fu.C.1	0.43	Fr.C.1	0.01	
Fu.C.2	0.54	Fu.C.2	0.03	Fu.C.2	0.73	Fu.C.2	0.76	Fr.C.2	0.07	
Fu.C.3	0.10	Fu.C.4	0.06	Fu.C.3	0.16	Fu.C.4	0.21	Fr.C.3	0.05	
Fu.C.4	0.12	Fu.C.5	0.02	Fu.C.4	0.15	Fu.C.5	0.50	Fr.C.4	0.07	
Fu.C.5	0.35			Fu.C.5	0.48			Qu.C.1	0.49	

GEWICHT STAALCONSTRUCTIE

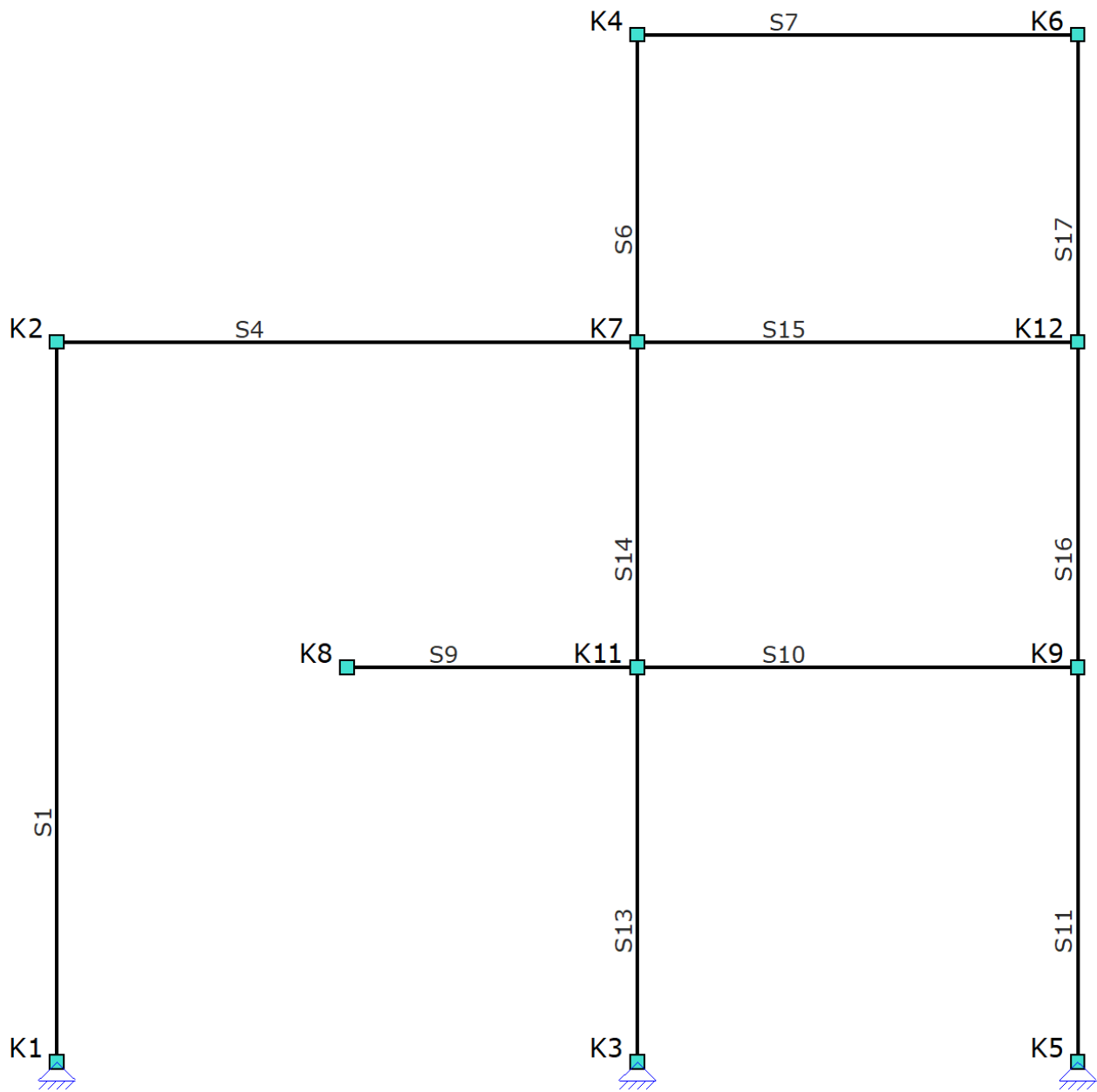
Staaf	Profiel	Lengte	Massa
C5-V1 (0.000-4.500)	HE280B	4.500	464.04
C6-V1 (0.000-6.000)	HE280B	6.000	618.73
C7-V1 (0.000-4.500)	HE280B	4.500	464.04
C8-V1 (0.000-6.000)	HE280B	6.000	618.73
C9-V1 (0.000-4.500)	HE280B	4.500	464.04
C10-V1 (0.000-6.000)	HE280B	6.000	618.73
C11-V1 (0.000-4.500)	HE280B	4.500	464.04
C12-V1 (0.000-6.000)	HE280B	6.000	618.73
C13-V1 (0.000-4.500)	HE280B	4.500	464.04
C14-V1 (0.000-6.000)	HE280B	6.000	618.73
Subtotaal	HE280B	52.500	5413.86

C15-V1 (0.000-10.000)	HE300A	10.000	883.34
C16-V1 (0.000-10.000)	HE300A	10.000	883.34
C17-V1 (0.000-10.000)	HE300A	10.000	883.34
C18-V1 (0.000-15.000)	HE300A	15.000	1325.01
Subtotaal	HE300A	45.000	3975.04

Totaal		97.500	9388.90
		m	kg

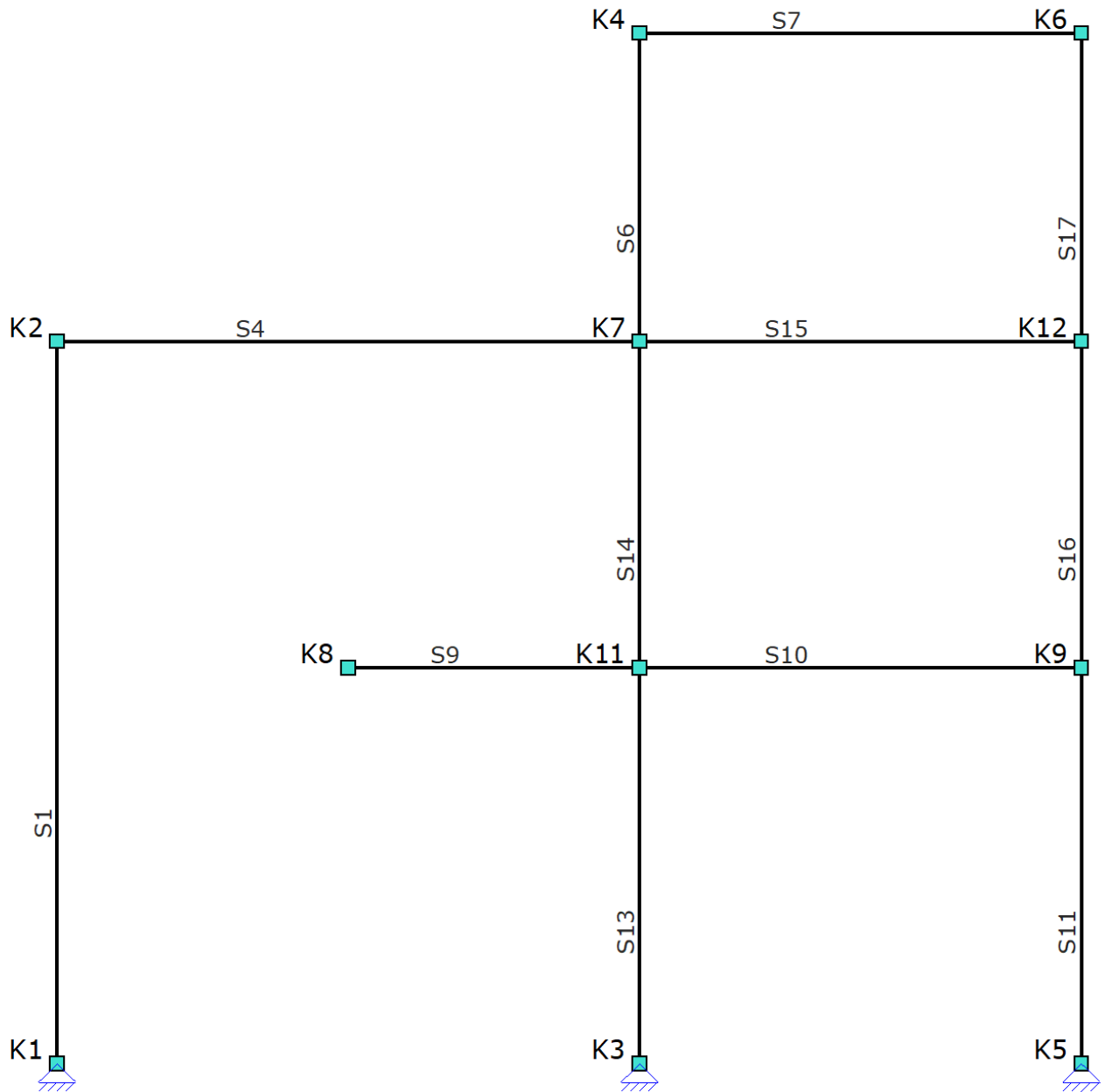
Projectomschrijving		Projectnummer	
Onderdeel		Constructeur	
Opdrachtgever		Eenheden	m, mm, kN, kNm
Bestand		C:\Users\awnis\Desktop\Matrix\Heinenoord Entree gedeelte.mxf	

Constructiegegevens



CONSTRUCTIEGEGEVENS

Projecttype	Knopen	Staven	Opleggingen	Profielen	Belastingsgevallen	Belastingscombinaties
2D-Raamwerk	11	12	3	2	3	12

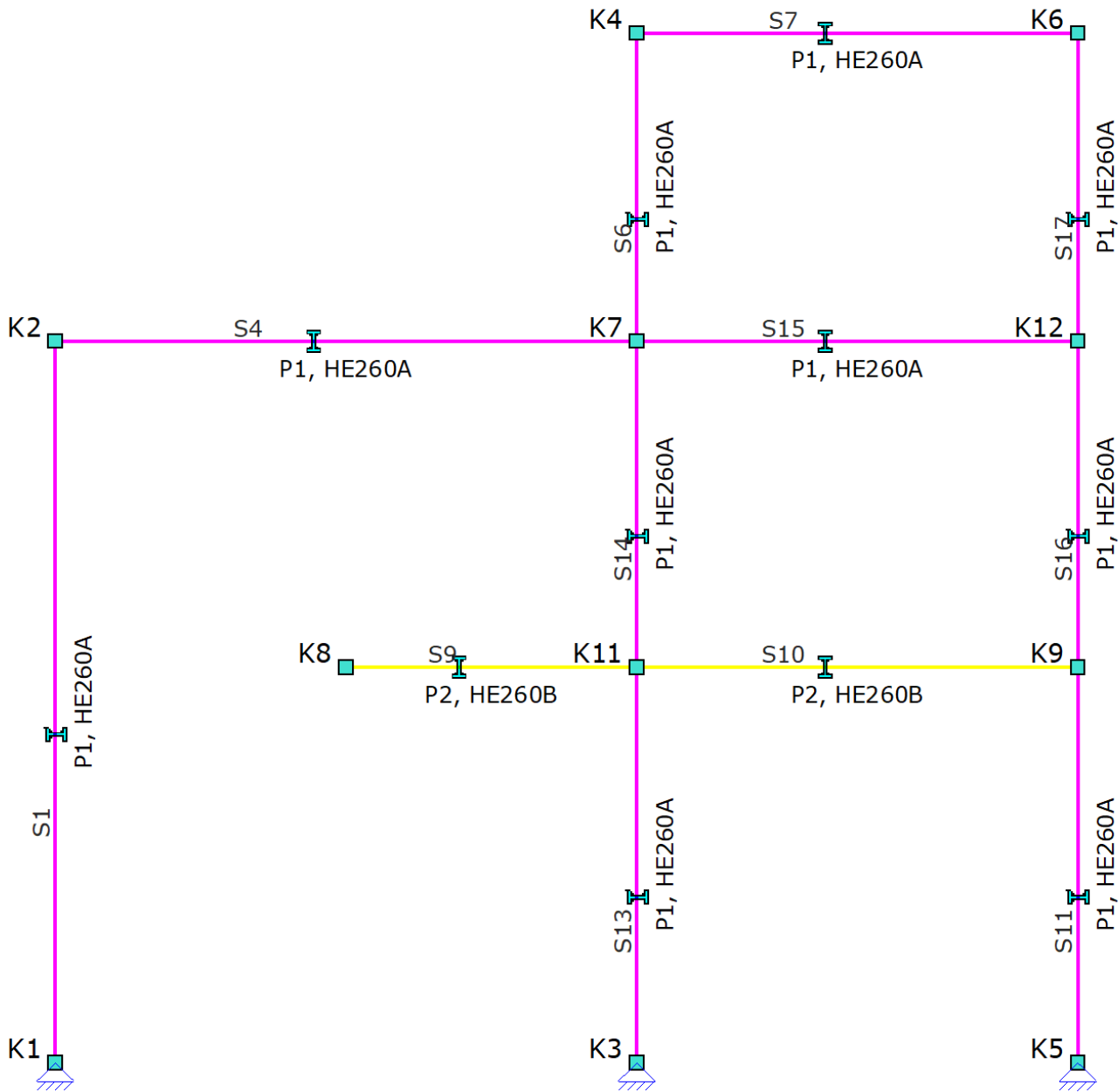
**STAVEN**

Staaf	Knoop-B	Knoop-E	X-B	X-E	Z-B	Z-E	Lengthe	Profiel	Positie
S1	K1	K2	0.000	0.000	0.000	-8.200	8.200	P1	0.000 - 8.200 (L)
S4	K2	K7	0.000	6.600	-8.200	-8.200	6.600	P1	0.000 - 6.600 (L)
S6	K7	K4	6.600	6.600	-8.200	-11.700	3.500	P1	0.000 - 3.500 (L)
S7	K4	K6	6.600	11.600	-11.700	-11.700	5.000	P1	0.000 - 5.000 (L)
S9	K8	K11	3.300	6.600	-4.500	-4.500	3.300	P2	0.000 - 3.300 (L)
S10	K11	K9	6.600	11.600	-4.500	-4.500	5.000	P2	0.000 - 5.000 (L)
S11	K5	K9	11.600	11.600	0.000	-4.500	4.500	P1	0.000 - 4.500 (L)
S13	K3	K11	6.600	6.600	0.000	-4.500	4.500	P1	0.000 - 4.500 (L)
S14	K11	K7	6.600	6.600	-4.500	-8.200	3.700	P1	0.000 - 3.700 (L)
S15	K7	K12	6.600	11.600	-8.200	-8.200	5.000	P1	0.000 - 5.000 (L)

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Staaf	Knoop-B	Knoop-E	X-B	X-E	Z-B	Z-E	Lengte	Profiel	Positie
S16	K9	K12	11.600	11.600	-4.500	-8.200	3.700	P1	0.000 - 3.700 (L)
S17	K12	K6	11.600	11.600	-8.200	-11.700	3.500	P1	0.000 - 3.500 (L)
			m	m	m	m	m		m

Profielen



PROFIELEN

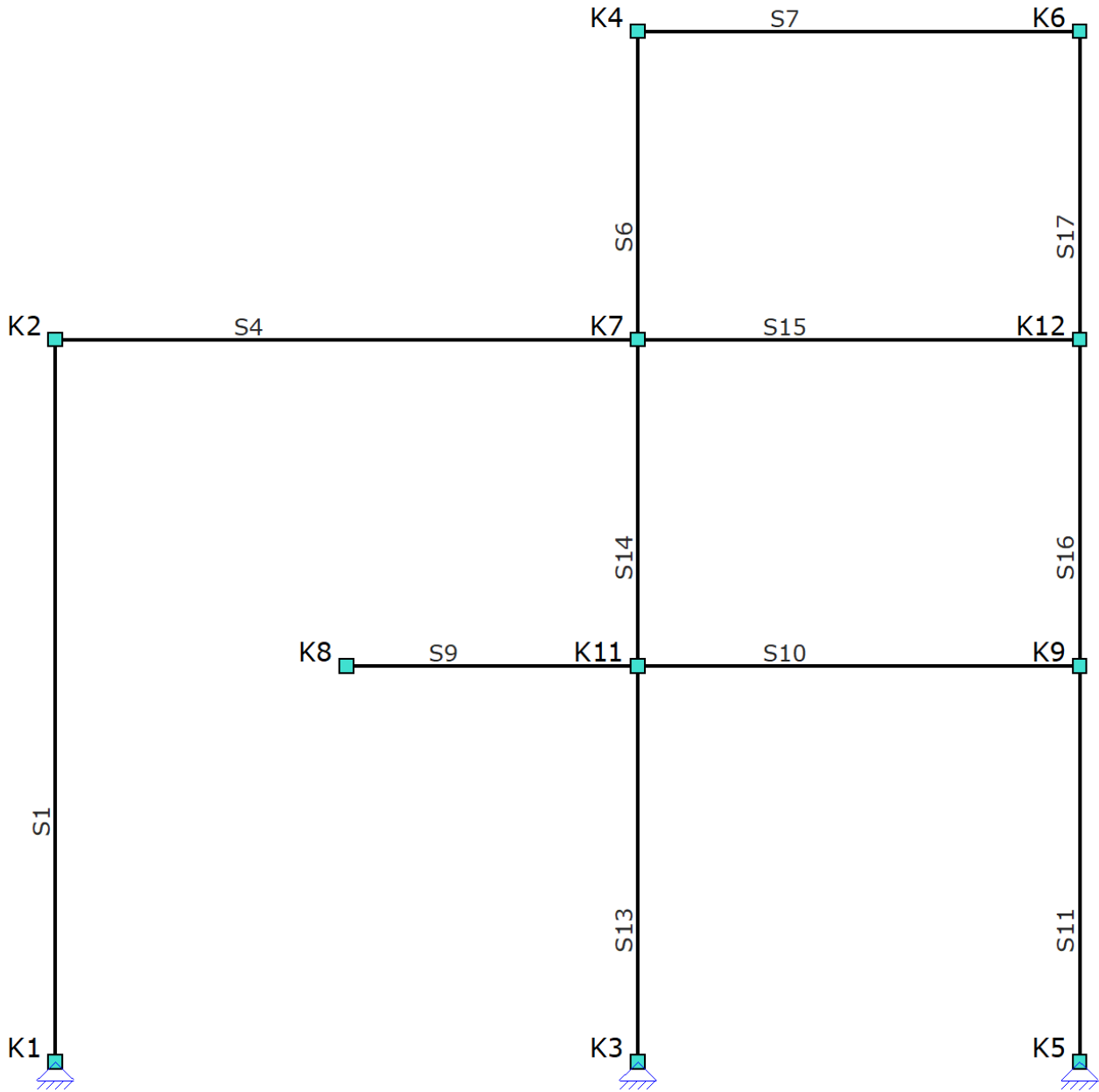
Profiel	Profielnaam	Oppervlakte	Iy	Materiaal	Hoek
P1	HE260A	8682	1.0455e+08	S235	0
P2	HE260B	11844	1.4919e+08	S235	0
		mm ²	mm ⁴		°

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MATERIALEN

Materiaalnaam	Poison	Dichtheid	E-Modulus	Uitzettingcoeff
S235	0.30	78.50	2.1000e+05	12.0000e-06
		kN/m³	N/mm²	C°m

Randvoorwaarden

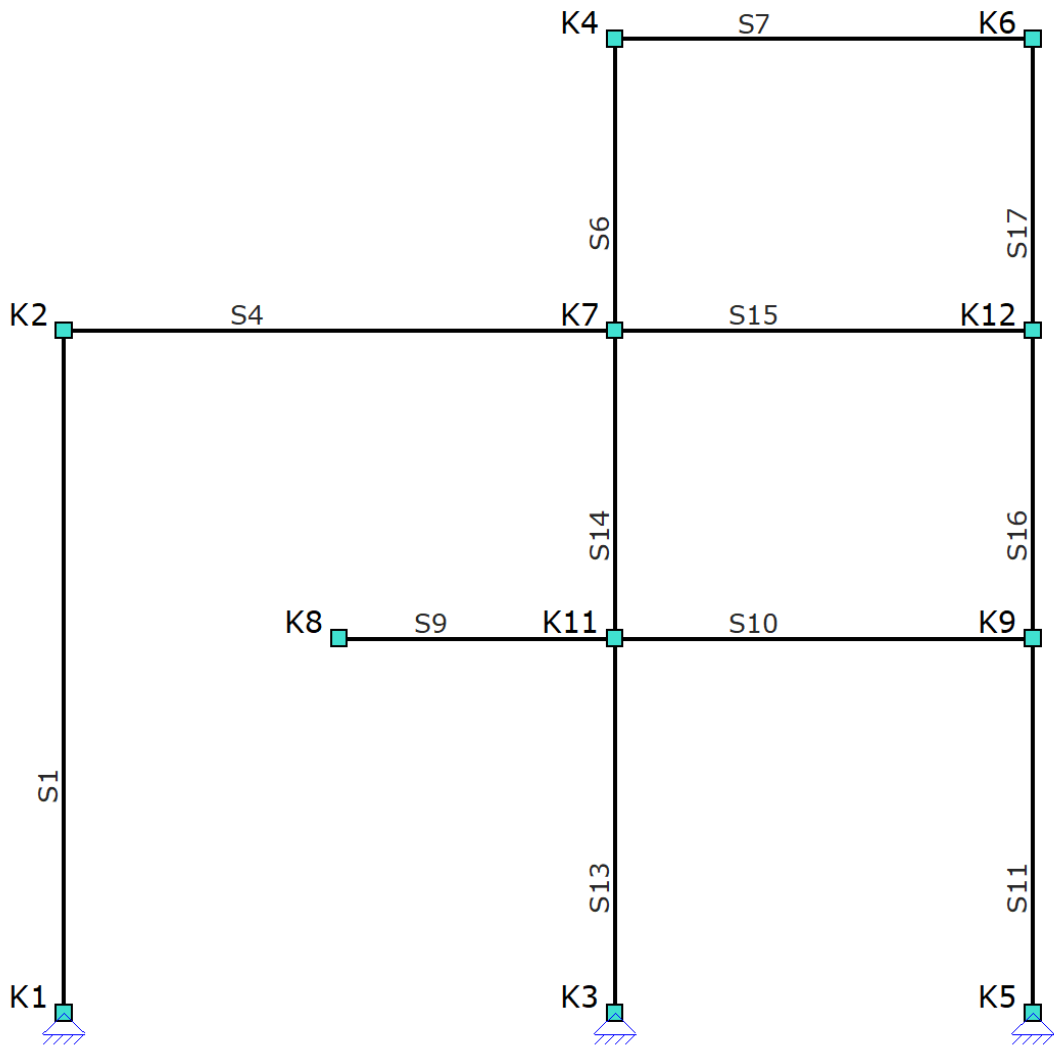


OPLEGGINGEN

Oplegging	Object	Positie	X	Z	Yr	Hoek	Yr
O1	K1	K1	Vast	Vast	Vrij	0	
O2	K3	K3	Vast	Vast	Vrij	0	
O3	K5	K5	Vast	Vast	Vrij	0	
			m	kN/m	kN/m	rad	°

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B.G.1: Permanent

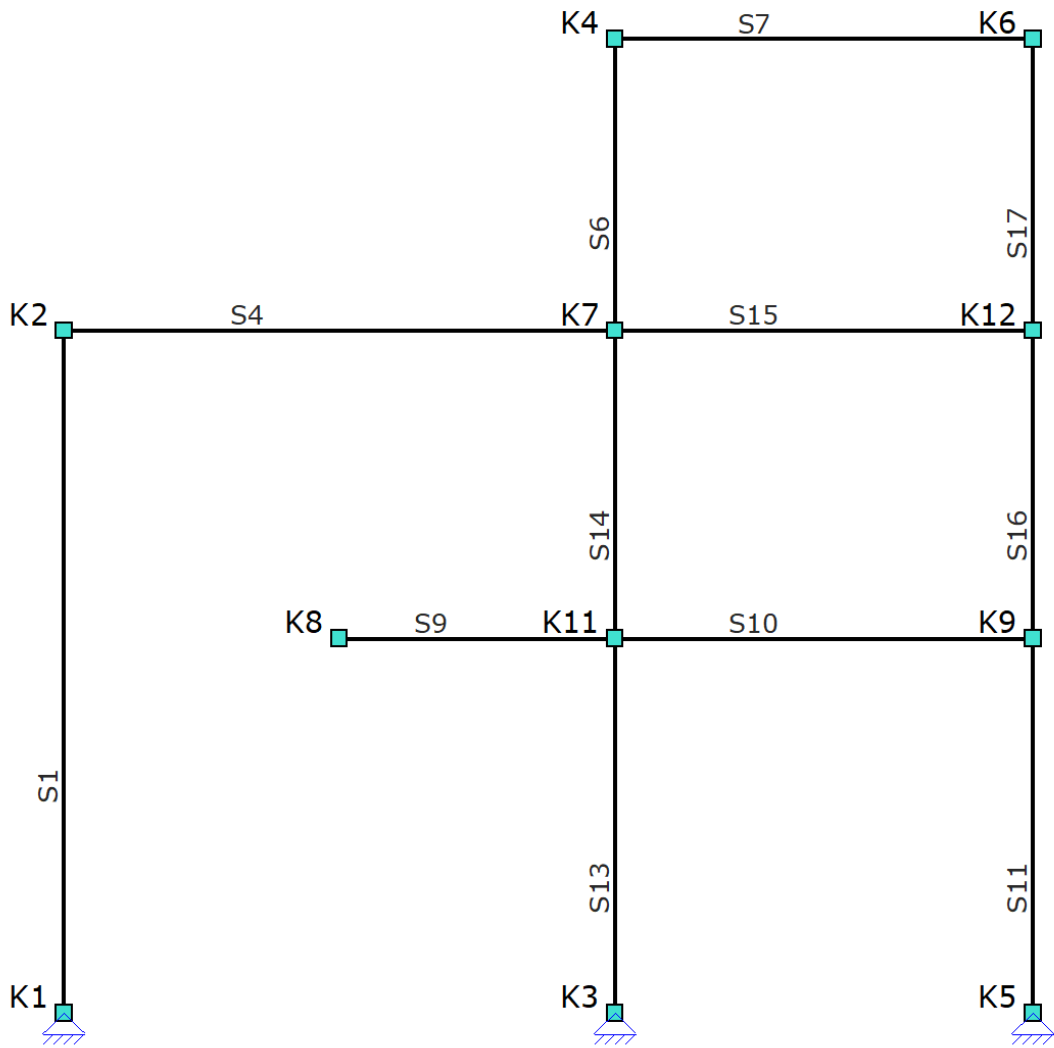


B.G.1: PERMANENT

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staat of knoop	Omschrijving
q	5.000	5.000	0.000	5.000 (L)	Z'	S7	
q	28.500	28.500	0.000	L	Z'	S4,S9-S10,S15	
Som lasten		Z: 592.150					
			m	m			

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B.G.2: Verdeelde veranderlijke belasting

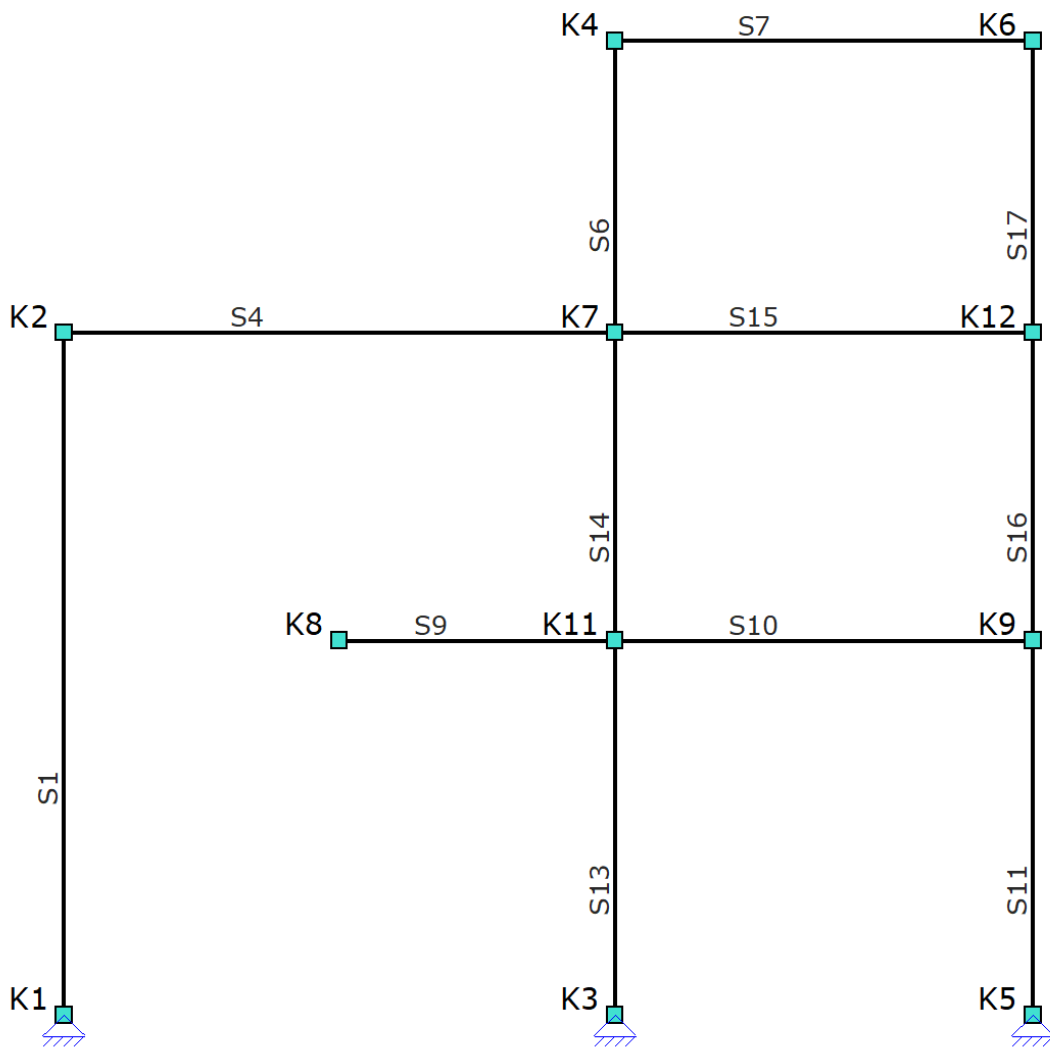


B.G.2: VERDEELDE VERANDERLIJKE BELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staaf of knoop	Omschrijving
q	12.500	12.500	0.000	L	Z'	S9-S10,S15	
Som lasten		Z: 166.250 Yr: 0.000					
			m	m			

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B.G.3: Sneeuwbelasting



B.G.3: SNEEUWBELASTING

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staaf of knoop	Omschrijving
q	2.800	2.800	0.000	5.000 (L)	Z'	S7	
Som lasten		Z: 14.000					
			m	m			

BELASTINGSCOMBINATIES

Fundamenteel

B.G.	Omschrijving	Fu.C.1	Fu.C.2	Fu.C.3
B.G.1	Permanent	1.08	1.08	1.22
B.G.2	Verdeelde veranderlijk...	1.35	0.54	0.54
B.G.3	Sneeuwbelasting		1.35	

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Karakteristiek

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2	Ka.C.3
B.G.1	Permanent	1.00	1.00	1.00	1.00
B.G.2	Verdeelde veranderlijk...		0.40	1.00	0.40
B.G.3	Sneeuwbelasting				1.00

Quasi-permanent

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Verdeelde veranderlijk...	0.30
B.G.3	Sneeuwbelasting	

BELASTINGSCOMBINATIES

Fundamenteel

$$Fu.C.1 = 1.08 \cdot B.G.1 + 1.35 \cdot B.G.2$$

$$Fu.C.2 = 1.08 \cdot B.G.1 + 0.54 \cdot B.G.2 + 1.35 \cdot B.G.3$$

$$Fu.C.3 = 1.22 \cdot B.G.1 + 0.54 \cdot B.G.2$$

Karakteristiek

$$Ka.C.(w1) = B.G.1$$

$$Ka.C.1 = B.G.1 + 0.40 \cdot B.G.2$$

$$Ka.C.2 = B.G.1 + B.G.2$$

$$Ka.C.3 = B.G.1 + 0.40 \cdot B.G.2 + B.G.3$$

Quasi-permanent

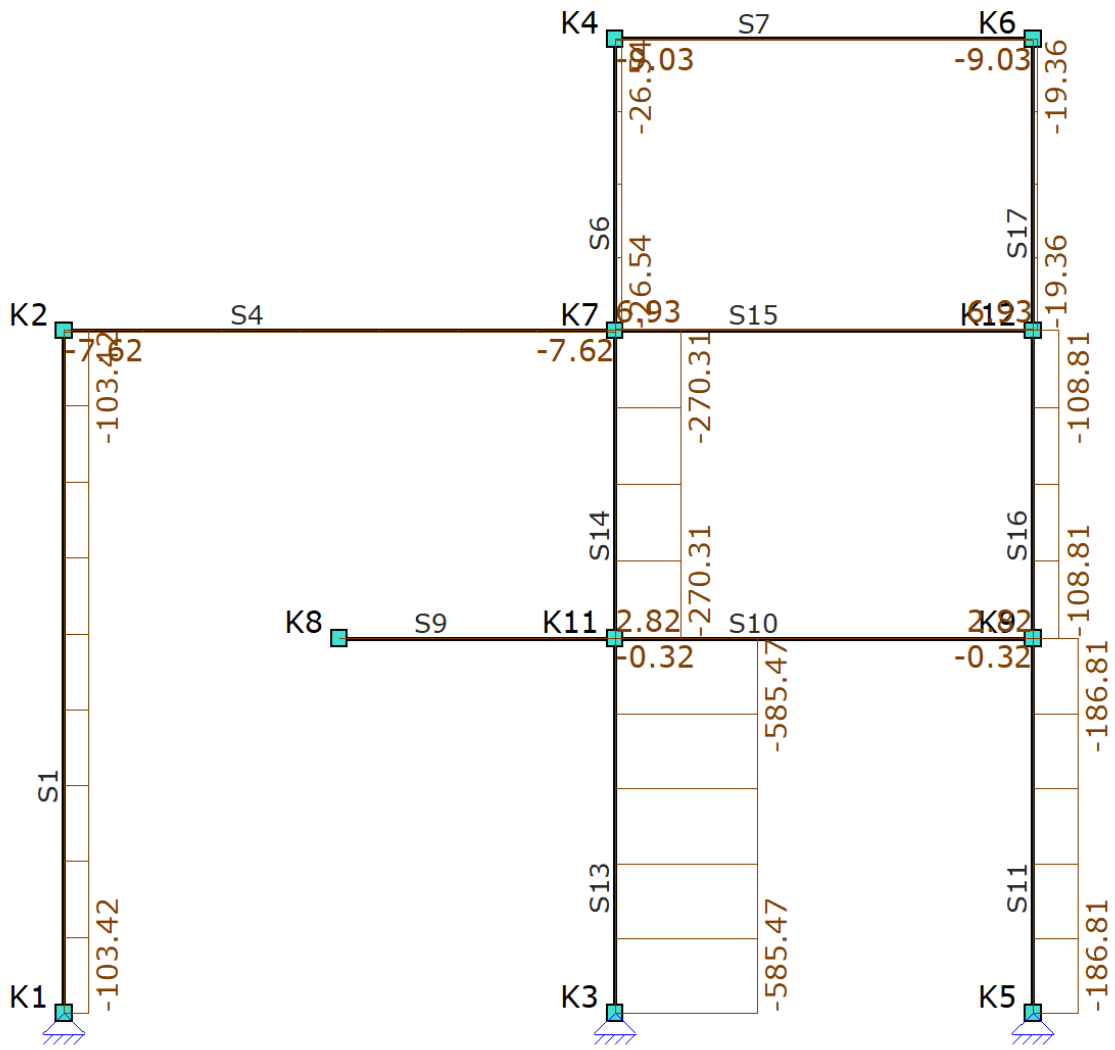
$$Qu.C.1 = B.G.1 + 0.30 \cdot B.G.2$$

UITGANGSPUNTEN VAN DE ANALYSE

Lineaire Elastische Analyse uitgevoerd

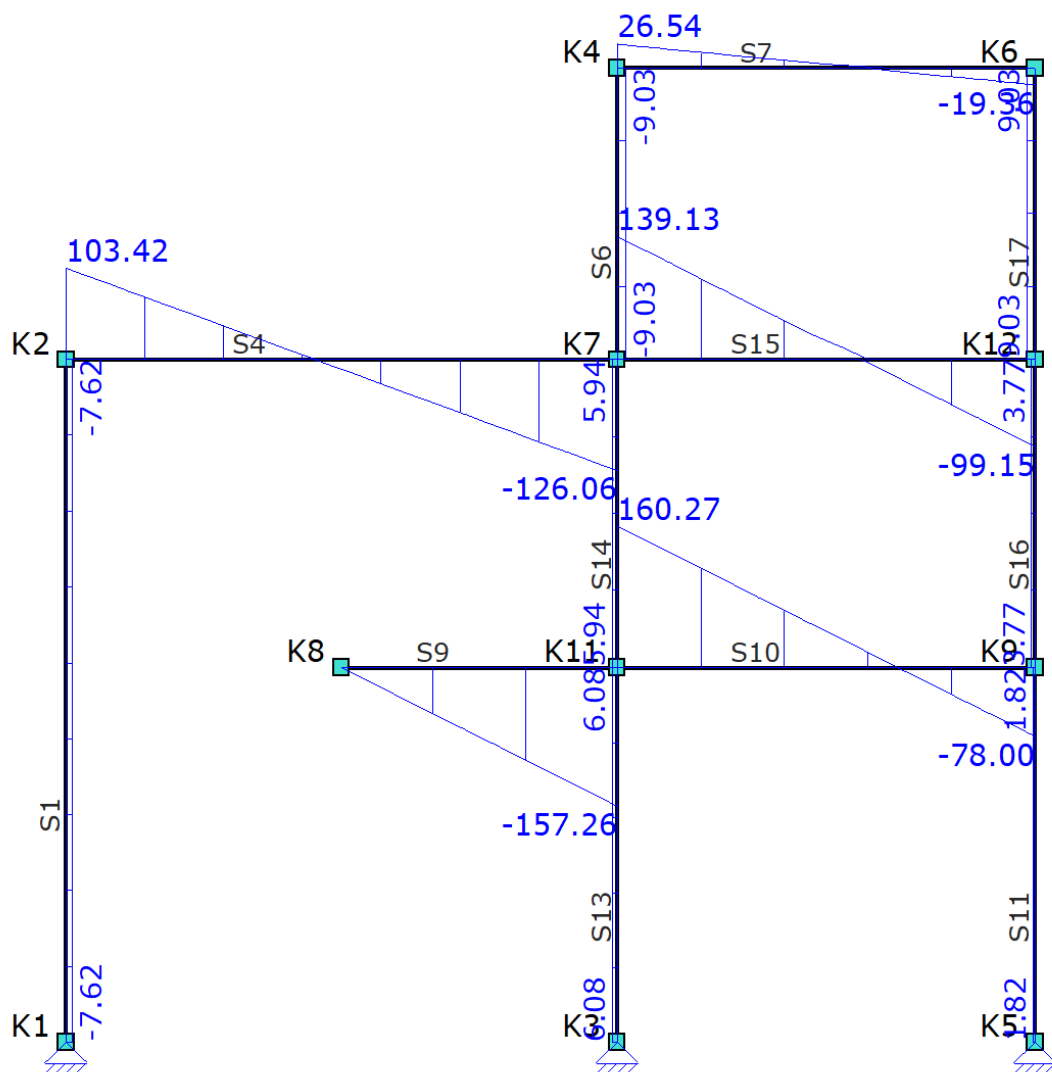
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Fu.C. Omhullende Normaalkracht (Nk)



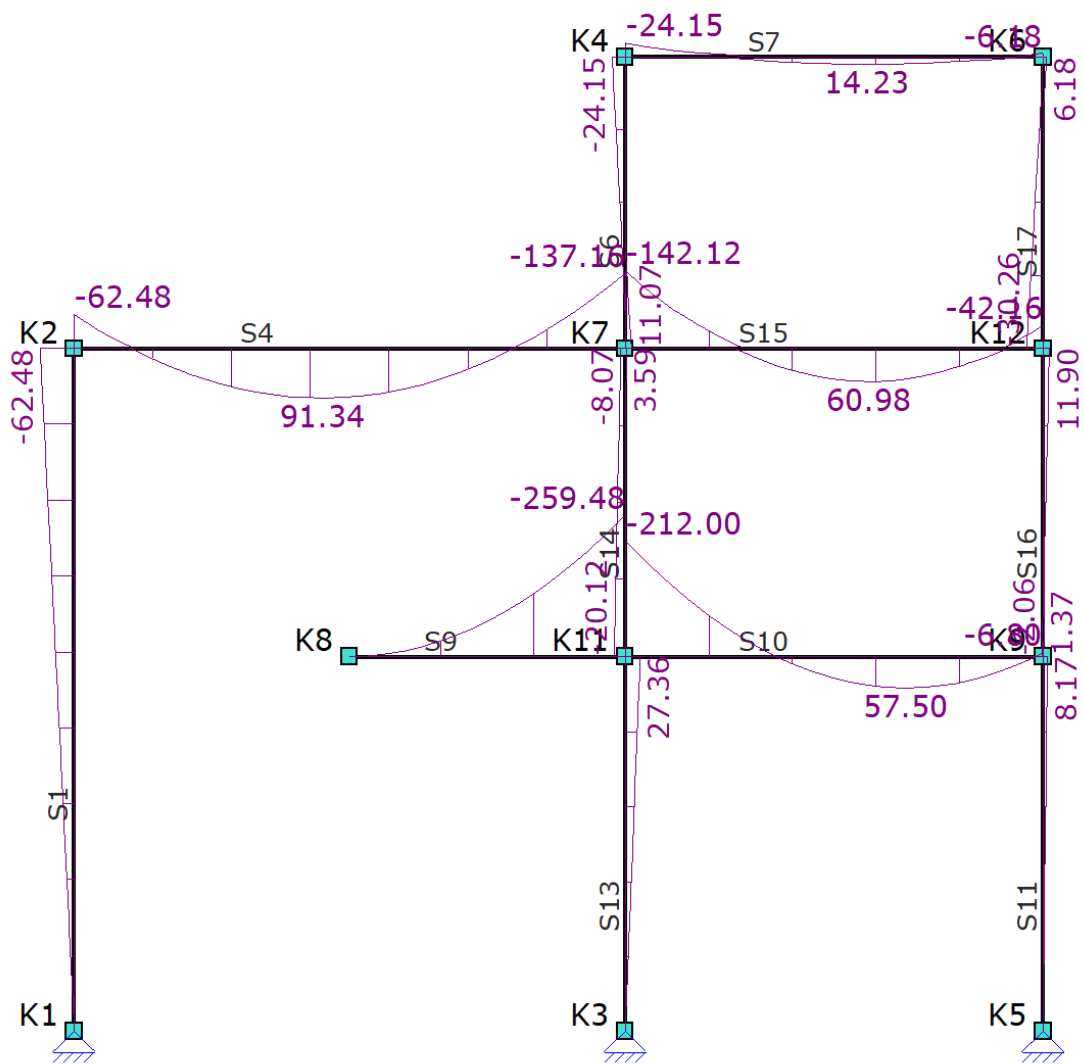
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Fu.C. Omhullende Dwarskracht (Vz)



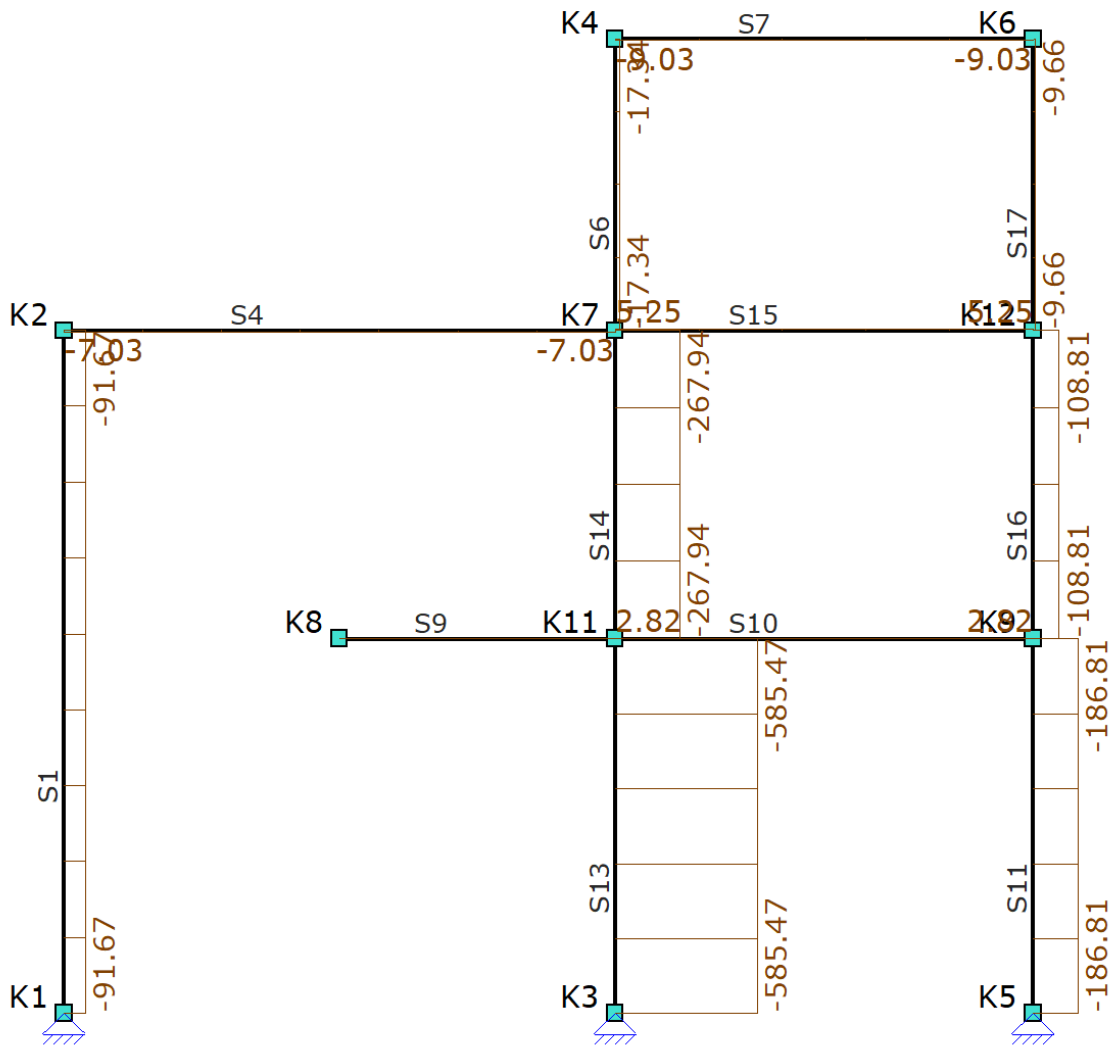
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Fu.C. Omhullende Momenten (My)



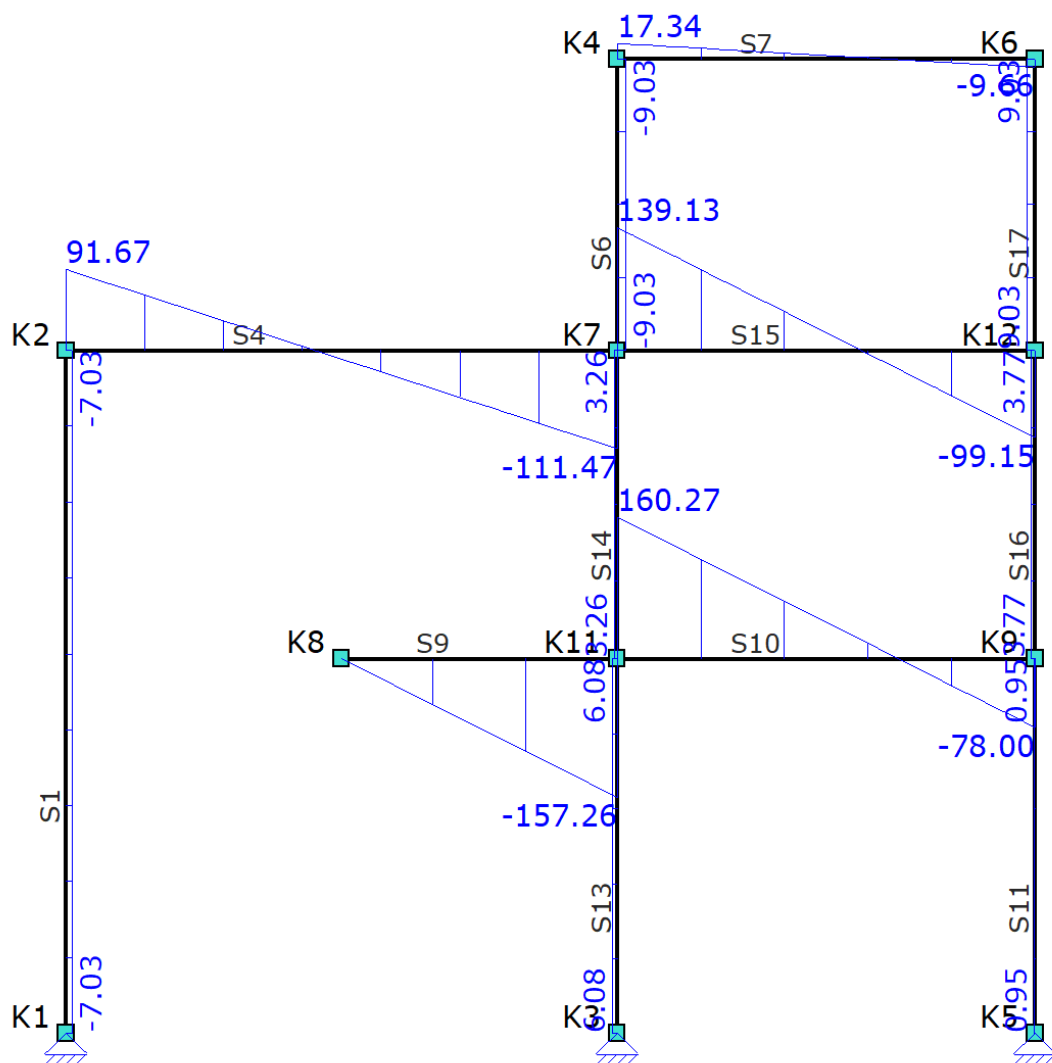
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Fu.C.1 Normaalkracht (Nx)



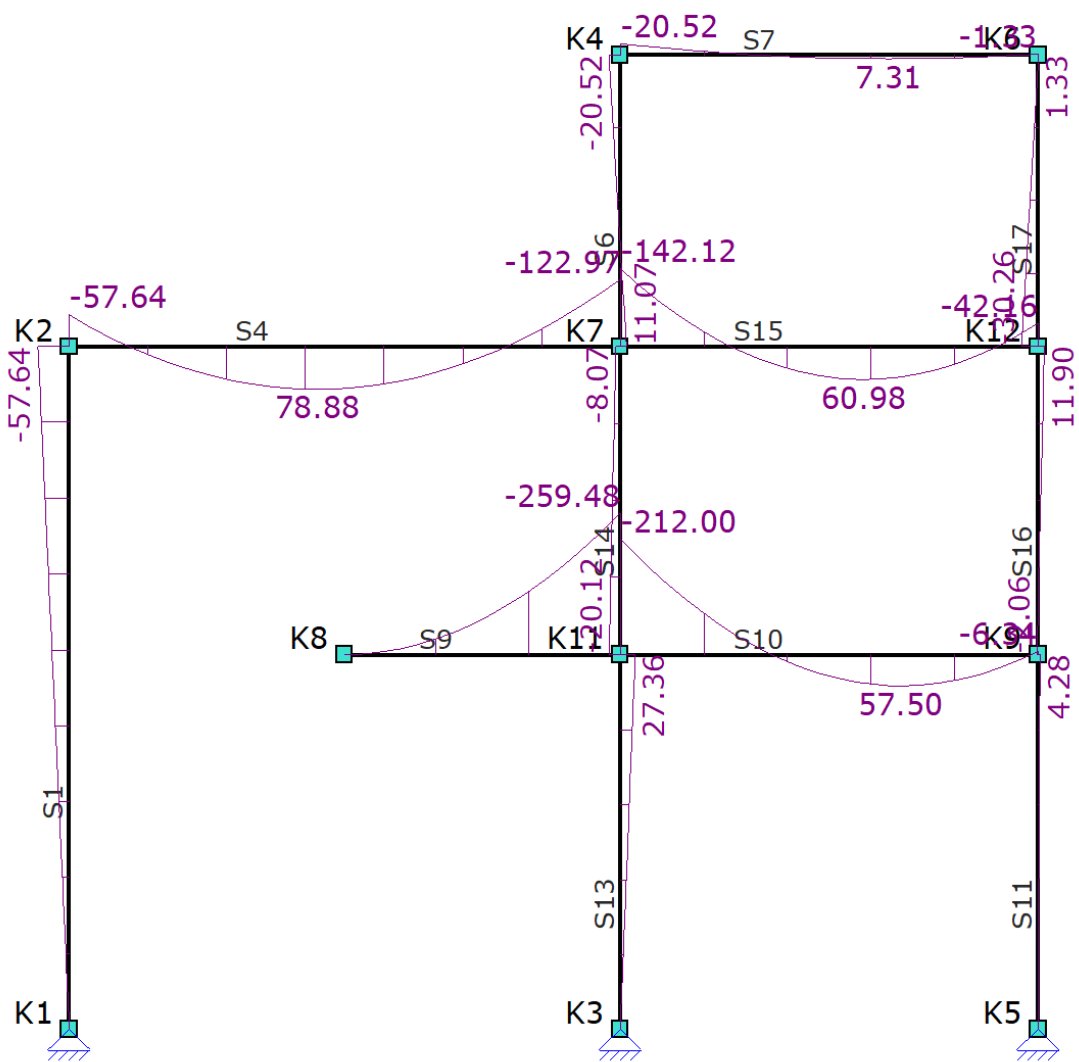
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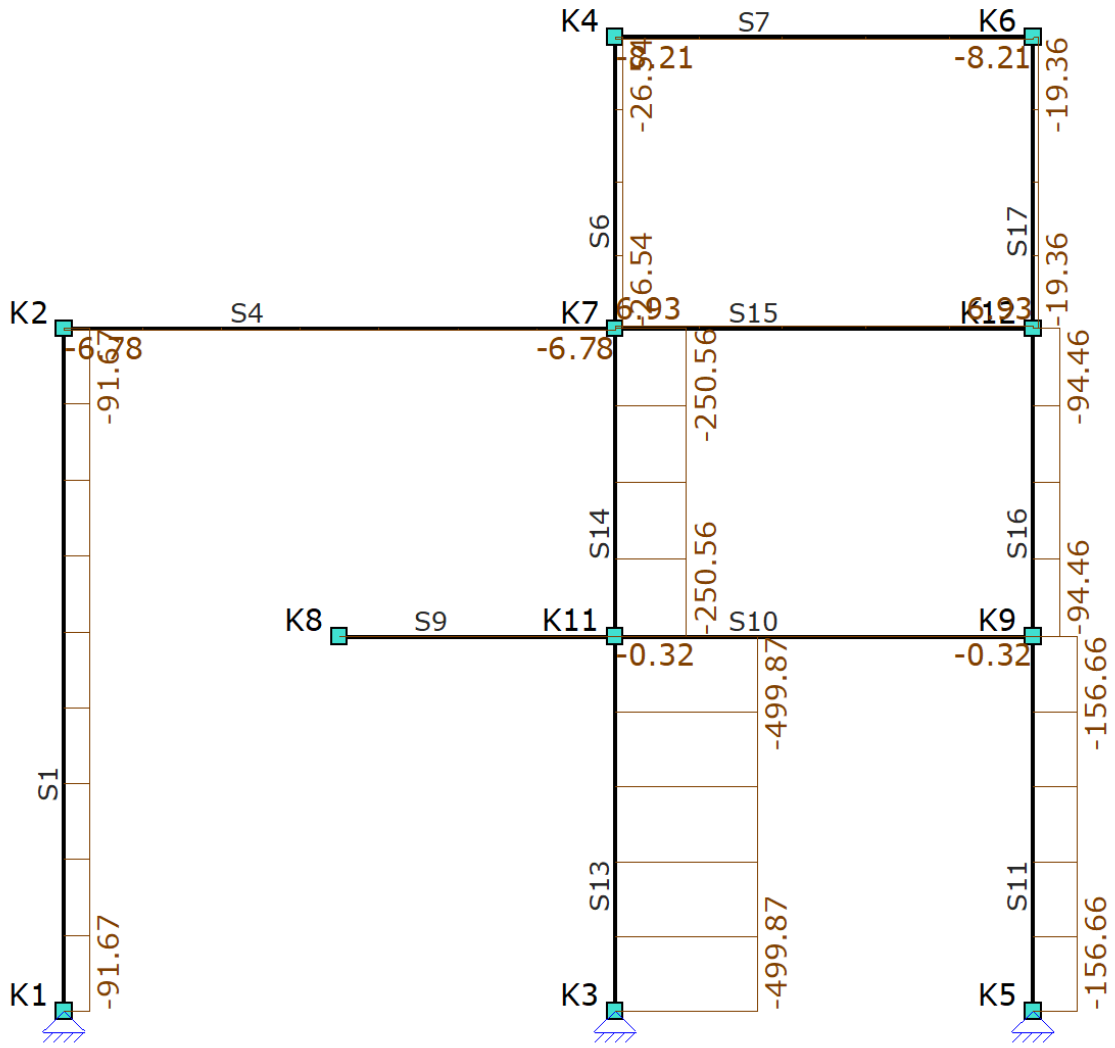
Fu.C.1 Dwarskracht (Vz)



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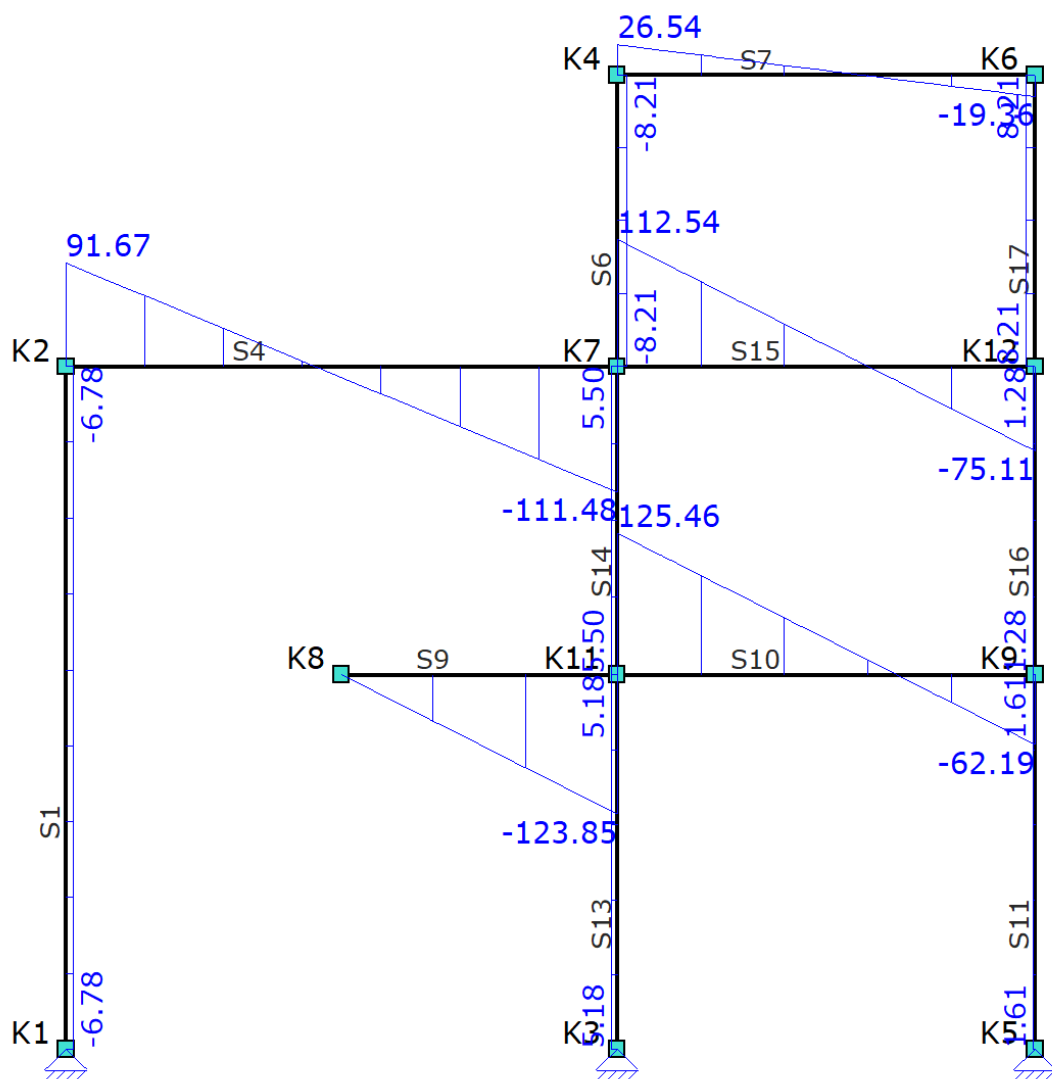
Fu.C.1 Momenten (My)





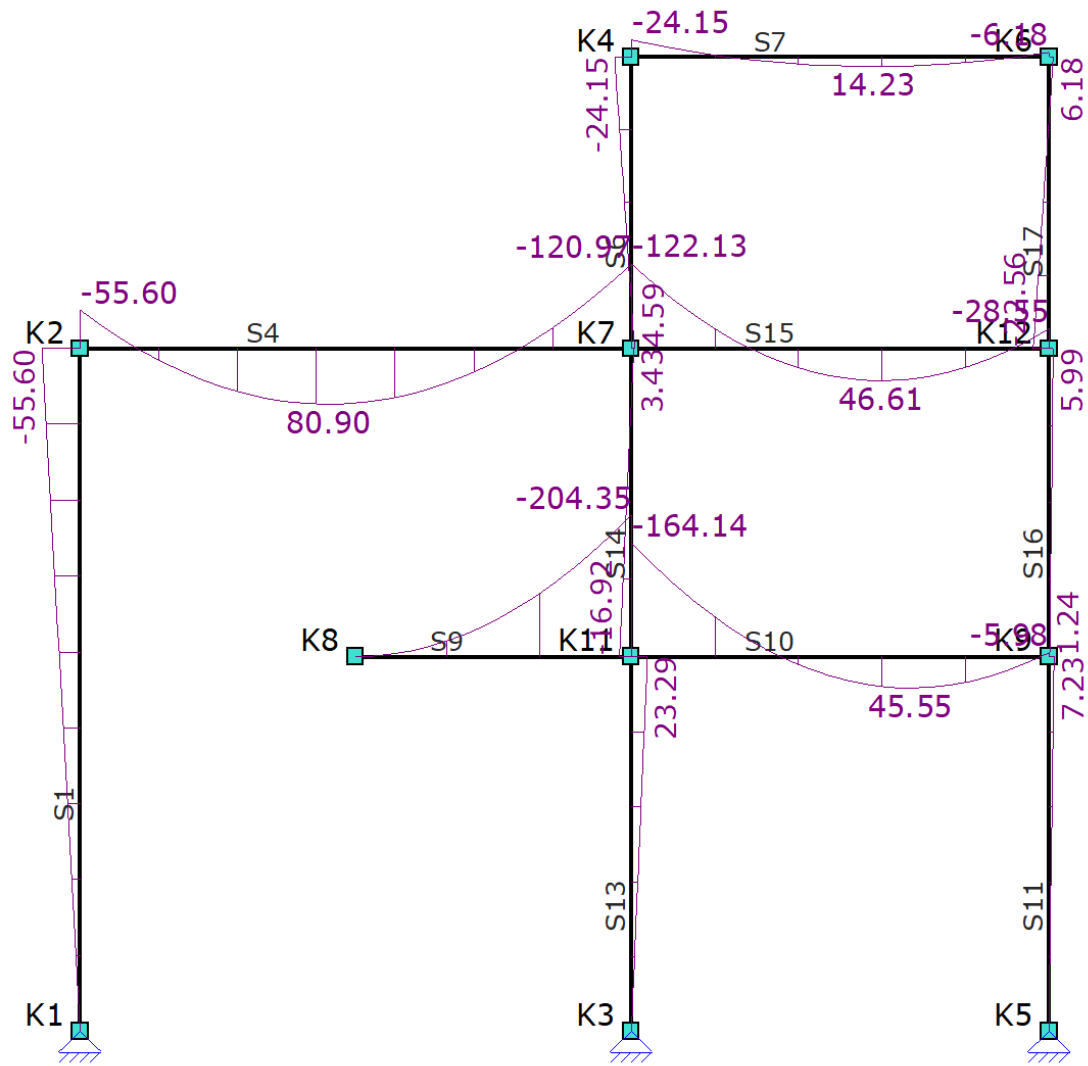
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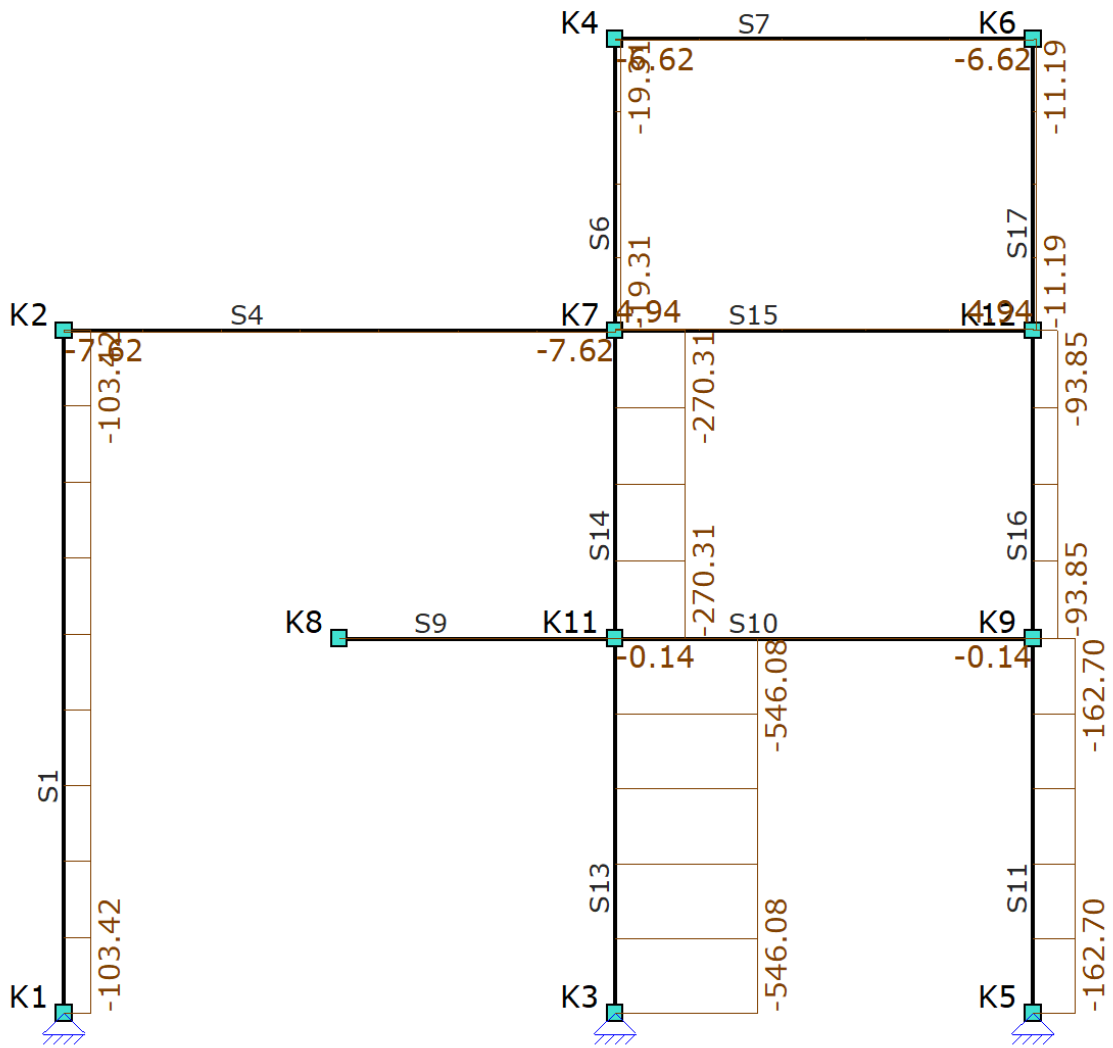
Fu.C.2 Dwarskracht (Vz)



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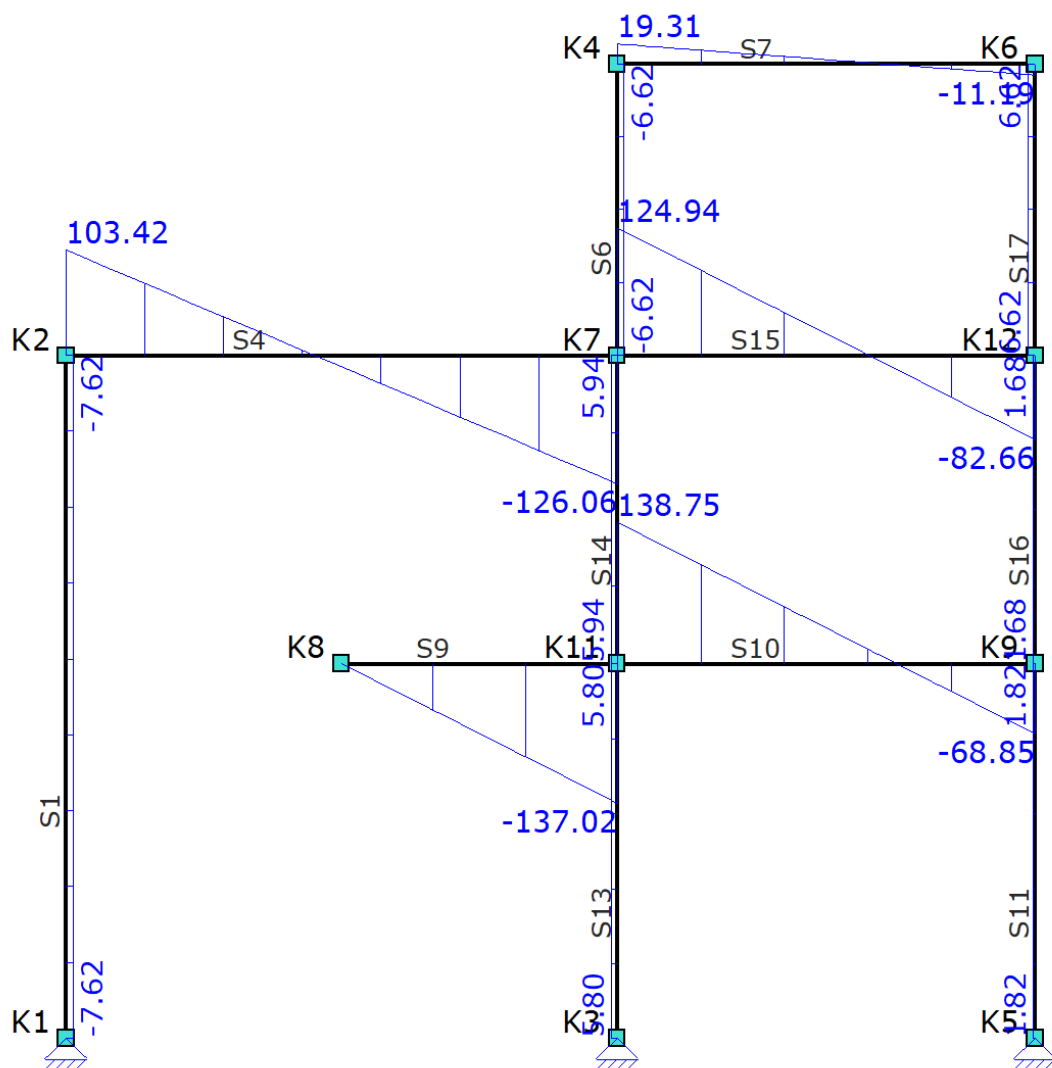
Fu.C.2 Momenten (My)

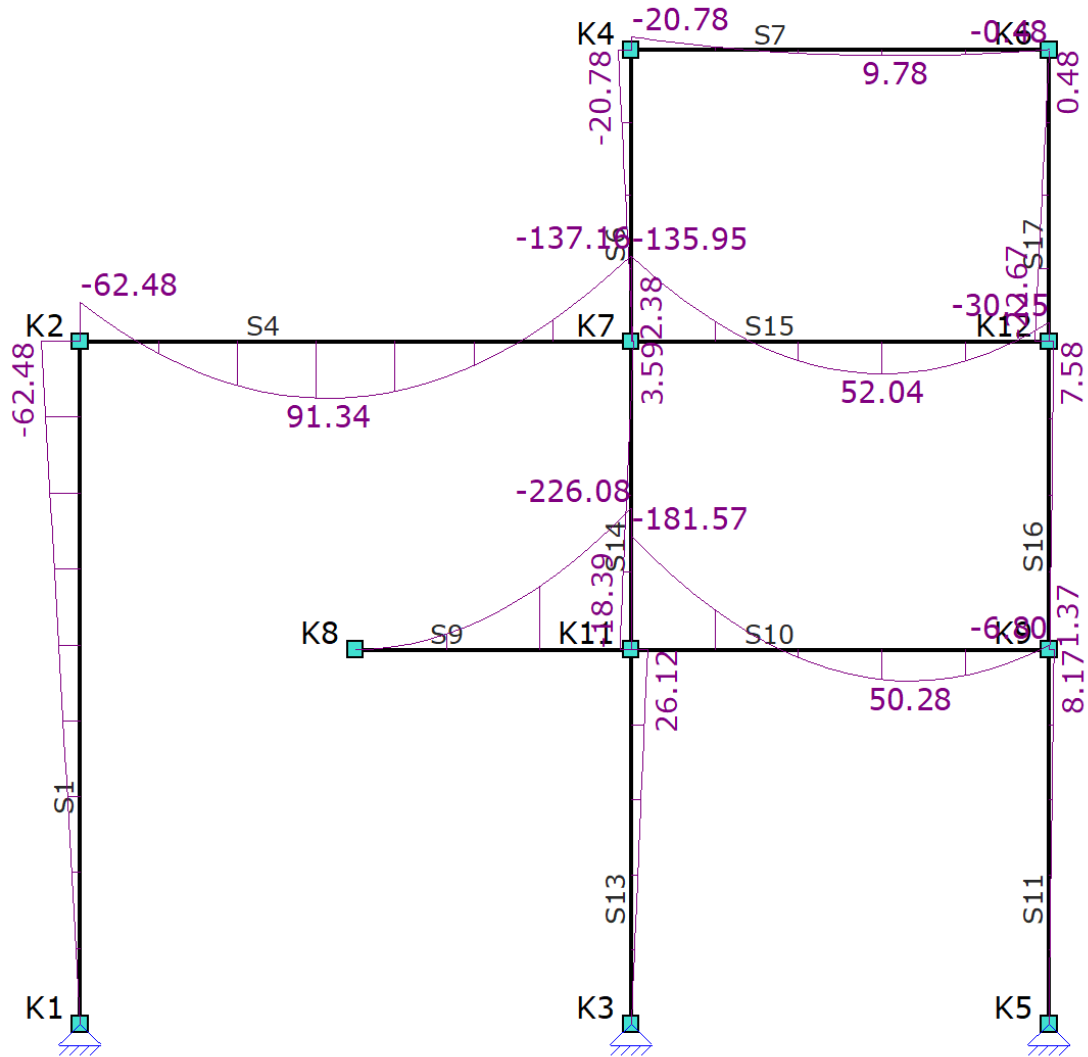




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Fu.C.3 Dwarskracht (Vz)





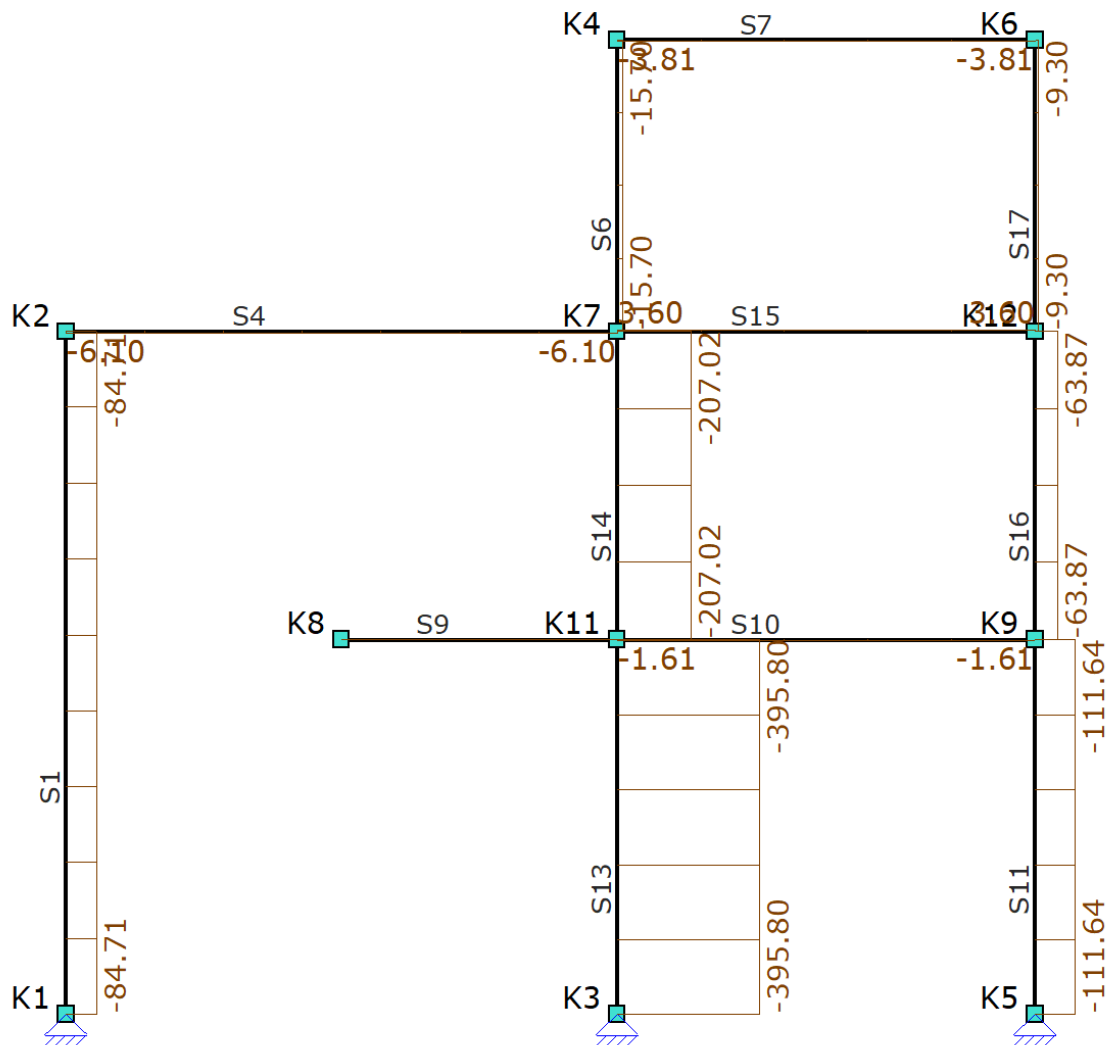
EXTREME STAAFKRACHTEN (FUNDAMENTEEL)

Staaf	Veld	B.C.	M _b	M _{max}	xM _{max}	M _e	x-M0	x-M0	T/D	N _{max}	V _b	V _{max}	V _e
S1	Veld 1 (0.000 - 8.200)	Fu.C.3	0.00			-62.48			T	-103.42	-7.62	-7.62	-7.62
S4	Veld 1 (0.000 - 6.600)	Fu.C.3	-62.48	91.34	2.975	-137.16	0.682	5.267	T	-7.62	103.42	-126.06	-126.06
S6	Veld 1 (0.000 - 3.500)	Fu.C.1	11.07			-20.52	1.226		T	-17.34	-9.03	-9.03	-9.03
	Veld 1 (0.000 - 3.500)	Fu.C.2	4.59			-24.15	0.559		T	-26.54	-8.21	-8.21	-8.21
S7	Veld 1 (0.000 - 5.000)	Fu.C.1	-20.52	7.31	3.211	-1.33	1.565	4.857	T	-9.03	17.34	17.34	-9.66
	Veld 1 (0.000 - 5.000)	Fu.C.2	-24.15	14.23	2.892	-6.18	1.131	4.652	T	-8.21	26.54	26.54	-19.36
S9	Veld 1 (0.000 - 3.300)	Fu.C.1	0.00			-259.48			-	0.00	0.00	-157.26	-157.26
S10	Veld 1 (0.000 - 5.000)	Fu.C.1	-212.00	57.50	3.363	-6.34	1.810	4.917	D	2.82	160.27	160.27	-78.00
	Veld 1 (0.000 - 5.000)	Fu.C.2	-164.14	45.55	3.343	-5.98	1.785	4.901	T	-0.32	125.46	125.46	-62.19
	Veld 1 (0.000 - 5.000)	Fu.C.3	-181.57	50.28	3.342	-6.80	1.786	4.898	T	-0.14	138.75	138.75	-68.85
m			kNm	kNm	m	kNm	m	m		kN	kN	kN	kN

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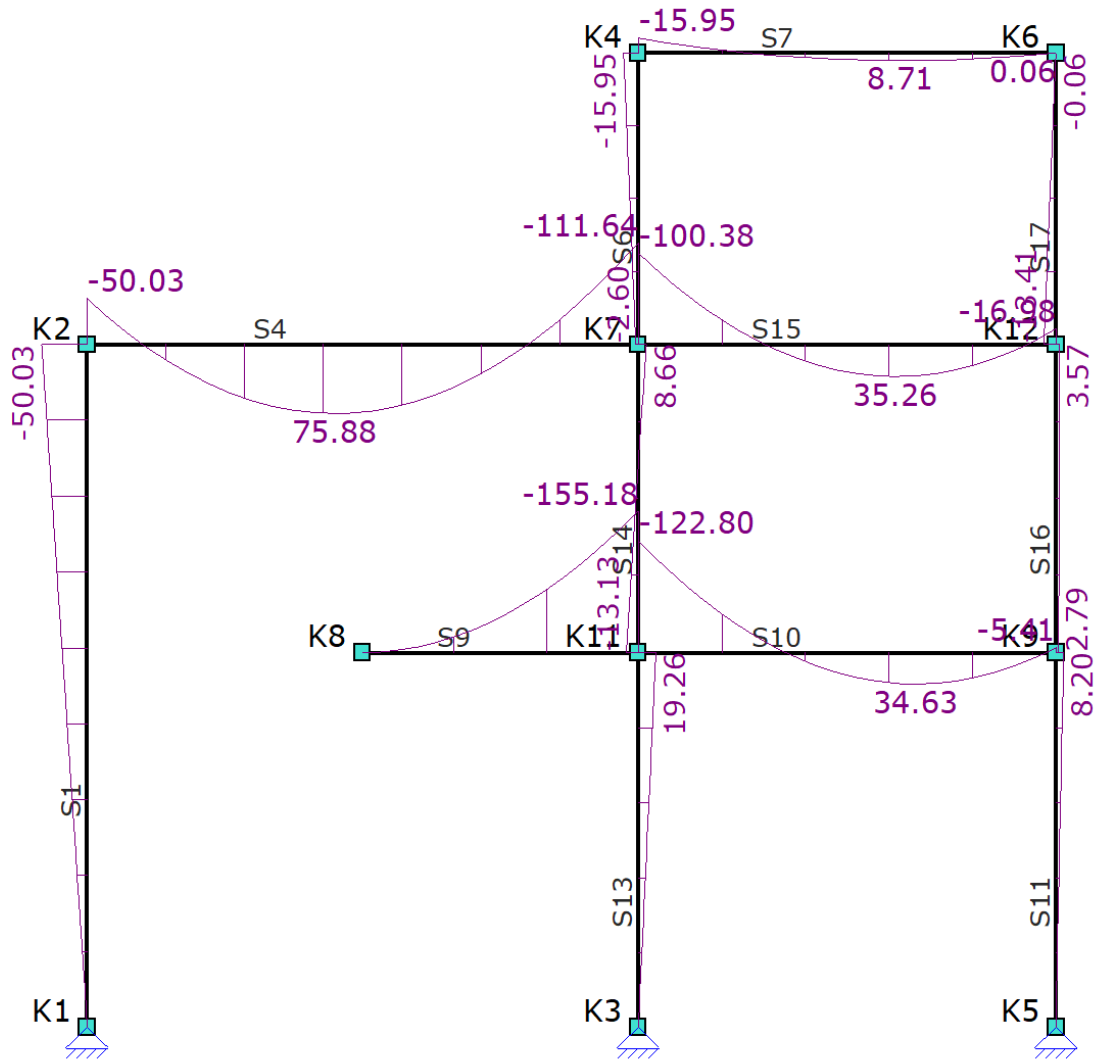
Staaf	Veld	B.C.	M _b	M _{max}	xM _{max}	M _e	x-M0	x-M0	T/D	N _{max}	V _b	V _{max}	V _e
S11	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			4.28			T	-186.81	0.95	0.95	0.95
	Veld 1 (0.000 - 4.500)	Fu.C.3	0.00			8.17			T	-162.70	1.82	1.82	1.82
S13	Veld 1 (0.000 - 4.500)	Fu.C.1	0.00			27.36			T	-585.47	6.08	6.08	6.08
S14	Veld 1 (0.000 - 3.700)	Fu.C.1	-20.12			-8.07			T	-267.94	3.26	3.26	3.26
	Veld 1 (0.000 - 3.700)	Fu.C.3	-18.39			3.59	3.095		T	-270.31	5.94	5.94	5.94
S15	Veld 1 (0.000 - 5.000)	Fu.C.1	-142.12	60.98	2.920	-42.16	1.320	4.519	D	5.25	139.13	139.13	-99.15
	Veld 1 (0.000 - 5.000)	Fu.C.2	-122.13	46.61	2.999	-28.55	1.423	4.575	D	6.93	112.54	112.54	-75.11
S16	Veld 1 (0.000 - 3.700)	Fu.C.1	-2.06			11.90	0.546		T	-108.81	3.77	3.77	3.77
	Veld 1 (0.000 - 3.700)	Fu.C.3	1.37			7.58			T	-93.85	1.68	1.68	1.68
S17	Veld 1 (0.000 - 3.500)	Fu.C.1	-30.26			1.33	3.353		T	-9.66	9.03	9.03	9.03
	Veld 1 (0.000 - 3.500)	Fu.C.2	-22.56			6.18	2.747		T	-19.36	8.21	8.21	8.21
m			kNm	kNm	m	kNm	m	m		kN	kN	kN	kN

B.G.1 Normaalkracht (Nx)



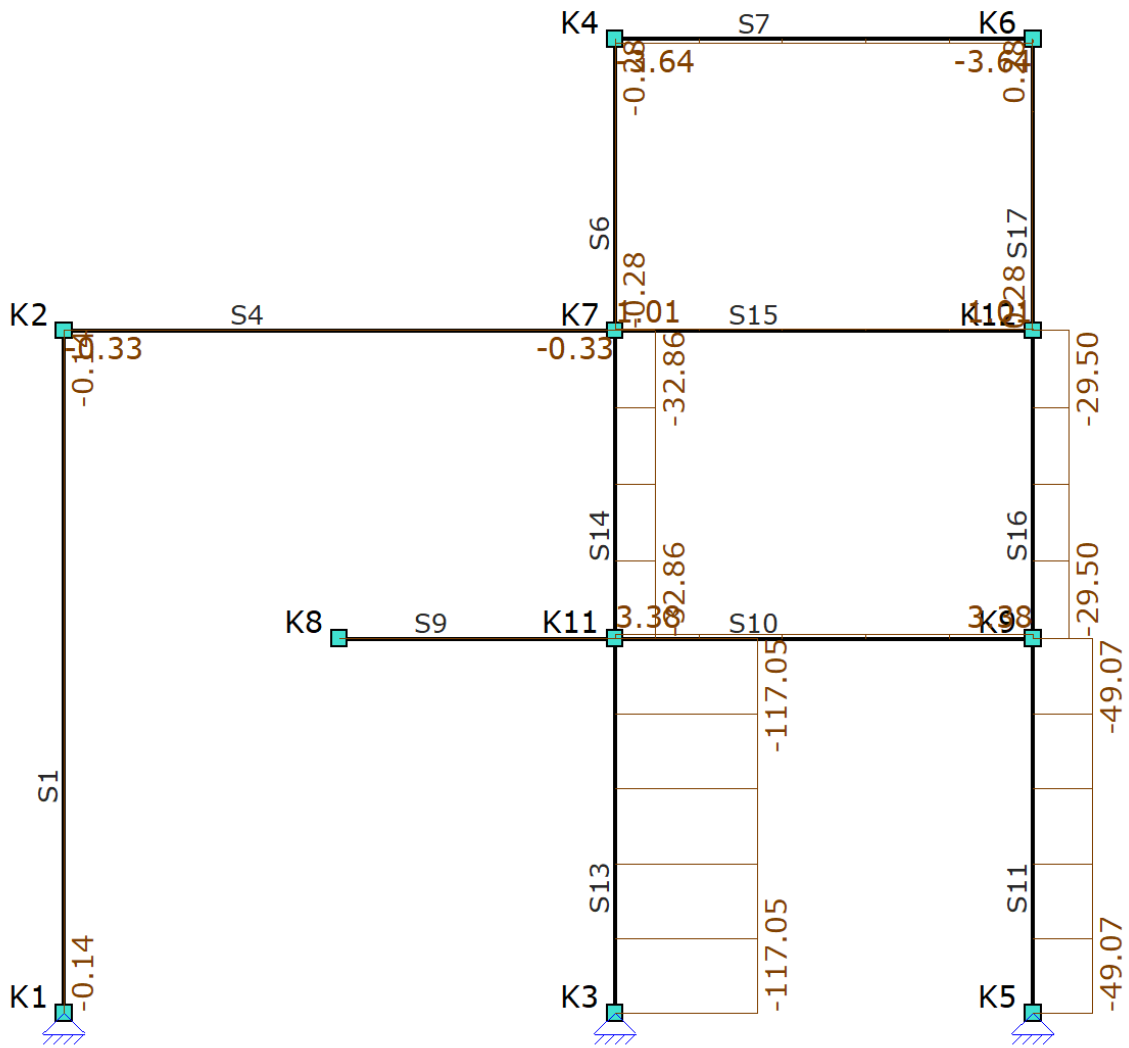
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B.G.1 Momenten (My)



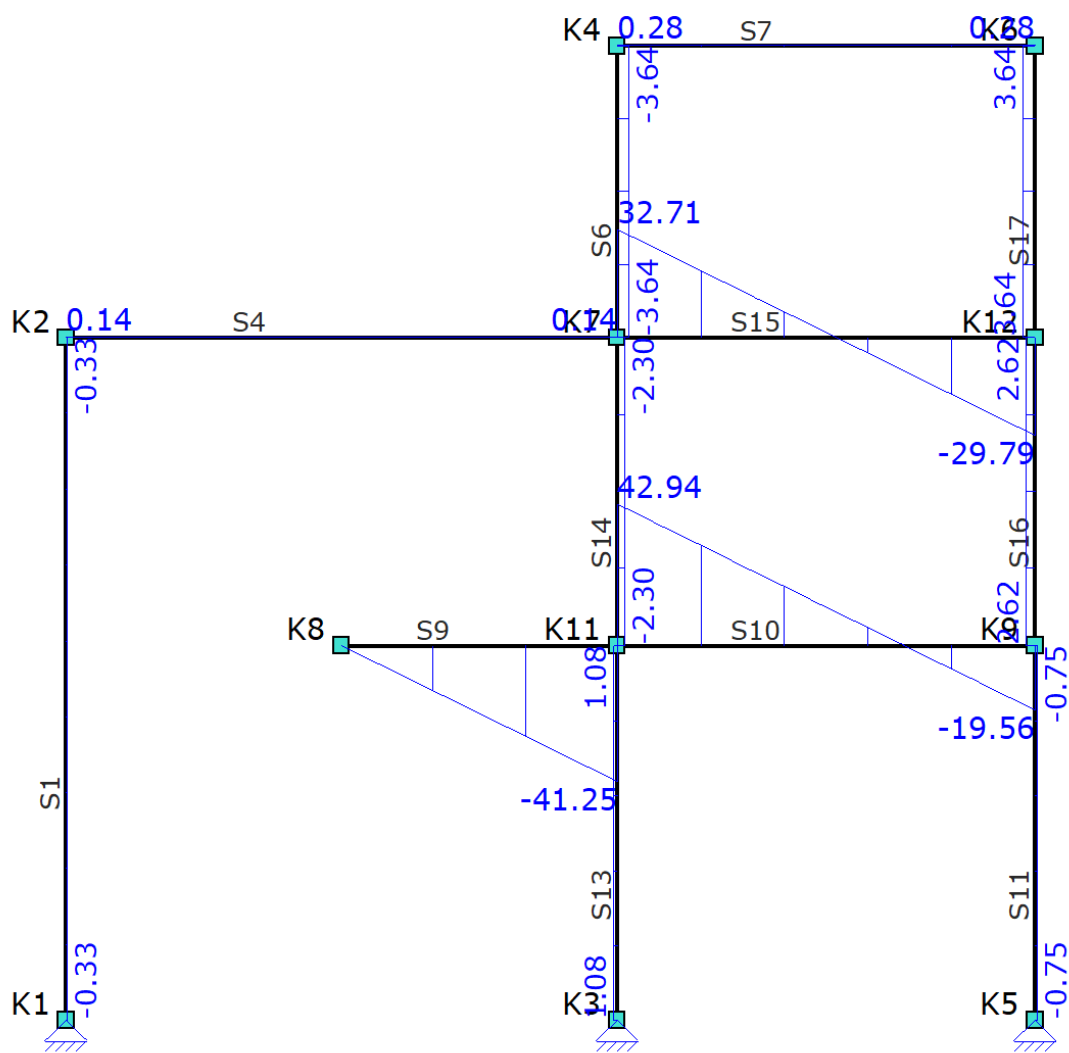
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B.G.2 Normalkracht (Nk)



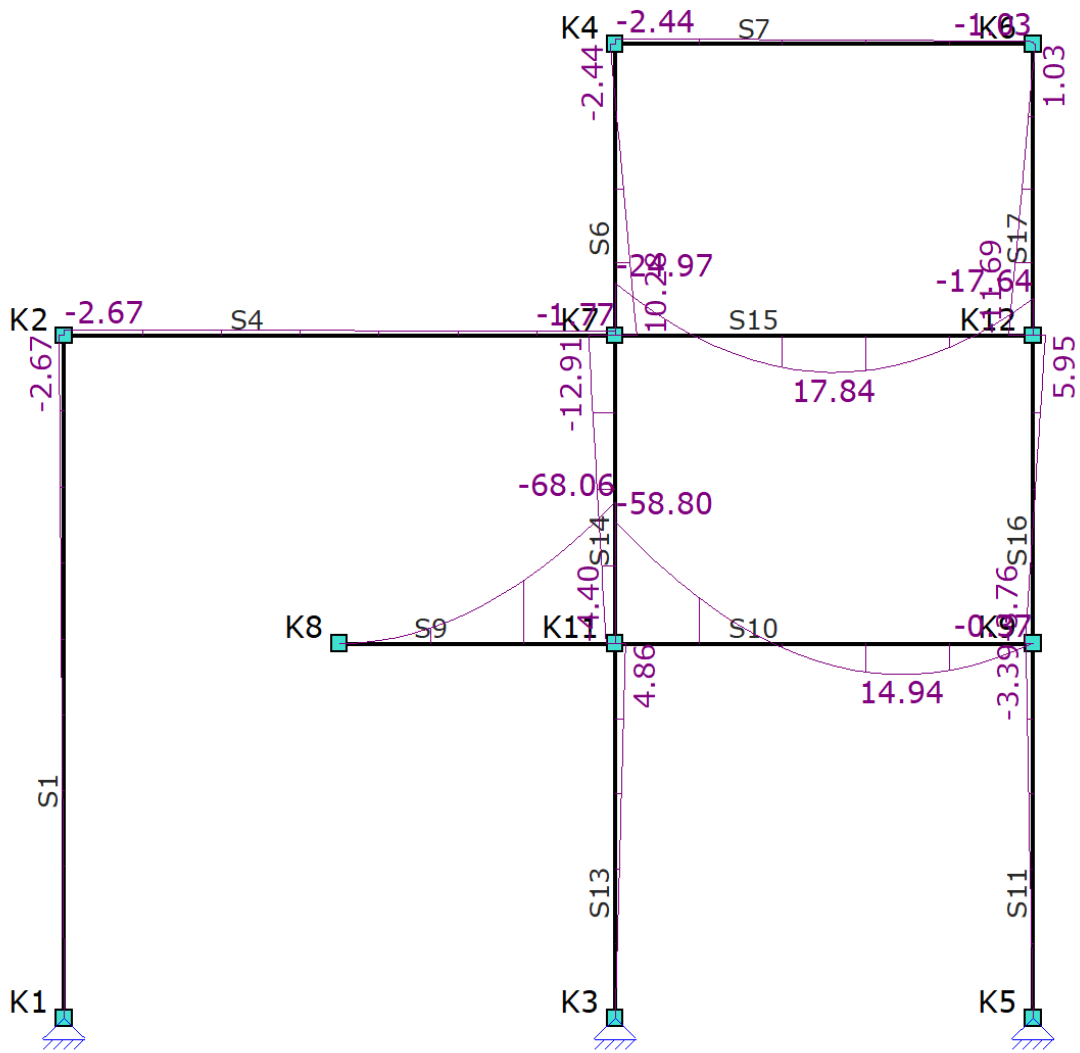
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B.G.2 Dwarskracht (Vz)



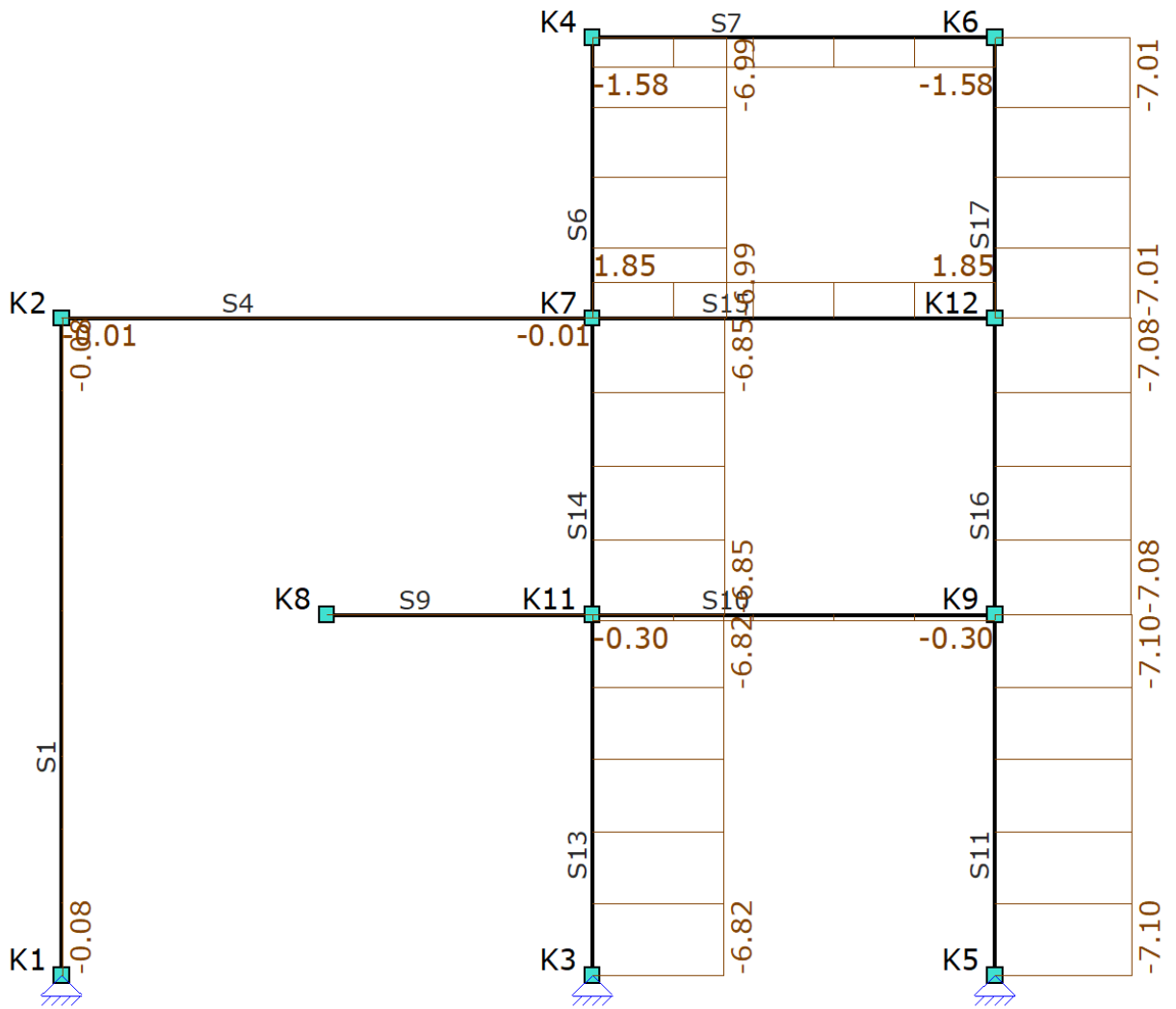
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B.G.2 Momenten (My)



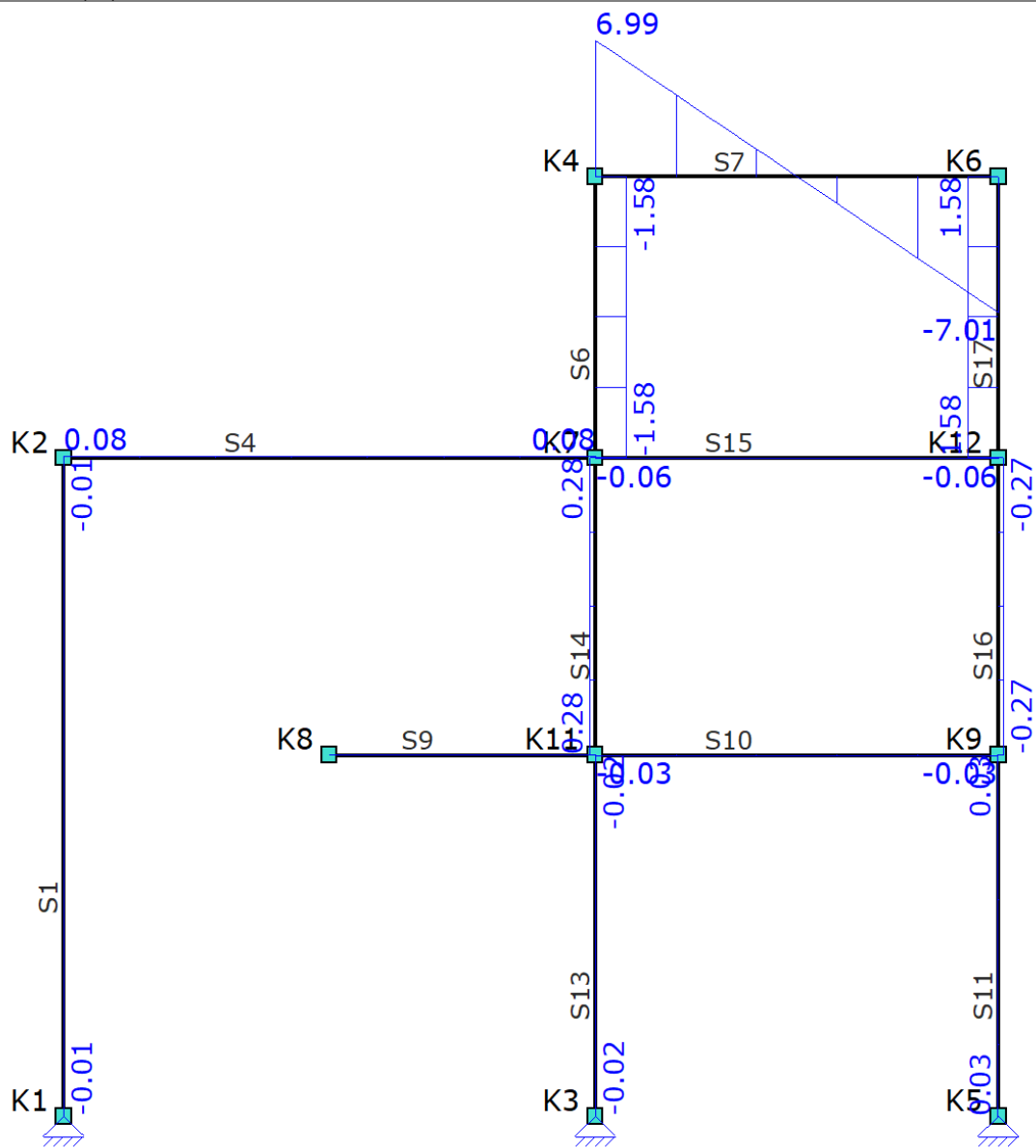
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B.G.3 Normaalkracht (Nx)

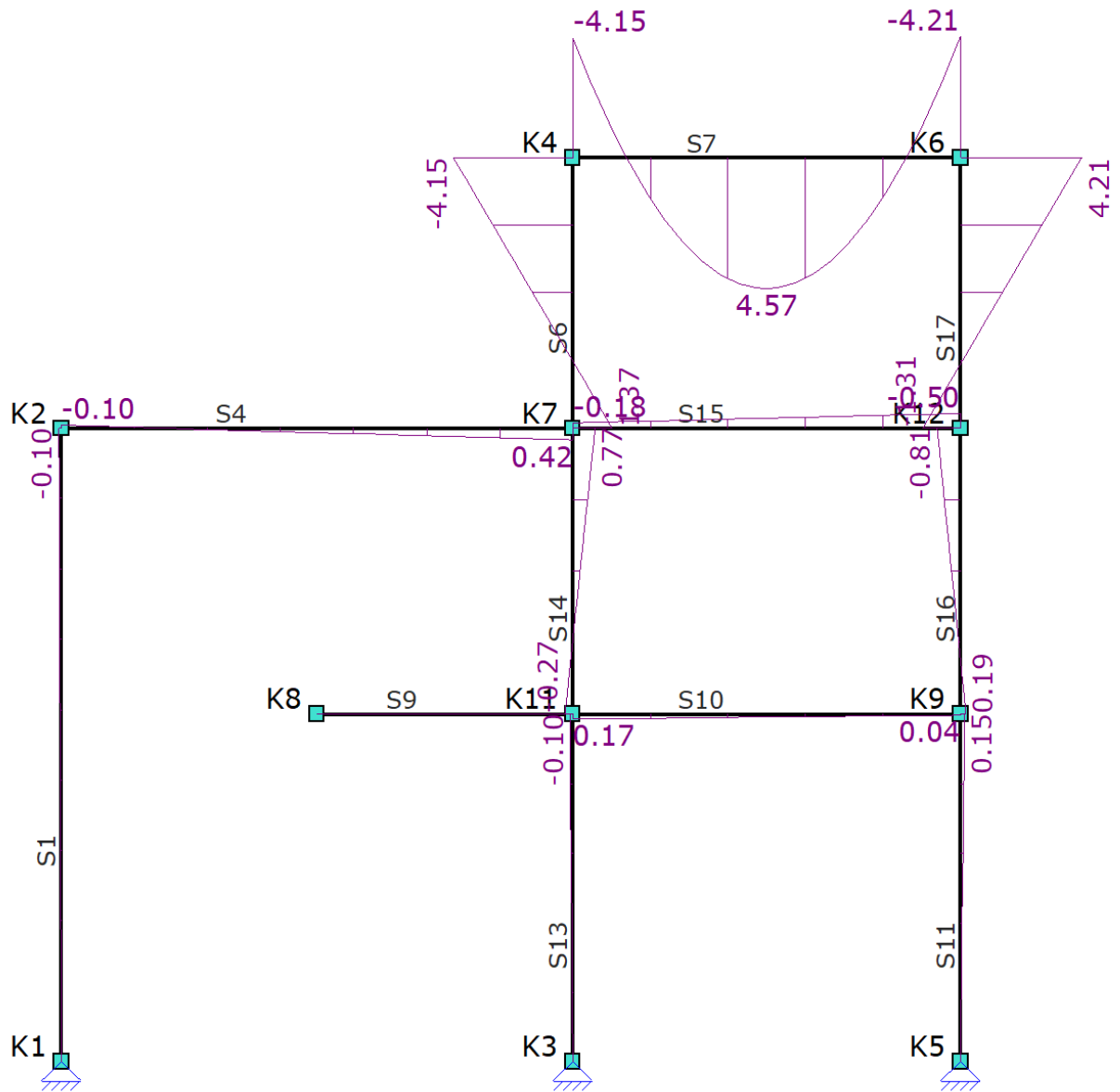


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B.G.3 Dwarskracht (Vz)



B.G.3 Momenten (My)



INTERNE KRACHTEN & VERPLAATSINGEN (BELASTINGSGEVALLEN)

B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
B.G.1	S1	0.000	0.0	0.0	-84.71	-6.10	0.00
		0.820	-3.5	-2.5	-84.71	-6.10	-5.00
		1.640	-6.8	-4.9	-84.71	-6.10	-10.01
		2.460	-9.8	-7.0	-84.71	-6.10	-15.01
		3.280	-12.3	-8.6	-84.71	-6.10	-20.01
		4.100	-14.2	-9.6	-84.71	-6.10	-25.01
		4.920	-15.4	-9.8	-84.71	-6.10	-30.02
		5.740	-15.6	-9.1	-84.71	-6.10	-35.02
		6.560	-14.8	-7.4	-84.71	-6.10	-40.02
		7.380	-12.7	-4.4	-84.71	-6.10	-45.03
		m	mm	mm	kN	kN	kNm

B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
	S4	L(8.200)	-9.3	0.0	-84.71	-6.10	-50.03
		0.000	0.4	0.0	-6.10	84.71	-50.03
		0.660	4.1	3.6	-6.10	65.90	-0.32
		1.320	7.8	7.2	-6.10	47.09	36.97
		1.980	10.8	10.1	-6.10	28.28	61.84
		2.640	12.6	11.8	-6.10	9.47	74.30
		3.300	12.9	12.0	-6.10	-9.34	74.35
		3.960	11.8	10.8	-6.10	-28.15	61.98
		4.620	9.5	8.4	-6.10	-46.96	37.19
		5.280	6.4	5.2	-6.10	-65.77	-0.00
	S6	5.940	3.4	2.1	-6.10	-84.58	-49.62
		L(6.600)	1.4	-0.0	-6.10	-103.39	-111.64
		0.000	-9.3	0.0	-15.70	-3.81	-2.60
		0.350	-9.9	-0.2	-15.70	-3.81	-3.94
		0.700	-10.4	-0.4	-15.70	-3.81	-5.27
		1.050	-11.0	-0.5	-15.70	-3.81	-6.61
		1.400	-11.5	-0.6	-15.70	-3.81	-7.94
		1.750	-11.9	-0.6	-15.70	-3.81	-9.28
		2.100	-12.3	-0.7	-15.70	-3.81	-10.61
		2.450	-12.7	-0.6	-15.70	-3.81	-11.95
	S7	2.800	-13.0	-0.5	-15.70	-3.81	-13.28
		3.150	-13.2	-0.3	-15.70	-3.81	-14.62
		L(3.500)	-13.3	0.0	-15.70	-3.81	-15.95
		0.000	1.4	0.0	-3.81	15.70	-15.95
		0.500	1.4	0.1	-3.81	13.20	-8.72
		1.000	1.5	0.2	-3.81	10.70	-2.75
		1.500	1.6	0.4	-3.81	8.20	1.98
		2.000	1.6	0.6	-3.81	5.70	5.45
		2.500	1.6	0.7	-3.81	3.20	7.68
		3.000	1.6	0.8	-3.81	0.70	8.66
	S9	3.500	1.4	0.7	-3.81	-1.80	8.38
		4.000	1.1	0.5	-3.81	-4.30	6.86
		4.500	0.8	0.3	-3.81	-6.80	4.09
		L(5.000)	0.4	-0.0	-3.81	-9.30	0.06
		0.000	21.3	0.0	0.00	0.00	0.00
		0.330	18.8	-0.4	0.00	-9.40	-1.55
		0.660	16.4	-0.9	0.00	-18.81	-6.21
		0.990	13.9	-1.3	0.00	-28.21	-13.97
		1.320	11.5	-1.7	0.00	-37.62	-24.83
		1.650	9.2	-2.0	0.00	-47.03	-38.80
	S10	1.980	7.0	-2.1	0.00	-56.43	-55.87
		2.310	5.0	-2.1	0.00	-65.84	-76.04
		2.640	3.3	-1.8	0.00	-75.24	-99.32
		2.970	1.9	-1.1	0.00	-84.64	-125.70
		L(3.300)	1.0	-0.0	0.00	-94.05	-155.18
0.000		1.0	0.0	-1.61	94.73	-122.80	
0.500		0.4	-0.5	-1.61	80.48	-79.00	
1.000		0.4	-0.4	-1.61	66.23	-42.32	
1.500		0.8	-0.0	-1.61	51.98	-12.77	
2.000		1.2	0.5	-1.61	37.73	9.66	
S11	2.500	1.6	1.0	-1.61	23.48	24.96	
	3.000	1.8	1.3	-1.61	9.23	33.13	
	3.500	1.8	1.3	-1.61	-5.02	34.19	
	4.000	1.5	1.1	-1.61	-19.27	28.11	
	4.500	0.9	0.6	-1.61	-33.52	14.91	
	L(5.000)	0.3	-0.0	-1.61	-47.77	-5.41	
	0.000	0.0	0.0	-111.64	1.82	0.00	
	0.450	-0.2	0.1	-111.64	1.82	0.82	
	0.900	-0.4	0.2	-111.64	1.82	1.64	
	1.350	-0.7	0.3	-111.64	1.82	2.46	
1.800	-1.0	0.4	-111.64	1.82	3.28		
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		2.250	-1.2	0.5	-111.64	1.82	4.10
		2.700	-1.6	0.5	-111.64	1.82	4.92
		3.150	-2.0	0.4	-111.64	1.82	5.74
		3.600	-2.4	0.4	-111.64	1.82	6.56
		4.050	-2.9	0.2	-111.64	1.82	7.38
		L(4.500)	-3.4	-0.0	-111.64	1.82	8.20
	S13	0.000	0.0	0.0	-395.80	4.28	0.00
		0.450	-0.1	0.3	-395.80	4.28	1.93
		0.900	-0.1	0.6	-395.80	4.28	3.85
		1.350	-0.2	0.8	-395.80	4.28	5.78
		1.800	-0.4	1.0	-395.80	4.28	7.70
		2.250	-0.6	1.1	-395.80	4.28	9.63
		2.700	-0.9	1.1	-395.80	4.28	11.55
		3.150	-1.3	1.1	-395.80	4.28	13.48
		3.600	-1.9	0.9	-395.80	4.28	15.40
		4.050	-2.6	0.5	-395.80	4.28	17.33
		L(4.500)	-3.4	-0.0	-395.80	4.28	19.26
	S14	0.000	-3.4	0.0	-207.02	5.89	-13.13
		0.370	-4.2	-0.1	-207.02	5.89	-10.95
		0.740	-4.8	-0.2	-207.02	5.89	-8.77
		1.110	-5.4	-0.2	-207.02	5.89	-6.59
		1.480	-6.0	-0.2	-207.02	5.89	-4.41
		1.850	-6.5	-0.2	-207.02	5.89	-2.23
		2.220	-7.1	-0.1	-207.02	5.89	-0.06
		2.590	-7.6	-0.1	-207.02	5.89	2.12
		2.960	-8.1	-0.0	-207.02	5.89	4.30
		3.330	-8.7	0.0	-207.02	5.89	6.48
		L(3.700)	-9.3	-0.0	-207.02	5.89	8.66
	S15	0.000	1.4	0.0	3.60	87.93	-100.38
		0.500	1.0	-0.3	3.60	73.68	-59.98
		1.000	1.4	0.2	3.60	59.43	-26.70
		1.500	2.0	0.9	3.60	45.18	-0.55
		2.000	2.7	1.7	3.60	30.93	18.48
		2.500	3.1	2.2	3.60	16.68	30.38
		3.000	3.2	2.4	3.60	2.43	35.16
		3.500	2.9	2.2	3.60	-11.82	32.81
		4.000	2.3	1.7	3.60	-26.07	23.34
		4.500	1.4	0.9	3.60	-40.32	6.74
		L(5.000)	0.4	0.0	3.60	-54.57	-16.98
	S16	0.000	-3.4	0.0	-63.87	0.21	2.79
		0.370	-3.9	0.1	-63.87	0.21	2.87
		0.740	-4.5	0.2	-63.87	0.21	2.94
		1.110	-5.0	0.2	-63.87	0.21	3.02
		1.480	-5.5	0.2	-63.87	0.21	3.10
		1.850	-6.1	0.2	-63.87	0.21	3.18
		2.220	-6.7	0.2	-63.87	0.21	3.26
		2.590	-7.3	0.2	-63.87	0.21	3.34
		2.960	-8.0	0.2	-63.87	0.21	3.42
		3.330	-8.6	0.1	-63.87	0.21	3.50
		L(3.700)	-9.3	0.0	-63.87	0.21	3.57
	S17	0.000	-9.3	0.0	-9.30	3.81	-13.41
		0.350	-9.9	-0.2	-9.30	3.81	-12.07
		0.700	-10.4	-0.4	-9.30	3.81	-10.74
		1.050	-10.9	-0.4	-9.30	3.81	-9.41
		1.400	-11.4	-0.5	-9.30	3.81	-8.07
		1.750	-11.8	-0.5	-9.30	3.81	-6.74
		2.100	-12.1	-0.4	-9.30	3.81	-5.40
		2.450	-12.4	-0.3	-9.30	3.81	-4.07
		2.800	-12.7	-0.2	-9.30	3.81	-2.73
		3.150	-13.0	-0.1	-9.30	3.81	-1.40
		L(3.500)	-13.3	-0.0	-9.30	3.81	-0.06
		m	mm	mm	kN	kN	kNm

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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
B.G.2	S1	0.000	0.0	0.0	-0.14	-0.33	0.00
		0.820	-0.7	-0.1	-0.14	-0.33	-0.27
		1.640	-1.3	-0.3	-0.14	-0.33	-0.53
		2.460	-1.9	-0.4	-0.14	-0.33	-0.80
		3.280	-2.5	-0.5	-0.14	-0.33	-1.07
		4.100	-3.1	-0.5	-0.14	-0.33	-1.34
		4.920	-3.7	-0.5	-0.14	-0.33	-1.60
		5.740	-4.1	-0.5	-0.14	-0.33	-1.87
		6.560	-4.6	-0.4	-0.14	-0.33	-2.14
		7.380	-4.9	-0.2	-0.14	-0.33	-2.41
	S4	L(8.200)	-5.2	0.0	-0.14	-0.33	-2.67
		0.000	0.0	0.0	-0.33	0.14	-2.67
		0.660	-0.2	-0.2	-0.33	0.14	-2.58
		1.320	-0.3	-0.4	-0.33	0.14	-2.49
		1.980	-0.4	-0.5	-0.33	0.14	-2.40
		2.640	-0.4	-0.5	-0.33	0.14	-2.31
		3.300	-0.4	-0.6	-0.33	0.14	-2.22
		3.960	-0.3	-0.5	-0.33	0.14	-2.13
		4.620	-0.2	-0.5	-0.33	0.14	-2.04
		5.280	-0.1	-0.3	-0.33	0.14	-1.95
	S6	5.940	0.1	-0.2	-0.33	0.14	-1.86
		L(6.600)	0.4	0.0	-0.33	0.14	-1.77
		0.000	-5.2	0.0	-0.28	-3.64	10.28
		0.350	-5.1	0.1	-0.28	-3.64	9.01
		0.700	-5.1	0.2	-0.28	-3.64	7.74
		1.050	-5.1	0.3	-0.28	-3.64	6.47
		1.400	-5.1	0.3	-0.28	-3.64	5.19
		1.750	-5.1	0.3	-0.28	-3.64	3.92
		2.100	-5.2	0.2	-0.28	-3.64	2.65
		2.450	-5.3	0.2	-0.28	-3.64	1.38
	S7	2.800	-5.4	0.1	-0.28	-3.64	0.10
		3.150	-5.5	0.1	-0.28	-3.64	-1.17
		L(3.500)	-5.6	-0.0	-0.28	-3.64	-2.44
		0.000	0.4	0.0	-3.64	0.28	-2.44
		0.500	0.2	-0.1	-3.64	0.28	-2.30
		1.000	0.1	-0.2	-3.64	0.28	-2.16
		1.500	0.1	-0.2	-3.64	0.28	-2.02
		2.000	0.0	-0.2	-3.64	0.28	-1.88
		2.500	0.0	-0.2	-3.64	0.28	-1.74
		3.000	0.0	-0.2	-3.64	0.28	-1.60
	S9	3.500	0.0	-0.2	-3.64	0.28	-1.46
		4.000	0.1	-0.1	-3.64	0.28	-1.32
		4.500	0.1	-0.1	-3.64	0.28	-1.17
		L(5.000)	0.2	-0.0	-3.64	0.28	-1.03
		0.000	9.8	0.0	0.00	0.00	0.00
		0.330	8.7	-0.2	0.00	-4.12	-0.68
		0.660	7.5	-0.4	0.00	-8.25	-2.72
		0.990	6.4	-0.6	0.00	-12.37	-6.13
		1.320	5.3	-0.7	0.00	-16.50	-10.89
		1.650	4.2	-0.9	0.00	-20.63	-17.02
	S10	1.980	3.2	-0.9	0.00	-24.75	-24.50
		2.310	2.2	-0.9	0.00	-28.88	-33.35
		2.640	1.4	-0.8	0.00	-33.00	-43.56
		2.970	0.8	-0.5	0.00	-37.13	-55.13
		L(3.300)	0.3	0.0	0.00	-41.25	-68.06
		0.000	0.3	0.0	3.38	42.94	-58.80
		0.500	-0.1	-0.3	3.38	36.69	-38.89
		1.000	-0.1	-0.3	3.38	30.44	-22.11
		1.500	0.1	-0.2	3.38	24.19	-8.46
		2.000	0.3	0.1	3.38	17.94	2.07
		2.500	0.5	0.3	3.38	11.69	9.48
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.000	0.6	0.4	3.38	5.44	13.76
		3.500	0.7	0.5	3.38	-0.81	14.92
		4.000	0.6	0.4	3.38	-7.06	12.95
		4.500	0.4	0.2	3.38	-13.31	7.85
		L(5.000)	0.1	-0.0	3.38	-19.56	-0.37
	S11	0.000	0.0	0.0	-49.07	-0.75	0.00
		0.450	-0.4	-0.1	-49.07	-0.75	-0.34
		0.900	-0.8	-0.1	-49.07	-0.75	-0.68
		1.350	-1.2	-0.1	-49.07	-0.75	-1.02
		1.800	-1.5	-0.2	-49.07	-0.75	-1.36
		2.250	-1.9	-0.2	-49.07	-0.75	-1.70
		2.700	-2.3	-0.2	-49.07	-0.75	-2.03
		3.150	-2.6	-0.2	-49.07	-0.75	-2.37
		3.600	-2.9	-0.2	-49.07	-0.75	-2.71
		4.050	-3.2	-0.1	-49.07	-0.75	-3.05
		L(4.500)	-3.4	0.0	-49.07	-0.75	-3.39
	S13	0.000	0.0	0.0	-117.05	1.08	0.00
		0.450	-0.3	0.1	-117.05	1.08	0.49
		0.900	-0.5	0.1	-117.05	1.08	0.97
		1.350	-0.8	0.2	-117.05	1.08	1.46
		1.800	-1.1	0.3	-117.05	1.08	1.94
		2.250	-1.4	0.3	-117.05	1.08	2.43
		2.700	-1.8	0.3	-117.05	1.08	2.91
		3.150	-2.1	0.3	-117.05	1.08	3.40
		3.600	-2.5	0.2	-117.05	1.08	3.89
		4.050	-3.0	0.1	-117.05	1.08	4.37
		L(4.500)	-3.4	-0.0	-117.05	1.08	4.86
	S14	0.000	-3.4	0.0	-32.86	-2.30	-4.40
		0.370	-3.8	-0.2	-32.86	-2.30	-5.25
		0.740	-4.2	-0.4	-32.86	-2.30	-6.10
		1.110	-4.5	-0.5	-32.86	-2.30	-6.96
		1.480	-4.8	-0.6	-32.86	-2.30	-7.81
		1.850	-5.0	-0.7	-32.86	-2.30	-8.66
		2.220	-5.2	-0.7	-32.86	-2.30	-9.51
		2.590	-5.3	-0.6	-32.86	-2.30	-10.36
		2.960	-5.3	-0.5	-32.86	-2.30	-11.21
		3.330	-5.3	-0.3	-32.86	-2.30	-12.06
		L(3.700)	-5.2	0.0	-32.86	-2.30	-12.91
	S15	0.000	0.4	0.0	1.01	32.71	-24.97
		0.500	0.7	0.3	1.01	26.46	-10.17
		1.000	1.1	0.7	1.01	20.21	1.50
		1.500	1.5	1.2	1.01	13.96	10.04
		2.000	1.8	1.5	1.01	7.71	15.46
		2.500	1.9	1.6	1.01	1.46	17.76
		3.000	1.8	1.5	1.01	-4.79	16.93
		3.500	1.5	1.3	1.01	-11.04	12.97
		4.000	1.1	0.9	1.01	-17.29	5.89
		4.500	0.6	0.4	1.01	-23.54	-4.31
		L(5.000)	0.2	0.0	1.01	-29.79	-17.64
	S16	0.000	-3.4	0.0	-29.50	2.62	-3.76
		0.370	-3.6	-0.0	-29.50	2.62	-2.79
		0.740	-3.8	0.0	-29.50	2.62	-1.81
		1.110	-3.9	0.0	-29.50	2.62	-0.84
		1.480	-4.1	0.1	-29.50	2.62	0.13
		1.850	-4.2	0.1	-29.50	2.62	1.10
		2.220	-4.4	0.1	-29.50	2.62	2.07
		2.590	-4.6	0.1	-29.50	2.62	3.04
		2.960	-4.7	0.1	-29.50	2.62	4.01
		3.330	-5.0	0.1	-29.50	2.62	4.98
		L(3.700)	-5.2	-0.0	-29.50	2.62	5.95
	S17	0.000	-5.2	0.0	0.28	3.64	-11.69
		m	mm	mm	kN	kN	kNm

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B.C.	Staf	Positie	Uz	Uz'	Nx	Vz	My
B.G.3	S1	0.350	-5.4	-0.2	0.28	3.64	-10.42
		0.700	-5.6	-0.3	0.28	3.64	-9.14
		1.050	-5.7	-0.4	0.28	3.64	-7.87
		1.400	-5.8	-0.4	0.28	3.64	-6.60
		1.750	-5.8	-0.4	0.28	3.64	-5.33
		2.100	-5.8	-0.3	0.28	3.64	-4.06
		2.450	-5.8	-0.3	0.28	3.64	-2.78
		2.800	-5.7	-0.2	0.28	3.64	-1.51
		3.150	-5.7	-0.1	0.28	3.64	-0.24
		L(3.500)	-5.6	-0.0	0.28	3.64	1.03
		0.000	0.0	0.0	-0.08	-0.01	0.00
		0.820	-0.0	-0.0	-0.08	-0.01	-0.01
		1.640	-0.0	-0.0	-0.08	-0.01	-0.02
		2.460	-0.0	-0.0	-0.08	-0.01	-0.03
		3.280	-0.0	-0.0	-0.08	-0.01	-0.04
		4.100	-0.0	-0.0	-0.08	-0.01	-0.05
		4.920	-0.0	-0.0	-0.08	-0.01	-0.06
		5.740	0.0	-0.0	-0.08	-0.01	-0.07
		6.560	0.0	-0.0	-0.08	-0.01	-0.08
	S4	7.380	0.0	-0.0	-0.08	-0.01	-0.09
		L(8.200)	0.0	0.0	-0.08	-0.01	-0.10
		0.000	0.0	0.0	-0.01	0.08	-0.10
		0.660	0.0	0.0	-0.01	0.08	-0.05
		1.320	0.0	0.0	-0.01	0.08	0.01
		1.980	0.0	0.0	-0.01	0.08	0.06
		2.640	0.0	0.0	-0.01	0.08	0.11
		3.300	0.1	0.0	-0.01	0.08	0.16
		3.960	0.1	0.0	-0.01	0.08	0.21
		4.620	0.1	0.0	-0.01	0.08	0.26
	S6	5.280	0.1	0.0	-0.01	0.08	0.31
		5.940	0.0	0.0	-0.01	0.08	0.37
		L(6.600)	0.0	-0.0	-0.01	0.08	0.42
		0.000	0.0	0.0	-6.99	-1.58	1.37
		0.350	0.0	-0.0	-6.99	-1.58	0.82
		0.700	-0.0	-0.0	-6.99	-1.58	0.26
		1.050	-0.0	-0.1	-6.99	-1.58	-0.29
		1.400	-0.0	-0.1	-6.99	-1.58	-0.84
		1.750	-0.1	-0.1	-6.99	-1.58	-1.39
		2.100	-0.1	-0.1	-6.99	-1.58	-1.94
	S7	2.450	-0.1	-0.1	-6.99	-1.58	-2.50
		2.800	-0.0	-0.1	-6.99	-1.58	-3.05
		3.150	-0.0	-0.1	-6.99	-1.58	-3.60
		L(3.500)	0.0	0.0	-6.99	-1.58	-4.15
		0.000	0.0	0.0	-1.58	6.99	-4.15
		0.500	0.2	0.1	-1.58	5.59	-1.01
		1.000	0.3	0.2	-1.58	4.19	1.44
		1.500	0.4	0.3	-1.58	2.79	3.18
		2.000	0.5	0.4	-1.58	1.39	4.22
		2.500	0.5	0.4	-1.58	-0.01	4.57
	S9	3.000	0.5	0.4	-1.58	-1.41	4.21
		3.500	0.4	0.3	-1.58	-2.81	3.16
		4.000	0.3	0.2	-1.58	-4.21	1.40
		4.500	0.2	0.1	-1.58	-5.61	-1.06
		L(5.000)	0.0	-0.0	-1.58	-7.01	-4.21
		0.000	-0.0	0.0	0.00	0.00	0.00
		0.330	-0.0	-0.0	0.00	0.00	0.00
		0.660	-0.0	-0.0	0.00	0.00	0.00
		0.990	-0.0	-0.0	0.00	0.00	0.00
		1.320	-0.0	-0.0	0.00	0.00	0.00
		1.650	-0.0	-0.0	0.00	0.00	0.00
		1.980	0.0	-0.0	0.00	0.00	0.00

m mm mm kN kN kNm

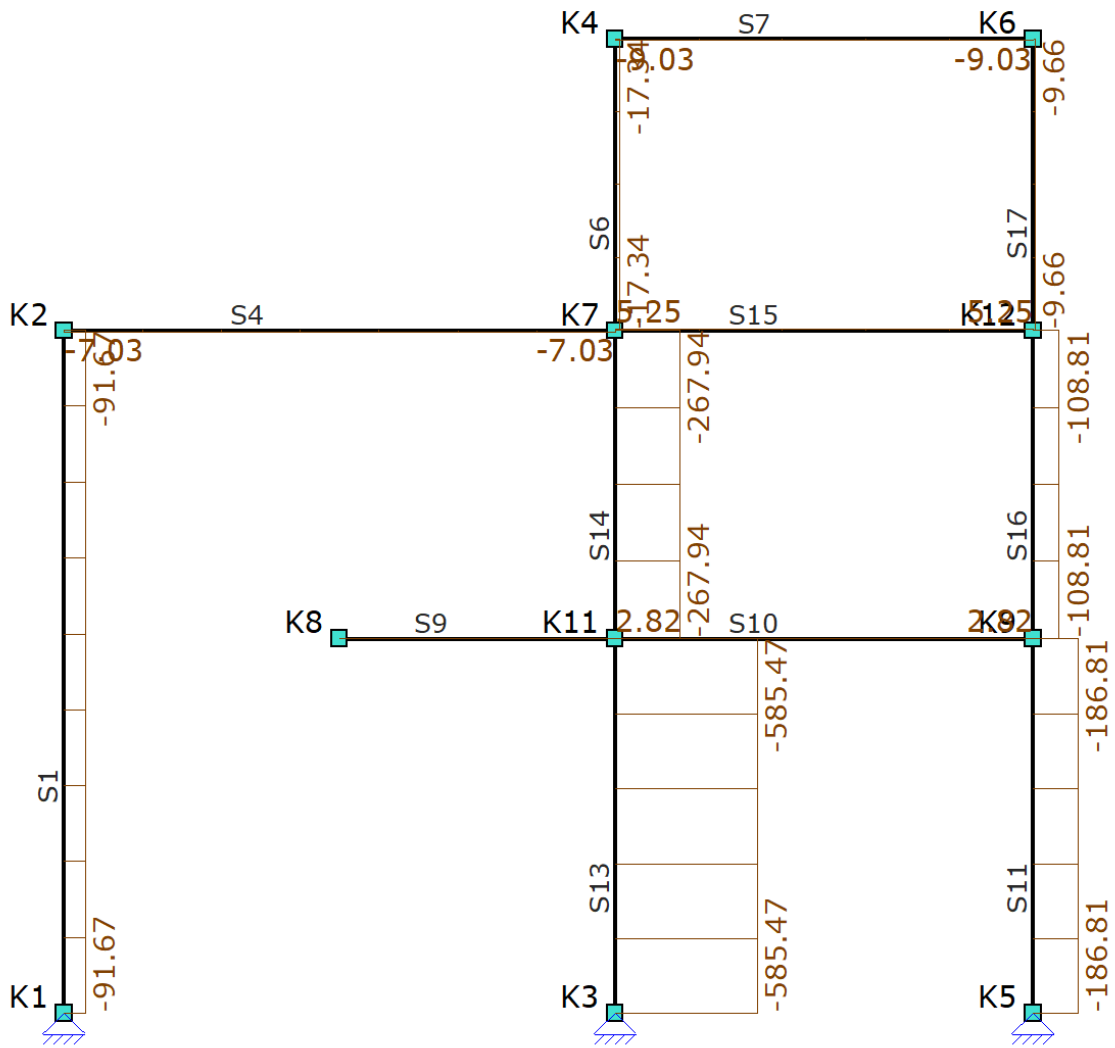
B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		2.310	0.0	0.0	0.00	0.00	0.00
		2.640	0.0	0.0	0.00	0.00	0.00
		2.970	0.0	0.0	0.00	0.00	0.00
		L(3.300)	0.0	0.0	0.00	0.00	0.00
	S10	0.000	0.0	0.0	-0.30	-0.03	0.17
		0.500	0.0	0.0	-0.30	-0.03	0.16
		1.000	0.0	0.0	-0.30	-0.03	0.15
		1.500	0.0	0.0	-0.30	-0.03	0.13
		2.000	0.0	0.0	-0.30	-0.03	0.12
		2.500	0.0	0.0	-0.30	-0.03	0.11
		3.000	0.0	0.0	-0.30	-0.03	0.09
		3.500	0.0	0.0	-0.30	-0.03	0.08
		4.000	0.0	0.0	-0.30	-0.03	0.07
		4.500	0.0	0.0	-0.30	-0.03	0.06
	S11	L(5.000)	0.0	0.0	-0.30	-0.03	0.04
		0.000	0.0	0.0	-7.10	0.03	0.00
		0.450	0.0	0.0	-7.10	0.03	0.02
		0.900	0.0	0.0	-7.10	0.03	0.03
		1.350	0.0	0.0	-7.10	0.03	0.05
		1.800	0.0	0.0	-7.10	0.03	0.06
		2.250	0.0	0.0	-7.10	0.03	0.08
		2.700	0.0	0.0	-7.10	0.03	0.09
		3.150	0.0	0.0	-7.10	0.03	0.11
		3.600	0.0	0.0	-7.10	0.03	0.12
		4.050	0.0	0.0	-7.10	0.03	0.14
	S13	L(4.500)	0.0	-0.0	-7.10	0.03	0.15
		0.000	0.0	0.0	-6.82	-0.02	0.00
		0.450	0.0	-0.0	-6.82	-0.02	-0.01
		0.900	0.0	-0.0	-6.82	-0.02	-0.02
		1.350	0.0	-0.0	-6.82	-0.02	-0.03
		1.800	0.0	-0.0	-6.82	-0.02	-0.04
		2.250	0.0	-0.0	-6.82	-0.02	-0.05
		2.700	0.0	-0.0	-6.82	-0.02	-0.06
		3.150	0.0	-0.0	-6.82	-0.02	-0.07
		3.600	0.0	-0.0	-6.82	-0.02	-0.08
		4.050	0.0	-0.0	-6.82	-0.02	-0.09
	S14	L(4.500)	0.0	0.0	-6.82	-0.02	-0.10
		0.000	0.0	0.0	-6.85	0.28	-0.27
		0.370	0.0	0.0	-6.85	0.28	-0.16
		0.740	0.0	0.0	-6.85	0.28	-0.06
		1.110	0.0	0.0	-6.85	0.28	0.04
		1.480	0.0	0.0	-6.85	0.28	0.15
		1.850	0.0	0.0	-6.85	0.28	0.25
		2.220	0.0	0.0	-6.85	0.28	0.36
		2.590	0.0	0.0	-6.85	0.28	0.46
		2.960	0.0	0.0	-6.85	0.28	0.57
		3.330	0.0	0.0	-6.85	0.28	0.67
	S15	L(3.700)	0.0	-0.0	-6.85	0.28	0.77
		0.000	0.0	0.0	1.85	-0.06	-0.18
		0.500	0.0	-0.0	1.85	-0.06	-0.21
		1.000	0.0	-0.0	1.85	-0.06	-0.24
		1.500	-0.0	-0.0	1.85	-0.06	-0.28
		2.000	-0.0	-0.0	1.85	-0.06	-0.31
		2.500	-0.0	-0.0	1.85	-0.06	-0.34
		3.000	-0.0	-0.0	1.85	-0.06	-0.37
		3.500	-0.0	-0.0	1.85	-0.06	-0.40
		4.000	-0.0	-0.0	1.85	-0.06	-0.44
		4.500	0.0	-0.0	1.85	-0.06	-0.47
	S16	L(5.000)	0.0	0.0	1.85	-0.06	-0.50
		0.000	0.0	0.0	-7.08	-0.27	0.19
		0.370	0.0	-0.0	-7.08	-0.27	0.09
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		0.740	0.0	-0.0	-7.08	-0.27	-0.01
		1.110	0.0	-0.0	-7.08	-0.27	-0.11
		1.480	0.0	-0.0	-7.08	-0.27	-0.21
		1.850	0.0	-0.0	-7.08	-0.27	-0.31
		2.220	0.0	-0.0	-7.08	-0.27	-0.41
		2.590	0.0	-0.0	-7.08	-0.27	-0.51
		2.960	0.0	-0.0	-7.08	-0.27	-0.61
		3.330	0.0	-0.0	-7.08	-0.27	-0.71
		L(3.700)	0.0	0.0	-7.08	-0.27	-0.81
	S17	0.000	0.0	0.0	-7.01	1.58	-1.31
		0.350	0.1	0.0	-7.01	1.58	-0.75
		0.700	0.1	0.0	-7.01	1.58	-0.20
		1.050	0.1	0.1	-7.01	1.58	0.35
		1.400	0.1	0.1	-7.01	1.58	0.90
		1.750	0.1	0.1	-7.01	1.58	1.45
		2.100	0.2	0.1	-7.01	1.58	2.01
		2.450	0.1	0.1	-7.01	1.58	2.56
		2.800	0.1	0.1	-7.01	1.58	3.11
		3.150	0.1	0.1	-7.01	1.58	3.66
		L(3.500)	0.0	-0.0	-7.01	1.58	4.21
		m	mm	mm	kN	kN	kNm

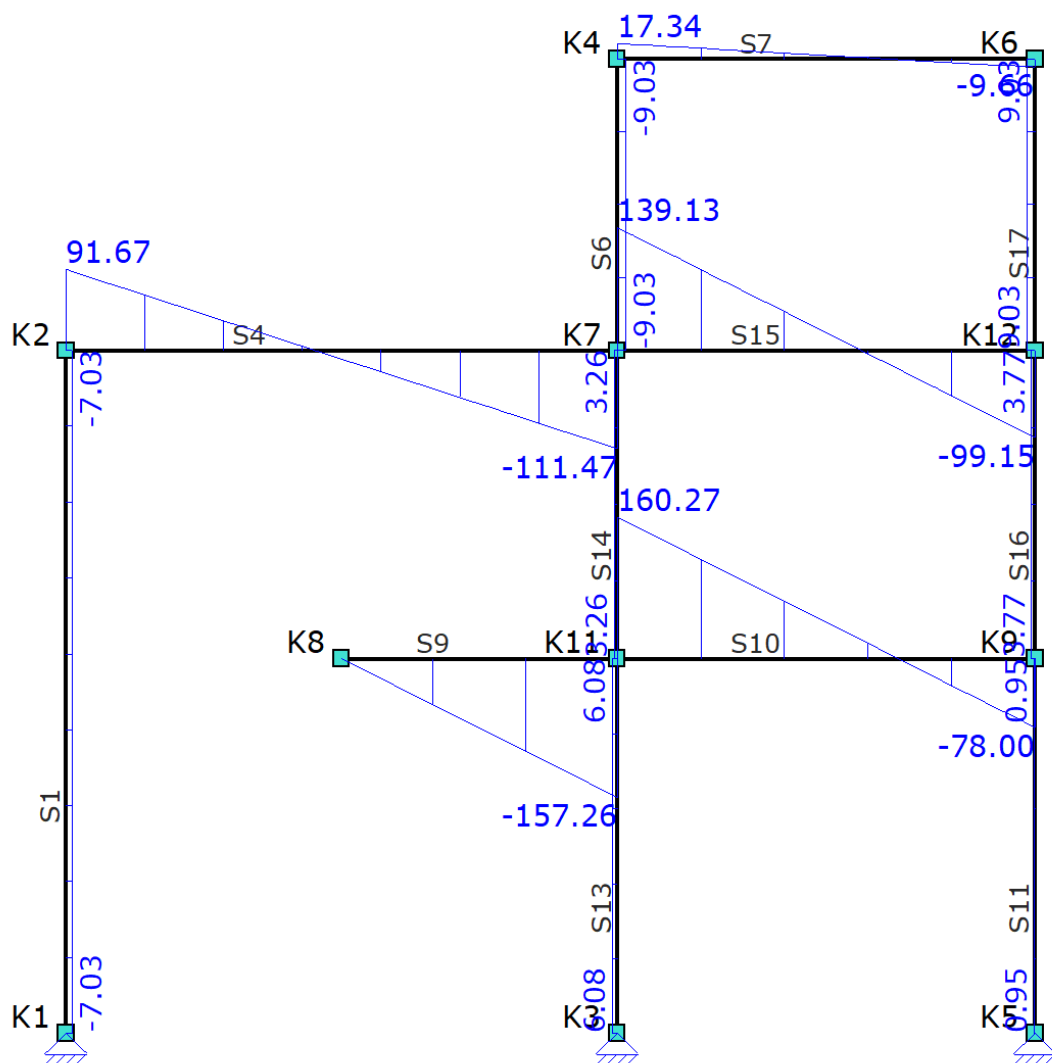
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Fu.C.1 Normalkracht (Nx)



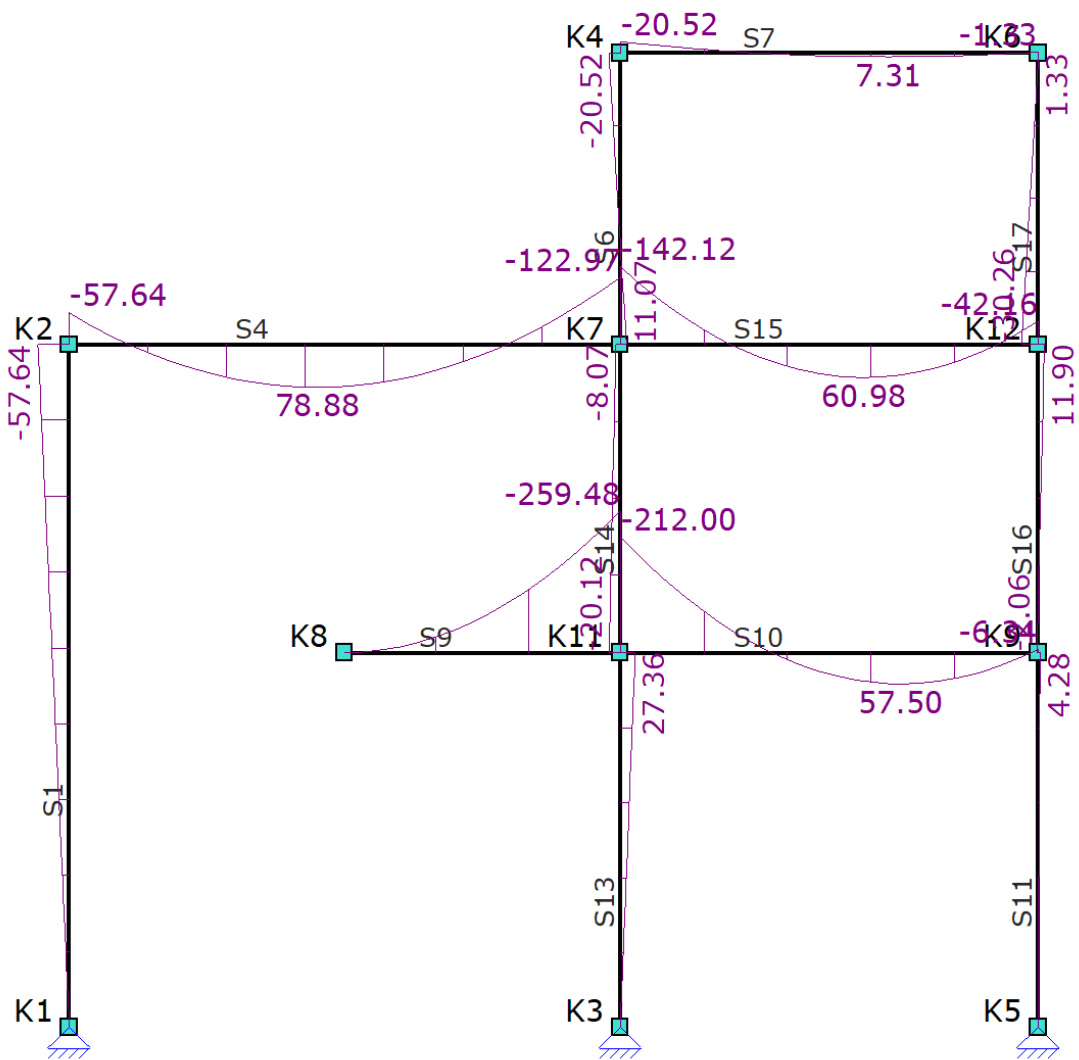
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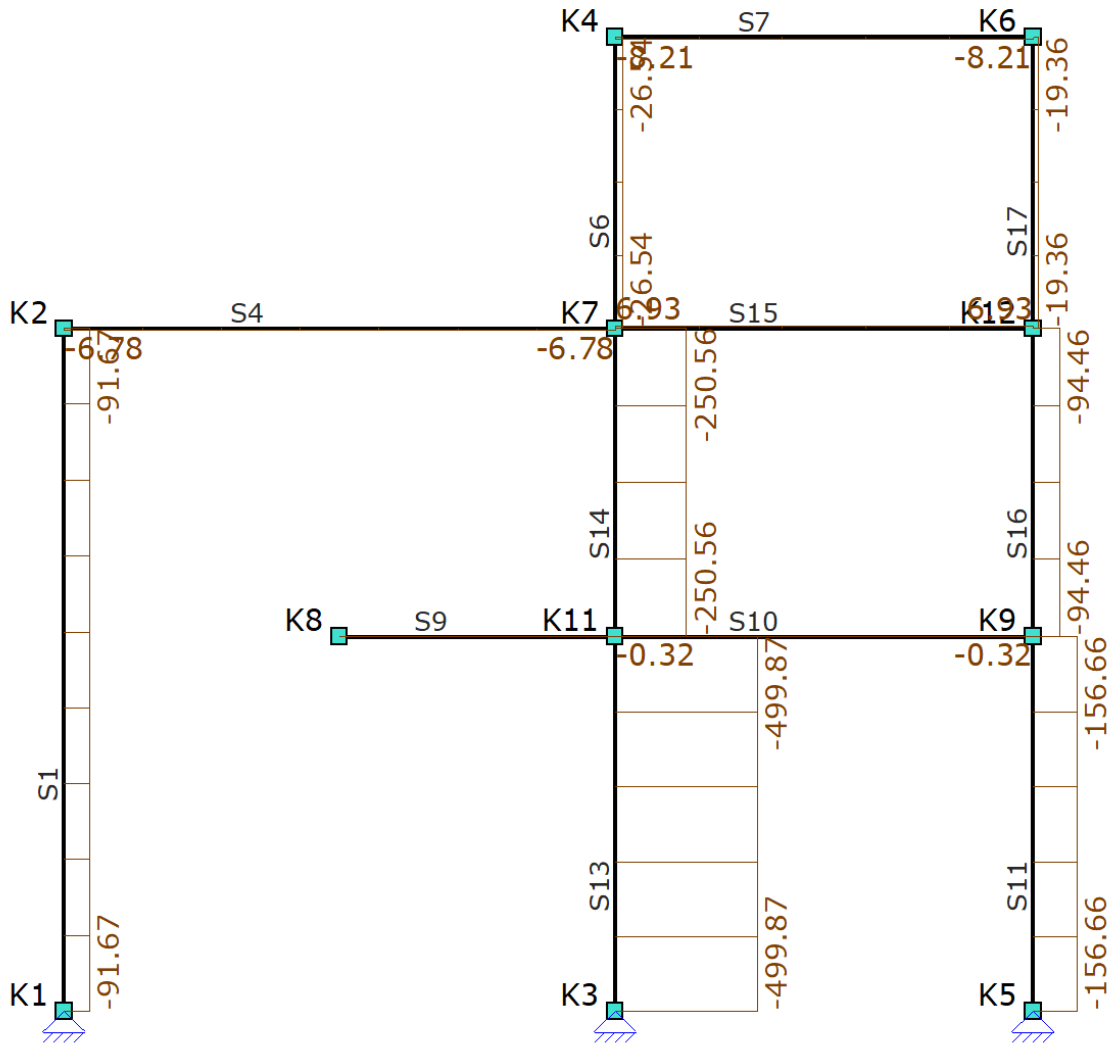
Fu.C.1 Dwarskracht (Vz)



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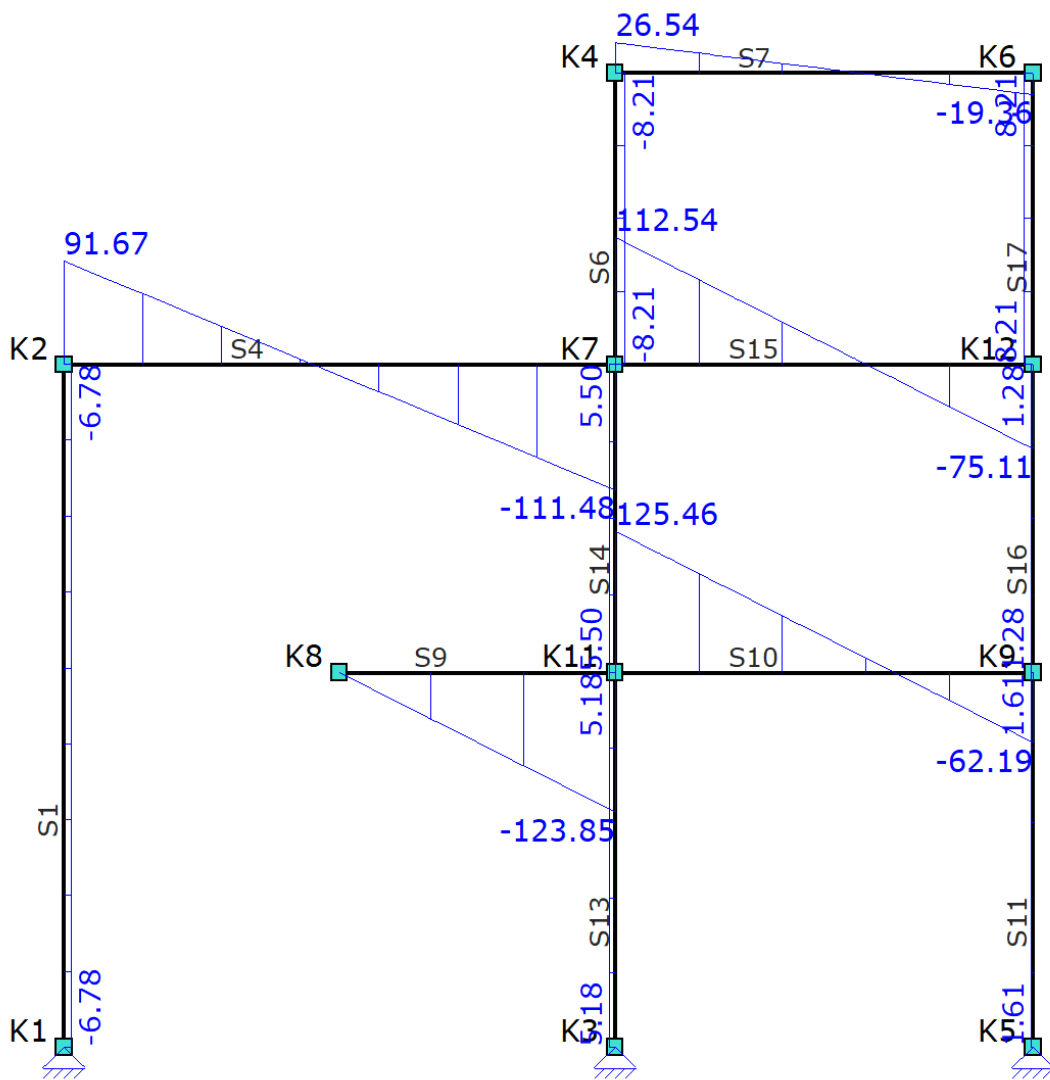
Fu.C.1 Momenten (My)





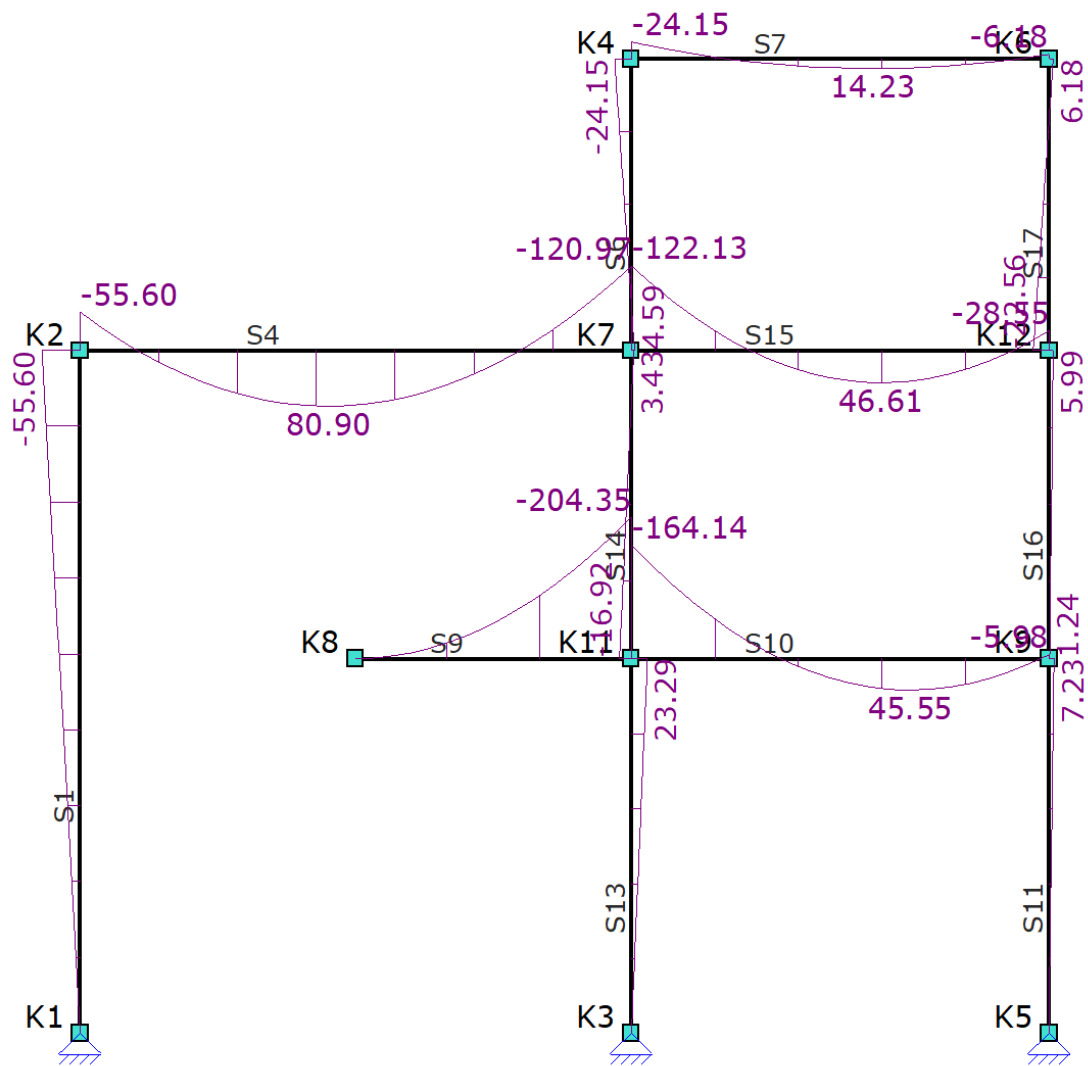
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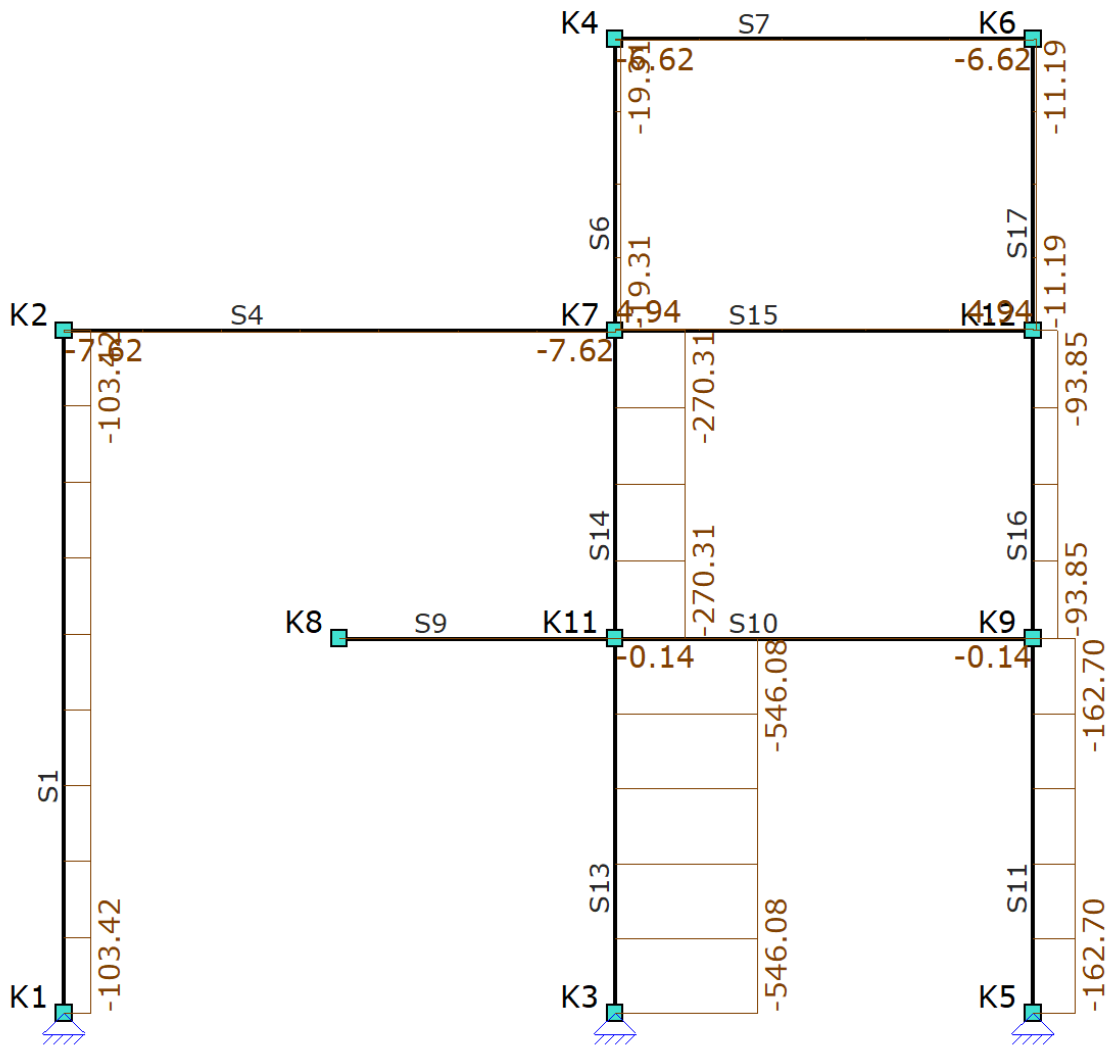
Fu.C.2 Dwarskracht (Vz)



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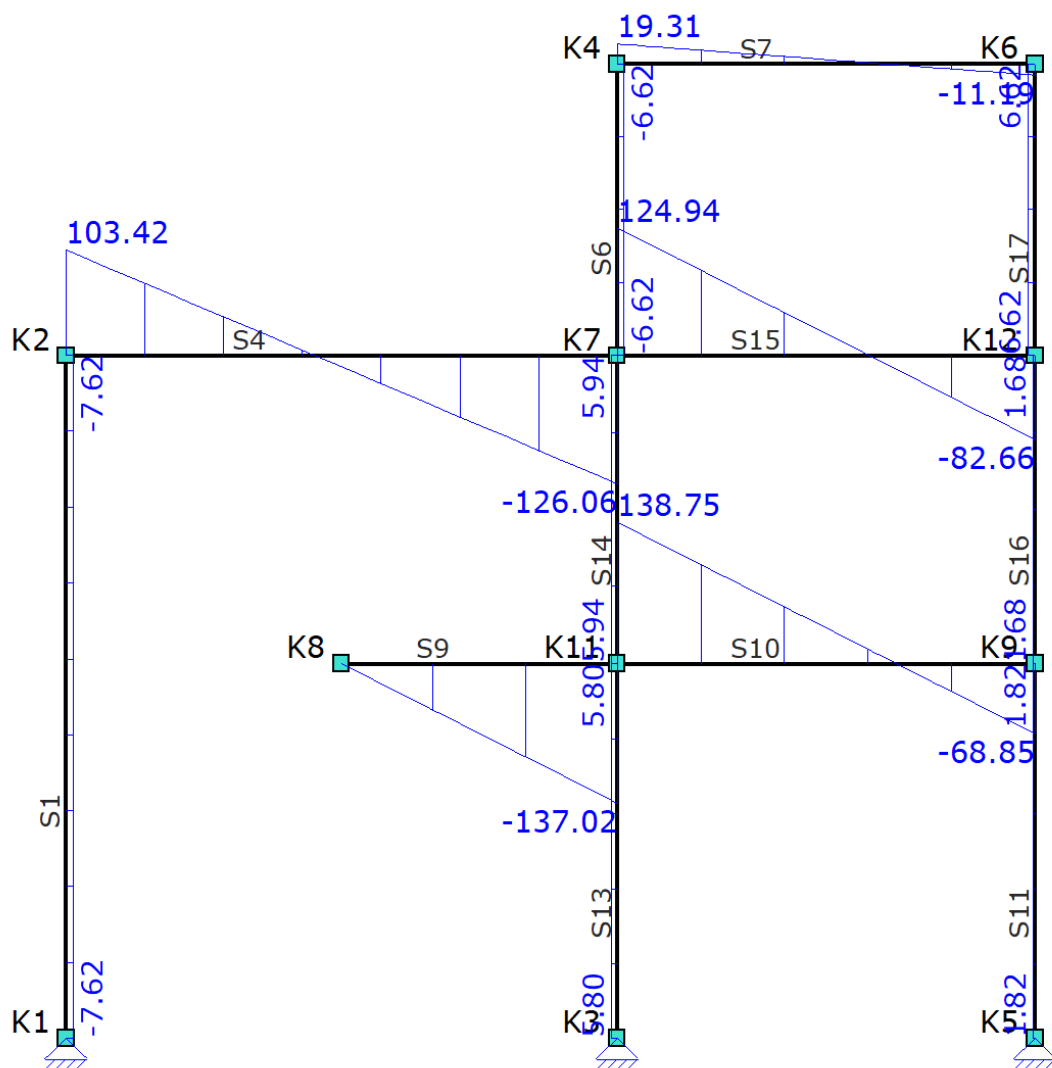
Fu.C.2 Momenten (My)





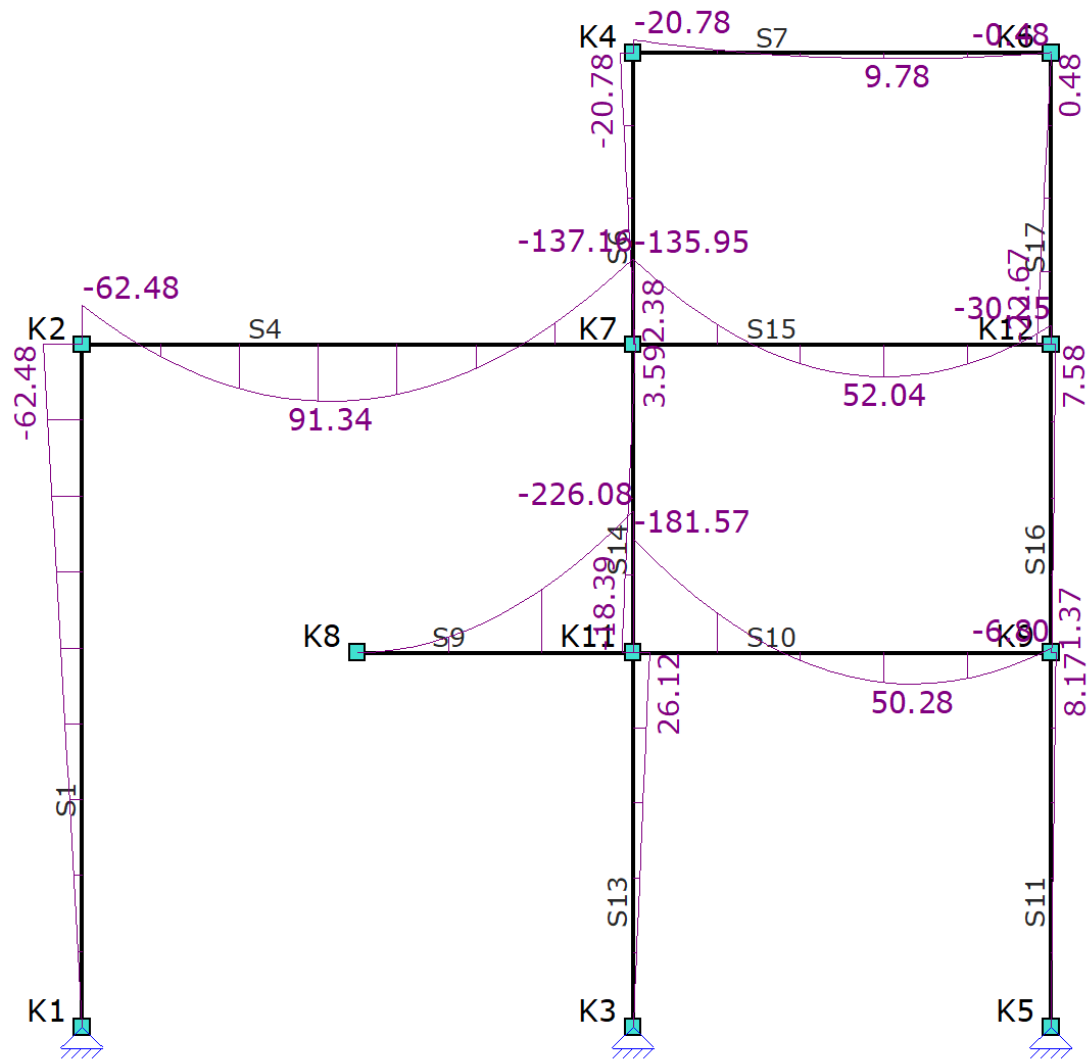
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Fu.C.3 Dwarskracht (Vz)



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Fu.C.3 Momenten (My)



INTERNE KRACHTEN & VERPLAATSINGEN (FUNDAMENTEEL)

B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.1	S1	0.000	0.0	0.0	-91.67	-7.03	0.00
		0.820	-4.6	-2.9	-91.67	-7.03	-5.76
		1.640	-9.1	-5.6	-91.67	-7.03	-11.53
		2.460	-13.1	-8.0	-91.67	-7.03	-17.29
		3.280	-16.7	-9.9	-91.67	-7.03	-23.06
		4.100	-19.6	-11.0	-91.67	-7.03	-28.82
		4.920	-21.5	-11.3	-91.67	-7.03	-34.58
		5.740	-22.4	-10.5	-91.67	-7.03	-40.35
		6.560	-22.1	-8.5	-91.67	-7.03	-46.11
		7.380	-20.4	-5.0	-91.67	-7.03	-51.87
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		L(8.200)	-17.1	0.0	-91.67	-7.03	-57.64
	S4	0.000	0.4	0.0	-7.03	91.67	-57.64
		0.660	4.2	3.6	-7.03	71.36	-3.84
		1.320	8.0	7.3	-7.03	51.05	36.56
		1.980	11.1	10.3	-7.03	30.73	63.54
		2.640	13.0	12.0	-7.03	10.42	77.12
		3.300	13.4	12.2	-7.03	-9.90	77.29
		3.960	12.3	11.0	-7.03	-30.21	64.05
		4.620	10.0	8.4	-7.03	-50.53	37.41
		5.280	6.9	5.2	-7.03	-70.84	-2.64
		5.940	3.9	2.0	-7.03	-91.16	-56.10
		L(6.600)	2.0	-0.0	-7.03	-111.47	-122.97
	S6	0.000	-17.1	0.0	-17.34	-9.03	11.07
		0.350	-17.6	-0.0	-17.34	-9.03	7.91
		0.700	-18.1	-0.1	-17.34	-9.03	4.75
		1.050	-18.7	-0.2	-17.34	-9.03	1.59
		1.400	-19.3	-0.2	-17.34	-9.03	-1.57
		1.750	-19.8	-0.3	-17.34	-9.03	-4.73
		2.100	-20.4	-0.4	-17.34	-9.03	-7.88
		2.450	-20.9	-0.4	-17.34	-9.03	-11.04
		2.800	-21.3	-0.4	-17.34	-9.03	-14.20
		3.150	-21.7	-0.2	-17.34	-9.03	-17.36
		L(3.500)	-21.9	0.0	-17.34	-9.03	-20.52
	S7	0.000	2.0	0.0	-9.03	17.34	-20.52
		0.500	1.8	-0.1	-9.03	14.64	-12.53
		1.000	1.8	0.0	-9.03	11.94	-5.88
		1.500	1.8	0.2	-9.03	9.24	-0.59
		2.000	1.8	0.3	-9.03	6.54	3.36
		2.500	1.8	0.4	-9.03	3.84	5.95
		3.000	1.7	0.5	-9.03	1.14	7.19
		3.500	1.6	0.5	-9.03	-1.56	7.09
		4.000	1.3	0.4	-9.03	-4.26	5.63
		4.500	1.0	0.2	-9.03	-6.96	2.83
		L(5.000)	0.7	-0.0	-9.03	-9.66	-1.33
	S9	0.000	36.3	0.0	0.00	0.00	0.00
		0.330	32.0	-0.8	0.00	-15.73	-2.59
		0.660	27.8	-1.5	0.00	-31.45	-10.38
		0.990	23.6	-2.2	0.00	-47.18	-23.35
		1.320	19.5	-2.8	0.00	-62.90	-41.52
		1.650	15.6	-3.3	0.00	-78.63	-64.87
		1.980	11.8	-3.5	0.00	-94.36	-93.41
		2.310	8.4	-3.5	0.00	-110.08	-127.15
		2.640	5.5	-2.9	0.00	-125.81	-166.07
		2.970	3.1	-1.8	0.00	-141.54	-210.18
		L(3.300)	1.4	0.0	0.00	-157.26	-259.48
	S10	0.000	1.4	0.0	2.82	160.27	-212.00
		0.500	0.3	-1.0	2.82	136.44	-137.82
		1.000	0.3	-0.9	2.82	112.62	-75.56
		1.500	0.9	-0.2	2.82	88.79	-25.21
		2.000	1.7	0.7	2.82	64.96	13.23
		2.500	2.4	1.5	2.82	41.13	39.75
		3.000	2.8	2.0	2.82	17.31	54.36
		3.500	2.8	2.1	2.82	-6.52	57.06
		4.000	2.4	1.7	2.82	-30.35	47.84
		4.500	1.5	1.0	2.82	-54.18	26.71
		L(5.000)	0.5	0.0	2.82	-78.00	-6.34
	S11	0.000	0.0	0.0	-186.81	0.95	0.00
		0.450	-0.8	0.1	-186.81	0.95	0.43
		0.900	-1.5	0.1	-186.81	0.95	0.86
		1.350	-2.3	0.2	-186.81	0.95	1.28
		1.800	-3.1	0.2	-186.81	0.95	1.71
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		2.250	-3.9	0.2	-186.81	0.95	2.14
		2.700	-4.7	0.3	-186.81	0.95	2.57
		3.150	-5.6	0.2	-186.81	0.95	2.99
		3.600	-6.5	0.2	-186.81	0.95	3.42
		4.050	-7.4	0.1	-186.81	0.95	3.85
		L(4.500)	-8.3	-0.0	-186.81	0.95	4.28
	S13	0.000	0.0	0.0	-585.47	6.08	0.00
		0.450	-0.4	0.4	-585.47	6.08	2.74
		0.900	-0.9	0.8	-585.47	6.08	5.47
		1.350	-1.4	1.1	-585.47	6.08	8.21
		1.800	-1.9	1.4	-585.47	6.08	10.94
		2.250	-2.6	1.6	-585.47	6.08	13.68
		2.700	-3.4	1.6	-585.47	6.08	16.41
		3.150	-4.3	1.5	-585.47	6.08	19.15
		3.600	-5.5	1.2	-585.47	6.08	21.88
		4.050	-6.8	0.7	-585.47	6.08	24.62
		L(4.500)	-8.3	-0.0	-585.47	6.08	27.36
	S14	0.000	-8.3	0.0	-267.94	3.26	-20.12
		0.370	-9.6	-0.4	-267.94	3.26	-18.92
		0.740	-10.8	-0.8	-267.94	3.26	-17.71
		1.110	-11.9	-1.0	-267.94	3.26	-16.51
		1.480	-12.9	-1.1	-267.94	3.26	-15.30
		1.850	-13.8	-1.1	-267.94	3.26	-14.10
		2.220	-14.6	-1.0	-267.94	3.26	-12.89
		2.590	-15.3	-0.9	-267.94	3.26	-11.69
		2.960	-16.0	-0.6	-267.94	3.26	-10.48
		3.330	-16.6	-0.4	-267.94	3.26	-9.28
		L(3.700)	-17.1	-0.0	-267.94	3.26	-8.07
	S15	0.000	2.0	0.0	5.25	139.13	-142.12
		0.500	2.0	0.1	5.25	115.30	-78.51
		1.000	2.9	1.2	5.25	91.47	-26.81
		1.500	4.1	2.6	5.25	67.65	12.97
		2.000	5.2	3.8	5.25	43.82	40.83
		2.500	5.9	4.5	5.25	19.99	56.78
		3.000	5.9	4.7	5.25	-3.84	60.82
		3.500	5.2	4.1	5.25	-27.66	52.95
		4.000	4.0	3.0	5.25	-51.49	33.16
		4.500	2.3	1.5	5.25	-75.32	1.46
		L(5.000)	0.7	-0.0	5.25	-99.15	-42.16
	S16	0.000	-8.3	0.0	-108.81	3.77	-2.06
		0.370	-9.1	0.1	-108.81	3.77	-0.66
		0.740	-9.9	0.2	-108.81	3.77	0.73
		1.110	-10.7	0.3	-108.81	3.77	2.13
		1.480	-11.5	0.3	-108.81	3.77	3.52
		1.850	-12.3	0.4	-108.81	3.77	4.92
		2.220	-13.2	0.4	-108.81	3.77	6.31
		2.590	-14.1	0.4	-108.81	3.77	7.71
		2.960	-15.0	0.3	-108.81	3.77	9.11
		3.330	-16.0	0.2	-108.81	3.77	10.50
		L(3.700)	-17.1	-0.0	-108.81	3.77	11.90
	S17	0.000	-17.1	0.0	-9.66	9.03	-30.26
		0.350	-18.0	-0.5	-9.66	9.03	-27.10
		0.700	-18.8	-0.8	-9.66	9.03	-23.94
		1.050	-19.5	-1.0	-9.66	9.03	-20.78
		1.400	-20.1	-1.0	-9.66	9.03	-17.63
		1.750	-20.5	-1.0	-9.66	9.03	-14.47
		2.100	-20.9	-0.9	-9.66	9.03	-11.31
		2.450	-21.2	-0.7	-9.66	9.03	-8.15
		2.800	-21.5	-0.5	-9.66	9.03	-4.99
		3.150	-21.7	-0.3	-9.66	9.03	-1.83
		L(3.500)	-22.0	0.0	-9.66	9.03	1.33

m mm mm kN kN kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.2	S1	0.000	0.0	0.0	-91.67	-6.78	0.00
		0.820	-4.1	-2.8	-91.67	-6.78	-5.56
		1.640	-8.0	-5.4	-91.67	-6.78	-11.12
		2.460	-11.6	-7.7	-91.67	-6.78	-16.68
		3.280	-14.7	-9.5	-91.67	-6.78	-22.24
		4.100	-17.0	-10.6	-91.67	-6.78	-27.80
		4.920	-18.6	-10.9	-91.67	-6.78	-33.36
		5.740	-19.1	-10.1	-91.67	-6.78	-38.92
		6.560	-18.4	-8.2	-91.67	-6.78	-44.48
		7.380	-16.4	-4.9	-91.67	-6.78	-50.04
	S4	L(8.200)	-12.8	0.0	-91.67	-6.78	-55.60
		0.000	0.4	0.0	-6.78	91.67	-55.60
		0.660	4.3	3.8	-6.78	71.36	-1.81
		1.320	8.3	7.6	-6.78	51.04	38.58
		1.980	11.5	10.7	-6.78	30.73	65.57
		2.640	13.4	12.5	-6.78	10.41	79.14
		3.300	13.8	12.7	-6.78	-9.90	79.31
		3.960	12.7	11.4	-6.78	-30.22	66.07
		4.620	10.2	8.9	-6.78	-50.53	39.42
		5.280	7.0	5.5	-6.78	-70.85	-0.64
	S6	5.940	3.8	2.2	-6.78	-91.16	-54.10
		L(6.600)	1.7	-0.0	-6.78	-111.48	-120.97
		0.000	-12.8	0.0	-26.54	-8.21	4.59
		0.350	-13.4	-0.1	-26.54	-8.21	1.71
		0.700	-14.0	-0.3	-26.54	-8.21	-1.16
		1.050	-14.6	-0.5	-26.54	-8.21	-4.03
		1.400	-15.2	-0.6	-26.54	-8.21	-6.91
		1.750	-15.7	-0.7	-26.54	-8.21	-9.78
		2.100	-16.2	-0.7	-26.54	-8.21	-12.65
		2.450	-16.7	-0.7	-26.54	-8.21	-15.53
	S7	2.800	-17.0	-0.6	-26.54	-8.21	-18.40
		3.150	-17.2	-0.3	-26.54	-8.21	-21.27
		L(3.500)	-17.3	0.0	-26.54	-8.21	-24.15
		0.000	1.8	0.0	-8.21	26.54	-24.15
		0.500	1.8	0.2	-8.21	21.95	-12.02
		1.000	2.0	0.5	-8.21	17.36	-2.19
		1.500	2.3	0.8	-8.21	12.77	5.34
		2.000	2.4	1.1	-8.21	8.18	10.58
		2.500	2.4	1.2	-8.21	3.59	13.52
		3.000	2.3	1.3	-8.21	-1.00	14.17
	S9	3.500	2.1	1.1	-8.21	-5.59	12.53
		4.000	1.7	0.8	-8.21	-10.18	8.59
		4.500	1.1	0.4	-8.21	-14.77	2.35
		L(5.000)	0.6	-0.0	-8.21	-19.36	-6.18
		0.000	28.3	0.0	0.00	0.00	0.00
		0.330	25.0	-0.6	0.00	-12.38	-2.04
		0.660	21.7	-1.2	0.00	-24.77	-8.17
		0.990	18.5	-1.7	0.00	-37.15	-18.39
		1.320	15.3	-2.2	0.00	-49.54	-32.70
		1.650	12.2	-2.6	0.00	-61.92	-51.09
	S10	1.980	9.3	-2.8	0.00	-74.31	-73.57
		2.310	6.6	-2.7	0.00	-86.69	-100.13
		2.640	4.3	-2.3	0.00	-99.08	-130.78
		2.970	2.5	-1.4	0.00	-111.46	-165.52
		L(3.300)	1.2	0.0	0.00	-123.85	-204.35
		0.000	1.2	0.0	-0.32	125.46	-164.14
		0.500	0.4	-0.8	-0.32	106.69	-106.11
		1.000	0.4	-0.6	-0.32	87.93	-57.45
		1.500	0.9	-0.1	-0.32	69.16	-18.18
		2.000	1.5	0.6	-0.32	50.40	11.71
	2.500	2.1	1.3	-0.32	31.63	32.22	
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		3.000	2.4	1.6	-0.32	12.87	43.34
		3.500	2.3	1.7	-0.32	-5.90	45.08
		4.000	1.9	1.4	-0.32	-24.66	37.44
		4.500	1.2	0.8	-0.32	-43.43	20.42
		L(5.000)	0.4	-0.0	-0.32	-62.19	-5.98
	S11	0.000	0.0	0.0	-156.66	1.61	0.00
		0.450	-0.4	0.1	-156.66	1.61	0.72
		0.900	-0.9	0.2	-156.66	1.61	1.45
		1.350	-1.4	0.3	-156.66	1.61	2.17
		1.800	-1.8	0.4	-156.66	1.61	2.89
		2.250	-2.4	0.4	-156.66	1.61	3.61
		2.700	-2.9	0.4	-156.66	1.61	4.34
		3.150	-3.5	0.4	-156.66	1.61	5.06
		3.600	-4.1	0.3	-156.66	1.61	5.78
		4.050	-4.8	0.2	-156.66	1.61	6.50
		L(4.500)	-5.5	-0.0	-156.66	1.61	7.23
	S13	0.000	0.0	0.0	-499.87	5.18	0.00
		0.450	-0.2	0.4	-499.87	5.18	2.33
		0.900	-0.4	0.7	-499.87	5.18	4.66
		1.350	-0.7	1.0	-499.87	5.18	6.99
		1.800	-1.0	1.2	-499.87	5.18	9.32
		2.250	-1.4	1.3	-499.87	5.18	11.64
		2.700	-1.9	1.4	-499.87	5.18	13.97
		3.150	-2.6	1.3	-499.87	5.18	16.30
		3.600	-3.4	1.0	-499.87	5.18	18.63
		4.050	-4.4	0.6	-499.87	5.18	20.96
		L(4.500)	-5.5	-0.0	-499.87	5.18	23.29
	S14	0.000	-5.5	0.0	-250.56	5.50	-16.92
		0.370	-6.5	-0.3	-250.56	5.50	-14.88
		0.740	-7.4	-0.4	-250.56	5.50	-12.85
		1.110	-8.3	-0.5	-250.56	5.50	-10.81
		1.480	-9.0	-0.6	-250.56	5.50	-8.78
		1.850	-9.7	-0.5	-250.56	5.50	-6.75
		2.220	-10.4	-0.5	-250.56	5.50	-4.71
		2.590	-11.0	-0.4	-250.56	5.50	-2.68
		2.960	-11.6	-0.2	-250.56	5.50	-0.64
		3.330	-12.2	-0.1	-250.56	5.50	1.39
		L(3.700)	-12.8	0.0	-250.56	5.50	3.43
	S15	0.000	1.7	0.0	6.93	112.54	-122.13
		0.500	1.5	-0.1	6.93	93.78	-70.55
		1.000	2.1	0.5	6.93	75.01	-28.36
		1.500	3.0	1.6	6.93	56.25	4.46
		2.000	3.8	2.5	6.93	37.48	27.89
		2.500	4.3	3.2	6.93	18.72	41.94
		3.000	4.4	3.4	6.93	-0.05	46.61
		3.500	4.0	3.0	6.93	-18.81	41.89
		4.000	3.1	2.3	6.93	-37.58	27.80
		4.500	1.8	1.1	6.93	-56.34	4.32
		L(5.000)	0.6	0.0	6.93	-75.11	-28.55
	S16	0.000	-5.5	0.0	-94.46	1.28	1.24
		0.370	-6.2	0.1	-94.46	1.28	1.72
		0.740	-6.8	0.2	-94.46	1.28	2.19
		1.110	-7.5	0.2	-94.46	1.28	2.67
		1.480	-8.2	0.3	-94.46	1.28	3.14
		1.850	-8.9	0.3	-94.46	1.28	3.61
		2.220	-9.6	0.3	-94.46	1.28	4.09
		2.590	-10.4	0.3	-94.46	1.28	4.56
		2.960	-11.1	0.2	-94.46	1.28	5.04
		3.330	-12.0	0.1	-94.46	1.28	5.51
		L(3.700)	-12.8	-0.0	-94.46	1.28	5.99
	S17	0.000	-12.8	0.0	-19.36	8.21	-22.56
		m	mm	mm	kN	kN	kNm

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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My		
Fu.C.3	S1		0.350	-13.6	-0.3	-19.36	8.21	-19.68	
			0.700	-14.2	-0.5	-19.36	8.21	-16.81	
			1.050	-14.8	-0.6	-19.36	8.21	-13.94	
			1.400	-15.2	-0.6	-19.36	8.21	-11.06	
			1.750	-15.6	-0.6	-19.36	8.21	-8.19	
			2.100	-16.0	-0.5	-19.36	8.21	-5.32	
			2.450	-16.3	-0.4	-19.36	8.21	-2.44	
			2.800	-16.7	-0.2	-19.36	8.21	0.43	
			3.150	-17.0	-0.1	-19.36	8.21	3.31	
			L(3.500)	-17.3	-0.0	-19.36	8.21	6.18	
			0.000	0.0	0.0	-103.42	-7.62	0.00	
			0.820	-4.6	-3.2	-103.42	-7.62	-6.25	
			1.640	-8.9	-6.1	-103.42	-7.62	-12.50	
			2.460	-12.9	-8.7	-103.42	-7.62	-18.74	
			3.280	-16.4	-10.7	-103.42	-7.62	-24.99	
	S4		4.100	-19.0	-12.0	-103.42	-7.62	-31.24	
			4.920	-20.7	-12.2	-103.42	-7.62	-37.49	
			5.740	-21.3	-11.4	-103.42	-7.62	-43.73	
			6.560	-20.5	-9.2	-103.42	-7.62	-49.98	
			7.380	-18.2	-5.5	-103.42	-7.62	-56.23	
			L(8.200)	-14.1	0.0	-103.42	-7.62	-62.48	
			0.000	0.5	0.0	-7.62	103.42	-62.48	
			0.660	4.9	4.3	-7.62	80.48	-1.79	
			1.320	9.3	8.6	-7.62	57.53	43.75	
			1.980	13.0	12.1	-7.62	34.58	74.15	
			2.640	15.1	14.1	-7.62	11.63	89.40	
			3.300	15.6	14.4	-7.62	-11.32	89.50	
			3.960	14.2	12.9	-7.62	-34.26	74.46	
			4.620	11.4	10.0	-7.62	-57.21	44.27	
			5.280	7.8	6.2	-7.62	-80.16	-1.06	
	S6		5.940	4.2	2.5	-7.62	-103.11	-61.54	
			L(6.600)	1.9	-0.0	-7.62	-126.06	-137.16	
			0.000	-14.2	0.0	-19.31	-6.62	2.38	
			0.350	-14.8	-0.2	-19.31	-6.62	0.06	
			0.700	-15.5	-0.3	-19.31	-6.62	-2.26	
			1.050	-16.1	-0.4	-19.31	-6.62	-4.57	
			1.400	-16.8	-0.6	-19.31	-6.62	-6.89	
			1.750	-17.3	-0.6	-19.31	-6.62	-9.20	
			2.100	-17.9	-0.7	-19.31	-6.62	-11.52	
			2.450	-18.3	-0.6	-19.31	-6.62	-13.83	
			2.800	-18.7	-0.5	-19.31	-6.62	-16.15	
			3.150	-19.0	-0.3	-19.31	-6.62	-18.46	
			L(3.500)	-19.2	0.0	-19.31	-6.62	-20.78	
		S7		0.000	1.9	0.0	-6.62	19.31	-20.78
				0.500	1.8	0.0	-6.62	16.26	-11.89
			1.000	1.9	0.2	-6.62	13.21	-4.52	
			1.500	1.9	0.4	-6.62	10.16	1.32	
			2.000	2.0	0.6	-6.62	7.11	5.64	
			2.500	2.0	0.7	-6.62	4.06	8.43	
			3.000	1.9	0.8	-6.62	1.01	9.70	
			3.500	1.7	0.7	-6.62	-2.04	9.44	
			4.000	1.4	0.6	-6.62	-5.09	7.66	
			4.500	1.0	0.3	-6.62	-8.14	4.35	
			L(5.000)	0.6	0.0	-6.62	-11.19	-0.48	
	S9			0.000	31.3	0.0	0.00	0.00	0.00
				0.330	27.7	-0.7	0.00	-13.70	-2.26
				0.660	24.0	-1.3	0.00	-27.40	-9.04
				0.990	20.4	-1.9	0.00	-41.10	-20.35
			1.320	16.9	-2.5	0.00	-54.81	-36.17	
			1.650	13.5	-2.9	0.00	-68.51	-56.52	
			1.980	10.3	-3.1	0.00	-82.21	-81.39	
			m	mm	mm	kN	kN	kNm	

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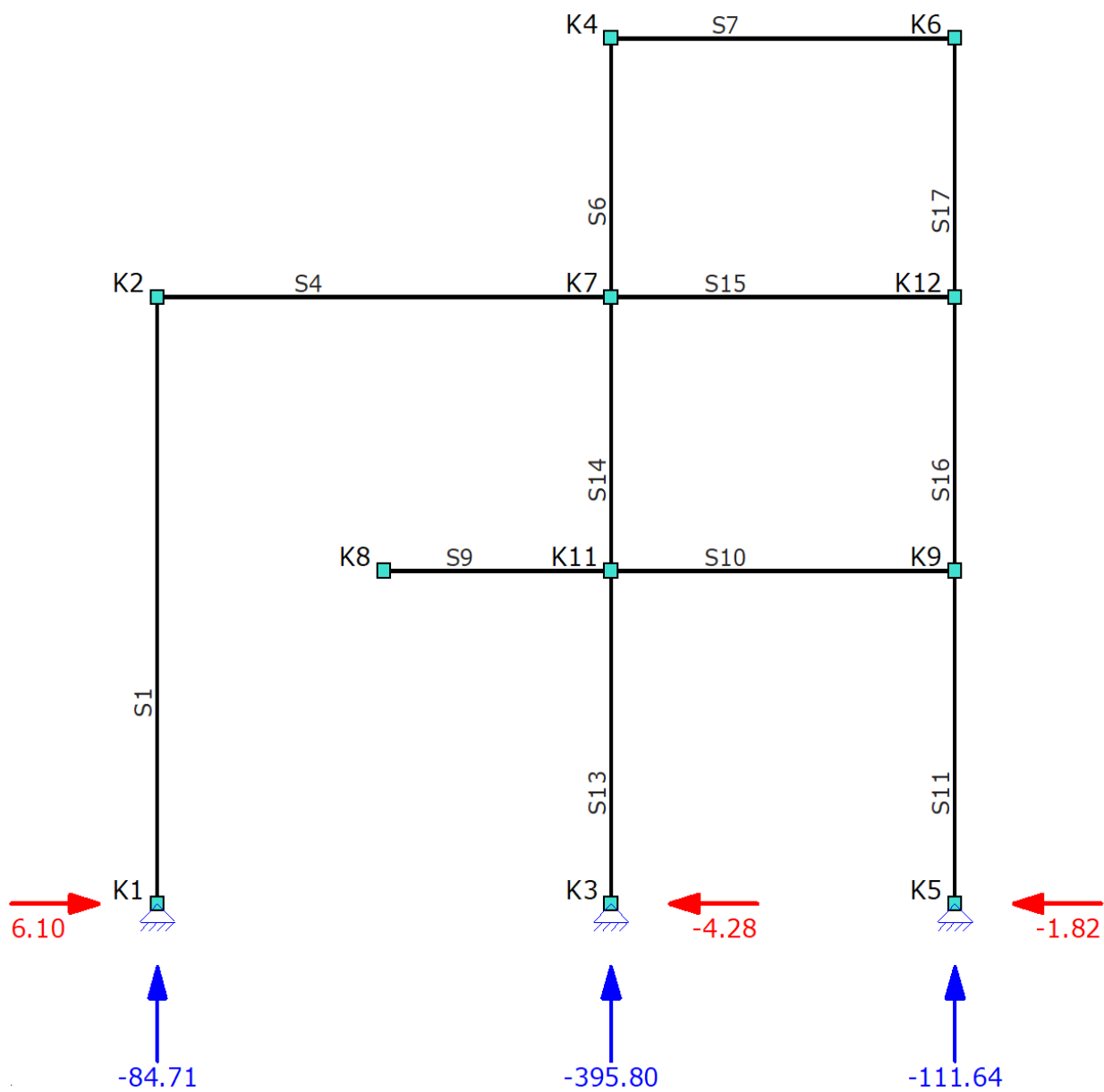
B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
		2.310	7.3	-3.0	0.00	-95.91	-110.78
		2.640	4.8	-2.6	0.00	-109.61	-144.69
		2.970	2.7	-1.6	0.00	-123.31	-183.12
		L(3.300)	1.3	0.0	0.00	-137.02	-226.08
	S10	0.000	1.3	0.0	-0.14	138.75	-181.57
		0.500	0.4	-0.8	-0.14	117.99	-117.38
		1.000	0.4	-0.7	-0.14	97.23	-63.57
		1.500	1.0	-0.1	-0.14	76.47	-20.15
		2.000	1.7	0.7	-0.14	55.71	12.90
		2.500	2.3	1.4	-0.14	34.95	35.57
		3.000	2.6	1.8	-0.14	14.19	47.85
		3.500	2.5	1.9	-0.14	-6.57	49.76
		4.000	2.1	1.5	-0.14	-27.33	41.29
		4.500	1.3	0.8	-0.14	-48.09	22.43
		L(5.000)	0.4	0.0	-0.14	-68.85	-6.80
	S11	0.000	0.0	0.0	-162.70	1.82	0.00
		0.450	-0.5	0.1	-162.70	1.82	0.82
		0.900	-1.0	0.2	-162.70	1.82	1.63
		1.350	-1.5	0.3	-162.70	1.82	2.45
		1.800	-2.0	0.4	-162.70	1.82	3.27
		2.250	-2.5	0.5	-162.70	1.82	4.09
		2.700	-3.1	0.5	-162.70	1.82	4.90
		3.150	-3.8	0.4	-162.70	1.82	5.72
		3.600	-4.5	0.4	-162.70	1.82	6.54
		4.050	-5.2	0.2	-162.70	1.82	7.35
		L(4.500)	-6.0	-0.0	-162.70	1.82	8.17
	S13	0.000	0.0	0.0	-546.08	5.80	0.00
		0.450	-0.2	0.4	-546.08	5.80	2.61
		0.900	-0.4	0.8	-546.08	5.80	5.22
		1.350	-0.7	1.1	-546.08	5.80	7.83
		1.800	-1.1	1.3	-546.08	5.80	10.45
		2.250	-1.5	1.5	-546.08	5.80	13.06
		2.700	-2.1	1.5	-546.08	5.80	15.67
		3.150	-2.8	1.4	-546.08	5.80	18.28
		3.600	-3.7	1.2	-546.08	5.80	20.89
		4.050	-4.7	0.7	-546.08	5.80	23.50
		L(4.500)	-6.0	-0.0	-546.08	5.80	26.12
	S14	0.000	-6.0	0.0	-270.31	5.94	-18.39
		0.370	-7.1	-0.3	-270.31	5.94	-16.20
		0.740	-8.1	-0.5	-270.31	5.94	-14.00
		1.110	-9.1	-0.6	-270.31	5.94	-11.80
		1.480	-9.9	-0.6	-270.31	5.94	-9.60
		1.850	-10.7	-0.6	-270.31	5.94	-7.40
		2.220	-11.4	-0.5	-270.31	5.94	-5.20
		2.590	-12.1	-0.4	-270.31	5.94	-3.00
		2.960	-12.8	-0.3	-270.31	5.94	-0.80
		3.330	-13.5	-0.1	-270.31	5.94	1.39
		L(3.700)	-14.2	-0.0	-270.31	5.94	3.59
	S15	0.000	1.9	0.0	4.94	124.94	-135.95
		0.500	1.6	-0.1	4.94	104.18	-78.67
		1.000	2.2	0.6	4.94	83.42	-31.77
		1.500	3.2	1.7	4.94	62.66	4.75
		2.000	4.2	2.8	4.94	41.90	30.89
		2.500	4.8	3.6	4.94	21.14	46.65
		3.000	4.9	3.8	4.94	0.38	52.03
		3.500	4.4	3.4	4.94	-20.38	47.03
		4.000	3.4	2.5	4.94	-41.14	31.65
		4.500	2.0	1.3	4.94	-61.90	5.89
		L(5.000)	0.6	-0.0	4.94	-82.66	-30.25
	S16	0.000	-6.0	0.0	-93.85	1.68	1.37
		0.370	-6.7	0.1	-93.85	1.68	1.99
		m	mm	mm	kN	kN	kNm

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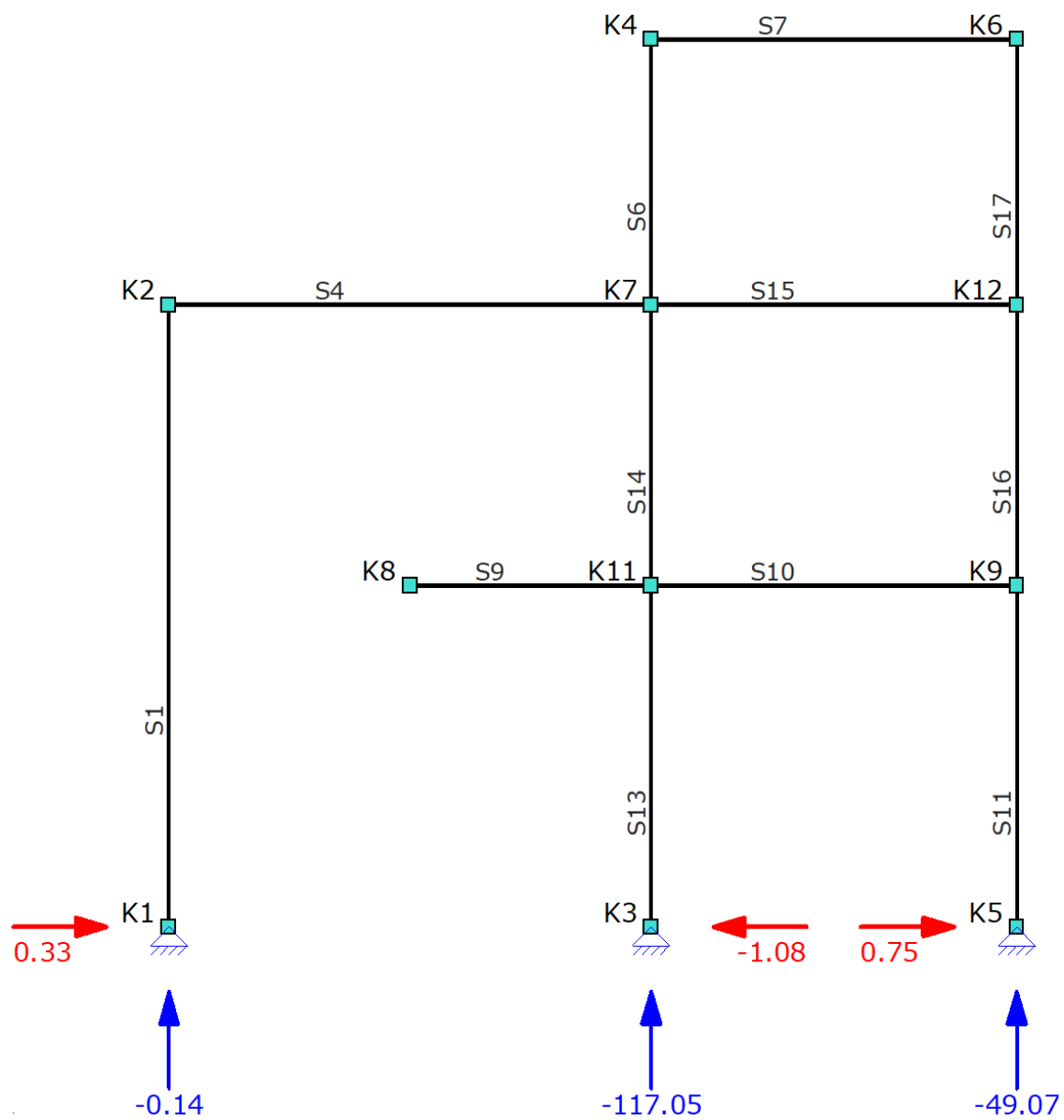
B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		0.740	-7.5	0.2	-93.85	1.68	2.61
		1.110	-8.2	0.3	-93.85	1.68	3.23
		1.480	-9.0	0.3	-93.85	1.68	3.85
		1.850	-9.7	0.3	-93.85	1.68	4.47
		2.220	-10.6	0.4	-93.85	1.68	5.09
		2.590	-11.4	0.3	-93.85	1.68	5.71
		2.960	-12.3	0.3	-93.85	1.68	6.33
		3.330	-13.2	0.1	-93.85	1.68	6.95
		L(3.700)	-14.1	-0.0	-93.85	1.68	7.58
	S17	0.000	-14.1	0.0	-11.19	6.62	-22.67
		0.350	-15.0	-0.4	-11.19	6.62	-20.36
		0.700	-15.8	-0.6	-11.19	6.62	-18.04
		1.050	-16.4	-0.7	-11.19	6.62	-15.73
		1.400	-17.0	-0.8	-11.19	6.62	-13.41
		1.750	-17.5	-0.8	-11.19	6.62	-11.09
		2.100	-17.9	-0.7	-11.19	6.62	-8.78
		2.450	-18.3	-0.6	-11.19	6.62	-6.46
		2.800	-18.6	-0.4	-11.19	6.62	-4.15
		3.150	-19.0	-0.2	-11.19	6.62	-1.83
		L(3.500)	-19.3	-0.0	-11.19	6.62	0.48
		m	mm	mm	kN	kN	kNm

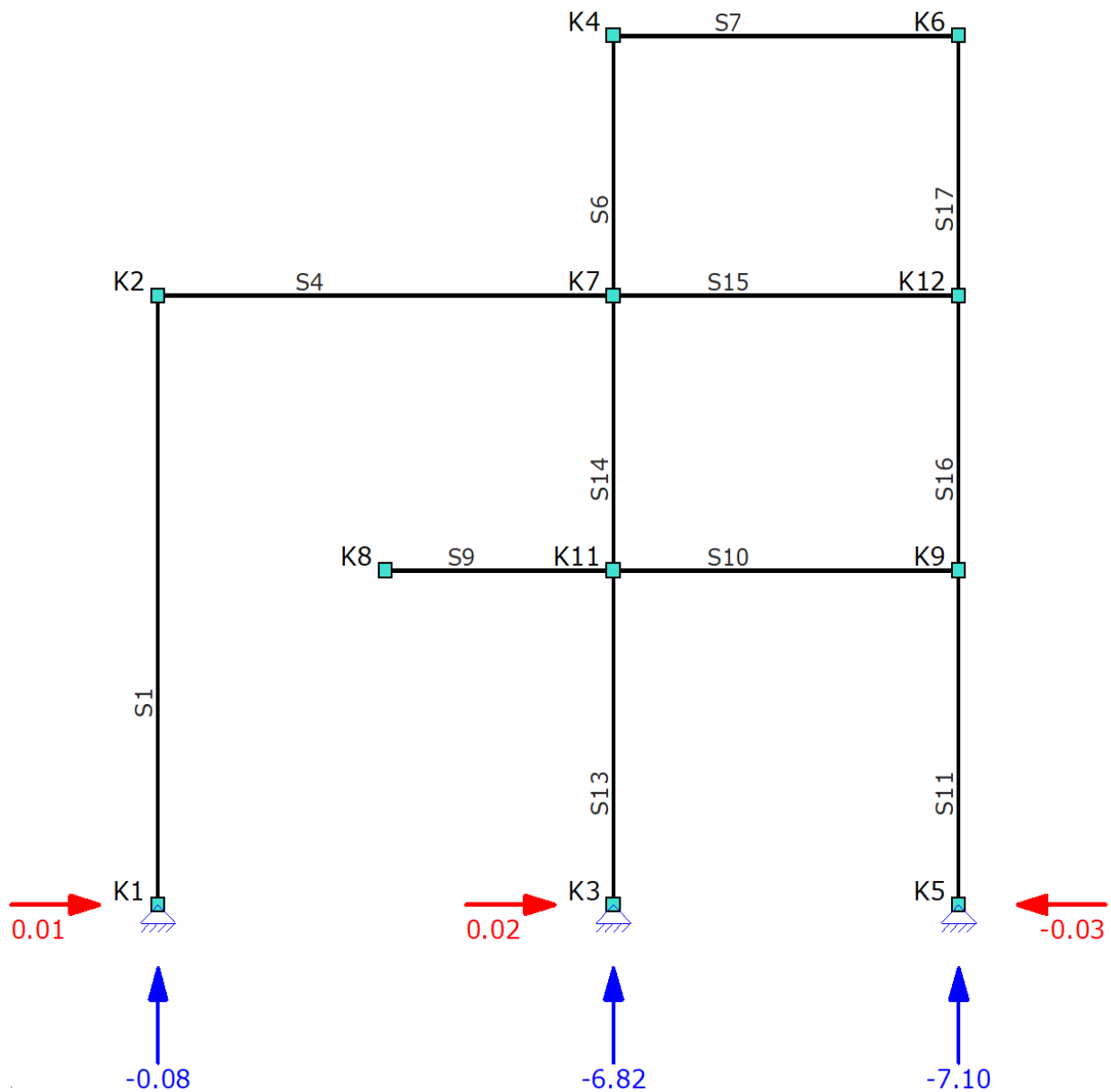
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B.G.1 Oplegreacties



B.G.2 Oplegreacties

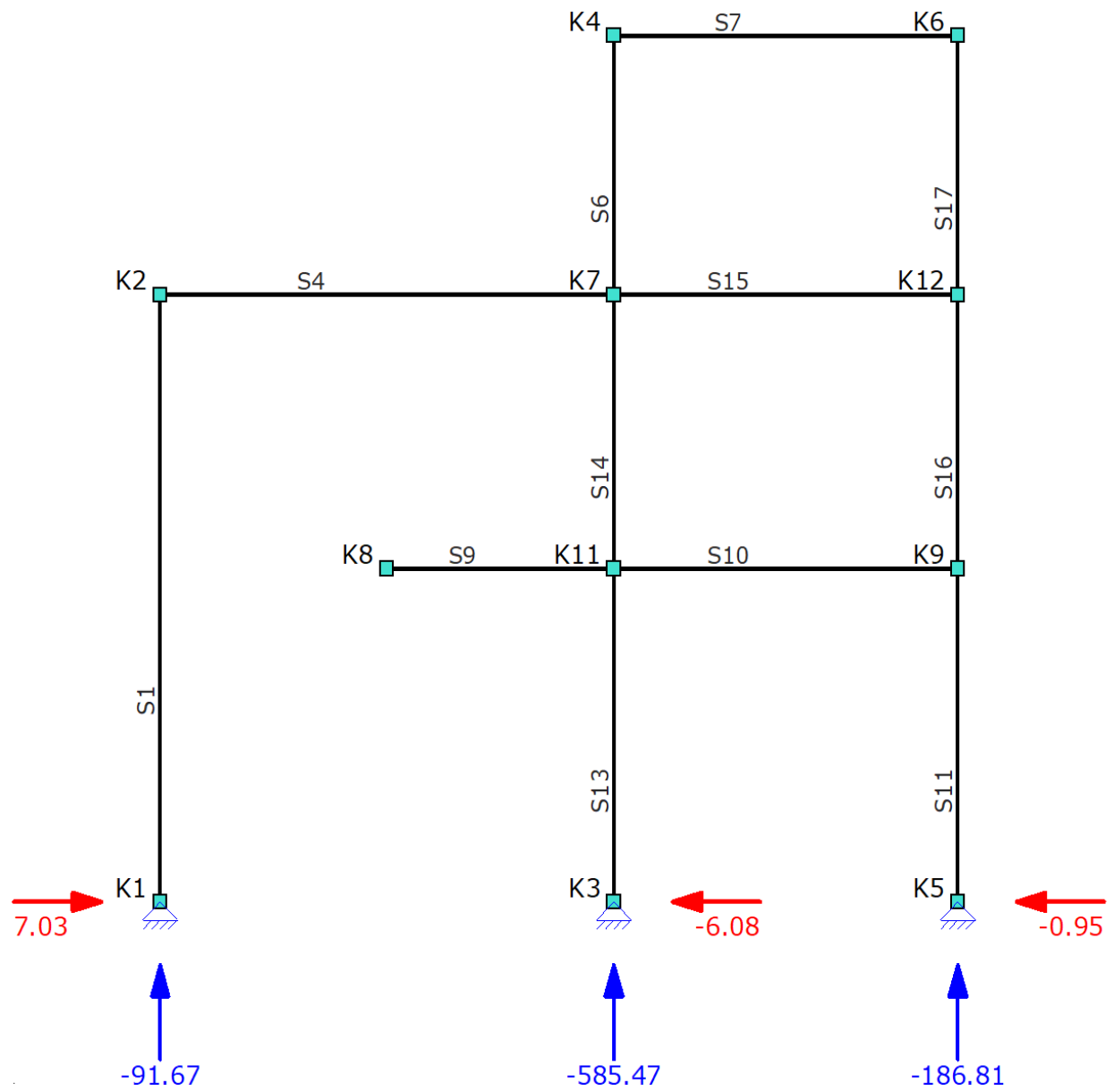


**EXTREME OPLEGREACTIES (BELASTINGSGEVALLEN)**

Oplegging	Afbouw	B.G.	X _{max}	Z	Y _r	B.G.	X	Z _{max}	Y _r	B.G.	X	Z	Y _r max
O1	K1	B.G.1	6.10	-84.71	0.00								
		B.G.1	6.10	-84.71	0.00								
O2	K3	B.G.3	0.02	-6.82	0.00								
		B.G.1	-4.28	-395.80	0.00	B.G.1	-4.28	-395.80	0.00				
O3	K5	B.G.2	0.75	-49.07	0.00								
		B.G.1	-1.82	-111.64	0.00	B.G.1	-1.82	-111.64	0.00				
Globale extreme waarden													
O2	K3	B.G.1	-4.28	-395.80	0.00	B.G.1	-4.28	-395.80	0.00				
O1	K1	B.G.1	6.10	-84.71	0.00								
			kN	kN	kNm		kN	kN	kNm		kN	kN	kNm

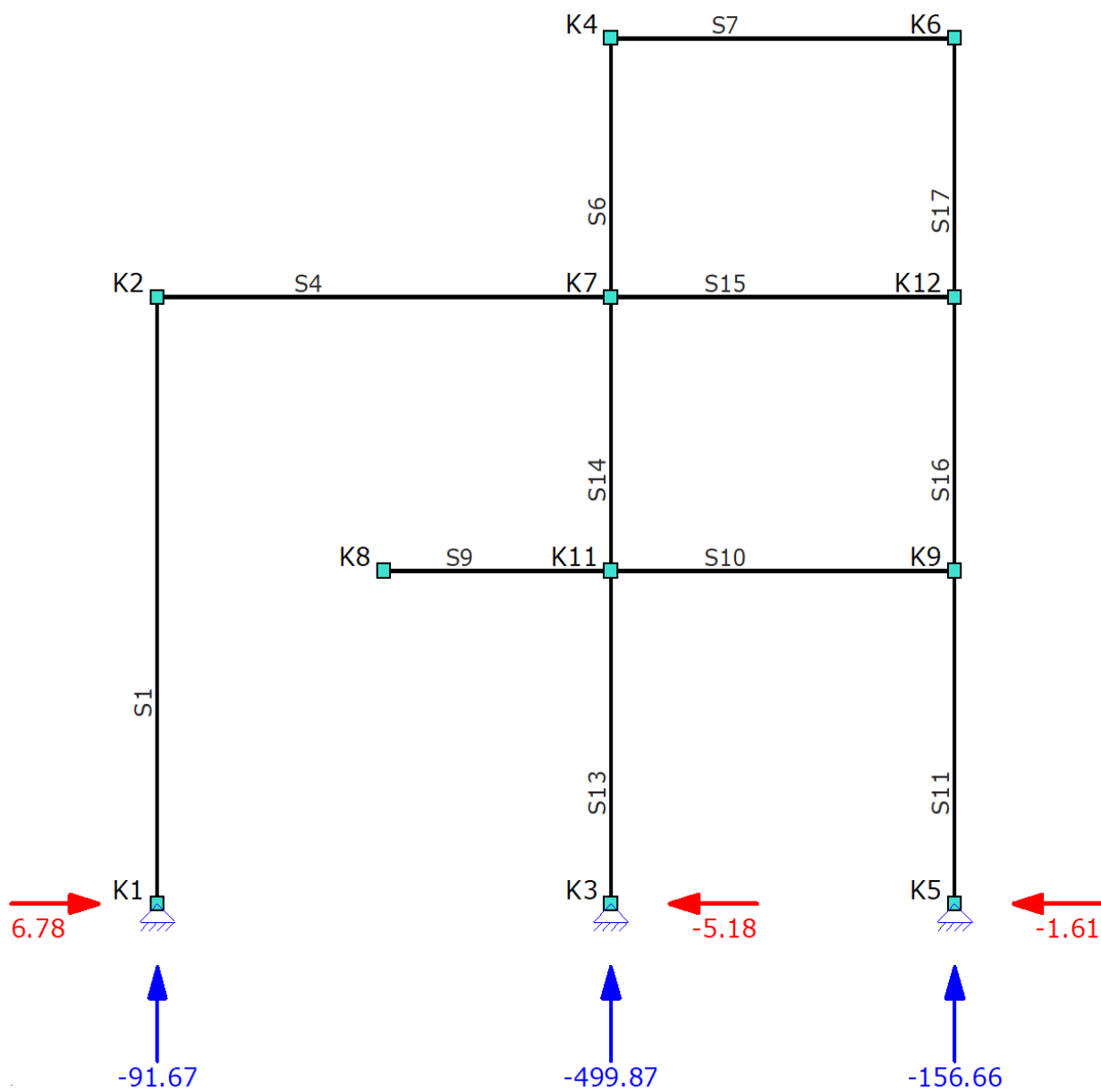
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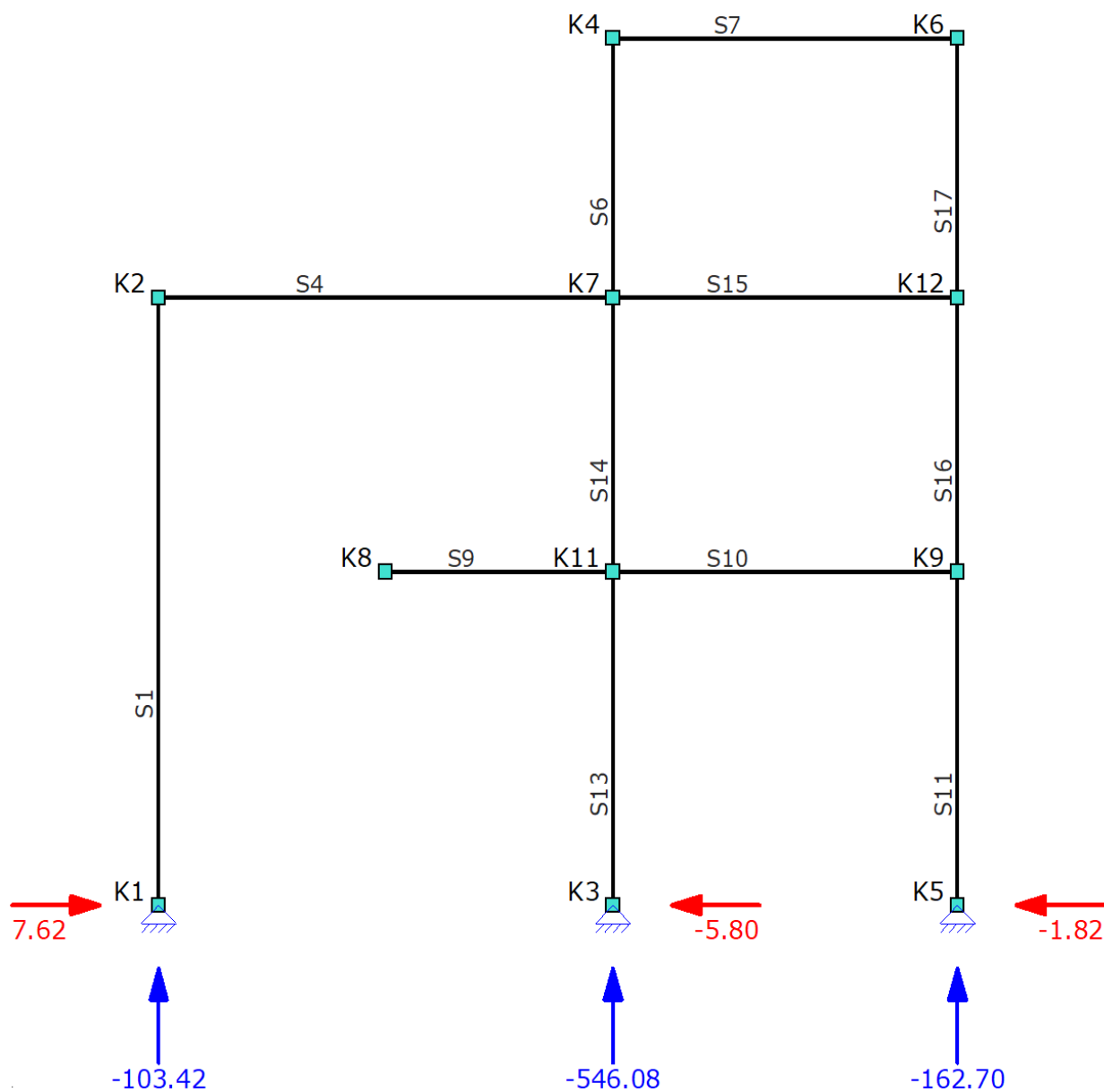
Fu.C.1 Oplegreacties



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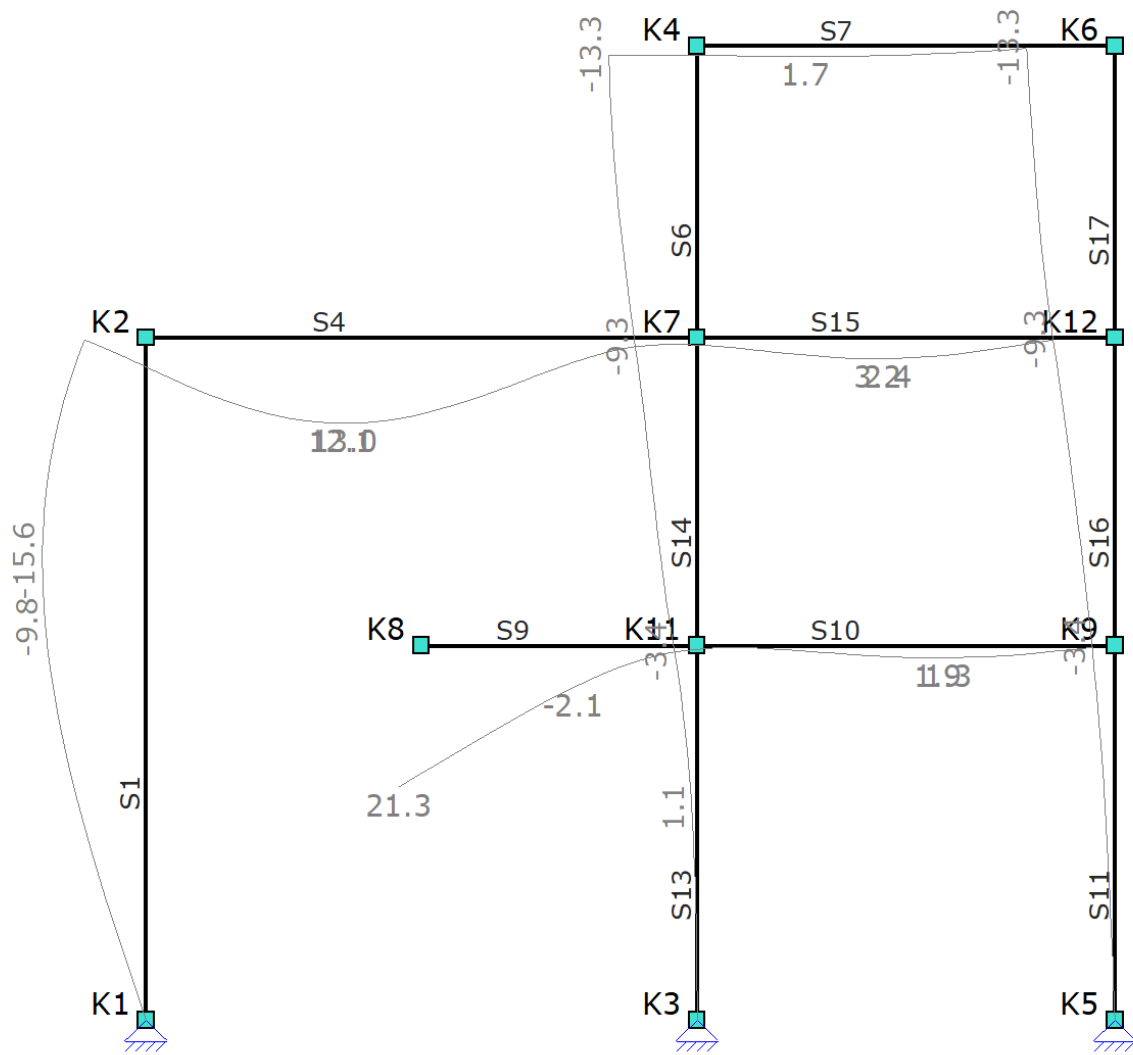
Fu.C.2 Oplegreacties



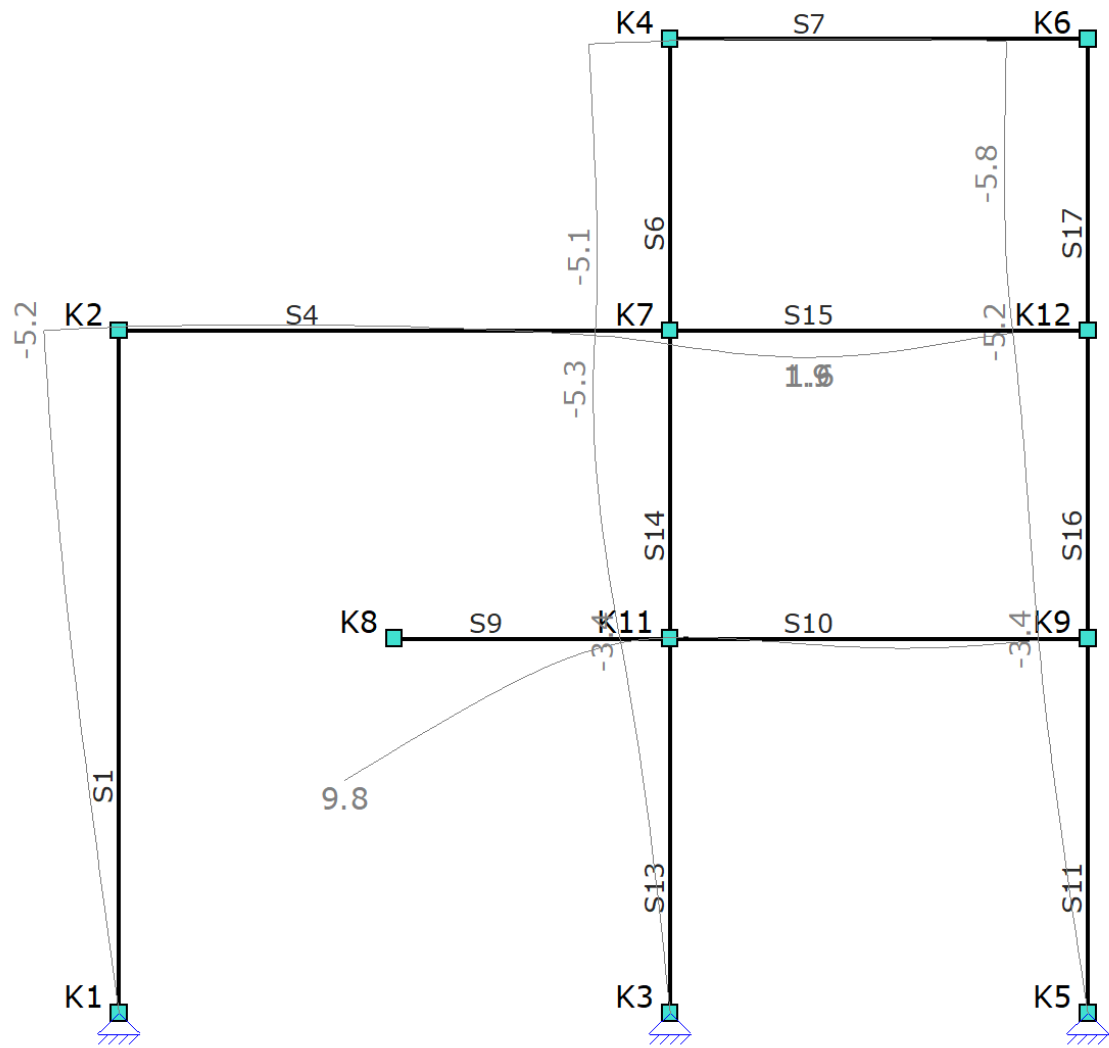
**EXTREME OPLEGREACTIES (FUNDAMENTEEL)**

Oplegging	Afbouw	B.G.	X _{max}	Z	Y _r	B.G.	X	Z _{max}	Y _r	B.G.	X	Z	Y _{rmax}
O1	K1	Fu.C.3	7.62	-103.42	0.00								
		Fu.C.3	7.62	-103.42	0.00								
O2	K3	Fu.C.1	-6.08	-585.47	0.00	Fu.C.1	-6.08	-585.47	0.00				
O3	K5	Fu.C.3	-1.82	-162.70	0.00	Fu.C.1	-0.95	-186.81	0.00				
Globale extreme waarden													
O2	K3	Fu.C.1	-6.08	-585.47	0.00	Fu.C.1	-6.08	-585.47	0.00				
O1	K1	Fu.C.3	7.62	-103.42	0.00								
			kN	kN	kNm				kN	kN	kNm	kN	kNm

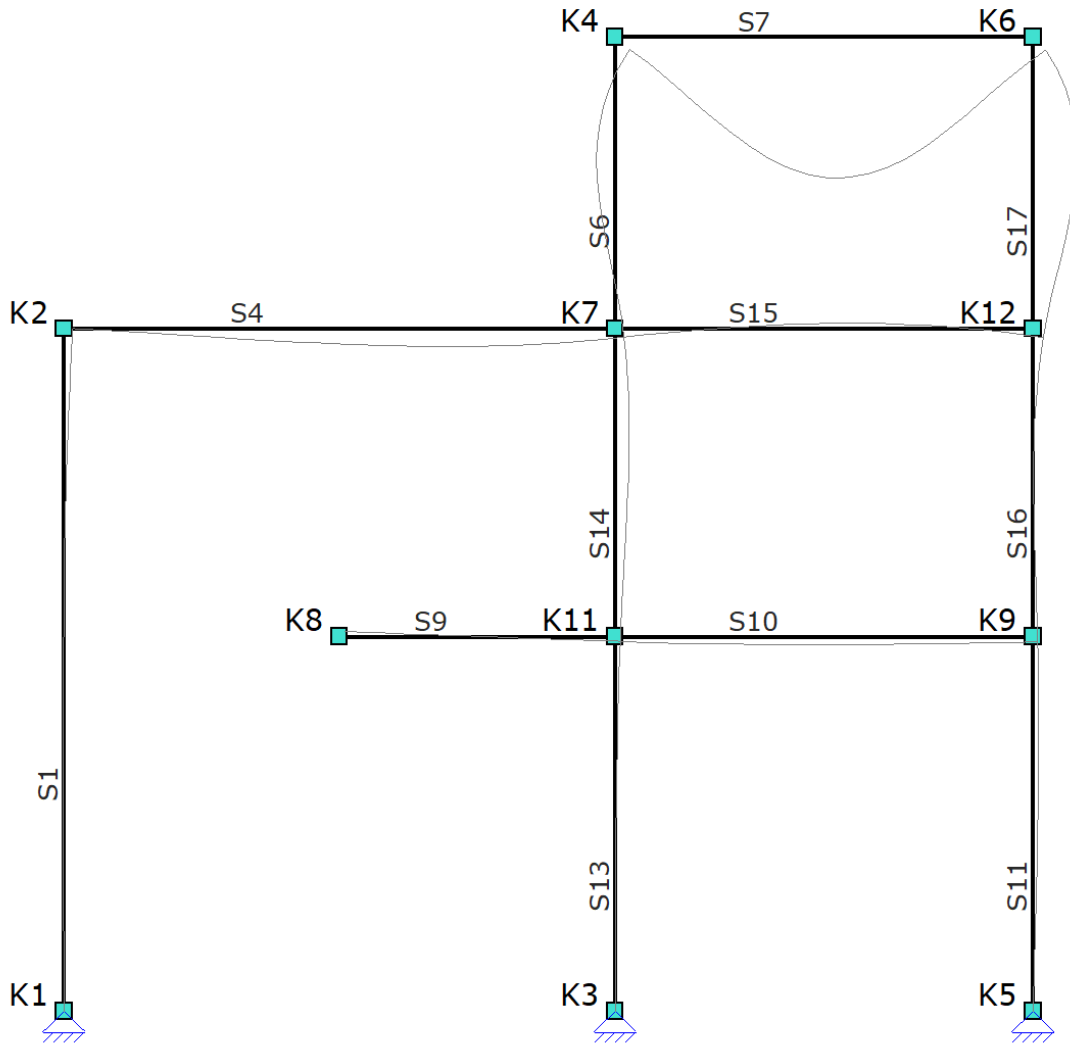
B.G.1 Doorbuigingen



B.G.2 Doorbuigingen



B.G.3 Doorbuigingen



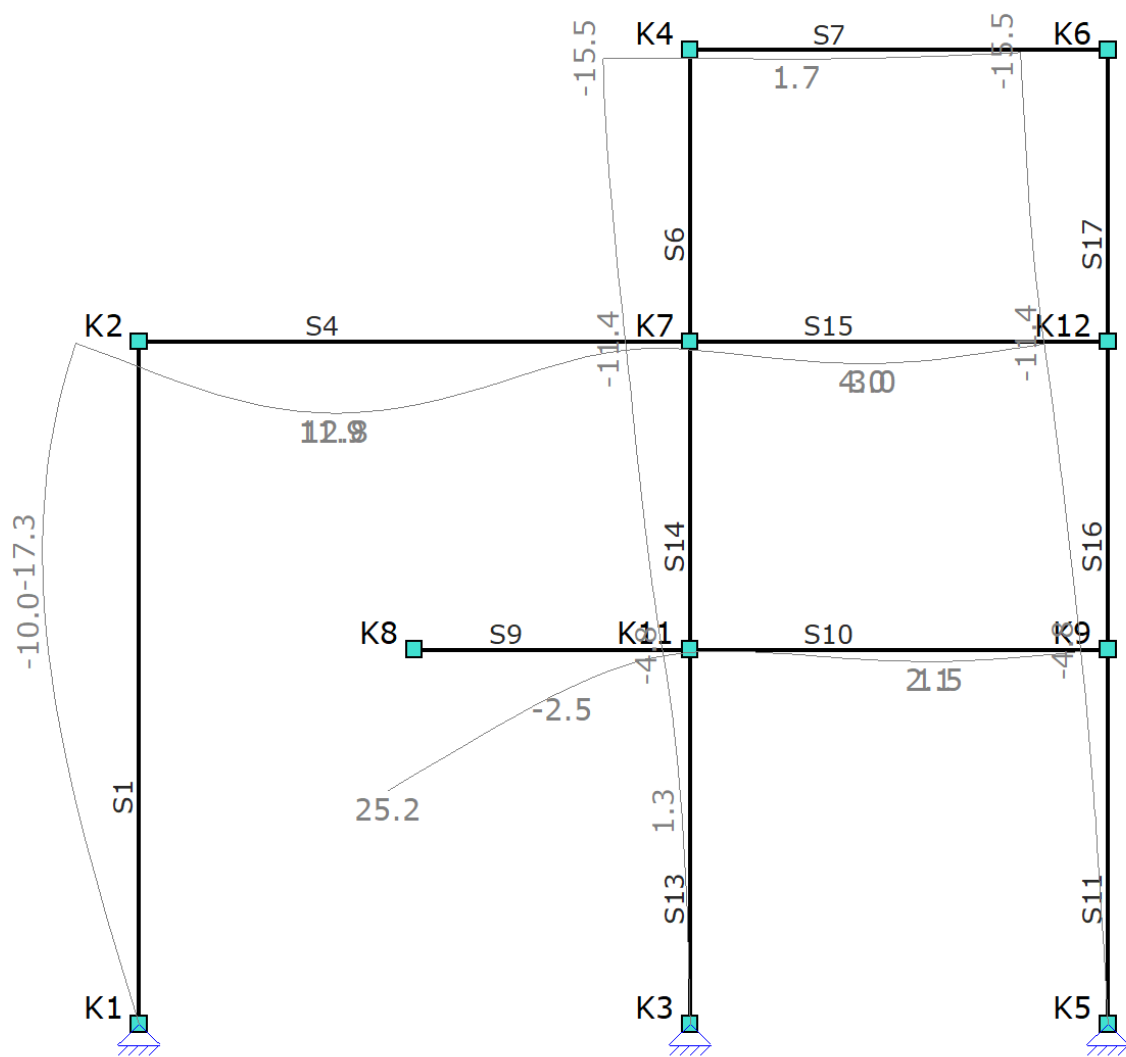
EXTREME DOORBUIGINGEN (BELASTINGSGEVALLEN)

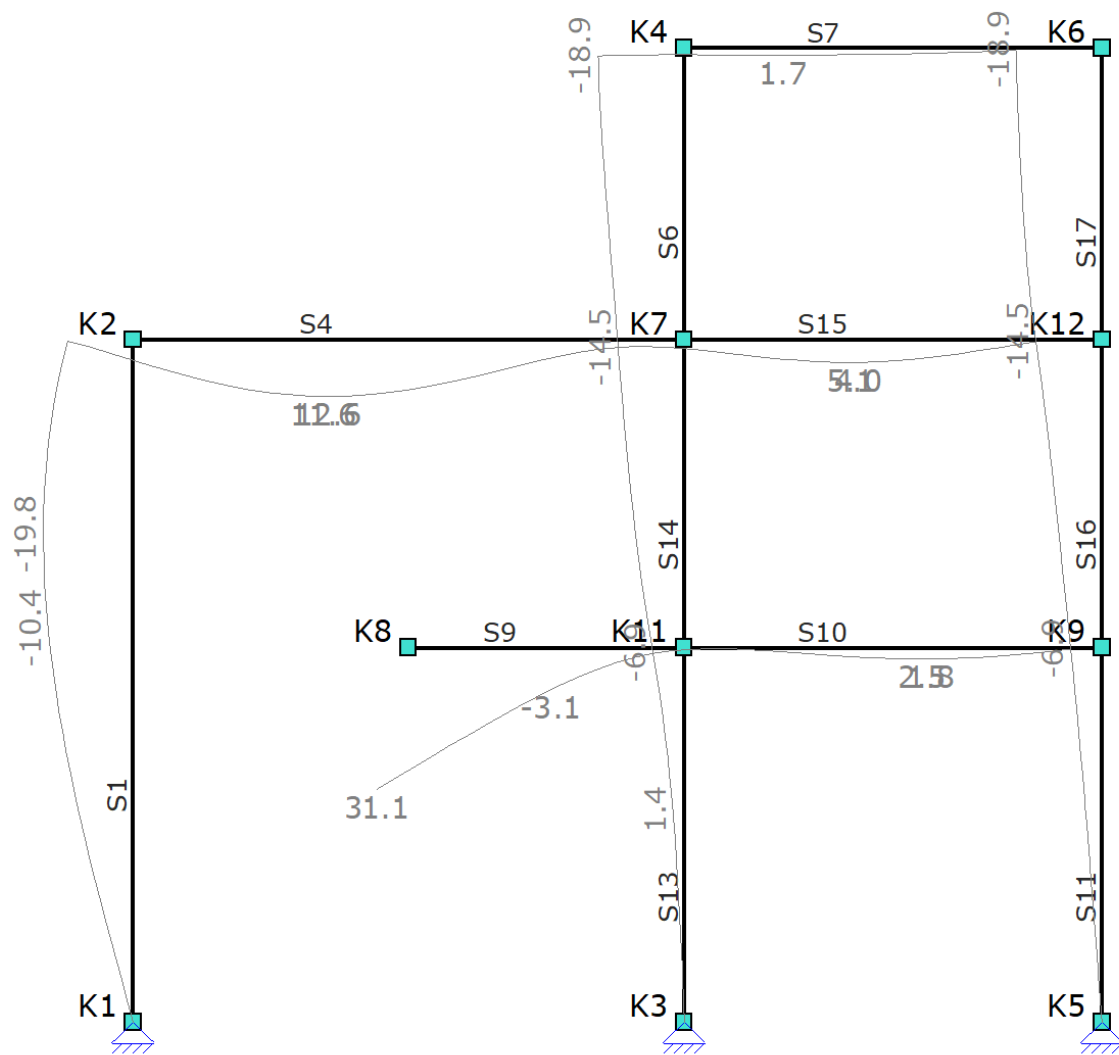
Staaf	Veld	B.C.	Knoop Begin		Z'afst	Z'	Staaf		Knoop Eind	
			X	Z			Z' glb dist	Z' glb	X	Z
S1	Veld 1 (0.000 - 8.200)	B.G.1	0.0	0.0	4.734	-9.8	5.528	-15.6	-0.4	-9.3
S4	Veld 1 (0.000 - 6.600)	B.G.2	-9.3	0.4	3.075	12.1	3.119	13.0	-9.3	1.4
	Veld 1 (0.000 - 6.600)		-5.2	0.0	3.189	-0.6	2.670	-0.4	-5.2	0.4
S6	Veld 1 (0.000 - 3.500)	B.G.1	-1.4	-9.3	1.951	-0.7	3.500	-13.3	-1.4	-13.3
	Veld 1 (0.000 - 3.500)	B.G.2	-0.4	-5.2	1.351	0.3	3.500	-5.6	-0.4	-5.6
S7	Veld 1 (0.000 - 5.000)	B.G.1	-13.3	1.4	2.907	0.8	2.356	1.7	-13.3	0.4
	Veld 1 (0.000 - 5.000)	B.G.2	-5.6	0.4	2.334	-0.2	0.000	0.4	-5.6	0.2
S9	Veld 1 (0.000 - 3.300)	B.G.1	-3.4	21.3	2.079	-2.1	0.000	21.3	-3.4	1.0
S10	Veld 1 (0.000 - 5.000)		-3.4	1.0	3.283	1.3	3.155	1.9	-3.4	0.3
	m		mm	mm	m	mm	m	mm	mm	mm

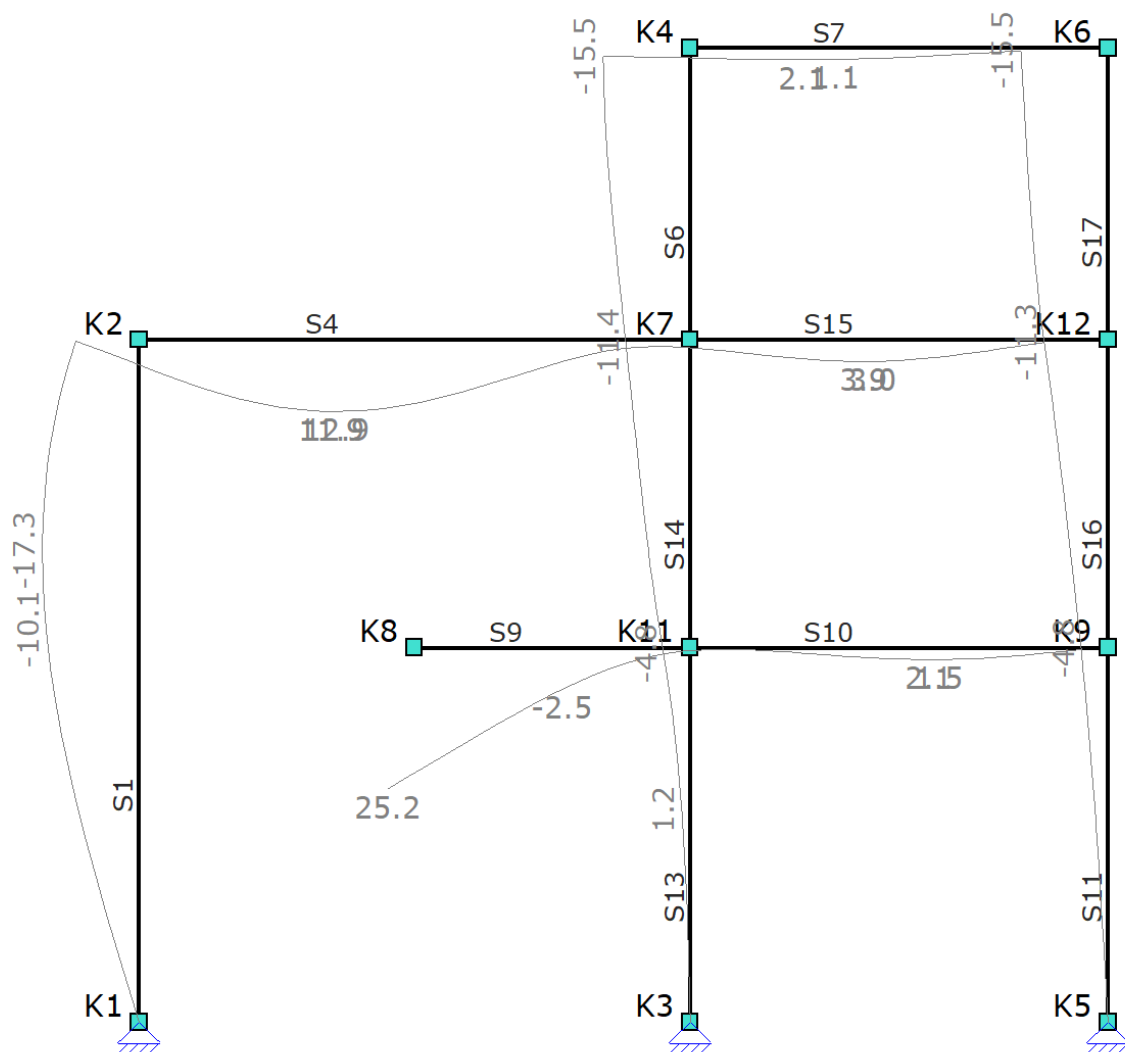
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Staat	Veld	B.C.	Knoop Begin		Z'afst	Z'	Staat		Knoop Eind	Z
			X	Z			Z' glb dist	Z' glb		
S11	Veld 1 (0.000 - 4.500)		0.0	0.0	2.598	0.5	4.500	-3.4	-0.3	-3.4
	Veld 1 (0.000 - 4.500)	B.G.2	0.0	0.0	2.598	-0.2	4.500	-3.4	-0.1	-3.4
S13	Veld 1 (0.000 - 4.500)	B.G.1	0.0	0.0	2.598	1.1	4.500	-3.4	-1.0	-3.4
S14	Veld 1 (0.000 - 3.700)	B.G.2	-0.3	-3.4	1.999	-0.7	3.039	-5.3	-0.4	-5.2
	Veld 1 (0.000 - 3.700)	B.G.3	-0.0	0.0	2.347	0.0	2.538	0.0	-0.0	0.0
S15	Veld 1 (0.000 - 5.000)	B.G.1	-9.3	1.4	3.020	2.4	2.895	3.2	-9.3	0.4
	Veld 1 (0.000 - 5.000)	B.G.3	0.0	0.0	2.695	-0.0	5.000	0.0	0.0	0.0
S16	Veld 1 (0.000 - 3.700)	B.G.1	-0.3	-3.4	1.888	0.2	3.700	-9.3	-0.4	-9.3
	Veld 1 (0.000 - 3.700)	B.G.3	-0.0	0.0	2.273	-0.0	3.700	0.0	-0.0	0.0
S17	Veld 1 (0.000 - 3.500)	B.G.1	-0.4	-9.3	1.481	-0.5	3.500	-13.3	-0.4	-13.3
	Veld 1 (0.000 - 3.500)	B.G.3	-0.0	0.0	2.196	0.1	2.222	0.2	-0.0	0.0
	m		mm	mm	m	mm	m	mm	mm	mm

Ka.C.1 Doorbuigingen







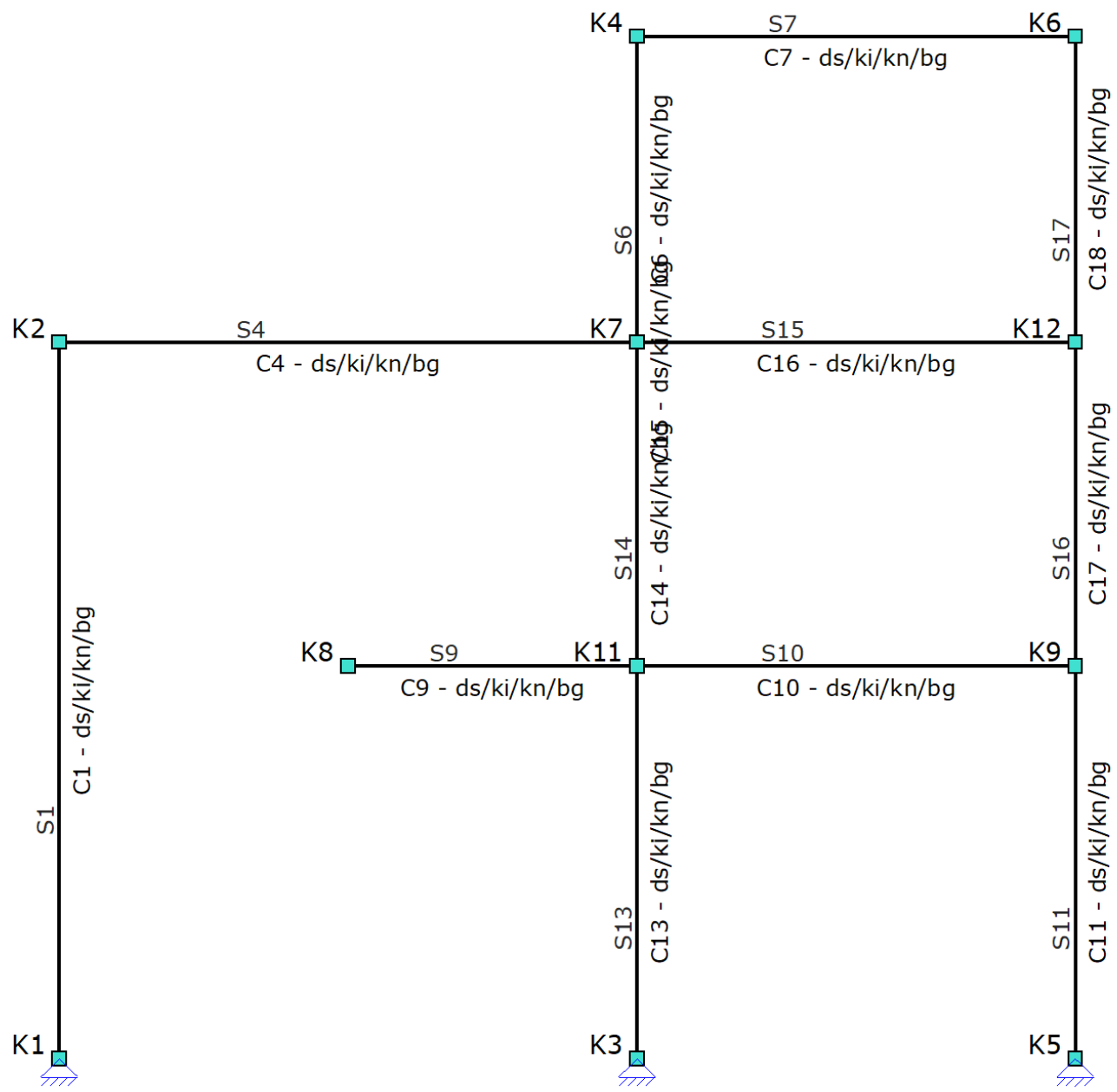
EXTREME DOORBUIGINGEN (KARAKTERISTIEK)

Staaf	Veld	B.C.	Knoop Begin		Z'afst	Staaf			Knoop Eind	
			X	Z		Z'	Z' glb dist	Z' glb	X	Z
S1	Veld 1 (0.000 - 8.200)	Ka.C.2	0.0	0.0	4.734	-10.4	5.872	-19.8	-0.4	-14.5
S4	Veld 1 (0.000 - 6.600)	Ka.C.(w1)	-9.3	0.4	3.075	12.1	3.119	13.0	-9.3	1.4
S6	Veld 1 (0.000 - 3.500)		-1.4	-9.3	1.951	-0.7	3.500	-13.3	-1.4	-13.3
S7	Veld 1 (0.000 - 5.000)	Ka.C.3	-15.5	1.6	2.789	1.1	2.388	2.1	-15.5	0.5
S9	Veld 1 (0.000 - 3.300)	Ka.C.2	-6.9	31.1	2.079	-3.1	0.000	31.1	-6.9	1.3
S10	Veld 1 (0.000 - 5.000)		-6.9	1.3	3.327	1.8	3.216	2.5	-6.9	0.4
S11	Veld 1 (0.000 - 4.500)	Ka.C.(w1)	0.0	0.0	2.598	0.5	4.500	-3.4	-0.3	-3.4
S13	Veld 1 (0.000 - 4.500)	Ka.C.2	0.0	0.0	2.598	1.4	4.500	-6.9	-1.3	-6.9
S14	Veld 1 (0.000 - 3.700)		-1.3	-6.9	1.667	-0.9	3.700	-14.5	-1.8	-14.5
m			mm	mm	m	mm	m	mm	mm	mm

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Staal	Veld	B.C.	Knoop Begin			Staal			Knoop Eind	
			X	Z	Z'afst	Z'	Z' glb dist	Z' glb	X	Z
S15	Veld 1 (0.000 - 5.000)		-14.5	1.8	2.874	4.0	2.775	5.1	-14.5	0.6
S16	Veld 1 (0.000 - 3.700)		-0.4	-6.9	2.190	0.3	3.700	-14.5	-0.6	-14.5
S17	Veld 1 (0.000 - 3.500)		-0.6	-14.5	1.461	-0.9	3.500	-18.9	-0.6	-18.9
	m		mm	mm	m	mm	m	mm	mm	mm

Staaldefinitie



STAALTOETS RESULTATEN NEN-EN1993-1-1:2016/NB:2016

Uitgangspunten berekening voor staalcontrole
Alpha;cr = 5.57 < 10; GNL analyse vereist

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DOORSNEDE GEGEVENS

Staaf C1-V1 (0.000-8.200)

HE260A

h	250.0 mm	A	8.6819e-03 m ²	W _{pl,y}	9.1978e-04 m ³	W _{el,y}	8.3640e-04 m ³
b	260.0 mm	I _y	1.0455e-04 m ⁴	W _{pl,z}	4.3017e-04 m ³	W _{el,z}	2.8212e-04 m ³
t _f	12.5 mm	I _z	3.6676e-05 m ⁴	A _{w,pl,y}	6.9944e-03 m ²	A _{w,el,y}	6.9944e-03 m ²
t _w	7.5 mm	Massa/m	68.2 kg/m	A _{w,pl,z}	2.8757e-03 m ²	A _{w,el,z}	2.8757e-03 m ²
r _i	24.0 mm			I _t	5.2375e-07 m ⁴	I _w	5.1635e-07 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C1-V1 (0.000-8.200)

Maatgevende combinatie	Fu.C.3	Doorsnedeklasse	1
Maatgevende positie	8.200 m		
Normaalkracht	N _{Ed}	-103.42 kN	Ontwerpweerstand (6.10) N _{Rd} 2040.26 kN
Buigmoment	M _{y,Ed}	-62.48 kNm	Ontwerpweerstand (6.13) M _{y,Rd} 216.15 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand (6.13) M _{z,Rd} 101.09 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand (6.18) V _{y,Rd} 948.99 kN
Dwarskracht	V _{z,Ed}	-7.62 kN	Ontwerpweerstand (6.18) V _{z,Rd} 390.17 kN

Buiging en schuif #6.2.8

Verhouding	2.0 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.05
NEN-EN1993-1-1(6.12): UC (y) = 0.29
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staaf C1-V1 (0.000-8.200)

Profiel		HE260A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.3			
Maatgevend veld		0.000 - 8.200 m	Maatgevend veld		0.000 - 8.200 m
Normaalkracht	$N_{Ed,y}$	-103.42 kN	Normaalkracht	$N_{Ed,z}$	-103.42 kN
Lengte	$L_{cr,y}$	8.200 m	Lengte	$L_{cr,z}$	8.200 m
Elastische kritische kracht	$N_{cr,y}$	3222.65 kN	Elastische kritische kracht	$N_{cr,z}$	1130.50 kN
Slankheid	λ_y	0.796	Slankheid	λ_z	1.343
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.918			1.683
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		0.727			0.371
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		1483.51 kN			756.92 kN

NEN-EN1993-1-1(6.46): UC = 0.14

KIP (#6.3.2)

Staaf C1-V1 (0.000-8.200)

Equivalent profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

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Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		8.200 m	Moment (eind)	M_y	-62.48 kNm
Lengte	L	8.200 m	Moment (max)	M_y	-62.48 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.00
Lengte	L_{st}	8.200 m	Lengte	L_{kip}	8.200 m
	(NB.NB.12) S	1.601 m			
Coefficient	C_1	1.750	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	8.200 m
Coefficient	(NB.NB.11) C	6.450	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	448.96 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.694	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.793
Reductiefactor	(6.56) $\chi_{LT,y}$	0.851			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	183.86 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	101.09 kNm			

NEN-EN1993-1-1(6.54): UC = 0.34

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C1-V1 (0.000-8.200)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-62.48 kNm	M	0.00 kNm	M	-62.48 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	-0.000	ψ	1.000	ψ	-0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.625		k_{yz}	0.715
	k_{zy}	0.961		k_{zz}	1.191
Maatgevend veld		0.000 - 8.200 m	Maatgevend veld		0.000 - 8.200 m
Normaalkracht	$N_{y,Ed}$	-103.42 kN	Normaalkracht	$N_{z,Ed}$	-103.42 kN
Lengte	$L_{y,cr}$	8.200 m	Lengte	$L_{z,cr}$	8.200 m
Reductiefactor	(6.49) χ_y	0.727	Reductiefactor	(6.49) χ_z	0.371
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 8.200 m	Maatgevend veld		0.000 - 8.200 m
Buigmoment	$M_{y,Ed}$	62.48 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.851			

NEN-EN1993-1-1(6.61): UC = 0.28

NEN-EN1993-1-1(6.62): UC = 0.46

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DOORBUIGINGSTOETSING

Staaf C1-V1 (0.000-8.200)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	-14.5	Ka.C.2	27.3	0.53
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C4-V1 (0.000-6.600)

HE260A											
h	250.0	mm	A	8.6819e-03	m²	W _{pl,y}	9.1978e-04	m³	W _{el,y}	8.3640e-04	m³
b	260.0	mm	I _y	1.0455e-04	m⁴	W _{pl,z}	4.3017e-04	m³	W _{el,z}	2.8212e-04	m³
t _f	12.5	mm	I _z	3.6676e-05	m⁴	A _{w,pl,y}	6.9944e-03	m²	A _{w,el,y}	6.9944e-03	m²
t _w	7.5	mm	Massa/m	68.2	kg/m	A _{w,pl,z}	2.8757e-03	m²	A _{w,el,z}	2.8757e-03	m²
r _i	24.0	mm				I _t	5.2375e-07	m⁴	I _w	5.1635e-07	m⁶
S235											
f _y (≤40 mm)	235.00	N/mm²									
f _y (>40 mm)	215.00	N/mm²									

DOORSNEDE (#6.2)

Staaf C4-V1 (0.000-6.600)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse		1	
Maatgevende positie		6.600 m				
Normaalkracht	N_{Ed}	-7.62 kN	Ontwerpweerstand	(6.10)	N_{Rd}	2040.26 kN
Buigmoment	$M_{y,Ed}$	-137.16 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	948.99 kN
Dwarskracht	$V_{z,Ed}$	-126.06 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	390.17 kN
Buiging en schuif #6.2.8						
Verhouding		32.3 %	Verhouding			0.0 %
Is reductie nodig?		Nee	Is reductie nodig?			Nee
Buig- en normaalkracht #6.2.9						
Is reductie nodig?		Nee	Is reductie nodig?			Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.63
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.32

KNIK (#6.3.1)

Staaf C4-V1 (0.000-6.600)

Profiel		HE260A	Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.3				
Maatgevend veld		0.000 - 6.600 m	Maatgevend veld		0.000 - 6.600 m	
Normaalkracht	$N_{Ed,y}$	-7.62 kN	Normaalkracht	$N_{Ed,z}$	-7.62 kN	
Lengte	$L_{cr,y}$	6.600 m	Lengte	$L_{cr,z}$	6.600 m	
Elastische kritische kracht	$N_{cr,y}$	4974.55 kN	Elastische kritische kracht	$N_{cr,z}$	1745.05 kN	
Slankheid	λ_y	0.640	Slankheid	λ_z	1.081	
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z	0.490

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		Φ_y	0.780			Φ_z	1.300
Reductiefactor	(6.49)	χ_y	0.816	Reductiefactor	(6.49)	χ_z	0.494
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	1665.38 kN	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	1008.49 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C4-V1 (0.000-6.600)

Equivalent profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-62.48 kNm
Veld einde	6.600 m	Moment (eind)	M_y	-137.16 kNm
Lengte	L	Moment (max)	M_y	-137.16 kNm
Maatgevende flens	Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	137.16 kNm
Belasting	q	34.77 kN/m	Lengte	L _{st}	6.600 m
	B*	-0.42	Lengte	L _{st}	6.600 m
	β	0.455	Lengte	L _{kip}	6.600 m
	(NB.NB.12) S	1.601 m			
Coefficient	C ₁	1.900	Coefficient	C ₂ (Tabel)	1.067
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	6.600 m
Coefficient	(NB.NB.11) C	7.507	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	649.20 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.577	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.706
Reductiefactor	(6.56) $\chi_{LT,y}$	0.898			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	194.21 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	101.09 kNm			

NEN-EN1993-1-1(6.54): UC = 0.71

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C4-V1 (0.000-6.600)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalenten gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-137.16 kNm	M	0.00 kNm	M	-137.16 kNm
ψM	-62.48 kNm	ψM	0.00 kNm	ψM	-62.48 kNm
M_s	89.50 kNm	ψ	1.000	M_s	89.50 kNm
ψ	0.455	Belasting	Geconcentreerd	ψ	0.455
α_s	-0.653	C_{mz}	1.000	α_s	-0.653
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.622			C_{mLT}	0.622

Interactiefactoren (Tabel B.2)

k_{yy}	0.623	k_{yz}	0.606
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	k_{zy}	0.998		k_{zz}	1.011
Maatgevend veld		0.000 - 6.600 m	Maatgevend veld		0.000 - 6.600 m
Normaalkracht	$N_{y,Ed}$	-7.62 kN	Normaalkracht	$N_{z,Ed}$	-7.62 kN
Lengte	$L_{y,cr}$	6.600 m	Lengte	$L_{z,cr}$	6.600 m
Reductiefactor	(6.49) χ_y	0.816	Reductiefactor	(6.49) χ_z	0.494
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 6.600 m	Maatgevend veld		0.000 - 6.600 m
Buigmoment	$M_{y,Ed}$	137.16 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.898			

NEN-EN1993-1-1(6.61): UC = 0.44

NEN-EN1993-1-1(6.62): UC = 0.71

DOORBUIGINGSTOETSING

Staaf C4-V1 (0.000-6.600)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	3.074	12.1 Fr.C.(w1)	-0.2 Qu.C.1	11.9	0.0	11.9	26.4	0.45
Z''	3.074	12.1 Fr.C.(w1)	-0.2 Qu.C.1	11.9	0.0	11.9	26.4	0.45
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	3.178	-0.3 Fr.C.1	-0.3	0.0	19.8	0.01
Z''	3.126	-0.3 Fr.C.1	-0.3	0.0	19.8	0.02
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C6-V1 (0.000-3.500)

HE260A

h	250.0 mm	A	8.6819e-03 m ²	$W_{pl,y}$	9.1978e-04 m ³	$W_{el,y}$	8.3640e-04 m ³
b	260.0 mm	I_y	1.0455e-04 m ⁴	$W_{pl,z}$	4.3017e-04 m ³	$W_{el,z}$	2.8212e-04 m ³
t_f	12.5 mm	I_z	3.6676e-05 m ⁴	$A_{w,pl,y}$	6.9944e-03 m ²	$A_{w,el,y}$	6.9944e-03 m ²
t_w	7.5 mm	Massa/m	68.2 kg/m	$A_{w,pl,z}$	2.8757e-03 m ²	$A_{w,el,z}$	2.8757e-03 m ²
r_i	24.0 mm			I_t	5.2375e-07 m ⁴	I_w	5.1635e-07 m ⁶

S235

$f_y (\leq 40 \text{ mm})$ 235.00 N/mm²

$f_y (> 40 \text{ mm})$ 215.00 N/mm²

DOORSNEDE (#6.2)

Staaf C6-V1 (0.000-3.500)

Maatgevende combinatie	Fu.C.2	Doorsnedeklasse	1
Maatgevende positie	3.500 m		
Normaalkracht	N_{Ed}	-26.54 kN	Ontwerpweerstand (6.10) N_{Rd} 2040.26 kN
Buigmoment	$M_{y,Ed}$	-24.15 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 948.99 kN
Dwarskracht	$V_{z,Ed}$	-8.21 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 390.17 kN

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Buiging en schuif #6.2.8

Verhouding	2.1 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.01
NEN-EN1993-1-1(6.12): UC (y) = 0.11
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staaf C6-V1 (0.000-3.500)

Profiel		HE260A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.2			
Maatgevend veld		0.000 - 3.500 m	Maatgevend veld		0.000 - 3.500 m
Normaalkracht	N _{Ed,y}	-26.54 kN	Normaalkracht	N _{Ed,z}	-26.54 kN
Lengte	L _{cr,y}	3.500 m	Lengte	L _{cr,z}	3.500 m
Elastische kritische kracht	N _{cr,y}	17689.08 kN	Elastische kritische kracht	N _{cr,z}	6205.27 kN
Slankheid	λ _y	0.340	Slankheid	λ _z	0.573
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α _y	Imperfectiefactor	Tabel 6.1	α _z
		Φ _y			Φ _z
		0.581			0.756
Reductiefactor	(6.49)	χ _y	Reductiefactor	(6.49)	χ _z
		0.949			0.801
Ontwerpweerstand	(6.47)	N _{b,Rd,y}	Ontwerpweerstand	(6.47)	N _{b,Rd,z}
		1937.00 kN			1634.31 kN

NEN-EN1993-1-1(6.46): UC = 0.02

KIP (#6.3.2)

Staaf C6-V1 (0.000-3.500)

Equivalente profiel		HE260A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.3	Aangrijphoogte van de last vanaf het midden		0.000 m
Kipsteunen		Geen			

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M _y	2.38 kNm
Veld einde		3.500 m	Moment (eind)	M _y	-20.78 kNm
Lengte	L	3.500 m	Moment (max)	M _y	2.38 kNm
Maatgevende flens		Boven	Moment (max)	M _z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	-0.11
Lengte	L _{st}	3.500 m		β	-0.114
Lengte	L _{kip}	3.500 m	(NB.NB.12)	S	1.601 m
Coefficient	C ₁	1.874	Coefficient	C ₂ (Tabel)	0.000
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	3.500 m
Coefficient	(NB.NB.11) C	10.307	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	1680.95 kNm			

Kipcurve #6.3.2.2

Slankheid	λ _{LT}	0.359	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α _{LT}		Φ _{LT}	0.581
Reductiefactor	(6.56)	χ _{LT,y}			
Reductiefactor		χ _{LT,z}			
		1.000			

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Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	208.23 kNm
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	101.09 kNm

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)
NEN-EN1993-1-1(6.54): UC = 0.00

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C6-V1 (0.000-3.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-24.15 kNm	M	0.00 kNm	M	-24.15 kNm
ψM	4.59 kNm	ψM	0.00 kNm	ψM	4.59 kNm
M_s	-9.78 kNm	ψ	1.000	M_s	-9.78 kNm
ψ	-0.190	Belasting	Geconcentreerd	ψ	-0.190
α_s	0.405	C_{mz}	1.000	α_s	0.405
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.524			C_{mLT}	0.524

Interactiefactoren (Tabel B.2)

	k_{yy}	0.525		k_{yz}	0.605
	k_{zy}	0.997		k_{zz}	1.009
Maatgevend veld		0.000 - 3.500 m	Maatgevend veld		0.000 - 3.500 m
Normaalkracht	$N_{y,Ed}$	-26.54 kN	Normaalkracht	$N_{z,Ed}$	-26.54 kN
Lengte	$L_{y,cr}$	3.500 m	Lengte	$L_{z,cr}$	3.500 m
Reductiefactor	(6.49) χ_y	0.949	Reductiefactor	(6.49) χ_z	0.801
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 3.500 m	Maatgevend veld		0.000 - 3.500 m
Buigmoment	$M_{y,Ed}$	24.15 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.965			

NEN-EN1993-1-1(6.61): UC = 0.07

NEN-EN1993-1-1(6.62): UC = 0.13

DOORBUIGINGSTOETSING

Staaf C6-V1 (0.000-3.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	-4.4	Ka.C.2	11.7	0.38
	mm		mm	

DOORSNEDE GEGEVENS

Staaf C7-V1 (0.000-5.000)

HE260A							
h	250.0 mm	A	8.6819e-03 m ²	$W_{pl,y}$	9.1978e-04 m ³	$W_{el,y}$	8.3640e-04 m ³
b	260.0 mm	I_y	1.0455e-04 m ⁴	$W_{pl,z}$	4.3017e-04 m ³	$W_{el,z}$	2.8212e-04 m ³
t_f	12.5 mm	I_z	3.6676e-05 m ⁴	$A_{w,pl,y}$	6.9944e-03 m ²	$A_{w,el,y}$	6.9944e-03 m ²

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t_w	7.5 mm	Massa/m	68.2 kg/m	$A_{w,pl,z}$	2.8757e-03 m ²	$A_{w,el,z}$	2.8757e-03 m ²
r_i	24.0 mm			I_t	5.2375e-07 m ⁴	I_w	5.1635e-07 m ⁶

S235

f_y (≤40 mm)	235.00 N/mm ²
f_y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C7-V1 (0.000-5.000)

Maatgevende combinatie		Fu.C.2	Doorsnedeklasse		1	
Maatgevende positie		0.000 m				
Normaalkracht	N_{Ed}	-8.21 kN	Ontwerpweerstand	(6.10)	N_{Rd}	2040.26 kN
Buigmoment	$M_{y,Ed}$	-24.15 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	948.99 kN
Dwarskracht	$V_{z,Ed}$	26.54 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	390.17 kN

Buiging en schuif #6.2.8

Verhouding	6.8 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.11
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.07

KNIK (#6.3.1)

Staaf C7-V1 (0.000-5.000)

Profiel		HE260A	Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.2				
Maatgevend veld		0.000 - 5.000 m	Maatgevend veld		0.000 - 5.000 m	
Normaalkracht	$N_{Ed,y}$	-8.21 kN	Normaalkracht	$N_{Ed,z}$	-8.21 kN	
Lengte	$L_{cr,y}$	5.000 m	Lengte	$L_{cr,z}$	5.000 m	
Elastische kritische kracht	$N_{cr,y}$	8667.65 kN	Elastische kritische kracht	$N_{cr,z}$	3040.58 kN	
Slankheid	λ_y	0.485	Slankheid	λ_z	0.819	
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y			Φ_z	0.987
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z	0.650
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	1326.44 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C7-V1 (0.000-5.000)

Equivalente profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-24.15 kNm
Veld einde	5.000 m	Moment (eind)	M_y	-6.18 kNm

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Lengte	L	5.000 m	Moment (max)	M_y	-24.15 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	24.15 kNm
Belasting	q	9.18 kN/m	Lengte	L_{st}	5.000 m
	B^*	-0.46	Lengte	L_{st}	5.000 m
	β	0.256	Lengte	L_{kip}	5.000 m
	(NB.NB.12) S	1.601 m			
Coefficient	C_1	1.990	Coefficient	C_2 (Tabel)	1.075
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	5.000 m
Coefficient	(NB.NB.11) C	8.868	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	1012.38 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.462	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.634
Reductiefactor	(6.56) $\chi_{LT,y}$	0.936			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	202.24 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	101.09 kNm			

NEN-EN1993-1-1(6.54): UC = 0.12

BUIGING EN AXIALE DRUK (#6.3.3)

Staaft C7-V1 (0.000-5.000)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.2		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-24.15 kNm	M	0.00 kNm	M	-24.15 kNm
ψM	-6.18 kNm	ψM	0.00 kNm	ψM	-6.18 kNm
M_s	13.52 kNm	ψ	1.000	M_s	13.52 kNm
ψ	0.256	Belasting	Geconcentreerd	ψ	0.256
α_s	-0.560	C_{mz}	1.000	α_s	-0.560
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.548			C_{mLT}	0.548

Interactiefactoren (Tabel B.2)

	k_{yy}	0.549		k_{yz}	0.604
	k_{zy}	0.998		k_{zz}	1.006
Maatgevend veld		0.000 - 5.000 m	Maatgevend veld		0.000 - 5.000 m
Normaalkracht	$N_{y,Ed}$	-8.21 kN	Normaalkracht	$N_{z,Ed}$	-8.21 kN
Lengte	$L_{y,cr}$	5.000 m	Lengte	$L_{z,cr}$	5.000 m
Reductiefactor	(6.49) χ_y	0.891	Reductiefactor	(6.49) χ_z	0.650
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 5.000 m	Maatgevend veld		0.000 - 5.000 m
Buigmoment	$M_{y,Ed}$	24.15 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.936			

NEN-EN1993-1-1(6.61): UC = 0.07

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NEN-EN1993-1-1(6.62): UC = 0.13

DOORBUIGINGSTOETSING

Staaf C7-V1 (0.000-5.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}								
As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	2.943	0.8 Fr.C.(w1)	-0.1 Qu.C.1	0.7	0.0	0.7	20.0	0.03
Z''	2.943	0.8 Fr.C.(w1)	-0.1 Qu.C.1	0.7	0.0	0.7	20.0	0.03
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)								
As	Positie	w_3 B.G.	w	Abs. limiet			Limiet (L/333)	UC
Z'	2.381	-0.1 Fr.C.1	-0.1	0.0			15.0	0.01
Z''	2.296	-0.1 Fr.C.1	-0.1	0.0			15.0	0.01
	m	mm	mm	mm			mm	

DOORSNEDE GEGEVENS

Staaf C9-V1 (0.000-3.300)

HE260B								
h	260.0 mm	A	1.1844e-02 m ²	$W_{pl,y}$	1.2829e-03 m ³	$W_{el,y}$	1.1476e-03 m ³	
b	260.0 mm	I_y	1.4919e-04 m ⁴	$W_{pl,z}$	6.0225e-04 m ³	$W_{el,z}$	3.9496e-04 m ³	
t_f	17.5 mm	I_z	5.1345e-05 m ⁴	$A_{w,pl,y}$	9.5944e-03 m ²	$A_{w,el,y}$	9.5944e-03 m ²	
t_w	10.0 mm	Massa/m	93.0 kg/m	$A_{w,pl,z}$	3.7594e-03 m ²	$A_{w,el,z}$	3.7594e-03 m ²	
r_i	24.0 mm			I_t	1.2378e-06 m ⁴	I_w	7.5365e-07 m ⁶	
S235								
$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²							
$f_y (> 40 \text{ mm})$	215.00 N/mm ²							

DOORSNEDE (#6.2)

Staaf C9-V1 (0.000-3.300)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	3.300 m		
Normaalkracht	N_{Ed}	0.00 kN	Ontwerpweerstand (6.6) N_{Rd} 2783.44 kN
Buigmoment	$M_{y,Ed}$	-259.48 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 301.48 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 141.53 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 1301.75 kN
Dwarskracht	$V_{z,Ed}$	-157.26 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 510.07 kN

Buiging en schuif #6.2.8

Verhouding	30.8 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.86
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.31

KIP (#6.3.2)

Staaf C9-V1 (0.000-3.300)

Equivalent profiel	HE260B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

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Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		3.300 m	Moment (eind)	M_y	-226.08 kNm
Lengte	L	3.300 m	Moment (max)	M_y	-226.08 kNm
Maatgevende flens	Onder		Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (6)	Belasting	q	41.52 kN/m
Lengte	L_{st}	2.706 m	Lengte	L_{kip}	3.300 m
	(NB.NB.12) S	1.258 m			
Coefficient	C_1	1.680	Coefficient	C_2 (Tabel)	0.780
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	3.300 m
Coefficient	(NB.NB.11) C	8.235	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	2591.05 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.341	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.573
Reductiefactor	(6.56) $\chi_{LT,y}$	0.968			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	291.74 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	141.53 kNm			

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)

NEN-EN1993-1-1(6.54): UC = 0.00

DOORBUIGINGSTOETSING

Staaf C9-V1 (0.000-3.300)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	2.079	-2.1 Fr.C.(w1)	-0.3 Qu.C.1	-2.4	0.0	-2.4	13.2	0.18
Z''	2.079	-2.1 Fr.C.(w1)	-0.3 Qu.C.1	-2.4	0.0	-2.4	13.2	0.18
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	2.079	-0.5 Fr.C.1	-0.5	0.0	9.9	0.05
Z''	2.079	-0.5 Fr.C.1	-0.5	0.0	9.9	0.05
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C10-V1 (0.000-5.000)

HE260B

h	260.0 mm	A	1.1844e-02 m ²	$W_{pl,y}$	1.2829e-03 m ³	$W_{el,y}$	1.1476e-03 m ³
b	260.0 mm	I_y	1.4919e-04 m ⁴	$W_{pl,z}$	6.0225e-04 m ³	$W_{el,z}$	3.9496e-04 m ³
t_f	17.5 mm	I_z	5.1345e-05 m ⁴	$A_{w,pl,y}$	9.5944e-03 m ²	$A_{w,el,y}$	9.5944e-03 m ²
t_w	10.0 mm	Massa/m	93.0 kg/m	$A_{w,pl,z}$	3.7594e-03 m ²	$A_{w,el,z}$	3.7594e-03 m ²
r_i	24.0 mm			I_t	1.2378e-06 m ⁴	I_w	7.5365e-07 m ⁶

S235

$f_y (\leq 40 \text{ mm})$	235.00 N/mm ²
$f_y (> 40 \text{ mm})$	215.00 N/mm ²

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DOORSNEDE (#6.2)

Staal C10-V1 (0.000-5.000)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N_{Ed}	2.82 kN	Ontwerpweerstand (6.6) N_{Rd} 2783.44 kN
Buigmoment	$M_{y,Ed}$	-212.00 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 301.48 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 141.53 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 1301.75 kN
Dwarskracht	$V_{z,Ed}$	160.27 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 510.07 kN

Buiging en schuif #6.2.8

Verhouding	31.4 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
NEN-EN1993-1-1(6.12): UC (y) = 0.70
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.31

KNIK (#6.3.1)

Staal C10-V1 (0.000-5.000)

Profiel	HE260B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		
Maatgevend veld	0.000 - 5.000 m	Maatgevend veld	0.000 - 5.000 m
Normaalkracht	$N_{Ed,y}$	-0.14 kN	Normaalkracht $N_{Ed,z}$ -0.14 kN
Lengte	$L_{cr,y}$	5.000 m	Lengte $L_{cr,z}$ 5.000 m
Elastische kritische kracht	$N_{cr,y}$	12368.90 kN	Elastische kritische kracht $N_{cr,z}$ 4256.76 kN
Slankheid	λ_y	0.474	Slankheid λ_z 0.809
Knikcurve	Tabel 6.2	b	Knikcurve Tabel 6.2 c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor Tabel 6.1 α_z 0.490
		Φ_y	Φ_z 0.976
Reductiefactor	(6.49)	χ_y	Reductiefactor (6.49) χ_z 0.657
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand (6.47) $N_{b,Rd,z}$ 1827.98 kN

NEN-EN1993-1-1(6.46): UC = 0.00

KIP (#6.3.2)

Staal C10-V1 (0.000-5.000)

Equivalent profiel	HE260B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-181.57 kNm
Veld einde	5.000 m	Moment (eind)	M_y	-6.80 kNm
Lengte	L	Moment (max)	M_y	50.28 kNm
Maatgevende flens	Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.4	Moment	M	181.57 kNm
Belasting	q	Lengte	L_{st}	5.000 m
	B^*	Lengte	L_{st}	5.000 m
	β	Lengte	L_{kip}	5.000 m

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	(NB.NB.12)	S	1.258 m			
Coefficient		C ₁	2.300	Coefficient	C ₂ (Tabel)	1.097
Coefficient		C ₂ (Berekend)	0.000	Lengte	L _g	5.000 m
Coefficient	(NB.NB.11)	C	9.211	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6)	M _{cr}	1912.65 kNm			

Kipcurve #6.3.2.2

Slankheid		λ_{LT}	0.397	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}	0.210		Φ_{LT}	0.600
Reductiefactor	(6.56)	$\chi_{LT,y}$	0.954			
Reductiefactor		$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55)	M _{b,Rd,y}	287.49 kNm			
Ontwerpweerstand	(6.55)	M _{b,Rd,z}	141.53 kNm			

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)

NEN-EN1993-1-1(6.54): UC = 0.00

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C10-V1 (0.000-5.000)

Profiel	HE260B	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	-181.57 kNm	M	0.00 kNm	M	-181.57 kNm
ψM	-6.80 kNm	ψM	0.00 kNm	ψM	-6.80 kNm
M _s	35.57 kNm	ψ	1.000	M _s	35.57 kNm
ψ	0.037	Belasting	Geconcentreerd	ψ	0.037
α_s	-0.196	C _{mz}	1.000	α_s	-0.196
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.400			C _{mLT}	0.400

Interactiefactoren (Tabel B.2)

	k _{yy}	0.400		k _{yz}	0.600
	k _{zy}	1.000		k _{zz}	1.000
Maatgevend veld		0.000 - 5.000 m	Maatgevend veld		0.000 - 5.000 m
Normaalkracht	N _{y,Ed}	-0.14 kN	Normaalkracht	N _{z,Ed}	-0.14 kN
Lengte	L _{y,cr}	5.000 m	Lengte	L _{z,cr}	5.000 m
Reductiefactor	(6.49) χ_y	0.895	Reductiefactor	(6.49) χ_z	0.657
Ontwerpweerstand	N _{Rk}	2783.44 kN			
Maatgevend veld		0.000 - 5.000 m	Maatgevend veld		0.000 - 5.000 m
Buigmoment	M _{y,Ed}	181.57 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	301.48 kNm	Ontwerpweerstand	M _{z,Rk}	141.53 kNm
Reductiefactor	χ_{LT}	0.954			

NEN-EN1993-1-1(6.61): UC = 0.25

NEN-EN1993-1-1(6.62): UC = 0.63

DOORBUIGINGSTOETSING

Staaf C10-V1 (0.000-5.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w _c 0 mm

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w _{max}										
As	Positie	w ₁	B.G.	w ₃	B.G.	w _{tot}	w _c	w	Limiet (L/250)	UC
Z'	3.300	1.3	Fr.C.(w1)	0.1	Qu.C.1	1.5	0.0	1.5	20.0	0.07
Z''	3.300	1.3	Fr.C.(w1)	0.1	Qu.C.1	1.5	0.0	1.5	20.0	0.07
	m	mm		mm		mm	mm	mm	mm	

(w₂+w₃)									
As	Positie	w₃	B.G.	w	Abs. limiet	Limiet (L/333)	UC		
Z'	3.344	0.2	Fr.C.1	0.2	0.0	15.0	0.02		
Z''	3.333	0.2	Fr.C.1	0.2	0.0	15.0	0.02		
	m	mm		mm	mm	mm	mm		

DOORSNEDE GEGEVENS

Staaf C11-V1 (0.000-4.500)

HE260A											
h	250.0	mm	A	8.6819e-03	m²	W _{pl,y}	9.1978e-04	m³	W _{el,y}	8.3640e-04	m³
b	260.0	mm	I _y	1.0455e-04	m⁴	W _{pl,z}	4.3017e-04	m³	W _{el,z}	2.8212e-04	m³
t _f	12.5	mm	I _z	3.6676e-05	m⁴	A _{w,pl,y}	6.9944e-03	m²	A _{w,el,y}	6.9944e-03	m²
t _w	7.5	mm	Massa/m	68.2	kg/m	A _{w,pl,z}	2.8757e-03	m²	A _{w,el,z}	2.8757e-03	m²
r _i	24.0	mm				I _t	5.2375e-07	m⁴	I _w	5.1635e-07	m⁶
S235											
f _y (≤40 mm)	235.00	N/mm²									
f _y (>40 mm)	215.00	N/mm²									

DOORSNEDE (#6.2)

Staaf C11-V1 (0.000-4.500)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1		
Maatgevende positie		0.000	m					
Normaalkracht	N _{Ed}	-186.81	kN	Ontwerpweerstand	(6.10)	N _{Rd}	2040.26	kN
Buigmoment	M _{y,Ed}	0.00	kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	216.15	kNm
Buigmoment	M _{z,Ed}	0.00	kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	101.09	kNm
Dwarskracht	V _{y,Ed}	0.00	kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	948.99	kN
Dwarskracht	V _{z,Ed}	0.95	kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	390.17	kN

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.09
NEN-EN1993-1-1(6.12): UC (y) = 0.00
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.00

KNIK (#6.3.1)

Staaf C11-V1 (0.000-4.500)

Profiel		HE260A		Doorsnedeklasse		1	
Maatgevende combinatie		Fu.C.3					
Maatgevend veld		0.000 - 4.500	m	Maatgevend veld		0.000 - 4.500 m	
Normaalkracht	$N_{Ed,y}$	-162.70	kN	Normaalkracht	$N_{Ed,z}$	-162.70 kN	
Lengte	$L_{cr,y}$	4.500	m	Lengte	$L_{cr,z}$	4.500 m	
Elastische kritische kracht	$N_{cr,y}$	10700.80	kN	Elastische kritische kracht	$N_{cr,z}$	3753.80 kN	
Slankheid	λ_y	0.437		Slankheid	λ_z	0.737	
Knikcurve	Tabel 6.2	b		Knikcurve	Tabel 6.2	c	
Imperfectiefactor	Tabel 6.1	α_y	0.340	Imperfectiefactor	Tabel 6.1	α_z	0.490
		Φ_y	0.636			Φ_z	0.903
Reductiefactor	(6.49)	χ_y	0.911	Reductiefactor	(6.49)	χ_z	0.702
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	1859.21 kN	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$	1431.28 kN

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NEN-EN1993-1-1(6.46): UC = 0.11

KIP (#6.3.2)

Staaf C11-V1 (0.000-4.500)

Equivalente profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	0.00 kNm	
Veld einde	4.500 m	Moment (eind)	M_y	8.17 kNm	
Lengte	L	4.500 m	Moment (max)	M_y	8.17 kNm
Maatgevende flens	Boven	Moment (max)	M_z	0.00 kNm	

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt						NB.NB.1 (1)	β	0.00
Lengte		L_{st}	4.500 m	Lengte		L_{kip}	4.500 m	
	(NB.NB.12)	S	1.601 m					
Coefficient		C_1	1.750	Coefficient		C_2 (Tabel)	0.000	
Coefficient		C_2 (Berekend)	0.000	Lengte		L_g	4.500 m	
Coefficient	(NB.NB.11)	C	8.245	Reductiefactor	(NB.NB.7)	K_{red}	1.000	
	(NB.NB.6)	M_{cr}	1045.88 kNm					

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.455	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.630
Reductiefactor	(6.56) $\chi_{LT,y}$	0.938			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	202.70 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	101.09 kNm			

NEN-EN1993-1-1(6.54): UC = 0.04

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C11-V1 (0.000-4.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	8.17 kNm	M	0.00 kNm	M	8.17 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	0.000	ψ	1.000	ψ	0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

	k_{yy}	0.612		k_{yz}	0.660
	k_{zy}	0.976		k_{zz}	1.099
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-162.70 kN	Normaalkracht	$N_{z,Ed}$	-162.70 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.911	Reductiefactor	(6.49) χ_z	0.702
Ontwerpweerstand	N_{Rk}	2040.26 kN			

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Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	8.17 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.938			

NEN-EN1993-1-1(6.61): UC = 0.11

NEN-EN1993-1-1(6.62): UC = 0.15

DOORBUIGINGSTOETSING

Staal C11-V1 (0.000-4.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	-6.9	Ka.C.2	15.0	0.46
	mm		mm	

DOORSNEDE GEGEVENS

Staal C13-V1 (0.000-4.500)

HE260A

h	250.0 mm	A	8.6819e-03 m ²	$W_{pl,y}$	9.1978e-04 m ³	$W_{el,y}$	8.3640e-04 m ³
b	260.0 mm	I_y	1.0455e-04 m ⁴	$W_{pl,z}$	4.3017e-04 m ³	$W_{el,z}$	2.8212e-04 m ³
t_f	12.5 mm	I_z	3.6676e-05 m ⁴	$A_{w,pl,y}$	6.9944e-03 m ²	$A_{w,el,y}$	6.9944e-03 m ²
t_w	7.5 mm	Massa/m	68.2 kg/m	$A_{w,pl,z}$	2.8757e-03 m ²	$A_{w,el,z}$	2.8757e-03 m ²
r_i	24.0 mm			I_t	5.2375e-07 m ⁴	I_w	5.1635e-07 m ⁶

S235

f_y (≤ 40 mm) 235.00 N/mm²

f_y (> 40 mm) 215.00 N/mm²

DOORSNEDE (#6.2)

Staal C13-V1 (0.000-4.500)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N_{Ed}	-585.47 kN	Ontwerpweerstand (6.10) N_{Rd} 2040.26 kN
Buigmoment	$M_{y,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 948.99 kN
Dwarskracht	$V_{z,Ed}$	6.08 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 390.17 kN

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.29

NEN-EN1993-1-1(6.12): UC (y) = 0.00

NEN-EN1993-1-1(6.12): UC (z) = 0.00

NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staal C13-V1 (0.000-4.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		
Maatgevend veld	0.000 - 4.500 m	Maatgevend veld	0.000 - 4.500 m
Normaalkracht	$N_{Ed,y}$	-585.47 kN	Normaalkracht $N_{Ed,z}$ -585.47 kN
Lengte	$L_{cr,y}$	4.500 m	Lengte $L_{cr,z}$ 4.500 m

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Elastische kritische kracht	$N_{cr,y}$	10700.80 kN	Elastische kritische kracht	$N_{cr,z}$	3753.80 kN
Slankheid	λ_y	0.437	Slankheid	λ_z	0.737
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		0.340			0.490
		Φ_y			0.903
		0.636			0.702
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	1859.21 kN	Ontwerpweerstand	(6.47)
				$N_{b,Rd,z}$	1431.28 kN

NEN-EN1993-1-1(6.46): UC = 0.41

KIP (#6.3.2)

Staaf C13-V1 (0.000-4.500)

Equivalent profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		4.500 m	Moment (eind)	M_y	27.36 kNm
Lengte	L	4.500 m	Moment (max)	M_y	27.36 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.00
Lengte		L_{st}	4.500 m	Lengte	L_{kip} 4.500 m
	(NB.NB.12)	S	1.601 m		
Coefficient		C_1	1.750	Coefficient	C_2 (Tabel) 0.000
Coefficient		C_2 (Berekend)	0.000	Lengte	L_g 4.500 m
Coefficient	(NB.NB.11)	C	8.245	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6)	M_{cr}	1045.88 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.455	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}		Φ_{LT}	0.630
Reductiefactor	(6.56)	$\chi_{LT,y}$			
Reductiefactor		$\chi_{LT,z}$			
		1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	202.70 kNm		
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	101.09 kNm		

NEN-EN1993-1-1(6.54): UC = 0.13

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C13-V1 (0.000-4.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalenten gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	27.36 kNm	M	0.00 kNm	M	27.36 kNm
ψM	0.00 kNm	ψM	0.00 kNm	ψM	0.00 kNm
ψ	0.000	ψ	1.000	ψ	0.000
Belasting	Geconcentreerd	Belasting	Geconcentreerd	Belasting	Geconcentreerd
C_{my}	0.600	C_{mz}	1.000	C_{mLT}	0.600

Interactiefactoren (Tabel B.2)

k_{yy}	0.645	k_{yz}	0.815
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	k_{zy}	0.914		k_{zz}	1.358
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Normaalkracht	$N_{y,Ed}$	-585.47 kN	Normaalkracht	$N_{z,Ed}$	-585.47 kN
Lengte	$L_{y,cr}$	4.500 m	Lengte	$L_{z,cr}$	4.500 m
Reductiefactor	(6.49) χ_y	0.911	Reductiefactor	(6.49) χ_z	0.702
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 4.500 m	Maatgevend veld		0.000 - 4.500 m
Buigmoment	$M_{y,Ed}$	27.36 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.938			

NEN-EN1993-1-1(6.61): UC = 0.40

NEN-EN1993-1-1(6.62): UC = 0.53

DOORBUIGINGSTOETSING

Staal C13-V1 (0.000-4.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	-6.9	Ka.C.2	15.0	0.46
	mm		mm	

DOORSNEDE GEGEVENS

Staal C14-V1 (0.000-3.248)

HE260A							
h	250.0 mm	A	8.6819e-03 m ²	$W_{pl,y}$	9.1978e-04 m ³	$W_{el,y}$	8.3640e-04 m ³
b	260.0 mm	I_y	1.0455e-04 m ⁴	$W_{pl,z}$	4.3017e-04 m ³	$W_{el,z}$	2.8212e-04 m ³
t_f	12.5 mm	I_z	3.6676e-05 m ⁴	$A_{w,pl,y}$	6.9944e-03 m ²	$A_{w,el,y}$	6.9944e-03 m ²
t_w	7.5 mm	Massa/m	68.2 kg/m	$A_{w,pl,z}$	2.8757e-03 m ²	$A_{w,el,z}$	2.8757e-03 m ²
r_i	24.0 mm			I_t	5.2375e-07 m ⁴	I_w	5.1635e-07 m ⁶

S235

$f_y (\leq 40 \text{ mm})$ 235.00 N/mm²

$f_y (> 40 \text{ mm})$ 215.00 N/mm²

DOORSNEDE (#6.2)

Staal C14-V1 (0.000-3.248)

Maatgevende combinatie	Fu.C.3	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N_{Ed}	-270.31 kN	Ontwerpweerstand (6.10) N_{Rd} 2040.26 kN
Buigmoment	$M_{y,Ed}$	-18.39 kNm	Ontwerpweerstand (6.13) $M_{y,Rd}$ 216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13) $M_{z,Rd}$ 101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18) $V_{y,Rd}$ 948.99 kN
Dwarskracht	$V_{z,Ed}$	5.94 kN	Ontwerpweerstand (6.18) $V_{z,Rd}$ 390.17 kN

Buiging en schuif #6.2.8

Verhouding	1.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Ja	Is reductie nodig?	Nee
	n		
	a		
	0.132		
	0.251		

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Ontwerpweerstand		$M_{pl,y,Rd}$	216.15 kNm
Ontwerpweerstand	(6.36)	$M_{N,y,Rd}$	214.46 kNm

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.13
NEN-EN1993-1-1(6.12): UC (y) = 0.09
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.02
NEN-EN1993-1-1(6.31): UC (y) = 0.09

KNIK (#6.3.1)

Staaf C14-V1 (0.000-3.248)

Profiel		HE260A	Doorsnedeklasse	1
Maatgevende combinatie		Fu.C.1		
Maatgevend veld		0.000 - 3.248 m	Maatgevend veld	0.000 - 3.248 m
Normaalkracht	$N_{Ed,y}$	-267.94 kN	Normaalkracht	$N_{Ed,z}$ -267.94 kN
Lengte	$L_{cr,y}$	3.248 m	Lengte	$L_{cr,z}$ 3.248 m
Elastische kritische kracht	$N_{cr,y}$	20541.75 kN	Elastische kritische kracht	$N_{cr,z}$ 7205.98 kN
Slankheid	λ_y	0.315	Slankheid	λ_z 0.532
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2 c
Imperfectiefactor	Tabel 6.1	α_y 0.340	Imperfectiefactor	Tabel 6.1 α_z 0.490
		Φ_y 0.569		Φ_z 0.723
Reductiefactor	(6.49)	χ_y 0.959	Reductiefactor	(6.49) χ_z 0.825
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$ 1955.63 kN	Ontwerpweerstand	(6.47) $N_{b,Rd,z}$ 1682.94 kN

NEN-EN1993-1-1(6.46): UC = 0.16

KIP (#6.3.2)

Staaf C14-V1 (0.000-3.248)

Equivalent profiel		HE260A	Doorsnedeklasse	1
Maatgevende combinatie		Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen		Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-20.12 kNm
Veld einde		3.248 m	Moment (eind)	M_y	-9.55 kNm
Lengte	L	3.248 m	Moment (max)	M_y	-20.12 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	0.47
Lengte	L_{st}	3.248 m		β	0.474
Lengte	L_{kip}	3.248 m	(NB.NB.12)	S	1.601 m
Coefficient	C_1	1.319	Coefficient	C_2 (Tabel)	0.000
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	3.248 m
Coefficient	(NB.NB.11) C	7.641	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	1342.87 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.401	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.602
Reductiefactor	(6.56) $\chi_{LT,y}$	0.952			
Reductiefactor	$\chi_{LT,z}$	1.000			

Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	205.87 kNm
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	101.09 kNm

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NEN-EN1993-1-1(6.54): UC = 0.10

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C14-V1 (0.000-3.248)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	-20.12 kNm	M	0.00 kNm	M	-20.12 kNm
ψM	-9.55 kNm	ψM	0.00 kNm	ψM	-9.55 kNm
M _s	-14.84 kNm	ψ	1.000	M _s	-14.84 kNm
ψ	0.474	Belasting	Geconcentreerd	ψ	0.474
α _s	0.737	C _{mz}	1.000	α _s	0.737
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.790			C _{mLT}	0.790

Interactiefactoren (Tabel B.2)

	k _{yy}	0.802		k _{yz}	0.644
	k _{zy}	0.984		k _{zz}	1.074
Maatgevend veld		0.000 - 3.248 m	Maatgevend veld		0.000 - 3.248 m
Normaalkracht	N _{y,Ed}	-267.94 kN	Normaalkracht	N _{z,Ed}	-267.94 kN
Lengte	L _{y,cr}	3.248 m	Lengte	L _{z,cr}	3.248 m
Reductiefactor	(6.49) X _y	0.959	Reductiefactor	(6.49) X _z	0.825
Ontwerpweerstand	N _{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 3.248 m	Maatgevend veld		0.000 - 3.248 m
Buigmoment	M _{y,Ed}	20.12 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	ΔM _{y,Ed}	0.00 kNm	Buigmoment	ΔM _{z,Ed}	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	216.15 kNm	Ontwerpweerstand	M _{z,Rk}	101.09 kNm
Reductiefactor	X _{LT}	0.952			

NEN-EN1993-1-1(6.61): UC = 0.22

NEN-EN1993-1-1(6.62): UC = 0.26

DOORSNEDE GEGEVENS

Staaf C15-V1 (3.248-3.700)

HE260A							
h	250.0 mm	A	8.6819e-03 m ²	W _{pl,y}	9.1978e-04 m ³	W _{el,y}	8.3640e-04 m ³
b	260.0 mm	I _y	1.0455e-04 m ⁴	W _{pl,z}	4.3017e-04 m ³	W _{el,z}	2.8212e-04 m ³
t _f	12.5 mm	I _z	3.6676e-05 m ⁴	A _{w,pl,y}	6.9944e-03 m ²	A _{w,el,y}	6.9944e-03 m ²
t _w	7.5 mm	Massa/m	68.2 kg/m	A _{w,pl,z}	2.8757e-03 m ²	A _{w,el,z}	2.8757e-03 m ²
r _i	24.0 mm			I _t	5.2375e-07 m ⁴	I _w	5.1635e-07 m ⁶
S235							
f _y (≤40 mm)	235.00 N/mm ²						
f _y (>40 mm)	215.00 N/mm ²						

DOORSNEDE (#6.2)

Staaf C15-V1 (3.248-3.700)

Maatgevende combinatie		Fu.C.3	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N _{Ed}	-270.31 kN	Ontwerpweerstand	(6.10)	N _{Rd}	2040.26 kN
Buigmoment	M _{y,Ed}	0.91 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	216.15 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	101.09 kNm

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Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	948.99 kN
Dwarskracht	$V_{z,Ed}$	5.94 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	390.17 kN

Buiging en schuif #6.2.8

Verhouding	1.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Ja	Is reductie nodig?	Nee
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	n	0.132	
	a	0.251	
Ontwerpweerstand	$M_{pl,y,Rd}$	216.15 kNm	
Ontwerpweerstand	(6.36) $M_{N,y,Rd}$	214.46 kNm	

Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.13
NEN-EN1993-1-1(6.12): UC (y) = 0.00
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.02
NEN-EN1993-1-1(6.31): UC (y) = 0.00

KNIK (#6.3.1)

Staaf C15-V1 (3.248-3.700)

Profiel		HE260A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.1			
Maatgevend veld		0.000 - 0.452 m	Maatgevend veld		0.000 - 0.452 m
Normaalkracht	$N_{Ed,y}$	-267.94 kN	Normaalkracht	$N_{Ed,z}$	-267.94 kN
Lengte	$L_{cr,y}$	0.452 m	Lengte	$L_{cr,z}$	0.452 m
Elastische kritische kracht	$N_{cr,y}$	1060137.31 kN	Elastische kritische kracht	$N_{cr,z}$	371892.62 kN
Slankheid	λ_y	0.044	Slankheid	λ_z	0.074
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2	c
Imperfectiefactor	Tabel 6.1	α_y	Imperfectiefactor	Tabel 6.1	α_z
		Φ_y			Φ_z
		0.474			0.472
Reductiefactor	(6.49)	χ_y	Reductiefactor	(6.49)	χ_z
		1.000			1.000
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$	Ontwerpweerstand	(6.47)	$N_{b,Rd,z}$
		2040.26 kN			2040.26 kN

NEN-EN1993-1-1(6.46): UC = 0.13

KIP (#6.3.2)

Staaf C15-V1 (3.248-3.700)

Equivalent profiel		HE260A	Doorsnedeklasse		1
Maatgevende combinatie		Fu.C.3	Aangrijphoogte van de last vanaf het midden		0.000 m
Kipsteunen		Geen			

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.91 kNm
Veld einde		0.452 m	Moment (eind)	M_y	3.59 kNm
Lengte	L	0.452 m	Moment (max)	M_y	3.59 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.7	Moment	M	3.59 kNm
Kracht	F	0.04 kN	Lengte	L_{st}	0.452 m
	B^{**}	1.00	Lengte	L_{st}	0.452 m
	β	0.252	Lengte	L_{kip}	0.452 m
	(NB.NB.12) S	1.601 m			
Coefficient	C_1	1.555	Coefficient	C_2 (Tabel)	0.001

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Coefficient		C ₂ (Berekend)	0.000	Lengte		L _g	0.452 m
Coefficient	(NB.NB.11)	C	54.566	Reductiefactor	(NB.NB.7)	K _{red}	1.000
	(NB.NB.6)	M _{cr}	68891.10 kNm				

Kipcurve #6.3.2.2

Slankheid		λ _{LT}	0.200	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α _{LT}	0.210			Φ _{LT}
Reductiefactor	(6.56)	χ _{LT,y}	1.000			0.520
Reductiefactor		χ _{LT,z}	1.000			
Ontwerpweerstand	(6.55)	M _{b,Rd,y}	216.15 kNm			
Ontwerpweerstand	(6.55)	M _{b,Rd,z}	101.09 kNm			

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)

NEN-EN1993-1-1(6.54): UC = 0.00

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C15-V1 (3.248-3.700)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C _{my}		C _{mz}		C _{mLT}	
M	-9.55 kNm	M	0.00 kNm	M	-9.55 kNm
ψM	-8.07 kNm	ψM	0.00 kNm	ψM	-8.07 kNm
M _s	-8.81 kNm	ψ	1.000	M _s	-8.81 kNm
ψ	0.846	Belasting	Geconcentreerd	ψ	0.846
α _s	0.923	C _{mz}	1.000	α _s	0.923
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.938			C _{mLT}	0.938

Interactiefactoren (Tabel B.2)

	k _{yy}	0.919		k _{yz}	0.564
	k _{zy}	0.674		k _{zz}	0.941
Maatgevend veld		0.000 - 0.452 m	Maatgevend veld		0.000 - 0.452 m
Normaalkracht	N _{y,Ed}	-267.94 kN	Normaalkracht	N _{z,Ed}	-267.94 kN
Lengte	L _{y,cr}	0.452 m	Lengte	L _{z,cr}	0.452 m
Reductiefactor	(6.49) χ _y	1.000	Reductiefactor	(6.49) χ _z	1.000
Ontwerpweerstand	N _{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 0.452 m	Maatgevend veld		0.000 - 0.452 m
Buigmoment	M _{y,Ed}	9.55 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	ΔM _{y,Ed}	0.00 kNm	Buigmoment	ΔM _{z,Ed}	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	216.15 kNm	Ontwerpweerstand	M _{z,Rk}	101.09 kNm
Reductiefactor	χ _{LT}	1.000			

NEN-EN1993-1-1(6.61): UC = 0.17

NEN-EN1993-1-1(6.62): UC = 0.16

DOORSNEDE GEGEVENS

Staaf C16-V1 (0.000-5.000)

HE260A							
h	250.0 mm	A	8.6819e-03 m ²	W _{pl,y}	9.1978e-04 m ³	W _{el,y}	8.3640e-04 m ³
b	260.0 mm	I _y	1.0455e-04 m ⁴	W _{pl,z}	4.3017e-04 m ³	W _{el,z}	2.8212e-04 m ³
t _f	12.5 mm	I _z	3.6676e-05 m ⁴	A _{w,pl,y}	6.9944e-03 m ²	A _{w,el,y}	6.9944e-03 m ²
t _w	7.5 mm	Massa/m	68.2 kg/m	A _{w,pl,z}	2.8757e-03 m ²	A _{w,el,z}	2.8757e-03 m ²

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r_i 24.0 mm I_t 5.2375e-07 m⁴ I_w 5.1635e-07 m⁶

S235

$f_y (\leq 40 \text{ mm})$ 235.00 N/mm²

$f_y (> 40 \text{ mm})$ 215.00 N/mm²

DOORSNEDE (#6.2)

Staal C16-V1 (0.000-5.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N _{Ed}	5.25 kN	Ontwerpweerstand	(6.6)	N _{Rd}	2040.26 kN
Buigmoment	M _{y,Ed}	-142.12 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	216.15 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	101.09 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	948.99 kN
Dwarskracht	V _{z,Ed}	139.13 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	390.17 kN

Buiging en schuif #6.2.8

Verhouding 35.7 % Verhouding 0.0 %
Is reductie nodig? Nee Is reductie nodig? Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig? Nee Is reductie nodig? Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00

NEN-EN1993-1-1(6.12): UC (y) = 0.66

NEN-EN1993-1-1(6.12): UC (z) = 0.00

NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.36

KIP (#6.3.2)

Staal C16-V1 (0.000-5.000)

Equivalent profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-142.12 kNm
Veld einde	5.000 m	Moment (eind)	M_y	-42.16 kNm
Lengte	L 5.000 m	Moment (max)	M_y	-142.12 kNm
Maatgevende flens	Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.4	Moment	M	142.12 kNm
Belasting	q	47.67 kN/m	Lengte	L_{st} 5.000 m
	B^*	-0.49	Lengte	L_{st} 5.000 m
	β	0.297	Lengte	L_{kip} 5.000 m
	(NB.NB.12) S	1.601 m		
Coefficient	C_1	2.202	Coefficient	C_2 (Tabel) 1.154
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g 5.000 m
Coefficient	(NB.NB.11) C	9.814	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6) M_{cr}	1120.32 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.439	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.622
Reductiefactor	(6.56) $\chi_{LT,y}$	0.942			
Reductiefactor	$\chi_{LT,z}$	1.000			

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Ontwerpweerstand (6.55)	$M_{b,Rd,y}$	203.64 kNm
Ontwerpweerstand (6.55)	$M_{b,Rd,z}$	101.09 kNm

NEN-EN1993-1-1(6.54): UC = 0.70

DOORBUIGINGSTOETSING

Staaf C16-V1 (0.000-5.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	2.963	2.4 Fr.C.(w1)	0.5 Qu.C.1	2.9	0.0	2.9	20.0	0.14
Z''	2.963	2.4 Fr.C.(w1)	0.5 Qu.C.1	2.9	0.0	2.9	20.0	0.14
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	2.619	0.8 Fr.C.1	0.8	0.0	15.0	0.05
Z''	2.619	0.8 Fr.C.1	0.8	0.0	15.0	0.05
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C17-V1 (0.000-3.700)

HE260A

h	250.0 mm	A	8.6819e-03 m ²	$W_{pl,y}$	9.1978e-04 m ³	$W_{el,y}$	8.3640e-04 m ³
b	260.0 mm	I_y	1.0455e-04 m ⁴	$W_{pl,z}$	4.3017e-04 m ³	$W_{el,z}$	2.8212e-04 m ³
t_f	12.5 mm	I_z	3.6676e-05 m ⁴	$A_{w,pl,y}$	6.9944e-03 m ²	$A_{w,el,y}$	6.9944e-03 m ²
t_w	7.5 mm	Massa/m	68.2 kg/m	$A_{w,pl,z}$	2.8757e-03 m ²	$A_{w,el,z}$	2.8757e-03 m ²
r_i	24.0 mm			I_t	5.2375e-07 m ⁴	I_w	5.1635e-07 m ⁶

S235

f_y (≤ 40 mm)	235.00 N/mm ²
f_y (> 40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C17-V1 (0.000-3.700)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	3.700 m		

Normaalkracht	N_{Ed}	-108.81 kN	Ontwerpweerstand (6.10)	N_{Rd}	2040.26 kN
Buigmoment	$M_{y,Ed}$	11.90 kNm	Ontwerpweerstand (6.13)	$M_{y,Rd}$	216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand (6.13)	$M_{z,Rd}$	101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand (6.18)	$V_{y,Rd}$	948.99 kN
Dwarskracht	$V_{z,Ed}$	3.77 kN	Ontwerpweerstand (6.18)	$V_{z,Rd}$	390.17 kN

Buiging en schuif #6.2.8

Verhouding	1.0 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.05
NEN-EN1993-1-1(6.12): UC (y) = 0.06
NEN-EN1993-1-1(6.12): UC (z) = 0.00

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NEN-EN1993-1-1(6.17): UC (y) = 0.00

NEN-EN1993-1-1(6.17): UC (z) = 0.01

KNIK (#6.3.1)

Staal C17-V1 (0.000-3.700)

Profiel		HE260A	Doorsnedeklasse	1
Maatgevende combinatie		Fu.C.1		
Maatgevend veld		0.000 - 3.700 m	Maatgevend veld	0.000 - 3.700 m
Normaalkracht	$N_{Ed,y}$	-108.81 kN	Normaalkracht	$N_{Ed,z}$ -108.81 kN
Lengte	$L_{cr,y}$	3.700 m	Lengte	$L_{cr,z}$ 3.700 m
Elastische kritische kracht	$N_{cr,y}$	15828.43 kN	Elastische kritische kracht	$N_{cr,z}$ 5552.56 kN
Slankheid	λ_y	0.359	Slankheid	λ_z 0.606
Knikcurve	Tabel 6.2	b	Knikcurve	Tabel 6.2 c
Imperfectiefactor	Tabel 6.1	α_y 0.340	Imperfectiefactor	Tabel 6.1 α_z 0.490
		Φ_y 0.591		Φ_z 0.783
Reductiefactor	(6.49)	χ_y 0.942	Reductiefactor	(6.49) χ_z 0.782
Ontwerpweerstand	(6.47)	$N_{b,Rd,y}$ 1921.98 kN	Ontwerpweerstand	(6.47) $N_{b,Rd,z}$ 1594.91 kN

NEN-EN1993-1-1(6.46): UC = 0.07

KIP (#6.3.2)

Staal C17-V1 (0.000-3.700)

Equivalente profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	1.37 kNm
Veld einde		3.700 m	Moment (eind)	M_y	7.58 kNm
Lengte	L	3.700 m	Moment (max)	M_y	7.58 kNm
Maatgevende flens		Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt	NB.NB.1 (1)	β	0.18
Lengte	L_{st} 3.700 m	β	0.181
Lengte	L_{kip} 3.700 m	(NB.NB.12) S	1.601 m
Coefficient	C_1 1.570	Coefficient	C_2 (Tabel) 0.000
Coefficient	C_2 (Berekend) 0.000	Lengte	L_g 3.700 m
Coefficient	(NB.NB.11) C 8.322	Reductiefactor	(NB.NB.7) K_{red} 1.000
	(NB.NB.6) M_{cr} 1283.80 kNm		

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.410	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT} 0.210		Φ_{LT}	0.606
Reductiefactor	(6.56)	$\chi_{LT,y}$ 0.950			
Reductiefactor		$\chi_{LT,z}$ 1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$ 205.35 kNm			
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$ 101.09 kNm			

NEN-EN1993-1-1(6.54): UC = 0.04

BUIGING EN AXIALE DRUK (#6.3.3)

Staal C17-V1 (0.000-3.700)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

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Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	11.90 kNm	M	0.00 kNm	M	11.90 kNm
ψM	-2.06 kNm	ψM	0.00 kNm	ψM	-2.06 kNm
M _s	4.92 kNm	ψ	1.000	M _s	4.92 kNm
ψ	-0.173	Belasting	Geconcentreerd	ψ	-0.173
α _s	0.413	C _{mz}	1.000	α _s	0.413
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C _{my}	0.531			C _{mLT}	0.531

Interactiefactoren (Tabel B.2)

	k _{yy}	0.536		k _{yz}	0.625
	k _{zy}	0.985		k _{zz}	1.042
Maatgevend veld		0.000 - 3.700 m	Maatgevend veld		0.000 - 3.700 m
Normaalkracht	N _{y,Ed}	-108.81 kN	Normaalkracht	N _{z,Ed}	-108.81 kN
Lengte	L _{y,cr}	3.700 m	Lengte	L _{z,cr}	3.700 m
Reductiefactor	(6.49) X _y	0.942	Reductiefactor	(6.49) X _z	0.782
Ontwerpweerstand	N _{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 3.700 m	Maatgevend veld		0.000 - 3.700 m
Buigmoment	M _{y,Ed}	11.90 kNm	Buigmoment	M _{z,Ed}	0.00 kNm
Buigmoment	ΔM _{y,Ed}	0.00 kNm	Buigmoment	ΔM _{z,Ed}	0.00 kNm
Ontwerpweerstand	M _{y,Rk}	216.15 kNm	Ontwerpweerstand	M _{z,Rk}	101.09 kNm
Reductiefactor	XLT	0.961			

NEN-EN1993-1-1(6.61): UC = 0.09

NEN-EN1993-1-1(6.62): UC = 0.12

DOORBUIGINGSTOETSING

Staaf C17-V1 (0.000-3.700)

Constructietype	Kolom
Toetsing	1 bouwlaag

u _{i,max}			
As	u	B.G.	Limiet (H/300) UC
X	-7.6	Ka.C.2	12.3 0.62
	mm		mm

DOORSNEDE GEGEVENS

Staaf C18-V1 (0.000-3.500)

HE260A								
h	250.0 mm	A	8.6819e-03 m ²	W _{pl,y}	9.1978e-04 m ³	W _{el,y}	8.3640e-04 m ³	
b	260.0 mm	I _y	1.0455e-04 m ⁴	W _{pl,z}	4.3017e-04 m ³	W _{el,z}	2.8212e-04 m ³	
t _f	12.5 mm	I _z	3.6676e-05 m ⁴	A _{w,pl,y}	6.9944e-03 m ²	A _{w,el,y}	6.9944e-03 m ²	
t _w	7.5 mm	Massa/m	68.2 kg/m	A _{w,pl,z}	2.8757e-03 m ²	A _{w,el,z}	2.8757e-03 m ²	
r _i	24.0 mm			I _t	5.2375e-07 m ⁴	I _w	5.1635e-07 m ⁶	

S235

f_y(≤40 mm) 235.00 N/mm²

f_y(>40 mm) 215.00 N/mm²

DOORSNEDE (#6.2)

Staaf C18-V1 (0.000-3.500)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	0.000 m		
Normaalkracht	N _{Ed}	-9.66 kN	Ontwerpweerstand (6.10) N _{Rd} 2040.26 kN

Buigmoment	$M_{y,Ed}$	-30.26 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	216.15 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	101.09 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	948.99 kN
Dwarskracht	$V_{z,Ed}$	9.03 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	390.17 kN

Buiging en schuif #6.2.8

Verhouding	2.3 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Buig- en normaalkracht #6.2.9

Is reductie nodig?	Nee	Is reductie nodig?	Nee
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Uitgevoerde controles

NEN-EN1993-1-1(6.9): UC = 0.00
NEN-EN1993-1-1(6.12): UC (y) = 0.14
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.02

KNIK (#6.3.1)

Staaf C18-V1 (0.000-3.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		
Maatgevend veld	0.000 - 3.500 m	Maatgevend veld	0.000 - 3.500 m
Normaalkracht	$N_{Ed,y}$	Normaalkracht	$N_{Ed,z}$
	-9.66 kN		-9.66 kN
Lengte	$L_{cr,y}$	Lengte	$L_{cr,z}$
	3.500 m		3.500 m
Elastische kritische kracht	$N_{cr,y}$	Elastische kritische kracht	$N_{cr,z}$
	17689.08 kN		6205.27 kN
Slankheid	λ_y	Slankheid	λ_z
	0.340		0.573
Knikcurve	Tabel 6.2	Knikcurve	Tabel 6.2
Imperfectiefactor	Tabel 6.1	Imperfectiefactor	Tabel 6.1
	α_y		α_z
	0.340		0.490
	Φ_y		Φ_z
	0.581		0.756
Reductiefactor	(6.49)	Reductiefactor	(6.49)
	χ_y		χ_z
	0.949		0.801
Ontwerpweerstand	(6.47)	Ontwerpweerstand	(6.47)
	$N_{b,Rd,y}$		$N_{b,Rd,z}$
	1937.00 kN		1634.31 kN

NEN-EN1993-1-1(6.46): UC = 0.01

KIP (#6.3.2)

Staaf C18-V1 (0.000-3.500)

Equivalent profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.3	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-22.67 kNm
Veld einde	3.500 m	Moment (eind)	M_y	0.48 kNm
Lengte	L	Moment (max)	M_y	0.48 kNm
Maatgevende flens	Boven	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.1 (1)		β	-0.02
Lengte	L _{st}	3.500	m	β	-0.021
Lengte	L _{kip}	3.500	m	(NB.NB.12) S	1.601 m
Coefficient	C ₁	1.772	Coefficient	C ₂ (Tabel)	0.000
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	3.500 m
Coefficient	(NB.NB.11) C	9.749	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	1589.91	kNm		

Kipcurve #6.3.2.2

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Slankheid		λ_{LT}	0.369	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3	α_{LT}	0.210		Φ_{LT}	0.586
Reductiefactor	(6.56)	$\chi_{LT,y}$	0.961			
Reductiefactor		$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	207.68 kNm			
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	101.09 kNm			

Kip n.v.t.: $\bar{\lambda}_{LT} \leq 0.4$ NEN-EN1993-1-1 #6.3.2.2(4)

NEN-EN1993-1-1(6.54): UC = 0.00

BUIGING EN AXIALE DRUK (#6.3.3)

Staaf C18-V1 (0.000-3.500)

Profiel	HE260A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1		

Equivalente gelijkmatige momentfactoren (Tabel B.3)

C_{my}		C_{mz}		C_{mLT}	
M	-30.26 kNm	M	0.00 kNm	M	-30.26 kNm
ψM	1.33 kNm	ψM	0.00 kNm	ψM	1.33 kNm
M_s	-14.47 kNm	ψ	1.000	M_s	-14.47 kNm
ψ	-0.044	Belasting	Geconcentreerd	ψ	-0.044
α_s	0.478	C_{mz}	1.000	α_s	0.478
Belasting	Gelijkmatig			Belasting	Gelijkmatig
C_{my}	0.582			C_{mLT}	0.582

Interactiefactoren (Tabel B.2)

	k_{yy}	0.583		k_{yz}	0.602
	k_{zy}	0.999		k_{zz}	1.003
Maatgevend veld		0.000 - 3.500 m	Maatgevend veld		0.000 - 3.500 m
Normaalkracht	$N_{y,Ed}$	-9.66 kN	Normaalkracht	$N_{z,Ed}$	-9.66 kN
Lengte	$L_{y,cr}$	3.500 m	Lengte	$L_{z,cr}$	3.500 m
Reductiefactor	(6.49) χ_y	0.949	Reductiefactor	(6.49) χ_z	0.801
Ontwerpweerstand	N_{Rk}	2040.26 kN			
Maatgevend veld		0.000 - 3.500 m	Maatgevend veld		0.000 - 3.500 m
Buigmoment	$M_{y,Ed}$	30.26 kNm	Buigmoment	$M_{z,Ed}$	0.00 kNm
Buigmoment	$\Delta M_{y,Ed}$	0.00 kNm	Buigmoment	$\Delta M_{z,Ed}$	0.00 kNm
Ontwerpweerstand	$M_{y,Rk}$	216.15 kNm	Ontwerpweerstand	$M_{z,Rk}$	101.09 kNm
Reductiefactor	χ_{LT}	0.961			

NEN-EN1993-1-1(6.61): UC = 0.09

NEN-EN1993-1-1(6.62): UC = 0.15

DOORBUIGINGSTOETSING

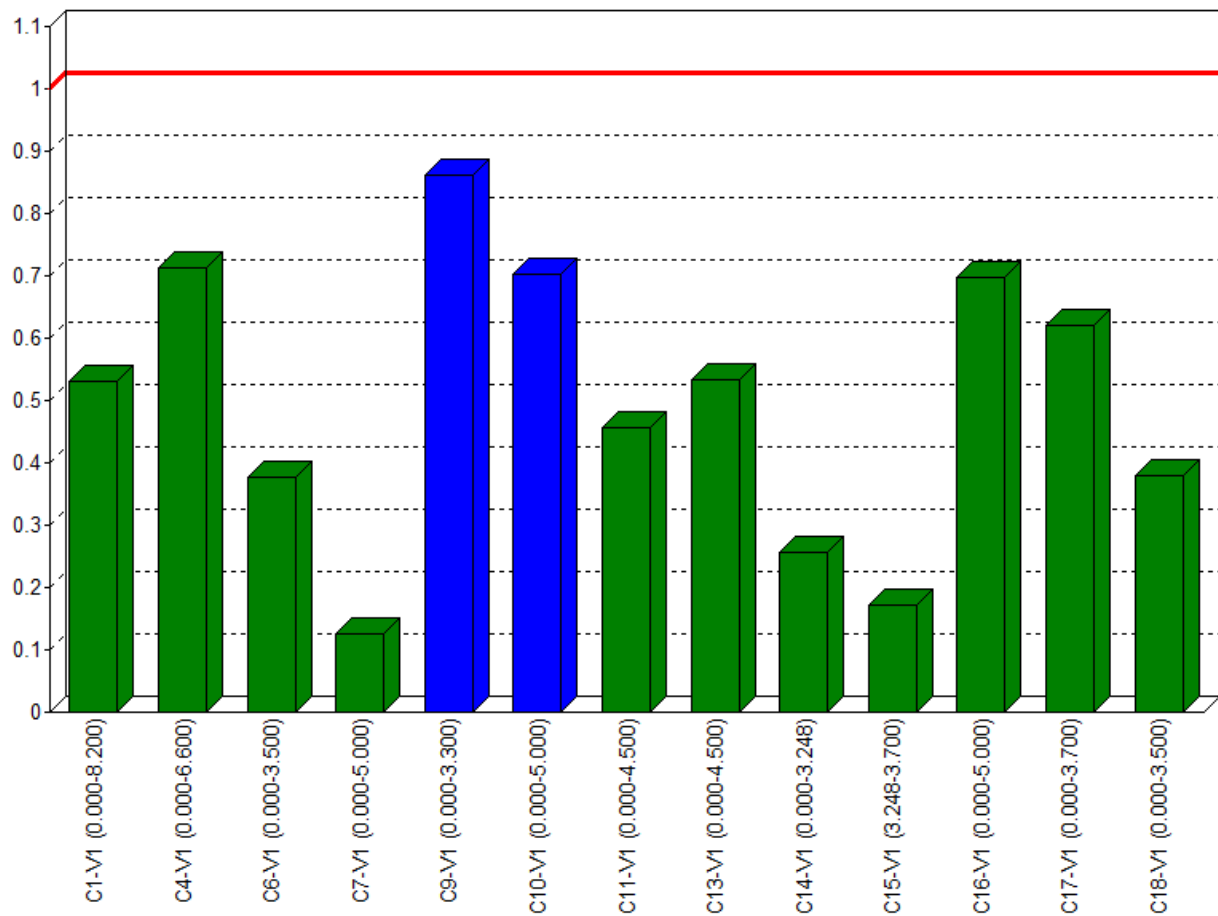
Staaf C18-V1 (0.000-3.500)

Constructietype	Kolom
Toetsing	1 bouwlaag

As	u	B.G.	$u_{i,max}$ Limiet (H/300)	UC
X	-4.4	Ka.C.2	11.7	0.38
	mm		mm	

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Afb. Staal UC Diagram



UNITY CHECK

Label	Toetsing	Combinatie	Artikel	Unity Check
C1-V1 (0.000-8.200)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.29
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.14
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.34
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.46
	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.61&6.62)	0.53
C10-V1 (0.000-5.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.70
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.00
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.00
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.63
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.07
C11-V1 (0.000-4.500)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.09
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.11
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.04
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.15
	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.61&6.62)	0.46
C13-V1 (0.000-4.500)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.9)	0.29
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.41
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.13
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.53
	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.61&6.62)	0.46
C14-V1 (0.000-3.248)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0.13
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.16
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.10
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.26
	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.61&6.62)	0.13
C15-V1 (3.248-3.700)	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0.13
	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.9)	0.13

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Label	Toetsing	Combinatie	Artikel	Unity Check
C16-V1 (0.000-5.000)	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.13
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.00
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.17
	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.66
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.70
C17-V1 (0.000-3.700)	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.14
	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.06
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.07
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.04
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.12
C18-V1 (0.000-3.500)	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.12)	0.62
	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.14
	Stabiliteit	Fu.C.1	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.00
	Buiging & Druk	Fu.C.1	NEN-EN1993-1-1(6.61&6.62)	0.15
C4-V1 (0.000-6.600)	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.12)	0.38
	Doorsnede	Fu.C.3	NEN-EN1993-1-1(6.12)	0.63
	Stabiliteit	Fu.C.3	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.71
	Buiging & Druk	Fu.C.3	NEN-EN1993-1-1(6.61&6.62)	0.71
C6-V1 (0.000-3.500)	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.45
	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.11
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.02
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.00
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.13
C7-V1 (0.000-5.000)	Doorbuigingstoetsing	Ka.C.2	NEN-EN1993-1-1(6.12)	0.38
	Doorsnede	Fu.C.2	NEN-EN1993-1-1(6.12)	0.11
	Stabiliteit	Fu.C.2	NEN-EN1993-1-1(6.46)	0.01
	Kiptoetsing	Fu.C.2	NEN-EN1993-1-1(6.54)	0.12
	Buiging & Druk	Fu.C.2	NEN-EN1993-1-1(6.61&6.62)	0.13
C9-V1 (0.000-3.300)	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.03
	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.86
	Kiptoetsing	Fu.C.3	NEN-EN1993-1-1(6.54)	0.00
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.18

UC'S PER COMBINATIES

C1-V1 (0.000-8.200)

Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1 0.27	Fu.C.1 0.12	Fu.C.1 0.31	Fu.C.1 0.42	Ka.C.1 0.42	
Fu.C.2 0.26	Fu.C.2 0.12	Fu.C.2 0.30	Fu.C.2 0.41	Ka.C.2 0.53	
Fu.C.3 0.29	Fu.C.3 0.14	Fu.C.3 0.34	Fu.C.3 0.46	Ka.C.3 0.41	

C4-V1 (0.000-6.600)

Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1 0.57	Fu.C.1 0.01	Fu.C.1 0.63	Fu.C.1 0.64	Fr.C.1 0.02	
Fu.C.2 0.56	Fu.C.2 0.01	Fu.C.2 0.62	Fu.C.2 0.63	Fr.C.2 0.01	
Fu.C.3 0.63	Fu.C.3 0.01	Fu.C.3 0.71	Fu.C.3 0.71	Qu.C.1 0.45	

C6-V1 (0.000-3.500)

Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1 0.09	Fu.C.1 0.01	Fu.C.1 0.00	Fu.C.1 0.11	Ka.C.1 0.36	
Fu.C.2 0.11	Fu.C.2 0.02	Fu.C.2 0.00	Fu.C.2 0.13	Ka.C.2 0.38	
Fu.C.3 0.10	Fu.C.3 0.01	Fu.C.3 0.00	Fu.C.3 0.11	Ka.C.3 0.35	

C7-V1 (0.000-5.000)

Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1 0.09	Fu.C.1 0.01	Fu.C.1 0.10	Fu.C.1 0.11	Fr.C.1 0.01	
Fu.C.2 0.11	Fu.C.2 0.01	Fu.C.2 0.12	Fu.C.2 0.13	Fr.C.2 0.00	
Fu.C.3 0.10	Fu.C.3 0.00	Fu.C.3 0.10	Fu.C.3 0.11	Qu.C.1 0.03	

C9-V1 (0.000-3.300)

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Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1	0.86	Fu.C.1	0.00	Fr.C.1	0.05
Fu.C.2	0.68	Fu.C.2	0.00	Fr.C.2	0.03
Fu.C.3	0.75	Fu.C.3	0.00	Qu.C.1	0.18

C10-V1 (0.000-5.000)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid	
Fu.C.1	0.70	Fu.C.2	0.00	Fu.C.1	0.00	Fu.C.2	0.57	Fr.C.1	0.02		
Fu.C.2	0.54	Fu.C.3	0.00	Fu.C.2	0.00	Fu.C.3	0.63	Fr.C.2	0.01		
Fu.C.3	0.60			Fu.C.3	0.00			Qu.C.1	0.07		

C11-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.09	Fu.C.1	0.13	Fu.C.1	0.02	Fu.C.1	0.15	Ka.C.1	0.32	
Fu.C.2	0.08	Fu.C.2	0.11	Fu.C.2	0.04	Fu.C.2	0.14	Ka.C.2	0.46	
Fu.C.3	0.08	Fu.C.3	0.11	Fu.C.3	0.04	Fu.C.3	0.15	Ka.C.3	0.32	

C13-V1 (0.000-4.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.29	Fu.C.1	0.41	Fu.C.1	0.13	Fu.C.1	0.53	Ka.C.1	0.32	
Fu.C.2	0.25	Fu.C.2	0.35	Fu.C.2	0.11	Fu.C.2	0.46	Ka.C.2	0.46	
Fu.C.3	0.27	Fu.C.3	0.38	Fu.C.3	0.13	Fu.C.3	0.50	Ka.C.3	0.32	

C14-V1 (0.000-3.248)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing	Brandwerendheid
Fu.C.1	0.13	Fu.C.1	0.16	Fu.C.1	0.10	Fu.C.1	0.26		
Fu.C.2	0.12	Fu.C.2	0.15	Fu.C.2	0.00	Fu.C.2	0.23		
Fu.C.3	0.13	Fu.C.3	0.16	Fu.C.3	0.00	Fu.C.3	0.25		

C15-V1 (3.248-3.700)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing	Brandwerendheid
Fu.C.1	0.13	Fu.C.1	0.13	Fu.C.1	0.00	Fu.C.1	0.17		
Fu.C.2	0.12	Fu.C.2	0.12	Fu.C.2	0.00	Fu.C.2	0.13		
Fu.C.3	0.13	Fu.C.3	0.13	Fu.C.3	0.00	Fu.C.3	0.14		

C16-V1 (0.000-5.000)

Doorsnede	Stabiliteit	Kip	Buiging & Druk	Doorbuigingstoetsing	Brandwerendheid
Fu.C.1	0.66	Fu.C.1	0.70	Fr.C.1	0.05
Fu.C.2	0.57	Fu.C.2	0.60	Fr.C.2	0.03
Fu.C.3	0.63	Fu.C.3	0.67	Qu.C.1	0.14

C17-V1 (0.000-3.700)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid	
Fu.C.1	0.06	Fu.C.1	0.07	Fu.C.1	0.00	Fu.C.1	0.12	Ka.C.1	0.53		
Fu.C.2	0.05	Fu.C.2	0.06	Fu.C.2	0.03	Fu.C.2	0.09	Ka.C.2	0.62		
Fu.C.3	0.05	Fu.C.3	0.06	Fu.C.3	0.04	Fu.C.3	0.10	Ka.C.3	0.53		

C18-V1 (0.000-3.500)

Doorsnede		Stabiliteit		Kip		Buiging & Druk		Doorbuigingstoetsing		Brandwerendheid
Fu.C.1	0.14	Fu.C.1	0.01	Fu.C.1	0.00	Fu.C.1	0.15	Ka.C.1	0.36	
Fu.C.2	0.10	Fu.C.2	0.01	Fu.C.2	0.00	Fu.C.2	0.12	Ka.C.2	0.38	
Fu.C.3	0.10	Fu.C.3	0.01	Fu.C.3	0.00	Fu.C.3	0.12	Ka.C.3	0.36	

GEWICHT STAALCONSTRUCTIE

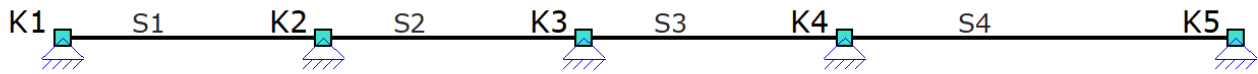
Staaf	Profiel	Lengte	Massa
C1-V1 (0.000-8.200)	HE260A	8.200	558.86
C4-V1 (0.000-6.600)	HE260A	6.600	449.81
C6-V1 (0.000-3.500)	HE260A	3.500	238.54
C7-V1 (0.000-5.000)	HE260A	5.000	340.77
C11-V1 (0.000-4.500)	HE260A	4.500	306.69
C13-V1 (0.000-4.500)	HE260A	4.500	306.69
C14-V1 (0.000-3.248)	HE260A	3.248	221.35

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Staaf	Profiel	Lengte	Massa
C15-V1 (3.248-3.700)	HE260A	0.452	30.81
C16-V1 (0.000-5.000)	HE260A	5.000	340.77
C17-V1 (0.000-3.700)	HE260A	3.700	252.17
C18-V1 (0.000-3.500)	HE260A	3.500	238.54
Subtotaal	HE260A	48.200	3284.99
C9-V1 (0.000-3.300)	HE260B	3.300	306.83
C10-V1 (0.000-5.000)	HE260B	5.000	464.89
Subtotaal	HE260B	8.300	771.72
Totaal		56.500	4056.71
		m	kg

Projectomschrijving		Projectnummer	
Onderdeel		Constructeur	
Opdrachtgever		Eenheden	m, mm, kN, kNm
Bestand	C:\Users\awnis\Documents\Dakliggers Heinnenoord , raatligger midden.mxf		

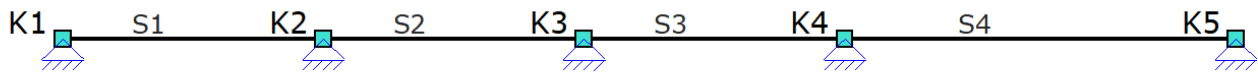
Constructiegegevens



CONSTRUCTIEGEGEVENS

Projecttype	Knopen	Staven	Opleggingen	Profielen	Belastingsgevallen	Belastingscombinaties
2D-Raamwerk	5	4	5	3	2	9

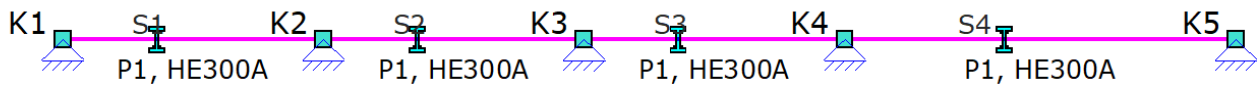
Constructie



STAVEN

Staaf	Knoop-B	Knoop-E	X-B	X-E	Z-B	Z-E	Lengte	Profiel	Positie
S1	K1	K2	0.000	10.000	0.000	0.000	10.000	P1	0.000 - 10.000 (L)
S2	K2	K3	10.000	20.000	0.000	0.000	10.000	P1	0.000 - 10.000 (L)
S3	K3	K4	20.000	30.000	0.000	0.000	10.000	P1	0.000 - 10.000 (L)
S4	K4	K5	30.000	45.000	0.000	0.000	15.000	P1	0.000 - 15.000 (L)
			m	m	m	m	m		m

Profielen



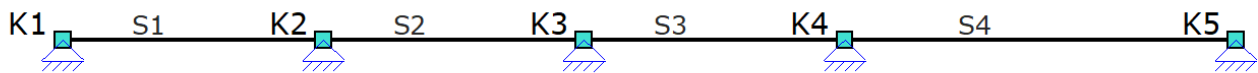
PROFIELEN

Profiel	Profielnaam	Oppervlakte	Iy	Materiaal	Hoek
P1	HE300A	11253	1.8263e+08	S235	0
		mm ²	mm ⁴		°

MATERIALEN

Materiaalnaam	Poison	Dichtheid	E-Modulus	Uitzettingcoeff
S235	0.30	78.50	2.1000e+05	12.0000e-06
		kN/m ³	N/mm ²	C°m

Randvoorwaarden



OPLEGGINGEN

Oplegging	Object	Positie	X	Z	Yr	Hoek	Yr
O1	K1	K1	Vast	Vast	Vrij	0	
O2	K2	K2	Vast	Vast	Vrij	0	
			m	kN/m	kN/m	kNm/rad	°

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Oplegging	Object	Positie	X	Z	Yr	Hoek	Yr
O3	K3	K3	Vast	Vast	Vrij	0	
O4	K4	K4	Vast	Vast	Vrij	0	
O5	K5	K5	Vast	Vast	Vrij	0	
			m	kN/m	kN/m	kNm/rad	°

LASTENGEGENERATOR OPTIES

Gebouwtype: Eengezinswoningen met 1, 2 of 3 bouwlagen

Referentieperiode (UGT): 50

Referentieperiode (GGT): 50

Betrouwbaarheidsklasse: 1

Combinatieregels:

NEN-EN 1990 NB.4-A1.2(B) (6.10a+6.10b)

NEN-EN 1990 NB.4-A1.2(B) (6.10a+6.10b)

NEN-EN 1990 (Brand) (6.11 a/b) N.v.t.

BELASTINGSGEVALLEN

Type	Beginwaarde	Eindwaarde	Beginafstand	Eindafstand	Richting	Staaf of knoop	Omschrijving
B.G.1: Permanent							
q	3.500	3.500	0.000	L	Z'	S1-S4	
Som lasten	Z: 157.500 Yr: -0.000						
B.G.2: Sneeuwbelasting							
q	2.800	2.800	0.000	L	Z'	S1-S4	
Som lasten	Z: 126.000 Yr: 0.000						
			m	m			

BELASTINGSCOMBINATIES

Fundamenteel

B.G.	Omschrijving	Fu.C.1	Fu.C.2
B.G.1	Permanent	1.08	1.22
B.G.2	Sneeuwbelasting	1.35	

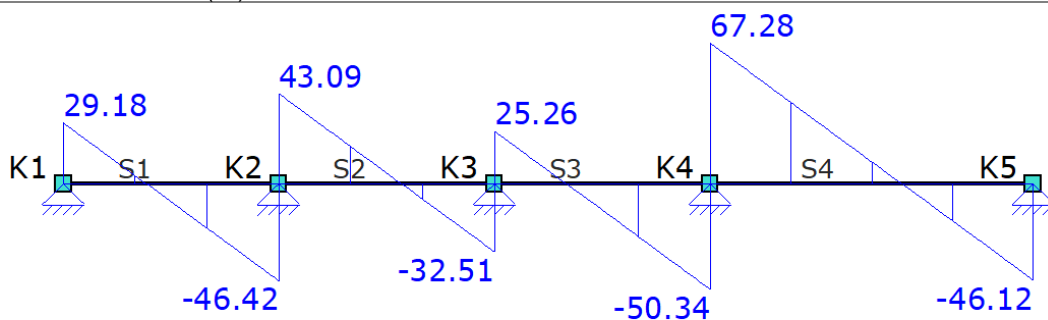
Karakteristiek

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Sneeuwbelasting			1.00

Quasi-permanent

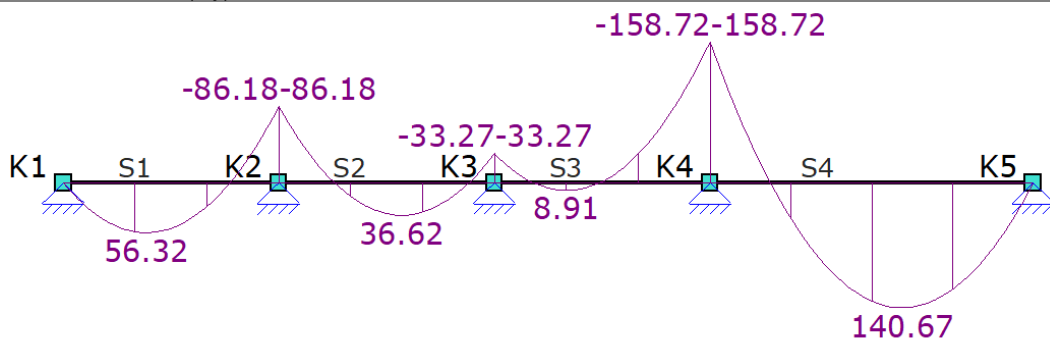
B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Sneeuwbelasting	

Fu.C. Omhullende Dwarskracht (Vz)

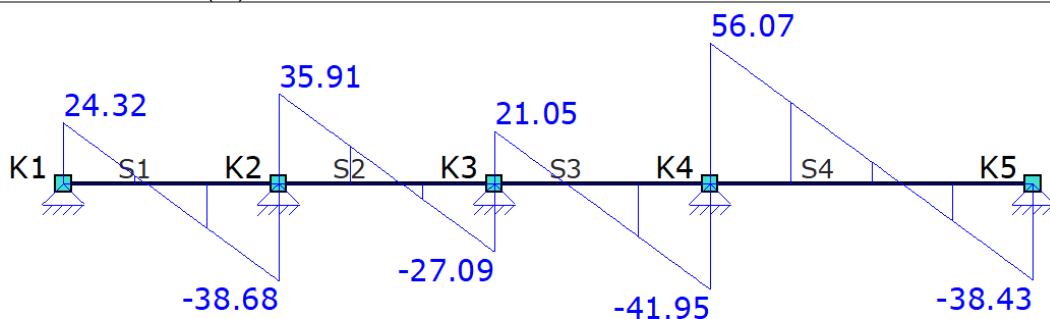


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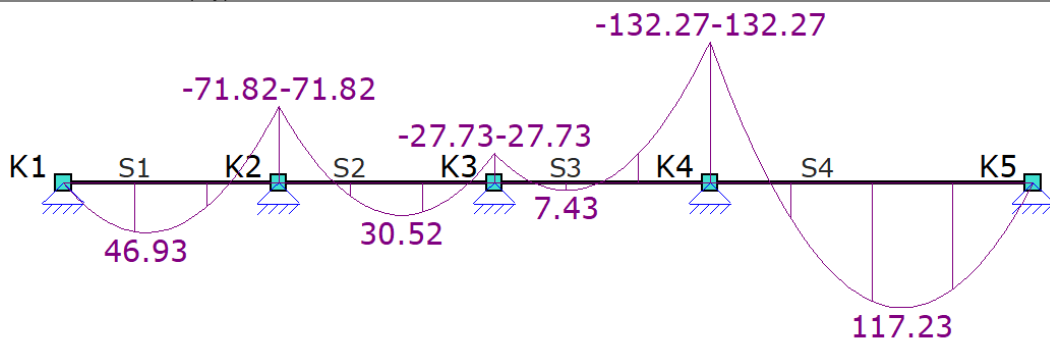
Fu.C. Omhullende Momenten (My)



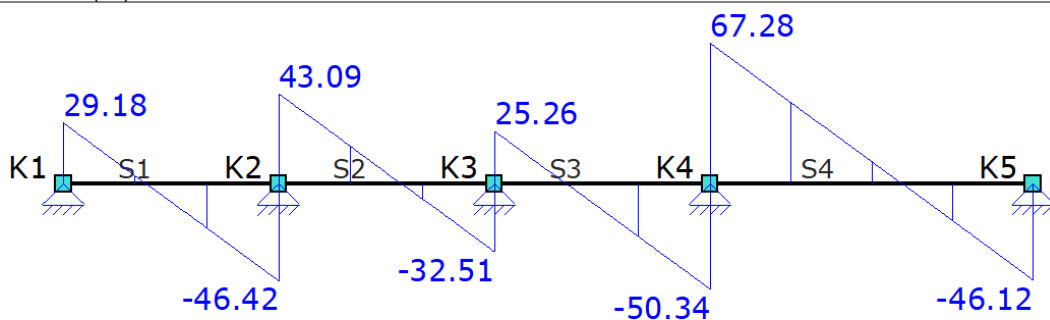
Ka.C. Omhullende Dwarskracht (Vz)



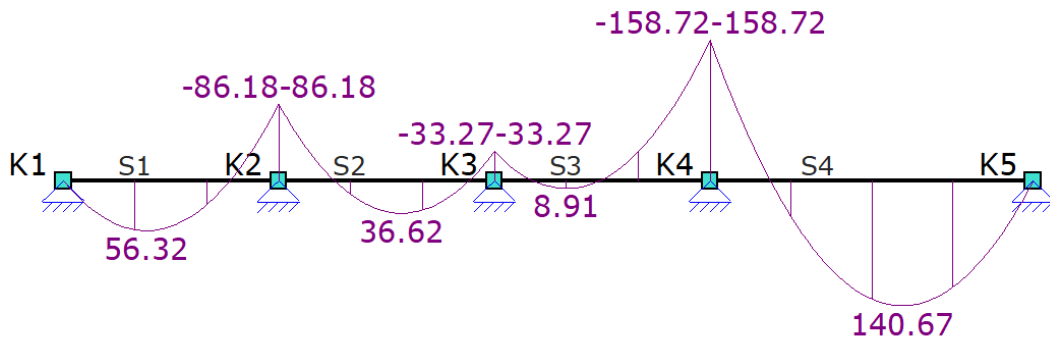
Ka.C. Omhullende Momenten (My)



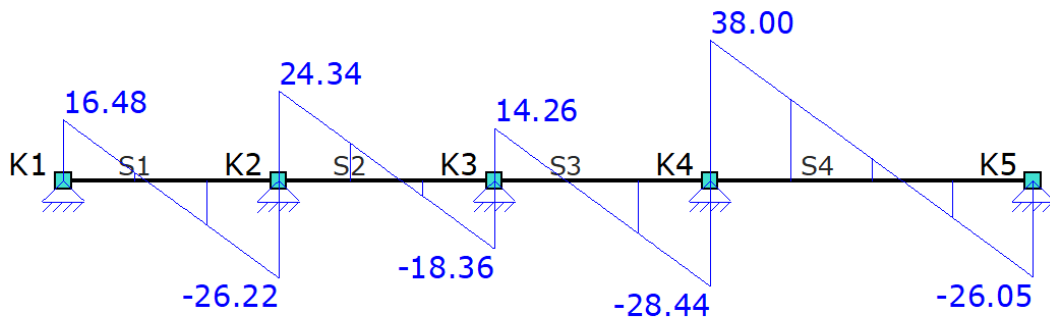
Fu.C.1 Dwarskracht (Vz)



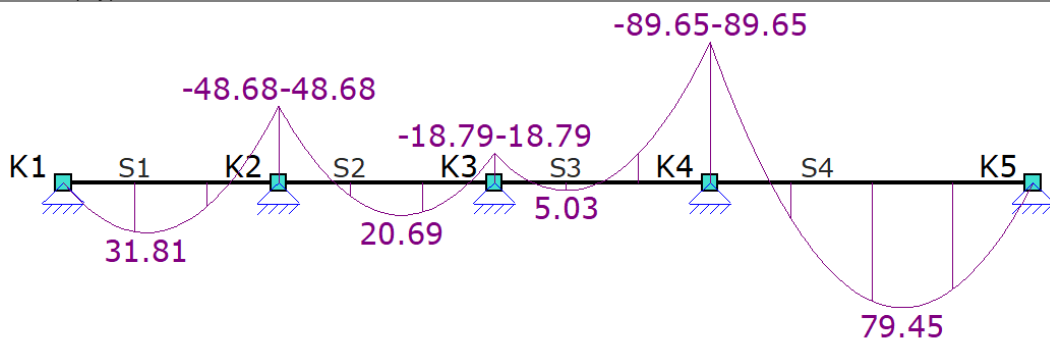
Fu.C.1 Momenten (My)



Fu.C.2 Dwarskracht (Vz)



Fu.C.2 Momenten (My)



INTERNE KRACHTEN & VERPLAATSINGEN (FUNDAMENTEEL)

B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.1	S1	0.000	0.0	0.0	0.00	29.18	0.00
		1.000	4.3	4.3	0.00	21.62	25.40
		2.000	8.1	8.1	0.00	14.06	43.24
		3.000	10.6	10.6	0.00	6.50	53.53
		4.000	11.9	11.9	0.00	-1.06	56.25
		5.000	11.6	11.6	0.00	-8.62	51.41
		6.000	10.1	10.1	0.00	-16.18	39.01
		7.000	7.5	7.5	0.00	-23.74	19.05
		8.000	4.5	4.5	0.00	-31.30	-8.47
		9.000	1.7	1.7	0.00	-38.86	-43.54
	S2	L(10.000)	-0.0	-0.0	0.00	-46.42	-86.18
		0.000	0.0	0.0	0.00	43.09	-86.18
		1.000	0.2	0.2	0.00	35.53	-46.87
		2.000	1.7	1.7	0.00	27.97	-15.12
		m	mm	mm	kN	kN	kNm

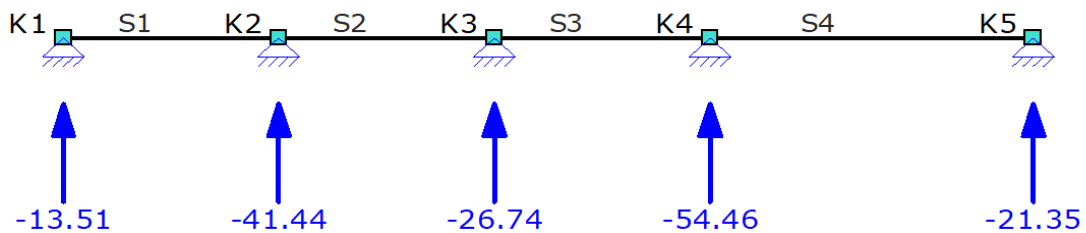
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B.C.	Staaf	Positie	Uz	Uz'	Nx	Vz	My
Fu.C.2	S3	3.000	3.6	3.6	0.00	20.41	9.07
		4.000	5.2	5.2	0.00	12.85	25.70
		5.000	6.2	6.2	0.00	5.29	34.77
		6.000	6.3	6.3	0.00	-2.27	36.28
		7.000	5.5	5.5	0.00	-9.83	30.23
		8.000	3.9	3.9	0.00	-17.39	16.62
		9.000	1.9	1.9	0.00	-24.95	-4.55
		L(10.000)	-0.0	-0.0	0.00	-32.51	-33.27
		0.000	0.0	0.0	0.00	25.26	-33.27
		1.000	-1.2	-1.2	0.00	17.70	-11.80
		2.000	-2.2	-2.2	0.00	10.14	2.12
		3.000	-3.1	-3.1	0.00	2.58	8.47
		4.000	-4.3	-4.3	0.00	-4.98	7.27
		5.000	-5.6	-5.6	0.00	-12.54	-1.50
		6.000	-6.9	-6.9	0.00	-20.10	-17.82
		7.000	-7.7	-7.7	0.00	-27.66	-41.71
		8.000	-7.4	-7.4	0.00	-35.22	-73.15
		9.000	-5.2	-5.2	0.00	-42.78	-112.16
		L(10.000)	0.0	-0.0	0.00	-50.34	-158.72
	S4	0.000	0.0	0.0	0.00	67.28	-158.72
		1.500	14.3	14.3	0.00	55.94	-66.30
		3.000	32.5	32.5	0.00	44.60	9.10
		4.500	50.2	50.2	0.00	33.26	67.50
		6.000	64.1	64.1	0.00	21.92	108.89
		7.500	71.7	71.7	0.00	10.58	133.26
		9.000	71.6	71.6	0.00	-0.76	140.63
		10.500	63.3	63.3	0.00	-12.10	130.99
		12.000	47.4	47.4	0.00	-23.44	104.34
		13.500	25.4	25.4	0.00	-34.78	60.67
		L(15.000)	-0.0	0.0	0.00	-46.12	-0.00
		S1	0.000	0.0	0.0	0.00	16.48
	1.000		2.5	2.5	0.00	12.21	14.35
	2.000		4.5	4.5	0.00	7.94	24.42
	3.000		6.0	6.0	0.00	3.67	30.23
	4.000		6.7	6.7	0.00	-0.60	31.77
	5.000		6.6	6.6	0.00	-4.87	29.04
	6.000		5.7	5.7	0.00	-9.14	22.03
	7.000		4.2	4.2	0.00	-13.41	10.76
	8.000		2.5	2.5	0.00	-17.68	-4.78
	9.000		0.9	0.9	0.00	-21.95	-24.59
	L(10.000)		0.0	-0.0	0.00	-26.22	-48.68
	0.000		0.0	0.0	0.00	24.34	-48.68
	1.000		0.1	0.1	0.00	20.07	-26.47
	2.000		0.9	0.9	0.00	15.80	-8.54
	3.000		2.0	2.0	0.00	11.53	5.12
	4.000		2.9	2.9	0.00	7.26	14.52
	5.000		3.5	3.5	0.00	2.99	19.64
	6.000		3.6	3.6	0.00	-1.28	20.49
	7.000		3.1	3.1	0.00	-5.55	17.08
	8.000	2.2	2.2	0.00	-9.82	9.39	
	9.000	1.1	1.1	0.00	-14.09	-2.57	
	S2	L(10.000)	-0.0	0.0	0.00	-18.36	-18.79
		0.000	0.0	0.0	0.00	14.26	-18.79
		1.000	-0.7	-0.7	0.00	9.99	-6.66
		2.000	-1.2	-1.2	0.00	5.72	1.20
		3.000	-1.8	-1.8	0.00	1.45	4.78
		4.000	-2.4	-2.4	0.00	-2.82	4.10
		5.000	-3.2	-3.2	0.00	-7.09	-0.85
		6.000	-3.9	-3.9	0.00	-11.36	-10.07
		7.000	-4.3	-4.3	0.00	-15.63	-23.56
		8.000	-4.2	-4.2	0.00	-19.90	-41.32
S3							

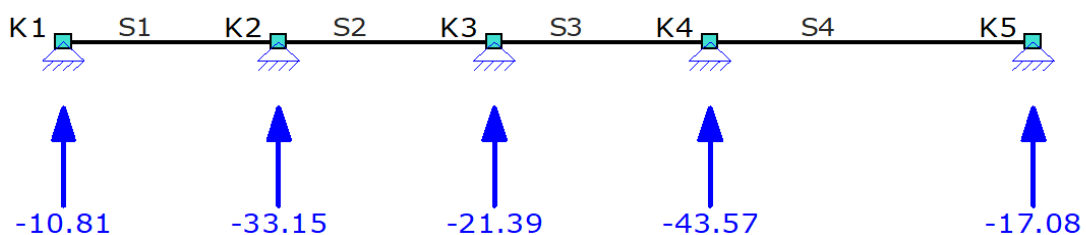
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B.C.	Staat	Positie	Uz	Uz'	Nx	Vz	My
		9.000	-2.9	-2.9	0.00	-24.17	-63.35
		L(10.000)	0.0	0.0	0.00	-28.44	-89.65
	S4	0.000	0.0	0.0	0.00	38.00	-89.65
		1.500	8.0	8.0	0.00	31.60	-37.45
		3.000	18.3	18.3	0.00	25.19	5.14
		4.500	28.4	28.4	0.00	18.79	38.13
		6.000	36.2	36.2	0.00	12.38	61.50
		7.500	40.5	40.5	0.00	5.98	75.27
		9.000	40.4	40.4	0.00	-0.43	79.43
		10.500	35.7	35.7	0.00	-6.83	73.98
		12.000	26.8	26.8	0.00	-13.24	58.93
		13.500	14.4	14.4	0.00	-19.64	34.27
		L(15.000)	-0.0	-0.0	0.00	-26.05	-0.00
		m	mm	mm	kN	kN	kNm

B.G.1 Oplegreacties



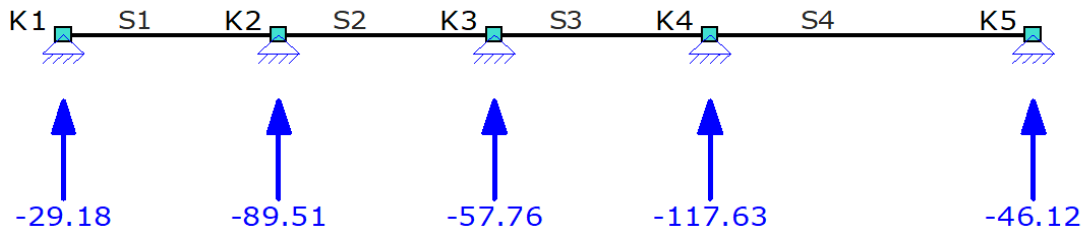
B.G.2 Oplegreacties



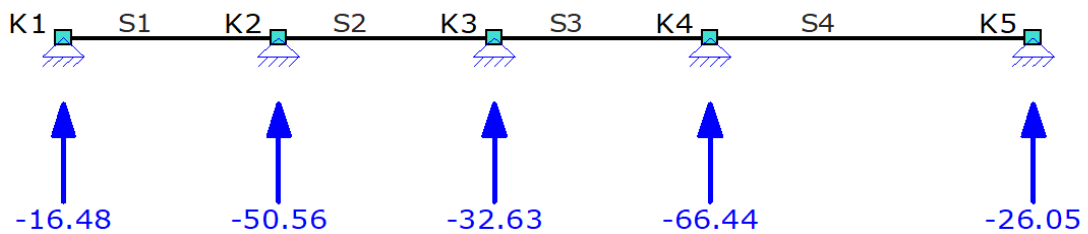
EXTREME OPLEGREACTIES (BELASTINGSGEVALLEN)

Oplegging	Afbouw	B.G.	X _{max}	Z	Yr	B.G.	X	Z _{max}	Yr	B.G.	X	Z	Yr _{max}
O1	K1					B.G.1	0.00	-13.51	0.00				
O2	K2					B.G.1	0.00	-41.44	0.00				
O3	K3					B.G.1	0.00	-26.74	0.00				
O4	K4					B.G.1	0.00	-54.46	0.00				
O5	K5					B.G.1	0.00	-21.35	0.00				
Globale extreme waarden													
O4	K4					B.G.1	0.00	-54.46	0.00				
			kN	kN	kNm		kN	kN	kNm		kN	kN	kNm

Fu.C.1 Oplegreacties



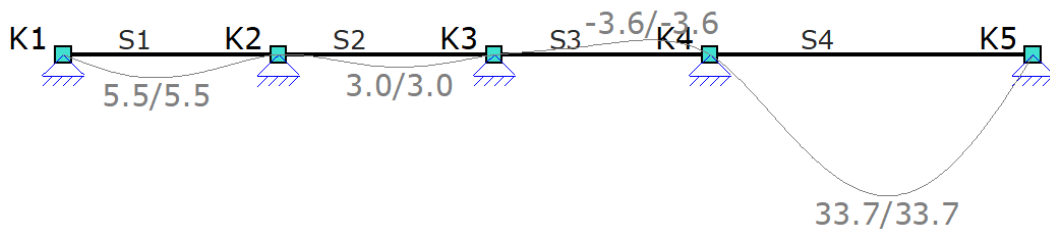
Fu.C.2 Oplegreacties



EXTREME OPLEGREACTIES (FUNDAMENTEEL)

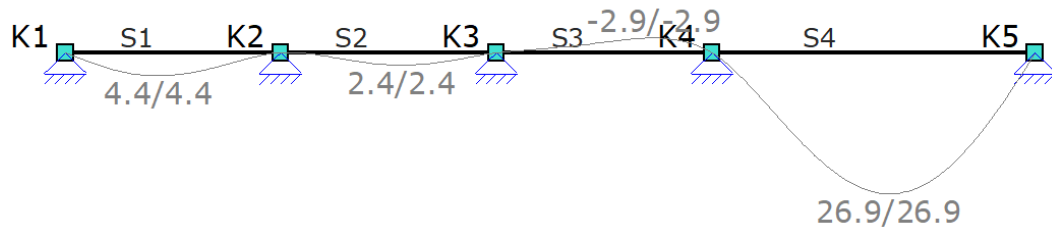
Oplegging	Afbouw	B.G.	X _{max}	Z	Y _r	B.G.	X	Z _{max}	Y _r	B.G.	X	Z	Y _r	Y _r max
O1	K1					Fu.C.1	0.00	-29.18	0.00					
O2	K2					Fu.C.1	0.00	-89.51	0.00					
O3	K3					Fu.C.1	0.00	-57.76	0.00					
O4	K4					Fu.C.1	0.00	-117.63	0.00					
O5	K5					Fu.C.1	0.00	-46.12	0.00					
Globale extreme waarden														
O4	K4					Fu.C.1	0.00	-117.63	0.00					
			kN	kN	kNm				kN	kN	kNm			

B.G.1 Doorbuigingen



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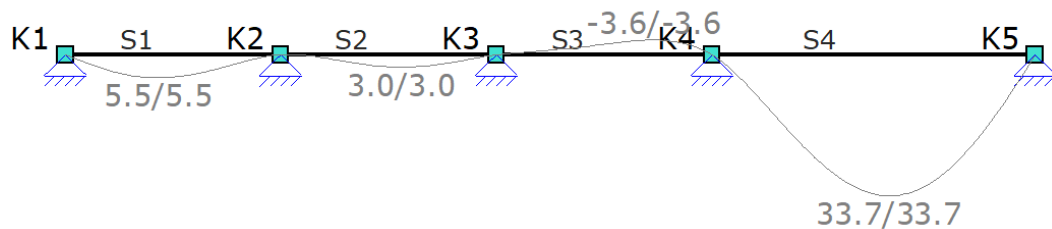
B.G.2 Doorbuigingen



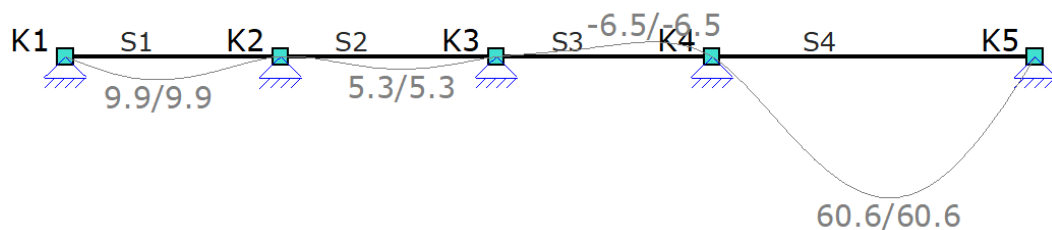
EXTREME DOORBUIGINGEN (BELASTINGSGEVALLEN)

Staat	Veld	B.C.	Knoop Begin		Z'afst	Z'	Staat	Z' glb dist	Z' glb	Knoop Eind	
			X	Z						X	Z
S1	Veld 1 (0.000 - 10.000)	B.G.1	0.0	0.0	4.332	5.5		4.332	5.5	0.0	0.0
S2	Veld 1 (0.000 - 10.000)		0.0	0.0	5.614	3.0		5.614	3.0	0.0	-0.0
S3	Veld 1 (0.000 - 10.000)		0.0	0.0	7.306	-3.6		7.306	-3.6	0.0	0.0
S4	Veld 1 (0.000 - 15.000)		0.0	0.0	8.227	33.7		8.227	33.7	0.0	-0.0
	m		mm	mm	m	mm		m	mm	mm	mm

Ka.C.1 Doorbuigingen



Ka.C.2 Doorbuigingen



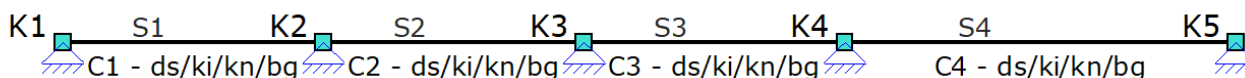
EXTREME DOORBUIGINGEN (KARAKTERISTIEK)

Staat	Veld	B.C.	Knoop Begin		Z'afst	Z'	Staat	Z' glb dist	Z' glb	Knoop Eind	
			X	Z						X	Z
S1	Veld 1 (0.000 - 10.000)	Ka.C.2	0.0	0.0	4.332	9.9		4.332	9.9	0.0	-0.0
S2	Veld 1 (0.000 - 10.000)		0.0	0.0	5.614	5.3		5.614	5.3	0.0	-0.0
S3	Veld 1 (0.000 - 10.000)		0.0	0.0	7.306	-6.5		7.306	-6.5	0.0	0.0
	m		mm	mm	m	mm		m	mm	mm	mm

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Staal	Veld	B.C.	Knoop Begin		Z'afst	Z'	Staal	Z' glb dist	Z' glb	Knoop Eind	
			X	Z						X	Z
S4	Veld 1 (0.000 - 15.000)		0.0	0.0	8.227	60.6		8.227	60.6	0.0	-0.0
	m		mm	mm	m	mm		m	mm	mm	mm

Staaldefinitie



STAALTOETS RESULTATEN

NEN-EN1993-1-1:2016/NB:2016

Uitgangspunten berekening voor staalcontrole

Alpha;cr = 1000.00 > 10;

DOORSNEDE GEGEVENS

Staal C1-V1 (0.000-10.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	W _{pl,y}	1.3833e-03 m ³	W _{el,y}	1.2596e-03 m ³
b	300.0 mm	I _y	1.8263e-04 m ⁴	W _{pl,z}	6.4117e-04 m ³	W _{el,z}	4.2064e-04 m ³
t _f	14.0 mm	I _z	6.3096e-05 m ⁴	A _{w,pl,y}	9.0258e-03 m ²	A _{w,el,y}	9.0258e-03 m ²
t _w	8.5 mm	Massa/m	88.3 kg/m	A _{w,pl,z}	3.7278e-03 m ²	A _{w,el,z}	3.7278e-03 m ²
r _i	27.0 mm			I _t	8.5173e-07 m ⁴	I _w	1.1998e-06 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staal C1-V1 (0.000-10.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1
Maatgevende positie		10.000 m				
Normaalkracht	N _{Ed}	0.00 kN	Ontwerpweerstand	(6.6)	N _{Rd}	2644.40 kN
Buigmoment	M _{y,Ed}	-86.18 kNm	Ontwerpweerstand	(6.13)	M _{y,Rd}	325.07 kNm
Buigmoment	M _{z,Ed}	0.00 kNm	Ontwerpweerstand	(6.13)	M _{z,Rd}	150.67 kNm
Dwarskracht	V _{y,Ed}	0.00 kN	Ontwerpweerstand	(6.18)	V _{y,Rd}	1224.59 kN
Dwarskracht	V _{z,Ed}	-46.42 kN	Ontwerpweerstand	(6.18)	V _{z,Rd}	505.78 kN

Buiging en schuif #6.2.8

Verhouding	9.2 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
NEN-EN1993-1-1(6.12): UC (y) = 0.27
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.09

KIP (#6.3.2)

Staal C1-V1 (0.000-10.000)

Equivalente profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

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Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	0.00 kNm
Veld einde		10.000 m	Moment (eind)	M_y	-86.18 kNm
Lengte	L	10.000 m	Moment (max)	M_y	-86.18 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	86.18 kNm
Belasting	q	7.56 kN/m	Lengte	L_{st}	10.000 m
	B^*	-0.48	Lengte	L_{st}	10.000 m
Lengte	L_{kip}	10.000 m		(NB.NB.12) S	1.914 m
Coefficient	C_1	1.905	Coefficient	C_2 (Tabel)	0.841
Coefficient	C_2 (Berekend)	0.000	Lengte	L_g	10.000 m
Coefficient	(NB.NB.11) C	6.985	Reductiefactor	(NB.NB.7) K_{red}	1.000
	(NB.NB.6) M_{cr}	666.86 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.698	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.796
Reductiefactor	(6.56) $\chi_{LT,y}$	0.849			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	275.85 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.31

DOORBUIGINGSTOETSING

Staal C1-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
Z'	4.332	5.5 Fr.C.(w1)	0.0 Qu.C.1	5.5	0.0	5.5	40.0	0.14
Z''	4.332	5.5 Fr.C.(w1)	0.0 Qu.C.1	5.5	0.0	5.5	40.0	0.14
	m	mm	mm	mm	mm	mm	mm	

(w_2+w_3)

As	Positie	w_3 B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	4.332	0.9 Fr.C.1	0.9	0.0	30.0	0.03
Z''	4.332	0.9 Fr.C.1	0.9	0.0	30.0	0.03
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staal C2-V1 (0.000-10.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	$W_{pl,y}$	1.3833e-03 m ³	$W_{el,y}$	1.2596e-03 m ³
b	300.0 mm	I_y	1.8263e-04 m ⁴	$W_{pl,z}$	6.4117e-04 m ³	$W_{el,z}$	4.2064e-04 m ³
t_f	14.0 mm	I_z	6.3096e-05 m ⁴	$A_{w,pl,y}$	9.0258e-03 m ²	$A_{w,el,y}$	9.0258e-03 m ²
t_w	8.5 mm	Massa/m	88.3 kg/m	$A_{w,pl,z}$	3.7278e-03 m ²	$A_{w,el,z}$	3.7278e-03 m ²
r_i	27.0 mm			I_t	8.5173e-07 m ⁴	I_w	1.1998e-06 m ⁶

S235

f_y (≤ 40 mm)	235.00 N/mm ²
f_y (> 40 mm)	215.00 N/mm ²

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DOORSNEDE (#6.2)

Staaf C2-V1 (0.000-10.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse			1
Maatgevende positie		0.000 m				
Normaalkracht	N_{Ed}	0.00 kN	Ontwerpweerstand	(6.6)	N_{Rd}	2644.40 kN
Buigmoment	$M_{y,Ed}$	-86.18 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	325.07 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	150.67 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	1224.59 kN
Dwarskracht	$V_{z,Ed}$	43.09 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	505.78 kN

Buiging en schuif #6.2.8

Verhouding	8.5 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.27
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.09

KIP (#6.3.2)

Staaf C2-V1 (0.000-10.000)

Equivalent profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin		0.000 m	Moment (begin)	M_y	-86.18 kNm
Veld einde		10.000 m	Moment (eind)	M_y	-33.27 kNm
Lengte	L	10.000 m	Moment (max)	M_y	-86.18 kNm
Maatgevende flens		Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	86.18 kNm
Belasting	q	7.56 kN/m	Lengte	L _{st}	10.000 m
	B*	-0.48	Lengte	L _{st}	10.000 m
	β	0.386	Lengte	L _{kip}	10.000 m
	(NB.NB.12) S	1.914 m			
Coefficient	C ₁	2.210	Coefficient	C ₂ (Tabel)	1.234
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	10.000 m
Coefficient	(NB.NB.11) C	8.102	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	773.49 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	0.648	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	0.757
Reductiefactor	(6.56) $\chi_{LT,y}$	0.871			
Reductiefactor	$\chi_{LT,z}$	1.000			
Ontwerpweerstand	(6.55) $M_{b,Rd,y}$	283.05 kNm			
Ontwerpweerstand	(6.55) $M_{b,Rd,z}$	150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.30

DOORBUIGINGSTOETSING

Staaf C2-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w_c 0 mm

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w _{max}										
As	Positie	w ₁	B.G.	w ₃	B.G.	w _{tot}	w _c	w	Limiet (L/250)	UC
Z'	5.614	3.0	Fr.C.(w1)	0.0	Qu.C.1	3.0	0.0	3.0	40.0	0.07
Z''	5.614	3.0	Fr.C.(w1)	0.0	Qu.C.1	3.0	0.0	3.0	40.0	0.07
	m	mm		mm		mm	mm	mm	mm	

(w₂+w₃)									
As	Positie	w ₃	B.G.	w	Abs. limiet	Limiet (L/333)	UC		
Z'	5.614	0.5	Fr.C.1	0.5	0.0	30.0	0.02		
Z''	5.614	0.5	Fr.C.1	0.5	0.0	30.0	0.02		
	m	mm		mm	mm	mm			

DOORSNEDE GEGEVENS

Staaf C3-V1 (0.000-10.000)

HE300A											
h	290.0	mm	A	1.1253e-02	m²	W _{pl,y}	1.3833e-03	m³	W _{el,y}	1.2596e-03	m³
b	300.0	mm	I _y	1.8263e-04	m⁴	W _{pl,z}	6.4117e-04	m³	W _{el,z}	4.2064e-04	m³
t _f	14.0	mm	I _z	6.3096e-05	m⁴	A _{w,pl,y}	9.0258e-03	m²	A _{w,el,y}	9.0258e-03	m²
t _w	8.5	mm	Massa/m	88.3	kg/m	A _{w,pl,z}	3.7278e-03	m²	A _{w,el,z}	3.7278e-03	m²
r _i	27.0	mm				I _t	8.5173e-07	m⁴	I _w	1.1998e-06	m⁶
S235											
f _y (≤40 mm)	235.00	N/mm²									
f _y (>40 mm)	215.00	N/mm²									

DOORSNEDE (#6.2)

Staaf C3-V1 (0.000-10.000)

Maatgevende combinatie		Fu.C.1	Doorsnedeklasse		1	
Maatgevende positie		10.000	m			
Normaalkracht	N _{Ed}	0.00	kN	Ontwerpweerstand	(6.6)	N _{Rd} 2644.40 kN
Buigmoment	M _{y,Ed}	-158.72	kNm	Ontwerpweerstand	(6.13)	M _{y,Rd} 325.07 kNm
Buigmoment	M _{z,Ed}	0.00	kNm	Ontwerpweerstand	(6.13)	M _{z,Rd} 150.67 kNm
Dwarskracht	V _{y,Ed}	0.00	kN	Ontwerpweerstand	(6.18)	V _{y,Rd} 1224.59 kN
Dwarskracht	V _{z,Ed}	-50.34	kN	Ontwerpweerstand	(6.18)	V _{z,Rd} 505.78 kN
Buiging en schuif #6.2.8						
Verhouding		10.0	%	Verhouding		0.0 %
Is reductie nodig?		Nee		Is reductie nodig?		Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
 NEN-EN1993-1-1(6.12): UC (y) = 0.49
 NEN-EN1993-1-1(6.12): UC (z) = 0.00
 NEN-EN1993-1-1(6.17): UC (y) = 0.00
 NEN-EN1993-1-1(6.17): UC (z) = 0.10

KIP (#6.3.2)

Staaf C3-V1 (0.000-10.000)

Equivalente profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		
Maatgevend veld			
Veld begin	0.000 m	Moment (begin)	M _y -33.27 kNm
Veld einde	10.000 m	Moment (eind)	M _y -158.72 kNm
Lengte	L 10.000 m	Moment (max)	M _y -158.72 kNm
Maatgevende flens	Onder	Moment (max)	M _z 0.00 kNm

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Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	158.72 kNm
Belasting	q	7.56 kN/m	Lengte	L _{st}	10.000 m
	B*	-0.63	Lengte	L _{st}	10.000 m
	β	0.210	Lengte	L _{kip}	10.000 m
	(NB.NB.12) S	1.914 m			
Coefficient	C ₁	2.300	Coefficient	C ₂ (Tabel)	0.855
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	10.000 m
Coefficient	(NB.NB.11) C	8.431	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	804.94 kNm			

Kipcurve #6.3.2.2

Slankheid	λ _{LT}	0.635	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α _{LT}	0.210		Φ _{LT}	0.748
Reductiefactor	(6.56) χ _{LT,y}	0.876			
Reductiefactor	χ _{LT,z}	1.000			
Ontwerpweerstand	(6.55) M _{b,Rd,y}	284.77 kNm			
Ontwerpweerstand	(6.55) M _{b,Rd,z}	150.67 kNm			

NEN-EN1993-1-1(6.54): UC = 0.56

DOORBUIGINGSTOETSING

Staaf C3-V1 (0.000-10.000)

Constructietype	Vloer	Zeeg functie	Parabolisch
Toetsing	Algemeen	Zeeg	w _c 0 mm

w_{max}

As	Positie	w ₁ B.G.	w ₃ B.G.	w _{tot}	w _c	w	Limiet (L/250)	UC
Z'	7.306	-3.6 Fr.C.(w1)	0.0 Qu.C.1	-3.6	0.0	-3.6	40.0	0.09
Z''	7.306	-3.6 Fr.C.(w1)	0.0 Qu.C.1	-3.6	0.0	-3.6	40.0	0.09
	m	mm	mm	mm	mm	mm	mm	

(w₂+w₃)

As	Positie	w ₃ B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	7.306	-0.6 Fr.C.1	-0.6	0.0	30.0	0.02
Z''	7.306	-0.6 Fr.C.1	-0.6	0.0	30.0	0.02
	m	mm	mm	mm	mm	

DOORSNEDE GEGEVENS

Staaf C4-V1 (0.000-15.000)

HE300A

h	290.0 mm	A	1.1253e-02 m ²	W _{pl,y}	1.3833e-03 m ³	W _{el,y}	1.2596e-03 m ³
b	300.0 mm	I _y	1.8263e-04 m ⁴	W _{pl,z}	6.4117e-04 m ³	W _{el,z}	4.2064e-04 m ³
t _f	14.0 mm	I _z	6.3096e-05 m ⁴	A _{w,pl,y}	9.0258e-03 m ²	A _{w,el,y}	9.0258e-03 m ²
t _w	8.5 mm	Massa/m	88.3 kg/m	A _{w,pl,z}	3.7278e-03 m ²	A _{w,el,z}	3.7278e-03 m ²
r _i	27.0 mm			I _t	8.5173e-07 m ⁴	I _w	1.1998e-06 m ⁶

S235

f _y (≤40 mm)	235.00 N/mm ²
f _y (>40 mm)	215.00 N/mm ²

DOORSNEDE (#6.2)

Staaf C4-V1 (0.000-15.000)

Maatgevende combinatie	Fu.C.1	Doorsnedeklasse	1
Maatgevende positie	0.000 m		

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Normaalkracht	N_{Ed}	0.00 kN	Ontwerpweerstand	(6.6)	N_{Rd}	2644.40 kN
Buigmoment	$M_{y,Ed}$	-158.72 kNm	Ontwerpweerstand	(6.13)	$M_{y,Rd}$	325.07 kNm
Buigmoment	$M_{z,Ed}$	0.00 kNm	Ontwerpweerstand	(6.13)	$M_{z,Rd}$	150.67 kNm
Dwarskracht	$V_{y,Ed}$	0.00 kN	Ontwerpweerstand	(6.18)	$V_{y,Rd}$	1224.59 kN
Dwarskracht	$V_{z,Ed}$	67.28 kN	Ontwerpweerstand	(6.18)	$V_{z,Rd}$	505.78 kN

Buiging en schuif #6.2.8

Verhouding	13.3 %	Verhouding	0.0 %
Is reductie nodig?	Nee	Is reductie nodig?	Nee

Uitgevoerde controles

NEN-EN1993-1-1(6.5): UC = 0.00
NEN-EN1993-1-1(6.12): UC (y) = 0.49
NEN-EN1993-1-1(6.12): UC (z) = 0.00
NEN-EN1993-1-1(6.17): UC (y) = 0.00
NEN-EN1993-1-1(6.17): UC (z) = 0.13

KIP (#6.3.2)

Staal C4-V1 (0.000-15.000)

Equivalente profiel	HE300A	Doorsnedeklasse	1
Maatgevende combinatie	Fu.C.1	Aangrijphoogte van de last vanaf het midden	0.000 m
Kipsteunen	Geen		

Maatgevend veld

Veld begin	0.000 m	Moment (begin)	M_y	-158.72 kNm
Veld einde	15.000 m	Moment (eind)	M_y	-0.00 kNm
Lengte	L	Moment (max)	M_y	-158.72 kNm
Maatgevende flens	Onder	Moment (max)	M_z	0.00 kNm

Elastisch kritiek moment voor kip (NEN-EN 1993-1-1+C2+A1:2016 NB.NB.4)

Tabel gebruikt		NB.NB.4	Moment	M	158.72 kNm
Belasting	q	7.56 kN/m	Lengte	L _{st}	15.000 m
	B*	-0.43	Lengte	L _{st}	15.000 m
	β	0.000	Lengte	L _{kip}	15.000 m
	(NB.NB.12) S	1.914 m			
Coefficient	C ₁	1.373	Coefficient	C ₂ (Tabel)	0.743
Coefficient	C ₂ (Berekend)	0.000	Lengte	L _g	15.000 m
Coefficient	(NB.NB.11) C	4.647	Reductiefactor	(NB.NB.7) K _{red}	1.000
	(NB.NB.6) M _{cr}	295.79 kNm			

Kipcurve #6.3.2.2

Slankheid	λ_{LT}	1.048	Knikcurve	Tabel 6.4	a
Imperfectiefactor	Tabel 6.3 α_{LT}	0.210		Φ_{LT}	1.139
Reductiefactor	(6.56) $\chi_{LT,y}$	0.632			
Reductiefactor	$\chi_{LT,z}$	1.000			

Ontwerpweerstand	(6.55)	$M_{b,Rd,y}$	205.38 kNm
Ontwerpweerstand	(6.55)	$M_{b,Rd,z}$	150.67 kNm

NEN-EN1993-1-1(6.54): UC = 0.77

DOORBUIGINGSTOETSING

Staal C4-V1 (0.000-15.000)

Constructietype	Vloer	Zeeg functie		Parabolisch
Toetsing	Algemeen	Zeeg	w_c	0 mm

w_{max}

As	Positie	w_1 B.G.	w_3 B.G.	w_{tot}	w_c	w	Limiet (L/250)	UC
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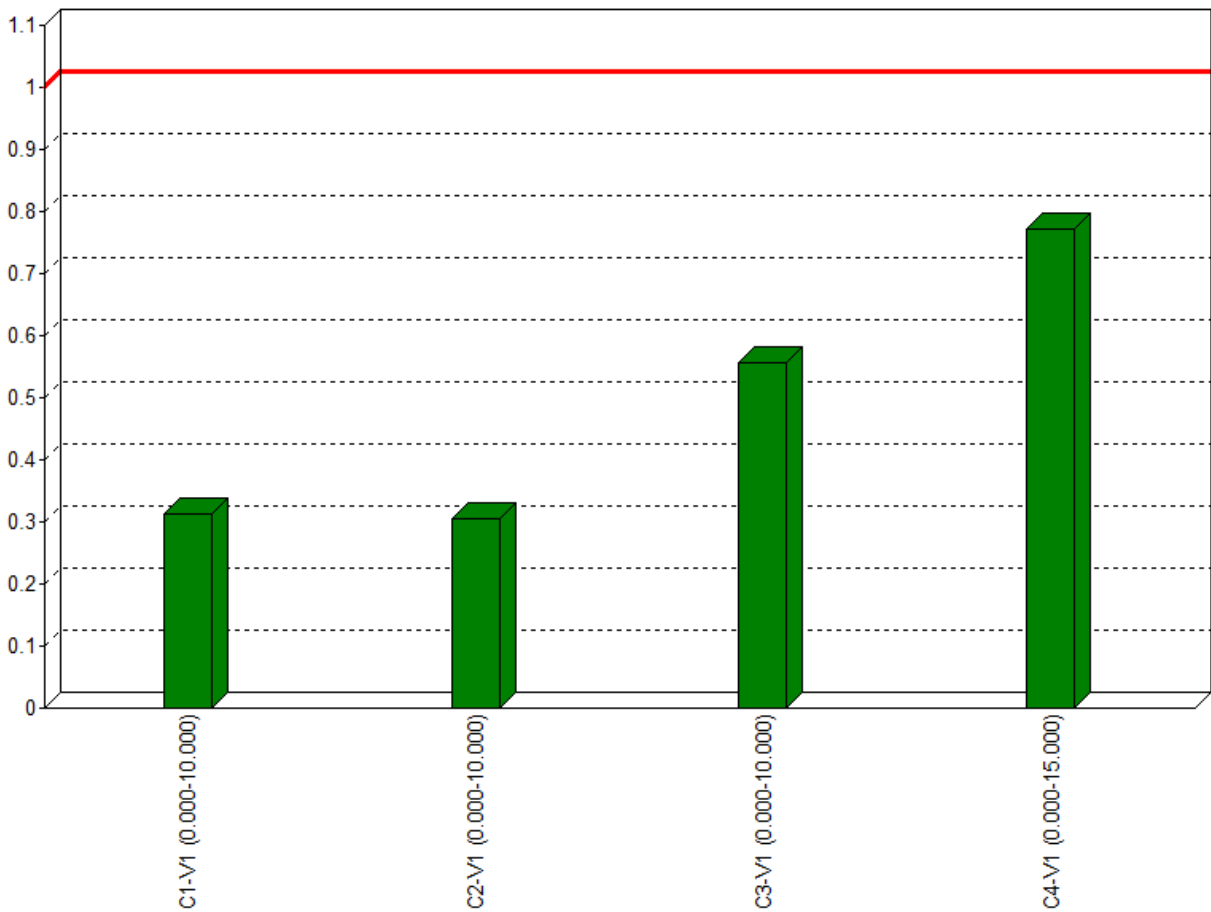
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Z'	8.227	33.7	Fr.C.(w1)	0.0	Qu.C.1	33.7	0.0	33.7	60.0	0.56
Z''	8.227	33.7	Fr.C.(w1)	0.0	Qu.C.1	33.7	0.0	33.7	60.0	0.56
	m	mm		mm		mm	mm	mm	mm	

(w₂+w₃)

As	Positie	w ₃	B.G.	w	Abs. limiet	Limiet (L/333)	UC
Z'	8.227	5.4	Fr.C.1	5.4	0.0	45.0	0.12
Z''	8.227	5.4	Fr.C.1	5.4	0.0	45.0	0.12
	m	mm		mm	mm	mm	

Afb. Staal UC Diagram



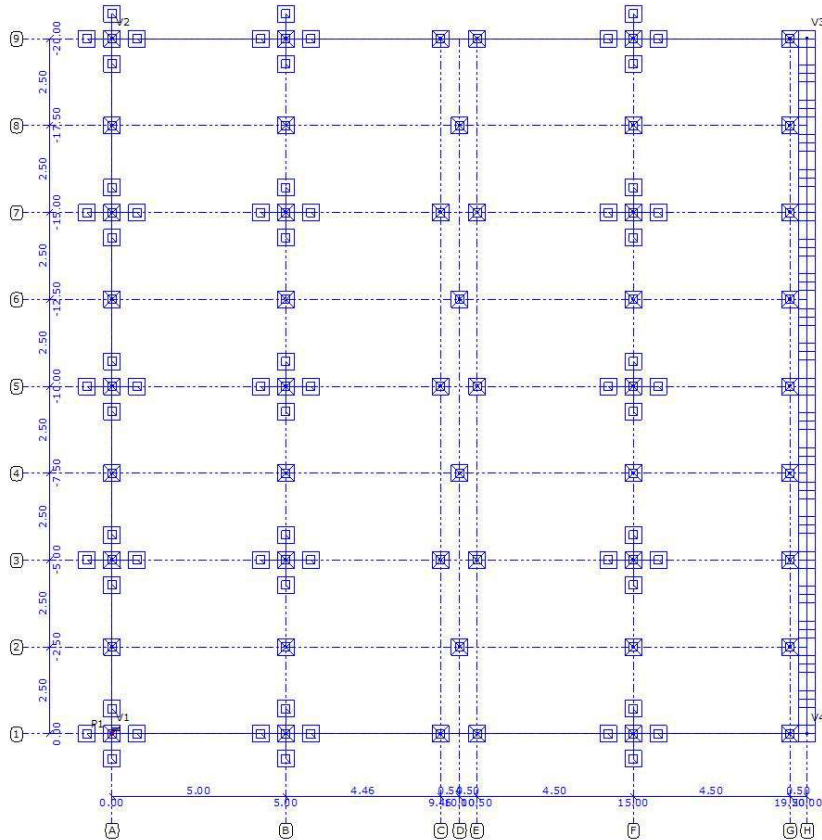
UNITY CHECK

Label	Toetsing	Combinatie	Artikel	Unity Check
C1-V1 (0.000-10.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.27
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.31
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.14
C2-V1 (0.000-10.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.27
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.30
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.07
C3-V1 (0.000-10.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.49
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.56
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.09
C4-V1 (0.000-15.000)	Doorsnede	Fu.C.1	NEN-EN1993-1-1(6.12)	0.49
	Kiptoetsing	Fu.C.1	NEN-EN1993-1-1(6.54)	0.77
	Doorbuigingstoetsing	Qu.C.1	NEN-EN1993-1-1(6.12)	0.56

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Projectnaam		Projectnummer	
Omschrijving		Constructeur	
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	C:\Users\awnis\Documents\Heinenoord fundatie midden gedeelte.mxf		

AFB. GEOMETRIE



GEOMETRIE

Gebied/Polylijn	Sparing	Materiaal	Kruip	Dikte	Elasticiteit	Poisson	Dichtheid	Uitzetting
R1	Nee	C30/37	2,10	0,250	3.3000e+07	0.20	25.00	10.0000e-06
-	-	-	-	m	kN/m2	-	kN/m3	C°m

CONSTRUCTIEVE PUNTEN

Gebieden	Punt	X	Y	Z Ref.
R1	V1	0.000	0.000	0.000 A,1
R1	V2	0.000	-20.000	0.000 A,9
R1	V3	20.000	-20.000	0.000 H,9
R1	V4	20.000	0.000	0.000 H,1
-	-	m	m	m -

OPLEGGINGEN

Gebied/Polylijn	Type	Z	Xr	Yr
R2	Punt	50000.00	50.00	50.00
R3	Punt	50000.00	50.00	50.00
R5	Punt	50000.00	50.00	50.00
R7	Punt	50000.00	50.00	50.00
R8	Punt	50000.00	50.00	50.00
R10	Punt	50000.00	50.00	50.00
R12	Punt	50000.00	50.00	50.00

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R13	Punt	50000.00	50.00	50.00
R15	Punt	50000.00	50.00	50.00
R17	Punt	50000.00	50.00	50.00
R18	Punt	50000.00	50.00	50.00
R20	Punt	50000.00	50.00	50.00
R22	Punt	50000.00	50.00	50.00
R23	Punt	50000.00	50.00	50.00
R25	Punt	50000.00	50.00	50.00
R26	Punt	50000.00	Vrij	Vrij
R27	Punt	50000.00	Vrij	Vrij
R28	Punt	50000.00	Vrij	Vrij
R29	Punt	50000.00	Vrij	Vrij
R30	Punt	50000.00	Vrij	Vrij
R31	Punt	50000.00	Vrij	Vrij
R32	Punt	50000.00	Vrij	Vrij
R33	Punt	50000.00	Vrij	Vrij
R34	Punt	50000.00	Vrij	Vrij
R35	Punt	50000.00	Vrij	Vrij
R36	Punt	50000.00	Vrij	Vrij
R37	Punt	50000.00	Vrij	Vrij
R38	Punt	50000.00	Vrij	Vrij
R39	Punt	50000.00	Vrij	Vrij
R40	Punt	50000.00	Vrij	Vrij
R41	Polylijn	Vrij	Vrij	Vast
R64	Punt	50000.00	Vrij	Vrij
R65	Punt	50000.00	Vrij	Vrij
R66	Punt	50000.00	Vrij	Vrij
R67	Punt	50000.00	Vrij	Vrij
R68	Punt	50000.00	Vrij	Vrij
R69	Punt	50000.00	Vrij	Vrij
R70	Punt	50000.00	Vrij	Vrij
R71	Punt	50000.00	Vrij	Vrij
R72	Punt	50000.00	Vrij	Vrij
R73	Punt	50000.00	Vrij	Vrij
R74	Punt	50000.00	Vrij	Vrij
R75	Punt	50000.00	Vrij	Vrij
R76	Punt	50000.00	Vrij	Vrij
R77	Punt	50000.00	Vrij	Vrij
R78	Punt	50000.00	Vrij	Vrij
R79	Punt	50000.00	Vrij	Vrij
R80	Punt	50000.00	Vrij	Vrij
R81	Punt	50000.00	Vrij	Vrij
R82	Punt	50000.00	Vrij	Vrij
R83	Punt	50000.00	Vrij	Vrij
-	-	-	-	-

ONDERSTEUNINGSPUNTEN

Gebieden	Punt	X	Y	Z
R2	V5	0.000	0.000	0.000
R3	V6	5.000	0.000	0.000
R5	V8	15.000	0.000	0.000
R7	V10	0.000	-5.000	0.000
R8	V11	5.000	-5.000	0.000
R10	V13	15.000	-5.000	0.000
R12	V15	0.000	-10.000	0.000
R13	V16	5.000	-10.000	0.000

R15	V18	15.000	-10.000	0.000
R17	V20	0.000	-15.000	0.000
R18	V21	5.000	-15.000	0.000
R20	V23	15.000	-15.000	0.000
R22	V25	0.000	-20.000	0.000
R23	V26	5.000	-20.000	0.000
R25	V28	15.000	-20.000	0.000
R26	V30	9.460	-20.000	0.000
R27	V31	10.500	-20.000	0.000
R28	V32	19.500	-20.000	0.000
R29	V33	9.460	-15.000	0.000
R30	V34	10.500	-15.000	0.000
R31	V35	19.500	-15.000	0.000
R32	V36	9.460	-10.000	0.000
R33	V37	10.500	-10.000	0.000
R34	V38	19.500	-10.000	0.000
R35	V39	9.460	-5.000	0.000
R36	V40	10.500	-5.000	0.000
R37	V41	19.500	-5.000	0.000
R38	V42	9.460	0.000	0.000
R39	V43	10.500	0.000	0.000
R40	V44	19.500	0.000	0.000
R41	V45	20.000	0.000	0.000
R41	V46	20.000	-20.000	0.000
R64	V75	0.000	-2.500	0.000
R65	V76	5.000	-2.500	0.000
R66	V77	10.000	-2.500	0.000
R67	V78	15.000	-2.500	0.000
R68	V79	19.500	-2.500	0.000
R69	V80	5.000	-7.500	0.000
R70	V81	10.000	-7.500	0.000
R71	V82	15.000	-7.500	0.000
R72	V83	19.500	-7.500	0.000
R73	V84	0.000	-7.500	0.000
R74	V85	0.000	-12.500	0.000
R75	V86	5.000	-12.500	0.000
R76	V87	10.000	-12.500	0.000
R77	V88	15.000	-12.500	0.000
R78	V89	19.500	-12.500	0.000
R79	V90	0.000	-17.500	0.000
R80	V91	5.000	-17.500	0.000
R81	V92	10.000	-17.500	0.000
R82	V93	15.000	-17.500	0.000
R83	V94	19.500	-17.500	0.000
-	-	m	m	m

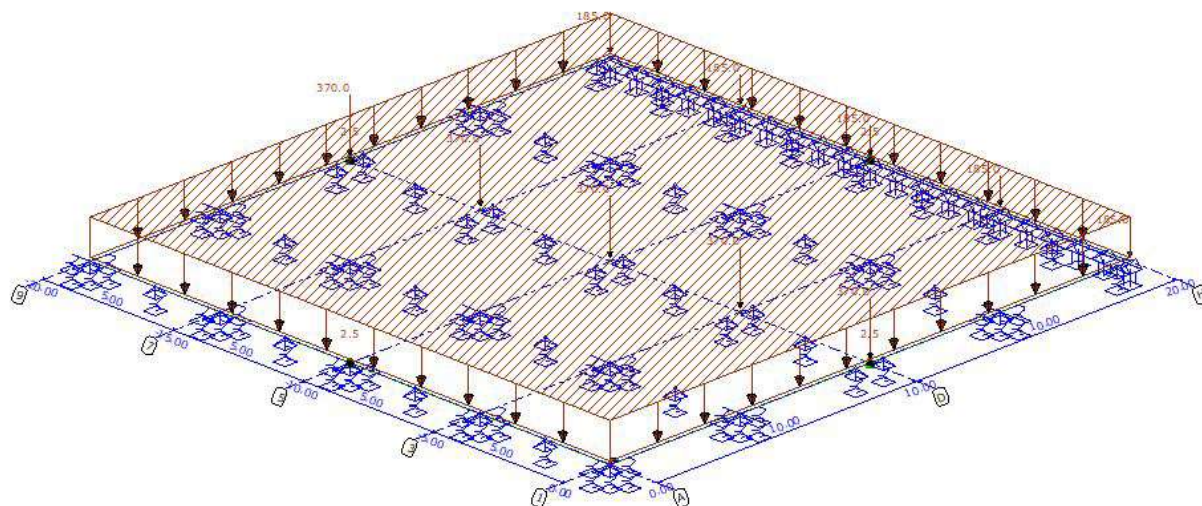
WAPENING

Oplegg.	Staven	Net	Positie	Staal	X-richting				Y-richting		
					Dekking	h-d	Omschr.	As;toe Incl. verdeelwap.	h-d	Omschr.	As;toe
W1	B524	Ja	Boven	B500B	48,00	53,00	R10-150	524 Ja	63,00	R10-150	524
W2	B524	Ja	Onder	B500B	48,00	53,00	R10-150	524 Ja	63,00	R10-150	524
-	-	-	-	-	mm	mm	-	mm2/m -	mm	-	mm2/m

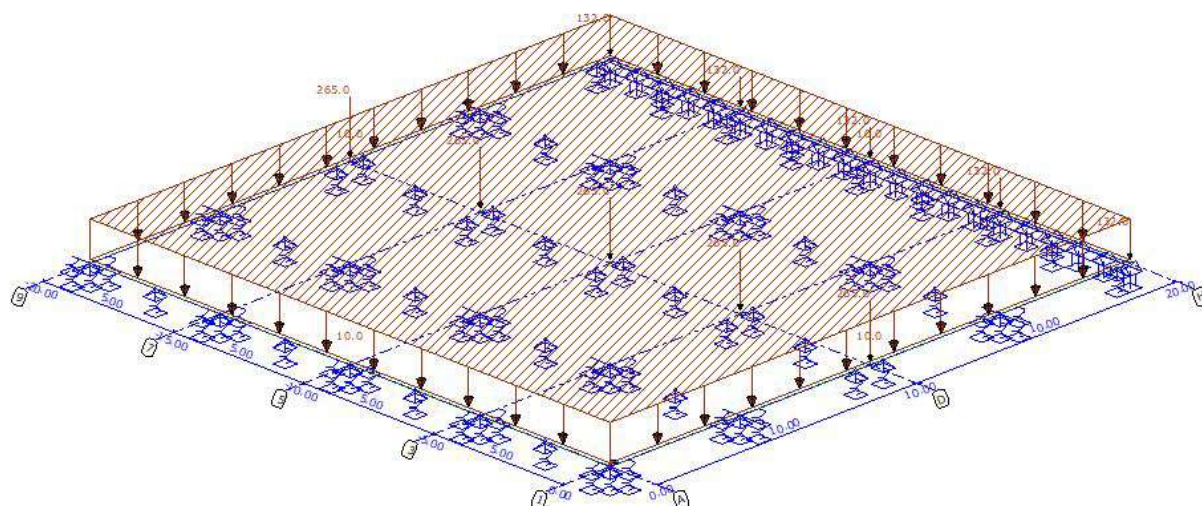
WAPENING PUNTEN

Gebieden	Punt	X	Y	Z	Ref.
R85	V99	0.000	0.000	0.000	A,1
R85	V100	0.000	-20.000	0.000	A,9
R85	V101	20.000	-20.000	0.000	H,9
R85	V102	20.000	0.000	0.000	H,1
R86	V103	0.000	0.000	0.000	A,1
R86	V104	0.000	-20.000	0.000	A,9
R86	V105	20.000	-20.000	0.000	H,9
R86	V106	20.000	0.000	0.000	H,1
-	-	m	m	m	-

AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 PERMANENT



BELASTINGSGEVALLEN

Gebied/Polylijn	Type	Type	Richting
B.G.1: Permanent			
R42	Gebied	qG	Z
R44	Punt	N	Z
R45	Punt	N	Z

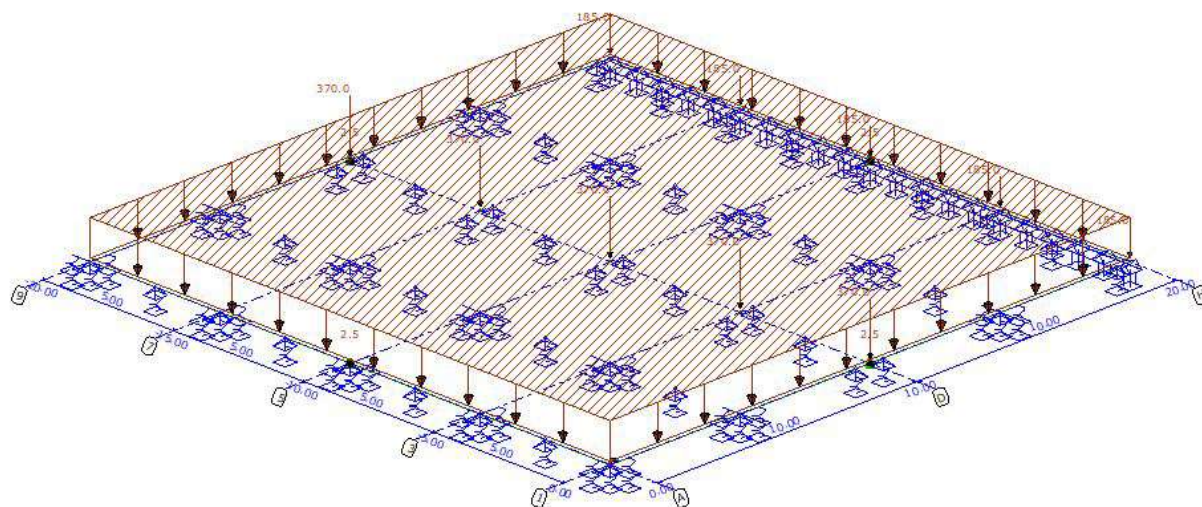
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Gebied/Polylijn	Type	Type	Richting
B.G.1: Permanent			
R46	Punt	N	Z
R47	Punt	N	Z
R48	Punt	N	Z
R49	Punt	N	Z
R50	Punt	N	Z
R51	Punt	N	Z
R52	Punt	N	Z
R53	Punt	N	Z
R84	Gebied	p	Z
B.G.2: Permanent			
R43	Gebied	p	Z
R54	Punt	N	Z
R55	Punt	N	Z
R56	Punt	N	Z
R57	Punt	N	Z
R58	Punt	N	Z
R59	Punt	N	Z
R60	Punt	N	Z
R61	Punt	N	Z
R62	Punt	N	Z
R63	Punt	N	Z
-	-	-	-

LASTEN VERTICES

Gebieden	Punt	X	Y	Z	Lastwaarde
R42	V47	0.000	0.000	0.000	1,00
R42	V48	0.000	-20.000	0.000	1,00
R42	V49	20.000	-20.000	0.000	1,00
R42	V50	20.000	0.000	0.000	1,00
R43	V51	0.000	0.000	0.000	10,00
R43	V52	0.000	-20.000	0.000	10,00
R43	V53	20.000	-20.000	0.000	10,00
R43	V54	20.000	0.000	0.000	10,00
R44	V55	10.000	-20.000	0.000	370,00
R45	V56	10.000	-15.000	0.000	370,00
R46	V57	10.000	-10.000	0.000	370,00
R47	V58	10.000	-5.000	0.000	370,00
R48	V59	10.000	0.000	0.000	370,00
R49	V60	20.000	-20.000	0.000	185,00
R50	V61	20.000	-15.000	0.000	185,00
R51	V62	20.000	-10.000	0.000	185,00
R52	V63	20.000	-5.000	0.000	185,00
R53	V64	20.000	0.000	0.000	185,00
R54	V65	20.000	-20.000	0.000	132,00
R55	V66	20.000	-15.000	0.000	132,00
R56	V67	20.000	-10.000	0.000	132,00
R57	V68	20.000	-5.000	0.000	132,00
R58	V69	20.000	0.000	0.000	132,00
R59	V70	10.000	-20.000	0.000	265,00
R60	V71	10.000	-15.000	0.000	265,00
R61	V72	10.000	-10.000	0.000	265,00
R62	V73	10.000	-5.000	0.000	265,00
R63	V74	10.000	0.000	0.000	265,00
R84	V95	0.000	0.000	0.000	2,50
R84	V96	0.000	-20.000	0.000	2,50
R84	V97	20.000	-20.000	0.000	2,50
R84	V98	20.000	0.000	0.000	2,50
-	-	m	m	m	-

B.G.1: PERMANENT

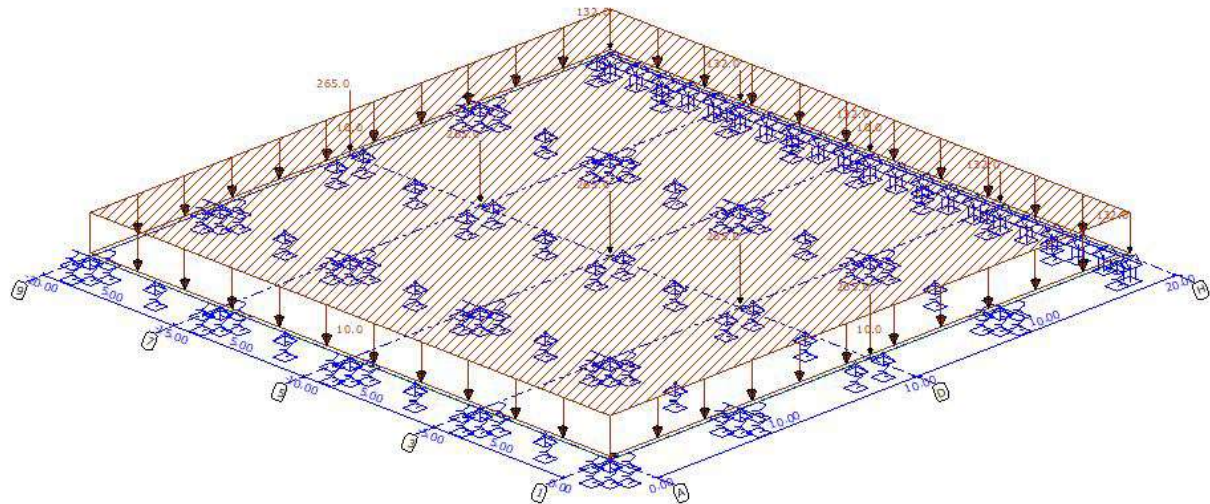


B.G.1: PERMANENT

Gebied/Polylijn	Type	Type	Beginwaarde	Eindwaarde	Richting
B.G.1: Permanent					
R42	Gebied	qG	1,00 (1.00x)	1,00 (1.00x)	Z
R44	Punt	N	370,00		Z
R45	Punt	N	370,00		Z
R46	Punt	N	370,00		Z
R47	Punt	N	370,00		Z
R48	Punt	N	370,00		Z
R49	Punt	N	185,00		Z
R50	Punt	N	185,00		Z
R51	Punt	N	185,00		Z
R52	Punt	N	185,00		Z
R53	Punt	N	185,00		Z
R84	Gebied	p	2,50		Z
-	-	-	-	-	-

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B.G.2: PERMANENT



B.G.2: PERMANENT

Gebied/Polylijn	Type	Type	Beginwaarde	Eindwaarde	Richting
B.G.2: Permanent					
R43	Gebied	p	10,00		Z
R54	Punt	N	132,00		Z
R55	Punt	N	132,00		Z
R56	Punt	N	132,00		Z
R57	Punt	N	132,00		Z
R58	Punt	N	132,00		Z
R59	Punt	N	265,00		Z
R60	Punt	N	265,00		Z
R61	Punt	N	265,00		Z
R62	Punt	N	265,00		Z
R63	Punt	N	265,00		Z
-	-	-	-	-	-

FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1
B.G.1	Permanent	1.22
B.G.2	Permanent	1.22

FUNDAMENTEEL BELASTINGSCOMBINATIES (LIJST)

Fu.C.1 = 1.22*B.G.1 + 1.22*B.G.2

B.G. OPLEGREACTIES

B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.1	O1(Punt-2)	0,000	0,000	-19,42	-19,42	0,02	0,02	0,04	0,0
B.G.1	O2(Punt-3)	5,000	0,000	-70,25	-70,25	0,04	0,04	0,01	0,0
B.G.1	O4(Punt-5)	15,000	0,000	-71,49	-71,49	0,03	0,03	0,00	0,0
B.G.1	O6(Punt-7)	0,000	-5,000	-45,27	-45,27	0,00	0,00	0,05	0,0
B.G.1	O7(Punt-8)	5,000	-5,000	-127,19	-127,19	0,00	0,00	0,01	0,0
B.G.1	O9(Punt-10)	15,000	-5,000	-120,88	-120,88	0,00	0,00	-0,01	-0,0
B.G.1	O11(Punt-12)	0,000	-10,000	-43,42	-43,42	0,00	0,00	0,05	0,0
B.G.1	O12(Punt-13)	5,000	-10,000	-127,40	-127,40	0,00	0,00	0,01	0,0
B.G.1	O14(Punt-15)	15,000	-10,000	-122,15	-122,15	0,00	0,00	-0,01	-0,0
B.G.1	O16(Punt-17)	0,000	-15,000	-45,27	-45,27	0,00	0,00	0,05	0,0
B.G.1	O17(Punt-18)	5,000	-15,000	-127,19	-127,19	0,00	0,00	0,01	0,0
B.G.1	O19(Punt-20)	15,000	-15,000	-120,88	-120,88	0,00	0,00	-0,01	-0,0
B.G.1	O21(Punt-22)	0,000	-20,000	-19,42	-19,42	-0,02	-0,02	0,04	0,0
B.G.1	O22(Punt-23)	5,000	-20,000	-70,25	-70,25	-0,04	-0,04	0,01	0,0
B.G.1	O24(Punt-25)	15,000	-20,000	-71,49	-71,49	-0,03	-0,03	0,00	0,0
B.G.1	O25(Punt-26)	9,460	-20,000	-189,71	-189,71	0,00	0,00	0,00	0,0

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B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.1	O26(Punt-27)	10,500	-20,000	-192,19	-192,19	0,00	0,00	0,00	0,0
B.G.1	O27(Punt-28)	19,500	-20,000	-176,00	-176,00	0,00	0,00	0,00	0,0
B.G.1	O28(Punt-29)	9,460	-15,000	-194,56	-194,56	0,00	0,00	0,00	0,0
B.G.1	O29(Punt-30)	10,500	-15,000	-194,50	-194,50	0,00	0,00	0,00	0,0
B.G.1	O30(Punt-31)	19,500	-15,000	-157,22	-157,22	0,00	0,00	0,00	0,0
B.G.1	O31(Punt-32)	9,460	-10,000	-195,21	-195,21	0,00	0,00	0,00	0,0
B.G.1	O32(Punt-33)	10,500	-10,000	-195,27	-195,27	0,00	0,00	0,00	0,0
B.G.1	O33(Punt-34)	19,500	-10,000	-158,76	-158,76	0,00	0,00	0,00	0,0
B.G.1	O34(Punt-35)	9,460	-5,000	-194,56	-194,56	0,00	0,00	0,00	0,0
B.G.1	O35(Punt-36)	10,500	-5,000	-194,49	-194,49	0,00	0,00	0,00	0,0
B.G.1	O36(Punt-37)	19,500	-5,000	-157,22	-157,22	0,00	0,00	0,00	0,0
B.G.1	O37(Punt-38)	9,460	0,000	-189,71	-189,71	0,00	0,00	0,00	0,0
B.G.1	O38(Punt-39)	10,500	0,000	-192,19	-192,19	0,00	0,00	0,00	0,0
B.G.1	O39(Punt-40)	19,500	0,000	-176,00	-176,00	0,00	0,00	0,00	0,0
B.G.1	O40(Polylijn-41)	20,000	0,000	0,00	0,00	0,00	0,00	31,20	254,6
		20,000	-0,245	0,00	0,00	0,00	0,00	26,03	103,6
		20,000	-0,502	0,00	0,00	0,00	0,00	12,46	47,2
		20,000	-0,772	0,00	0,00	0,00	0,00	6,73	24,2
		20,000	-1,056	0,00	0,00	0,00	0,00	3,43	11,8
		20,000	-1,354	0,00	0,00	0,00	0,00	1,02	3,3
		20,000	-1,667	0,00	0,00	0,00	0,00	-0,77	-2,6
		20,000	-1,944	0,00	0,00	0,00	0,00	-2,02	-7,2
		20,000	-2,222	0,00	0,00	0,00	0,00	-2,63	-9,4
		20,000	-2,500	0,00	0,00	0,00	0,00	-2,68	-9,6
		20,000	-2,778	0,00	0,00	0,00	0,00	-2,78	-10,0
		20,000	-3,056	0,00	0,00	0,00	0,00	-2,38	-8,5
		20,000	-3,333	0,00	0,00	0,00	0,00	-1,38	-4,9
		20,000	-3,611	0,00	0,00	0,00	0,00	-0,10	-0,3
		20,000	-3,889	0,00	0,00	0,00	0,00	1,43	5,1
		20,000	-4,167	0,00	0,00	0,00	0,00	3,48	12,5
		20,000	-4,444	0,00	0,00	0,00	0,00	6,81	24,5
		20,000	-4,722	0,00	0,00	0,00	0,00	13,79	49,6
		20,000	-5,000	0,00	0,00	0,00	0,00	28,47	102,5
		20,000	-5,278	0,00	0,00	0,00	0,00	13,81	49,7
		20,000	-5,556	0,00	0,00	0,00	0,00	6,78	24,3
		20,000	-5,833	0,00	0,00	0,00	0,00	3,39	12,2
		20,000	-6,111	0,00	0,00	0,00	0,00	1,30	4,6
		20,000	-6,389	0,00	0,00	0,00	0,00	-0,27	-0,9
		20,000	-6,667	0,00	0,00	0,00	0,00	-1,60	-5,7
		20,000	-6,944	0,00	0,00	0,00	0,00	-2,64	-9,5
		20,000	-7,222	0,00	0,00	0,00	0,00	-3,13	-11,2
		20,000	-7,500	0,00	0,00	0,00	0,00	-3,08	-11,1
		20,000	-7,778	0,00	0,00	0,00	0,00	-3,15	-11,3
		20,000	-8,056	0,00	0,00	0,00	0,00	-2,67	-9,6
		20,000	-8,333	0,00	0,00	0,00	0,00	-1,54	-5,5
		20,000	-8,611	0,00	0,00	0,00	0,00	-0,28	-1,0
		20,000	-8,889	0,00	0,00	0,00	0,00	1,22	4,4
		20,000	-9,167	0,00	0,00	0,00	0,00	3,31	11,9
		20,000	-9,444	0,00	0,00	0,00	0,00	6,65	23,9
		20,000	-9,722	0,00	0,00	0,00	0,00	13,78	49,6
		20,000	-10,000	0,00	0,00	0,00	0,00	28,23	101,6
		20,000	-10,278	0,00	0,00	0,00	0,00	13,77	49,5
		20,000	-10,556	0,00	0,00	0,00	0,00	6,65	23,9
		20,000	-10,833	0,00	0,00	0,00	0,00	3,31	11,9
		20,000	-11,111	0,00	0,00	0,00	0,00	1,23	4,4
		20,000	-11,389	0,00	0,00	0,00	0,00	-0,28	-1,0
		20,000	-11,667	0,00	0,00	0,00	0,00	-1,54	-5,5
		20,000	-11,944	0,00	0,00	0,00	0,00	-2,68	-9,6
		20,000	-12,222	0,00	0,00	0,00	0,00	-3,15	-11,3
		20,000	-12,500	0,00	0,00	0,00	0,00	-3,08	-11,1
		20,000	-12,778	0,00	0,00	0,00	0,00	-3,13	-11,2
		20,000	-13,056	0,00	0,00	0,00	0,00	-2,64	-9,5
		20,000	-13,333	0,00	0,00	0,00	0,00	-1,60	-5,7
		20,000	-13,611	0,00	0,00	0,00	0,00	-0,27	-0,9
		20,000	-13,889	0,00	0,00	0,00	0,00	1,30	4,7
		20,000	-14,167	0,00	0,00	0,00	0,00	3,39	12,2
		20,000	-14,444	0,00	0,00	0,00	0,00	6,76	24,3
		20,000	-14,722	0,00	0,00	0,00	0,00	13,80	49,6
		20,000	-15,000	0,00	0,00	0,00	0,00	28,47	102,5
		20,000	-15,278	0,00	0,00	0,00	0,00	13,78	49,6

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B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.1	O40(Polylijn-41)	20,000	-15,556	0,00	0,00	0,00	0,00	6,83	24,5
		20,000	-15,833	0,00	0,00	0,00	0,00	3,49	12,5
		20,000	-16,111	0,00	0,00	0,00	0,00	1,43	5,1
		20,000	-16,389	0,00	0,00	0,00	0,00	-0,10	-0,3
		20,000	-16,667	0,00	0,00	0,00	0,00	-1,39	-4,9
		20,000	-16,944	0,00	0,00	0,00	0,00	-2,38	-8,5
		20,000	-17,222	0,00	0,00	0,00	0,00	-2,78	-10,0
		20,000	-17,500	0,00	0,00	0,00	0,00	-2,68	-9,6
		20,000	-17,778	0,00	0,00	0,00	0,00	-2,63	-9,4
		20,000	-18,056	0,00	0,00	0,00	0,00	-2,02	-7,2
		20,000	-18,333	0,00	0,00	0,00	0,00	-0,78	-2,6
		20,000	-18,646	0,00	0,00	0,00	0,00	1,02	3,3
		20,000	-18,944	0,00	0,00	0,00	0,00	3,44	11,8
		20,000	-19,228	0,00	0,00	0,00	0,00	6,73	24,3
		20,000	-19,498	0,00	0,00	0,00	0,00	12,58	47,7
		20,000	-19,755	0,00	0,00	0,00	0,00	25,86	102,9
		20,000	-20,000	0,00	0,00	0,00	0,00	31,24	255,0
	Som Reacties O40(Polylijn-41)			0,00					
B.G.1	O41(Punt-64)	0,000	-2,500	-42,07	-42,07	0,00	0,00	0,00	0,0
B.G.1	O42(Punt-65)	5,000	-2,500	-115,99	-115,99	0,00	0,00	0,00	0,0
B.G.1	O43(Punt-66)	10,000	-2,500	-169,36	-169,36	0,00	0,00	0,00	0,0
B.G.1	O44(Punt-67)	15,000	-2,500	-110,48	-110,48	0,00	0,00	0,00	0,0
B.G.1	O45(Punt-68)	19,500	-2,500	-122,56	-122,56	0,00	0,00	0,00	0,0
B.G.1	O46(Punt-69)	5,000	-7,500	-127,79	-127,79	0,00	0,00	0,00	0,0
B.G.1	O47(Punt-70)	10,000	-7,500	-175,87	-175,87	0,00	0,00	0,00	0,0
B.G.1	O48(Punt-71)	15,000	-7,500	-121,74	-121,74	0,00	0,00	0,00	0,0
B.G.1	O49(Punt-72)	19,500	-7,500	-127,82	-127,82	0,00	0,00	0,00	0,0
B.G.1	O50(Punt-73)	0,000	-7,500	-44,04	-44,04	0,00	0,00	0,00	0,0
B.G.1	O51(Punt-74)	0,000	-12,500	-44,04	-44,04	0,00	0,00	0,00	0,0
B.G.1	O52(Punt-75)	5,000	-12,500	-127,79	-127,79	0,00	0,00	0,00	0,0
B.G.1	O53(Punt-76)	10,000	-12,500	-175,86	-175,86	0,00	0,00	0,00	0,0
B.G.1	O54(Punt-77)	15,000	-12,500	-121,74	-121,74	0,00	0,00	0,00	0,0
B.G.1	O55(Punt-78)	19,500	-12,500	-127,82	-127,82	0,00	0,00	0,00	0,0
B.G.1	O56(Punt-79)	0,000	-17,500	-42,07	-42,07	0,00	0,00	0,00	0,0
B.G.1	O57(Punt-80)	5,000	-17,500	-115,99	-115,99	0,00	0,00	0,00	0,0
B.G.1	O58(Punt-81)	10,000	-17,500	-169,36	-169,36	0,00	0,00	0,00	0,0
B.G.1	O59(Punt-82)	15,000	-17,500	-110,48	-110,48	0,00	0,00	0,00	0,0
B.G.1	O60(Punt-83)	19,500	-17,500	-122,56	-122,56	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-6.275,00					
	Som van de belastingen			6.275,00					
B.G.2	O1(Punt-2)	0,000	0,000	-23,32	-23,32	0,02	0,02	0,05	0,0
B.G.2	O2(Punt-3)	5,000	0,000	-76,25	-76,25	0,04	0,04	0,00	0,0
B.G.2	O4(Punt-5)	15,000	0,000	-72,78	-72,78	0,04	0,04	0,00	0,0
B.G.2	O6(Punt-7)	0,000	-5,000	-53,20	-53,20	0,00	0,00	0,06	0,0
B.G.2	O7(Punt-8)	5,000	-5,000	-140,31	-140,31	0,00	0,00	0,00	0,0
B.G.2	O9(Punt-10)	15,000	-5,000	-128,68	-128,68	0,00	0,00	-0,01	-0,0
B.G.2	O11(Punt-12)	0,000	-10,000	-51,10	-51,10	0,00	0,00	0,06	0,0
B.G.2	O12(Punt-13)	5,000	-10,000	-139,80	-139,80	0,00	0,00	0,00	0,0
B.G.2	O14(Punt-15)	15,000	-10,000	-128,51	-128,51	0,00	0,00	-0,01	-0,0
B.G.2	O16(Punt-17)	0,000	-15,000	-53,20	-53,20	0,00	0,00	0,06	0,0
B.G.2	O17(Punt-18)	5,000	-15,000	-140,31	-140,31	0,00	0,00	0,00	0,0
B.G.2	O19(Punt-20)	15,000	-15,000	-128,68	-128,68	0,00	0,00	-0,01	-0,0
B.G.2	O21(Punt-22)	0,000	-20,000	-23,32	-23,32	-0,02	-0,02	0,05	0,0
B.G.2	O22(Punt-23)	5,000	-20,000	-76,25	-76,25	-0,04	-0,04	0,00	0,0
B.G.2	O24(Punt-25)	15,000	-20,000	-72,78	-72,78	-0,04	-0,04	0,00	0,0
B.G.2	O25(Punt-26)	9,460	-20,000	-150,14	-150,14	0,00	0,00	0,00	0,0
B.G.2	O26(Punt-27)	10,500	-20,000	-152,38	-152,38	0,00	0,00	0,00	0,0
B.G.2	O27(Punt-28)	19,500	-20,000	-137,54	-137,54	0,00	0,00	0,00	0,0
B.G.2	O28(Punt-29)	9,460	-15,000	-174,38	-174,38	0,00	0,00	0,00	0,0
B.G.2	O29(Punt-30)	10,500	-15,000	-174,45	-174,45	0,00	0,00	0,00	0,0
B.G.2	O30(Punt-31)	19,500	-15,000	-140,13	-140,13	0,00	0,00	0,00	0,0
B.G.2	O31(Punt-32)	9,460	-10,000	-173,61	-173,61	0,00	0,00	0,00	0,0
B.G.2	O32(Punt-33)	10,500	-10,000	-173,74	-173,74	0,00	0,00	0,00	0,0
B.G.2	O33(Punt-34)	19,500	-10,000	-140,08	-140,08	0,00	0,00	0,00	0,0
B.G.2	O34(Punt-35)	9,460	-5,000	-174,38	-174,38	0,00	0,00	0,00	0,0
B.G.2	O35(Punt-36)	10,500	-5,000	-174,45	-174,45	0,00	0,00	0,00	0,0
B.G.2	O36(Punt-37)	19,500	-5,000	-140,13	-140,13	0,00	0,00	0,00	0,0
B.G.2	O37(Punt-38)	9,460	0,000	-150,14	-150,14	0,00	0,00	0,00	0,0
B.G.2	O38(Punt-39)	10,500	0,000	-152,38	-152,38	0,00	0,00	0,00	0,0
B.G.2	O39(Punt-40)	19,500	0,000	-137,54	-137,54	0,00	0,00	0,00	0,0

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B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.2	O40(Polylijn-41)	20,000	0,000	0,00	0,00	0,00	0,00	21,58	176,1
		20,000	-0,245	0,00	0,00	0,00	0,00	17,13	68,2
		20,000	-0,502	0,00	0,00	0,00	0,00	7,44	28,2
		20,000	-0,772	0,00	0,00	0,00	0,00	3,39	12,2
		20,000	-1,056	0,00	0,00	0,00	0,00	1,04	3,5
		20,000	-1,354	0,00	0,00	0,00	0,00	-0,77	-2,5
		20,000	-1,667	0,00	0,00	0,00	0,00	-2,07	-7,0
		20,000	-1,944	0,00	0,00	0,00	0,00	-2,96	-10,6
		20,000	-2,222	0,00	0,00	0,00	0,00	-3,44	-12,3
		20,000	-2,500	0,00	0,00	0,00	0,00	-3,46	-12,4
		20,000	-2,778	0,00	0,00	0,00	0,00	-3,60	-12,9
		20,000	-3,056	0,00	0,00	0,00	0,00	-3,33	-11,9
		20,000	-3,333	0,00	0,00	0,00	0,00	-2,57	-9,2
		20,000	-3,611	0,00	0,00	0,00	0,00	-1,63	-5,8
		20,000	-3,889	0,00	0,00	0,00	0,00	-0,57	-2,0
		20,000	-4,167	0,00	0,00	0,00	0,00	0,82	2,9
		20,000	-4,444	0,00	0,00	0,00	0,00	3,10	11,1
		20,000	-4,722	0,00	0,00	0,00	0,00	8,04	28,9
		20,000	-5,000	0,00	0,00	0,00	0,00	18,55	66,7
		20,000	-5,278	0,00	0,00	0,00	0,00	8,03	28,9
		20,000	-5,556	0,00	0,00	0,00	0,00	3,02	10,8
		20,000	-5,833	0,00	0,00	0,00	0,00	0,67	2,4
		20,000	-6,111	0,00	0,00	0,00	0,00	-0,76	-2,7
		20,000	-6,389	0,00	0,00	0,00	0,00	-1,89	-6,8
		20,000	-6,667	0,00	0,00	0,00	0,00	-2,89	-10,4
		20,000	-6,944	0,00	0,00	0,00	0,00	-3,70	-13,3
		20,000	-7,222	0,00	0,00	0,00	0,00	-4,07	-14,6
		20,000	-7,500	0,00	0,00	0,00	0,00	-3,99	-14,3
		20,000	-7,778	0,00	0,00	0,00	0,00	-4,09	-14,7
		20,000	-8,056	0,00	0,00	0,00	0,00	-3,72	-13,4
		20,000	-8,333	0,00	0,00	0,00	0,00	-2,84	-10,2
		20,000	-8,611	0,00	0,00	0,00	0,00	-1,89	-6,8
		20,000	-8,889	0,00	0,00	0,00	0,00	-0,82	-2,9
		20,000	-9,167	0,00	0,00	0,00	0,00	0,62	2,2
		20,000	-9,444	0,00	0,00	0,00	0,00	2,93	10,5
		20,000	-9,722	0,00	0,00	0,00	0,00	8,01	28,8
		20,000	-10,000	0,00	0,00	0,00	0,00	18,36	66,1
		20,000	-10,278	0,00	0,00	0,00	0,00	8,00	28,8
		20,000	-10,556	0,00	0,00	0,00	0,00	2,93	10,5
		20,000	-10,833	0,00	0,00	0,00	0,00	0,62	2,2
		20,000	-11,111	0,00	0,00	0,00	0,00	-0,82	-2,9
		20,000	-11,389	0,00	0,00	0,00	0,00	-1,89	-6,8
		20,000	-11,667	0,00	0,00	0,00	0,00	-2,84	-10,2
		20,000	-11,944	0,00	0,00	0,00	0,00	-3,73	-13,4
		20,000	-12,222	0,00	0,00	0,00	0,00	-4,08	-14,6
		20,000	-12,500	0,00	0,00	0,00	0,00	-3,99	-14,3
		20,000	-12,778	0,00	0,00	0,00	0,00	-4,07	-14,6
		20,000	-13,056	0,00	0,00	0,00	0,00	-3,70	-13,3
		20,000	-13,333	0,00	0,00	0,00	0,00	-2,89	-10,4
		20,000	-13,611	0,00	0,00	0,00	0,00	-1,89	-6,8
		20,000	-13,889	0,00	0,00	0,00	0,00	-0,76	-2,7
		20,000	-14,167	0,00	0,00	0,00	0,00	0,67	2,4
		20,000	-14,444	0,00	0,00	0,00	0,00	3,01	10,8
		20,000	-14,722	0,00	0,00	0,00	0,00	8,03	28,9
		20,000	-15,000	0,00	0,00	0,00	0,00	18,55	66,7
		20,000	-15,278	0,00	0,00	0,00	0,00	8,04	28,9
		20,000	-15,556	0,00	0,00	0,00	0,00	3,11	11,1
		20,000	-15,833	0,00	0,00	0,00	0,00	0,82	2,9
		20,000	-16,111	0,00	0,00	0,00	0,00	-0,57	-2,0
		20,000	-16,389	0,00	0,00	0,00	0,00	-1,63	-5,8
		20,000	-16,667	0,00	0,00	0,00	0,00	-2,57	-9,2
		20,000	-16,944	0,00	0,00	0,00	0,00	-3,33	-11,9
		20,000	-17,222	0,00	0,00	0,00	0,00	-3,60	-12,9
		20,000	-17,500	0,00	0,00	0,00	0,00	-3,46	-12,4
		20,000	-17,778	0,00	0,00	0,00	0,00	-3,44	-12,3
		20,000	-18,056	0,00	0,00	0,00	0,00	-2,96	-10,6
		20,000	-18,333	0,00	0,00	0,00	0,00	-2,08	-7,0
		20,000	-18,646	0,00	0,00	0,00	0,00	-0,77	-2,5
		20,000	-18,944	0,00	0,00	0,00	0,00	1,05	3,6
		20,000	-19,228	0,00	0,00	0,00	0,00	3,40	12,2

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B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.2	O40(Polylijn-41)	20,000	-19,498	0,00	0,00	0,00	0,00	7,53	28,5
		20,000	-19,755	0,00	0,00	0,00	0,00	17,00	67,7
		20,000	-20,000	0,00	0,00	0,00	0,00	21,61	176,3
	Som Reacties O40(Polylijn-41)			0,00					
B.G.2	O41(Punt-64)	0,000	-2,500	-49,50	-49,50	0,00	0,00	0,00	0,0
B.G.2	O42(Punt-65)	5,000	-2,500	-128,08	-128,08	0,00	0,00	0,00	0,0
B.G.2	O43(Punt-66)	10,000	-2,500	-155,48	-155,48	0,00	0,00	0,00	0,0
B.G.2	O44(Punt-67)	15,000	-2,500	-117,74	-117,74	0,00	0,00	0,00	0,0
B.G.2	O45(Punt-68)	19,500	-2,500	-113,31	-113,31	0,00	0,00	0,00	0,0
B.G.2	O46(Punt-69)	5,000	-7,500	-140,55	-140,55	0,00	0,00	0,00	0,0
B.G.2	O47(Punt-70)	10,000	-7,500	-161,90	-161,90	0,00	0,00	0,00	0,0
B.G.2	O48(Punt-71)	15,000	-7,500	-128,77	-128,77	0,00	0,00	0,00	0,0
B.G.2	O49(Punt-72)	19,500	-7,500	-118,41	-118,41	0,00	0,00	0,00	0,0
B.G.2	O50(Punt-73)	0,000	-7,500	-51,80	-51,80	0,00	0,00	0,00	0,0
B.G.2	O51(Punt-74)	0,000	-12,500	-51,80	-51,80	0,00	0,00	0,00	0,0
B.G.2	O52(Punt-75)	5,000	-12,500	-140,55	-140,55	0,00	0,00	0,00	0,0
B.G.2	O53(Punt-76)	10,000	-12,500	-161,89	-161,89	0,00	0,00	0,00	0,0
B.G.2	O54(Punt-77)	15,000	-12,500	-128,77	-128,77	0,00	0,00	0,00	0,0
B.G.2	O55(Punt-78)	19,500	-12,500	-118,41	-118,41	0,00	0,00	0,00	0,0
B.G.2	O56(Punt-79)	0,000	-17,500	-49,50	-49,50	0,00	0,00	0,00	0,0
B.G.2	O57(Punt-80)	5,000	-17,500	-128,08	-128,08	0,00	0,00	0,00	0,0
B.G.2	O58(Punt-81)	10,000	-17,500	-155,48	-155,48	0,00	0,00	0,00	0,0
B.G.2	O59(Punt-82)	15,000	-17,500	-117,74	-117,74	0,00	0,00	0,00	0,0
B.G.2	O60(Punt-83)	19,500	-17,500	-113,31	-113,31	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-5.985,00					
	Som van de belastingen			5.985,00					
-	-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/r

B.G. EXTREME OPLEGREACTIES

Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O1(Punt-2)	0,00	0,00	-23.32B.G.2	-23.32B.G.2	0.02B.G.2	0.02B.G.2	0.05B.G.2	0.05B.G.2
O2(Punt-3)	5,00	0,00	-76.25B.G.2	-76.25B.G.2	0.04B.G.2	0.04B.G.2	0.01B.G.1	0.01B.G.1
O4(Punt-5)	15,00	0,00	-72.78B.G.2	-72.78B.G.2	0.04B.G.2	0.04B.G.2	0.00B.G.1	0.00B.G.1
O6(Punt-7)	0,00	-5,00	-53.20B.G.2	-53.20B.G.2	0.00B.G.2	0.00B.G.2	0.06B.G.2	0.06B.G.2
O7(Punt-8)	5,00	-5,00	-140.31B.G.2	-140.31B.G.2	0.00B.G.1	0.00B.G.1	0.01B.G.1	0.01B.G.1
O9(Punt-10)	15,00	-5,00	-128.68B.G.2	-128.68B.G.2	0.00B.G.1	0.00B.G.1	-0.01B.G.1	-0.01B.G.1
O11(Punt-12)	0,00	-10,00	-51.10B.G.2	-51.10B.G.2	0.00B.G.2	0.00B.G.2	0.06B.G.2	0.06B.G.2
O12(Punt-13)	5,00	-10,00	-139.80B.G.2	-139.80B.G.2	0.00B.G.2	0.00B.G.2	0.01B.G.1	0.01B.G.1
O14(Punt-15)	15,00	-10,00	-128.51B.G.2	-128.51B.G.2	0.00B.G.2	0.00B.G.2	-0.01B.G.1	-0.01B.G.1
O16(Punt-17)	0,00	-15,00	-53.20B.G.2	-53.20B.G.2	0.00B.G.2	0.00B.G.2	0.06B.G.2	0.06B.G.2
O17(Punt-18)	5,00	-15,00	-140.31B.G.2	-140.31B.G.2	0.00B.G.1	0.00B.G.1	0.01B.G.1	0.01B.G.1
O19(Punt-20)	15,00	-15,00	-128.68B.G.2	-128.68B.G.2	0.00B.G.1	0.00B.G.1	-0.01B.G.1	-0.01B.G.1
O21(Punt-22)	0,00	-20,00	-23.32B.G.2	-23.32B.G.2	-0.02B.G.2	-0.02B.G.2	0.05B.G.2	0.05B.G.2
O22(Punt-23)	5,00	-20,00	-76.25B.G.2	-76.25B.G.2	-0.04B.G.2	-0.04B.G.2	0.01B.G.1	0.01B.G.1
O24(Punt-25)	15,00	-20,00	-72.78B.G.2	-72.78B.G.2	-0.04B.G.2	-0.04B.G.2	0.00B.G.1	0.00B.G.1
O25(Punt-26)	9,46	-20,00	-189.71B.G.1	-189.71B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O26(Punt-27)	10,50	-20,00	-192.19B.G.1	-192.19B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O27(Punt-28)	19,50	-20,00	-176.00B.G.1	-176.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O28(Punt-29)	9,46	-15,00	-194.56B.G.1	-194.56B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O29(Punt-30)	10,50	-15,00	-194.50B.G.1	-194.50B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O30(Punt-31)	19,50	-15,00	-157.22B.G.1	-157.22B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O31(Punt-32)	9,46	-10,00	-195.21B.G.1	-195.21B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O32(Punt-33)	10,50	-10,00	-195.27B.G.1	-195.27B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O33(Punt-34)	19,50	-10,00	-158.76B.G.1	-158.76B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O34(Punt-35)	9,46	-5,00	-194.56B.G.1	-194.56B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O35(Punt-36)	10,50	-5,00	-194.49B.G.1	-194.49B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O36(Punt-37)	19,50	-5,00	-157.22B.G.1	-157.22B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O37(Punt-38)	9,46	0,00	-189.71B.G.1	-189.71B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O38(Punt-39)	10,50	0,00	-192.19B.G.1	-192.19B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O39(Punt-40)	19,50	0,00	-176.00B.G.1	-176.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O40(Polylijn-41)	20,00	0,00	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	31.20B.G.1	254.67B.G.1
	20,00	-0,25	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	26.03B.G.1	103.65B.G.1
	20,00	-0,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	12.46B.G.1	47.25B.G.1
	20,00	-0,77	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.73B.G.1	24.29B.G.1
	20,00	-1,06	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.43B.G.1	11.81B.G.1
	20,00	-1,35	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.02B.G.1	3.34B.G.1
	20,00	-1,67	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.07B.G.2	-7.03B.G.2
	20,00	-1,94	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.96B.G.2	-10.65B.G.2
	20,00	-2,22	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.44B.G.2	-12.37B.G.2
	20,00	-2,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.46B.G.2	-12.46B.G.2
	20,00	-2,78	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.60B.G.2	-12.95B.G.2
	20,00	-3,06	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.33B.G.2	-11.98B.G.2
	20,00	-3,33	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.57B.G.2	-9.26B.G.2

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Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O40(Polylijn-41)	20,00	-3,61	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.63B.G.2	-5.88B.G.2
	20,00	-3,89	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.43B.G.1	5.16B.G.1
	20,00	-4,17	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.48B.G.1	12.54B.G.1
	20,00	-4,44	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.81B.G.1	24.51B.G.1
	20,00	-4,72	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.79B.G.1	49.63B.G.1
	20,00	-5,00	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	28.47B.G.1	102.50B.G.1
	20,00	-5,28	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.81B.G.1	49.70B.G.1
	20,00	-5,56	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.78B.G.1	24.39B.G.1
	20,00	-5,83	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.39B.G.1	12.22B.G.1
	20,00	-6,11	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.30B.G.1	4.69B.G.1
	20,00	-6,39	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.89B.G.2	-6.81B.G.2
	20,00	-6,67	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.89B.G.2	-10.41B.G.2
	20,00	-6,94	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.70B.G.2	-13.34B.G.2
	20,00	-7,22	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-4.07B.G.2	-14.65B.G.2
	20,00	-7,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.99B.G.2	-14.38B.G.2
	20,00	-7,78	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-4.09B.G.2	-14.71B.G.2
	20,00	-8,06	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.72B.G.2	-13.41B.G.2
	20,00	-8,33	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.84B.G.2	-10.23B.G.2
	20,00	-8,61	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.89B.G.2	-6.81B.G.2
	20,00	-8,89	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.22B.G.1	4.41B.G.1
	20,00	-9,17	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.31B.G.1	11.92B.G.1
	20,00	-9,44	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.65B.G.1	23.92B.G.1
	20,00	-9,72	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.78B.G.1	49.60B.G.1
	20,00	-10,00	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	28.23B.G.1	101.62B.G.1
	20,00	-10,28	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.77B.G.1	49.59B.G.1
	20,00	-10,56	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.65B.G.1	23.93B.G.1
	20,00	-10,83	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.31B.G.1	11.91B.G.1
	20,00	-11,11	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.23B.G.1	4.41B.G.1
	20,00	-11,39	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.89B.G.2	-6.81B.G.2
	20,00	-11,67	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.84B.G.2	-10.22B.G.2
	20,00	-11,94	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.73B.G.2	-13.43B.G.2
	20,00	-12,22	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-4.08B.G.2	-14.69B.G.2
	20,00	-12,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.99B.G.2	-14.38B.G.2
	20,00	-12,78	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-4.07B.G.2	-14.66B.G.2
	20,00	-13,06	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.70B.G.2	-13.33B.G.2
	20,00	-13,33	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.89B.G.2	-10.41B.G.2
	20,00	-13,61	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.89B.G.2	-6.80B.G.2
	20,00	-13,89	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.30B.G.1	4.70B.G.1
	20,00	-14,17	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.39B.G.1	12.21B.G.1
	20,00	-14,44	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.76B.G.1	24.35B.G.1
	20,00	-14,72	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.80B.G.1	49.68B.G.1
	20,00	-15,00	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	28.47B.G.1	102.50B.G.1
	20,00	-15,28	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	13.78B.G.1	49.62B.G.1
	20,00	-15,56	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.83B.G.1	24.58B.G.1
	20,00	-15,83	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.49B.G.1	12.55B.G.1
	20,00	-16,11	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.43B.G.1	5.16B.G.1
	20,00	-16,39	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-1.63B.G.2	-5.88B.G.2
	20,00	-16,67	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.57B.G.2	-9.27B.G.2
	20,00	-16,94	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.33B.G.2	-11.97B.G.2
	20,00	-17,22	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.60B.G.2	-12.95B.G.2
	20,00	-17,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.46B.G.2	-12.47B.G.2
	20,00	-17,78	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-3.44B.G.2	-12.37B.G.2
	20,00	-18,06	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.96B.G.2	-10.65B.G.2
	20,00	-18,33	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	-2.08B.G.2	-7.04B.G.2
	20,00	-18,65	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	1.02B.G.1	3.33B.G.1
	20,00	-18,94	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	3.44B.G.1	11.84B.G.1
	20,00	-19,23	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	6.73B.G.1	24.32B.G.1
	20,00	-19,50	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	12.58B.G.1	47.72B.G.1
	20,00	-19,75	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	25.86B.G.1	102.95B.G.1
	20,00	-20,00	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	31.24B.G.1	255.02B.G.1
O41(Punt-64)	0,00	-2,50	-49.50B.G.2	-49.50B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O42(Punt-65)	5,00	-2,50	-128.08B.G.2	-128.08B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O43(Punt-66)	10,00	-2,50	-169.36B.G.1	-169.36B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O44(Punt-67)	15,00	-2,50	-117.74B.G.2	-117.74B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O45(Punt-68)	19,50	-2,50	-122.56B.G.1	-122.56B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O46(Punt-69)	5,00	-7,50	-140.55B.G.2	-140.55B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O47(Punt-70)	10,00	-7,50	-175.87B.G.1	-175.87B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O48(Punt-71)	15,00	-7,50	-128.77B.G.2	-128.77B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O49(Punt-72)	19,50	-7,50	-127.82B.G.1	-127.82B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O50(Punt-73)	0,00	-7,50	-51.80B.G.2	-51.80B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O51(Punt-74)	0,00	-12,50	-51.80B.G.2	-51.80B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O52(Punt-75)	5,00	-12,50	-140.55B.G.2	-140.55B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O53(Punt-76)	10,00	-12,50	-175.86B.G.1	-175.86B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O54(Punt-77)	15,00	-12,50	-128.77B.G.2	-128.77B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O55(Punt-78)	19,50	-12,50	-127.82B.G.1	-127.82B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1
O56(Punt-79)	0,00	-17,50	-49.50B.G.2	-49.50B.G.2	0.00B.G.1	0.00B.G.1	0.00B.G.1	0.00B.G.1

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Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O57(Punt-80)	5,00	-17,50	-128.08 B.G.2	-128.08 B.G.2	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1
O58(Punt-81)	10,00	-17,50	-169.36 B.G.1	-169.36 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1
O59(Punt-82)	15,00	-17,50	-117.74 B.G.2	-117.74 B.G.2	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1
O60(Punt-83)	19,50	-17,50	-122.56 B.G.1	-122.56 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1	0.00 B.G.1
-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/m

B.G. EXTREME OPLEGREACTIES (PUNT)

Oplegging	B.G.	Zmax	Mx	My B.G.	Z	Mxmax	My B.G.	Z	Mx Mymax
O1(Punt-2)				B.G.2	-23.32	0.02	0.05 B.G.2	-23.32	0.02 0.05
O1(Punt-2)	B.G.2	-23.32	0.02	0.05					
O2(Punt-3)				B.G.2	-76.25	0.04	0.00 B.G.2	-23.32	0.02 0.05
O2(Punt-3)	B.G.2	-76.25	0.04	0.00					
O4(Punt-5)				B.G.2	-76.25	0.04	0.00 B.G.2	-23.32	0.02 0.05
O4(Punt-5)	B.G.2	-76.25	0.04	0.00			B.G.1	-71.49	0.03 0.00
O6(Punt-7)				B.G.2	-76.25	0.04	0.00 B.G.2	-53.20	0.00 0.06
O6(Punt-7)	B.G.2	-76.25	0.04	0.00 B.G.2	-53.20	0.00	0.06 B.G.2	-72.78	0.04 0.00
O7(Punt-8)				B.G.2	-76.25	0.04	0.00 B.G.2	-53.20	0.00 0.06
O7(Punt-8)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.2	-72.78	0.04 0.00
O9(Punt-10)				B.G.2	-76.25	0.04	0.00 B.G.2	-53.20	0.00 0.06
O9(Punt-10)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.1	-120.88	0.00 -0.01
O11(Punt-12)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O11(Punt-12)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.2	-128.68	0.00 -0.01
O12(Punt-13)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O12(Punt-13)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.2	-128.68	0.00 -0.01
O14(Punt-15)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O14(Punt-15)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.1	-122.15	0.00 -0.01
O16(Punt-17)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O16(Punt-17)	B.G.2	-140.31	0.00	0.00 B.G.2	-53.20	0.00	0.06 B.G.2	-128.68	0.00 -0.01
O17(Punt-18)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O17(Punt-18)	B.G.2	-140.31	0.00	0.00 B.G.1	-127.19	0.00	0.01 B.G.2	-128.68	0.00 -0.01
O19(Punt-20)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O19(Punt-20)	B.G.2	-140.31	0.00	0.00 B.G.1	-120.88	0.00	-0.01 B.G.1	-120.88	0.00 -0.01
O21(Punt-22)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O21(Punt-22)	B.G.2	-140.31	0.00	0.00 B.G.2	-23.32	-0.02	0.05 B.G.2	-128.68	0.00 -0.01
O22(Punt-23)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O22(Punt-23)	B.G.2	-140.31	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O24(Punt-25)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O24(Punt-25)	B.G.2	-140.31	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O25(Punt-26)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O25(Punt-26)	B.G.1	-189.71	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O26(Punt-27)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O26(Punt-27)	B.G.1	-192.19	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O27(Punt-28)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O27(Punt-28)	B.G.1	-176.00	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O28(Punt-29)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O28(Punt-29)	B.G.1	-194.56	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O29(Punt-30)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O29(Punt-30)	B.G.1	-194.50	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O30(Punt-31)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O30(Punt-31)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O31(Punt-32)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O31(Punt-32)	B.G.1	-195.21	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O32(Punt-33)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O32(Punt-33)	B.G.1	-195.27	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O33(Punt-34)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O33(Punt-34)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O34(Punt-35)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O34(Punt-35)	B.G.1	-194.56	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O35(Punt-36)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O35(Punt-36)	B.G.1	-194.49	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O36(Punt-37)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O36(Punt-37)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O37(Punt-38)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O37(Punt-38)	B.G.1	-189.71	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O38(Punt-39)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O38(Punt-39)	B.G.1	-192.19	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O39(Punt-40)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O39(Punt-40)	B.G.1	-176.00	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O41(Punt-64)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06
O41(Punt-64)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01
O42(Punt-65)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06

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Oplegging	B.G.	Zmax	Mx	My B.G.	Z	Mxmax	My B.G.	Z	Mx Mymax	
O42(Punt-65)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O43(Punt-66)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O43(Punt-66)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O44(Punt-67)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O44(Punt-67)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O45(Punt-68)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O45(Punt-68)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O46(Punt-69)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O46(Punt-69)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O47(Punt-70)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O47(Punt-70)	B.G.1	-175.87	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O48(Punt-71)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O48(Punt-71)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O49(Punt-72)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O49(Punt-72)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O50(Punt-73)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O50(Punt-73)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O51(Punt-74)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O51(Punt-74)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O52(Punt-75)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O52(Punt-75)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O53(Punt-76)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O53(Punt-76)	B.G.1	-175.86	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O54(Punt-77)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O54(Punt-77)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O55(Punt-78)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O55(Punt-78)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O56(Punt-79)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O56(Punt-79)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O57(Punt-80)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O57(Punt-80)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O58(Punt-81)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O58(Punt-81)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O59(Punt-82)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O59(Punt-82)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
O60(Punt-83)				B.G.2	-76.25	0.04	0.00 B.G.2	-51.10	0.00 0.06	
O60(Punt-83)	B.G.2	-174.45	0.00	0.00 B.G.2	-76.25	-0.04	0.00 B.G.2	-128.68	0.00 -0.01	
Globale extreme waarden										
O60(Punt-83)	B.G.1	-195.27	0.00	0.00						
O60(Punt-83)				B.G.2	0.04	-76.25	0.00			
O32(Punt-33)				B.G.2	-0.04	-76.25	0.00			
O60(Punt-83)							B.G.2	0.00	-51.10	0.06
O19(Punt-20)							B.G.1	0.00	-120,88	-0,01
-	-	-	kN	kNm	kNm	-	kN	kNm	kNm	kNm

FU.C. OPLEGREACTIES

B.C.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm
Fu.C.1	O1(Punt-2)	0,000	0,000	-52,14	-52,14	0,05	0,05	0,12	0,1
Fu.C.1	O2(Punt-3)	5,000	0,000	-178,73	-178,73	0,09	0,09	0,02	0,0
Fu.C.1	O4(Punt-5)	15,000	0,000	-176,01	-176,01	0,09	0,09	-0,01	-0,0
Fu.C.1	O6(Punt-7)	0,000	-5,000	-120,14	-120,14	0,00	0,00	0,13	0,1
Fu.C.1	O7(Punt-8)	5,000	-5,000	-326,35	-326,35	0,00	0,00	0,01	0,0
Fu.C.1	O9(Punt-10)	15,000	-5,000	-304,46	-304,46	0,00	0,00	-0,02	-0,0
Fu.C.1	O11(Punt-12)	0,000	-10,000	-115,32	-115,32	0,00	0,00	0,13	0,1
Fu.C.1	O12(Punt-13)	5,000	-10,000	-325,97	-325,97	0,00	0,00	0,01	0,0
Fu.C.1	O14(Punt-15)	15,000	-10,000	-305,81	-305,81	0,00	0,00	-0,02	-0,0
Fu.C.1	O16(Punt-17)	0,000	-15,000	-120,14	-120,14	0,00	0,00	0,13	0,1
Fu.C.1	O17(Punt-18)	5,000	-15,000	-326,35	-326,35	0,00	0,00	0,01	0,0
Fu.C.1	O19(Punt-20)	15,000	-15,000	-304,46	-304,46	0,00	0,00	-0,02	-0,0
Fu.C.1	O21(Punt-22)	0,000	-20,000	-52,14	-52,14	-0,05	-0,05	0,12	0,1
Fu.C.1	O22(Punt-23)	5,000	-20,000	-178,73	-178,73	-0,09	-0,09	0,02	0,0
Fu.C.1	O24(Punt-25)	15,000	-20,000	-176,01	-176,01	-0,09	-0,09	-0,01	-0,0
Fu.C.1	O25(Punt-26)	9,460	-20,000	-414,61	-414,61	0,00	0,00	0,00	0,0
Fu.C.1	O26(Punt-27)	10,500	-20,000	-420,37	-420,37	0,00	0,00	0,00	0,0
Fu.C.1	O27(Punt-28)	19,500	-20,000	-382,52	-382,52	0,00	0,00	0,00	0,0
Fu.C.1	O28(Punt-29)	9,460	-15,000	-450,10	-450,10	0,00	0,00	0,00	0,0
Fu.C.1	O29(Punt-30)	10,500	-15,000	-450,12	-450,12	0,00	0,00	0,00	0,0
Fu.C.1	O30(Punt-31)	19,500	-15,000	-362,77	-362,77	0,00	0,00	0,00	0,0
Fu.C.1	O31(Punt-32)	9,460	-10,000	-449,96	-449,96	0,00	0,00	0,00	0,0
Fu.C.1	O32(Punt-33)	10,500	-10,000	-450,19	-450,19	0,00	0,00	0,00	0,0

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B.C.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
Fu.C.1	O33(Punt-34)	19,500	-10,000	-364,59	-364,59	0,00	0,00	0,00	0,0
Fu.C.1	O34(Punt-35)	9,460	-5,000	-450,10	-450,10	0,00	0,00	0,00	0,0
Fu.C.1	O35(Punt-36)	10,500	-5,000	-450,11	-450,11	0,00	0,00	0,00	0,0
Fu.C.1	O36(Punt-37)	19,500	-5,000	-362,76	-362,76	0,00	0,00	0,00	0,0
Fu.C.1	O37(Punt-38)	9,460	0,000	-414,61	-414,61	0,00	0,00	0,00	0,0
Fu.C.1	O38(Punt-39)	10,500	0,000	-420,37	-420,37	0,00	0,00	0,00	0,0
Fu.C.1	O39(Punt-40)	19,500	0,000	-382,52	-382,52	0,00	0,00	0,00	0,0
Fu.C.1	O40(Polylijn-41)	20,000	0,000	0,00	0,00	0,00	0,00	64,39	525,5
		20,000	-0,245	0,00	0,00	0,00	0,00	52,66	209,6
		20,000	-0,502	0,00	0,00	0,00	0,00	24,28	92,0
		20,000	-0,772	0,00	0,00	0,00	0,00	12,35	44,5
		20,000	-1,056	0,00	0,00	0,00	0,00	5,46	18,7
		20,000	-1,354	0,00	0,00	0,00	0,00	0,30	0,9
		20,000	-1,667	0,00	0,00	0,00	0,00	-3,47	-11,7
		20,000	-1,944	0,00	0,00	0,00	0,00	-6,07	-21,8
		20,000	-2,222	0,00	0,00	0,00	0,00	-7,41	-26,6
		20,000	-2,500	0,00	0,00	0,00	0,00	-7,50	-26,9
		20,000	-2,778	0,00	0,00	0,00	0,00	-7,79	-28,0
		20,000	-3,056	0,00	0,00	0,00	0,00	-6,97	-25,0
		20,000	-3,333	0,00	0,00	0,00	0,00	-4,83	-17,3
		20,000	-3,611	0,00	0,00	0,00	0,00	-2,11	-7,6
		20,000	-3,889	0,00	0,00	0,00	0,00	1,06	3,8
		20,000	-4,167	0,00	0,00	0,00	0,00	5,25	18,8
		20,000	-4,444	0,00	0,00	0,00	0,00	12,08	43,5
		20,000	-4,722	0,00	0,00	0,00	0,00	26,63	95,8
		20,000	-5,000	0,00	0,00	0,00	0,00	57,37	206,5
		20,000	-5,278	0,00	0,00	0,00	0,00	26,64	95,9
		20,000	-5,556	0,00	0,00	0,00	0,00	11,95	43,0
		20,000	-5,833	0,00	0,00	0,00	0,00	4,96	17,8
		20,000	-6,111	0,00	0,00	0,00	0,00	0,66	2,3
		20,000	-6,389	0,00	0,00	0,00	0,00	-2,64	-9,5
		20,000	-6,667	0,00	0,00	0,00	0,00	-5,48	-19,7
		20,000	-6,944	0,00	0,00	0,00	0,00	-7,74	-27,8
		20,000	-7,222	0,00	0,00	0,00	0,00	-8,78	-31,6
		20,000	-7,500	0,00	0,00	0,00	0,00	-8,63	-31,0
		20,000	-7,778	0,00	0,00	0,00	0,00	-8,83	-31,7
		20,000	-8,056	0,00	0,00	0,00	0,00	-7,80	-28,0
		20,000	-8,333	0,00	0,00	0,00	0,00	-5,35	-19,2
		20,000	-8,611	0,00	0,00	0,00	0,00	-2,65	-9,5
		20,000	-8,889	0,00	0,00	0,00	0,00	0,50	1,7
		20,000	-9,167	0,00	0,00	0,00	0,00	4,80	17,2
		20,000	-9,444	0,00	0,00	0,00	0,00	11,68	42,0
		20,000	-9,722	0,00	0,00	0,00	0,00	26,58	95,6
		20,000	-10,000	0,00	0,00	0,00	0,00	56,84	204,6
		20,000	-10,278	0,00	0,00	0,00	0,00	26,57	95,6
		20,000	-10,556	0,00	0,00	0,00	0,00	11,69	42,0
		20,000	-10,833	0,00	0,00	0,00	0,00	4,79	17,2
		20,000	-11,111	0,00	0,00	0,00	0,00	0,50	1,8
		20,000	-11,389	0,00	0,00	0,00	0,00	-2,65	-9,5
		20,000	-11,667	0,00	0,00	0,00	0,00	-5,34	-19,2
		20,000	-11,944	0,00	0,00	0,00	0,00	-7,82	-28,1
		20,000	-12,222	0,00	0,00	0,00	0,00	-8,82	-31,7
		20,000	-12,500	0,00	0,00	0,00	0,00	-8,63	-31,0
		20,000	-12,778	0,00	0,00	0,00	0,00	-8,79	-31,6
		20,000	-13,056	0,00	0,00	0,00	0,00	-7,74	-27,8
		20,000	-13,333	0,00	0,00	0,00	0,00	-5,48	-19,7
		20,000	-13,611	0,00	0,00	0,00	0,00	-2,64	-9,5
		20,000	-13,889	0,00	0,00	0,00	0,00	0,66	2,3
		20,000	-14,167	0,00	0,00	0,00	0,00	4,96	17,8
		20,000	-14,444	0,00	0,00	0,00	0,00	11,93	42,9
		20,000	-14,722	0,00	0,00	0,00	0,00	26,63	95,8
		20,000	-15,000	0,00	0,00	0,00	0,00	57,37	206,5
		20,000	-15,278	0,00	0,00	0,00	0,00	26,62	95,8
		20,000	-15,556	0,00	0,00	0,00	0,00	12,12	43,6
		20,000	-15,833	0,00	0,00	0,00	0,00	5,25	18,9
		20,000	-16,111	0,00	0,00	0,00	0,00	1,06	3,8
		20,000	-16,389	0,00	0,00	0,00	0,00	-2,11	-7,6
		20,000	-16,667	0,00	0,00	0,00	0,00	-4,83	-17,3
		20,000	-16,944	0,00	0,00	0,00	0,00	-6,96	-25,0
		20,000	-17,222	0,00	0,00	0,00	0,00	-7,79	-28,0

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B.C.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
Fu.C.1	O40(Polylij-41)	20,000	-17,500	0,00	0,00	0,00	0,00	-7,50	-27,0
		20,000	-17,778	0,00	0,00	0,00	0,00	-7,40	-26,6
		20,000	-18,056	0,00	0,00	0,00	0,00	-6,07	-21,8
		20,000	-18,333	0,00	0,00	0,00	0,00	-3,49	-11,8
		20,000	-18,646	0,00	0,00	0,00	0,00	0,30	0,9
		20,000	-18,944	0,00	0,00	0,00	0,00	5,48	18,8
		20,000	-19,228	0,00	0,00	0,00	0,00	12,36	44,6
		20,000	-19,498	0,00	0,00	0,00	0,00	24,54	93,0
		20,000	-19,755	0,00	0,00	0,00	0,00	52,29	208,2
		20,000	-20,000	0,00	0,00	0,00	0,00	64,48	526,2
	Som Reacties O40(Polylij-41)			0,00					
Fu.C.1	O41(Punt-64)	0,000	-2,500	-111,72	-111,72	0,00	0,00	0,00	0,0
Fu.C.1	O42(Punt-65)	5,000	-2,500	-297,77	-297,77	0,00	0,00	0,00	0,0
Fu.C.1	O43(Punt-66)	10,000	-2,500	-396,30	-396,30	0,00	0,00	0,00	0,0
Fu.C.1	O44(Punt-67)	15,000	-2,500	-278,43	-278,43	0,00	0,00	0,00	0,0
Fu.C.1	O45(Punt-68)	19,500	-2,500	-287,76	-287,76	0,00	0,00	0,00	0,0
Fu.C.1	O46(Punt-69)	5,000	-7,500	-327,37	-327,37	0,00	0,00	0,00	0,0
Fu.C.1	O47(Punt-70)	10,000	-7,500	-412,07	-412,07	0,00	0,00	0,00	0,0
Fu.C.1	O48(Punt-71)	15,000	-7,500	-305,63	-305,63	0,00	0,00	0,00	0,0
Fu.C.1	O49(Punt-72)	19,500	-7,500	-300,40	-300,40	0,00	0,00	0,00	0,0
Fu.C.1	O50(Punt-73)	0,000	-7,500	-116,92	-116,92	0,00	0,00	0,00	0,0
Fu.C.1	O51(Punt-74)	0,000	-12,500	-116,92	-116,92	0,00	0,00	0,00	0,0
Fu.C.1	O52(Punt-75)	5,000	-12,500	-327,37	-327,37	0,00	0,00	0,00	0,0
Fu.C.1	O53(Punt-76)	10,000	-12,500	-412,06	-412,06	0,00	0,00	0,00	0,0
Fu.C.1	O54(Punt-77)	15,000	-12,500	-305,63	-305,63	0,00	0,00	0,00	0,0
Fu.C.1	O55(Punt-78)	19,500	-12,500	-300,40	-300,40	0,00	0,00	0,00	0,0
Fu.C.1	O56(Punt-79)	0,000	-17,500	-111,72	-111,72	0,00	0,00	0,00	0,0
Fu.C.1	O57(Punt-80)	5,000	-17,500	-297,77	-297,77	0,00	0,00	0,00	0,0
Fu.C.1	O58(Punt-81)	10,000	-17,500	-396,30	-396,30	0,00	0,00	0,00	0,0
Fu.C.1	O59(Punt-82)	15,000	-17,500	-278,43	-278,43	0,00	0,00	0,00	0,0
Fu.C.1	O60(Punt-83)	19,500	-17,500	-287,76	-287,76	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-14.957,20					
	Som van de belastingen			14.957,20					
-	-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/r

FU.C. EXTREME OPLEGREACTIES

Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O1(Punt-2)	0,00	0,00	-52.14 Fu.C.1	-52.14 Fu.C.1	0.05 Fu.C.1	0.05 Fu.C.1	0.12 Fu.C.1	0.12 Fu.C.1
O2(Punt-3)	5,00	0,00	-178.73 Fu.C.1	-178.73 Fu.C.1	0.09 Fu.C.1	0.09 Fu.C.1	0.02 Fu.C.1	0.02 Fu.C.1
O4(Punt-5)	15,00	0,00	-176.01 Fu.C.1	-176.01 Fu.C.1	0.09 Fu.C.1	0.09 Fu.C.1	-0.01 Fu.C.1	-0.01 Fu.C.1
O6(Punt-7)	0,00	-5,00	-120.14 Fu.C.1	-120.14 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.13 Fu.C.1	0.13 Fu.C.1
O7(Punt-8)	5,00	-5,00	-326.35 Fu.C.1	-326.35 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.01 Fu.C.1	0.01 Fu.C.1
O9(Punt-10)	15,00	-5,00	-304.46 Fu.C.1	-304.46 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-0.02 Fu.C.1	-0.02 Fu.C.1
O11(Punt-12)	0,00	-10,00	-115.32 Fu.C.1	-115.32 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.13 Fu.C.1	0.13 Fu.C.1
O12(Punt-13)	5,00	-10,00	-325.97 Fu.C.1	-325.97 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.01 Fu.C.1	0.01 Fu.C.1
O14(Punt-15)	15,00	-10,00	-305.81 Fu.C.1	-305.81 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-0.02 Fu.C.1	-0.02 Fu.C.1
O16(Punt-17)	0,00	-15,00	-120.14 Fu.C.1	-120.14 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.13 Fu.C.1	0.13 Fu.C.1
O17(Punt-18)	5,00	-15,00	-326.35 Fu.C.1	-326.35 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.01 Fu.C.1	0.01 Fu.C.1
O19(Punt-20)	15,00	-15,00	-304.46 Fu.C.1	-304.46 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-0.02 Fu.C.1	-0.02 Fu.C.1
O21(Punt-22)	0,00	-20,00	-52.14 Fu.C.1	-52.14 Fu.C.1	-0.05 Fu.C.1	-0.05 Fu.C.1	0.12 Fu.C.1	0.12 Fu.C.1
O22(Punt-23)	5,00	-20,00	-178.73 Fu.C.1	-178.73 Fu.C.1	-0.09 Fu.C.1	-0.09 Fu.C.1	0.02 Fu.C.1	0.02 Fu.C.1
O24(Punt-25)	15,00	-20,00	-176.01 Fu.C.1	-176.01 Fu.C.1	-0.09 Fu.C.1	-0.09 Fu.C.1	-0.01 Fu.C.1	-0.01 Fu.C.1
O25(Punt-26)	9,46	-20,00	-414.61 Fu.C.1	-414.61 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O26(Punt-27)	10,50	-20,00	-420.37 Fu.C.1	-420.37 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O27(Punt-28)	19,50	-20,00	-382.52 Fu.C.1	-382.52 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O28(Punt-29)	9,46	-15,00	-450.10 Fu.C.1	-450.10 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O29(Punt-30)	10,50	-15,00	-450.12 Fu.C.1	-450.12 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O30(Punt-31)	19,50	-15,00	-362.77 Fu.C.1	-362.77 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O31(Punt-32)	9,46	-10,00	-449.96 Fu.C.1	-449.96 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O32(Punt-33)	10,50	-10,00	-450.19 Fu.C.1	-450.19 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O33(Punt-34)	19,50	-10,00	-364.59 Fu.C.1	-364.59 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O34(Punt-35)	9,46	-5,00	-450.10 Fu.C.1	-450.10 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O35(Punt-36)	10,50	-5,00	-450.11 Fu.C.1	-450.11 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O36(Punt-37)	19,50	-5,00	-362.76 Fu.C.1	-362.76 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O37(Punt-38)	9,46	0,00	-414.61 Fu.C.1	-414.61 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O38(Punt-39)	10,50	0,00	-420.37 Fu.C.1	-420.37 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O39(Punt-40)	19,50	0,00	-382.52 Fu.C.1	-382.52 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O40(Polylij-41)	20,00	0,00	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	64.39 Fu.C.1	525.55 Fu.C.1
	20,00	-0,25	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	52.66 Fu.C.1	209.65 Fu.C.1
	20,00	-0,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	24.28 Fu.C.1	92.07 Fu.C.1
	20,00	-0,77	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	12.35 Fu.C.1	44.59 Fu.C.1
	20,00	-1,06	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	5.46 Fu.C.1	18.79 Fu.C.1
	20,00	-1,35	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.30 Fu.C.1	0.99 Fu.C.1

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Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O40(Polylijn-41)	20,00	-1,67	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-3.47 Fu.C.1	-11.77 Fu.C.1
	20,00	-1,94	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-6.07 Fu.C.1	-21.86 Fu.C.1
	20,00	-2,22	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.41 Fu.C.1	-26.66 Fu.C.1
	20,00	-2,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.50 Fu.C.1	-26.99 Fu.C.1
	20,00	-2,78	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.79 Fu.C.1	-28.03 Fu.C.1
	20,00	-3,06	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-6.97 Fu.C.1	-25.07 Fu.C.1
	20,00	-3,33	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-4.83 Fu.C.1	-17.37 Fu.C.1
	20,00	-3,61	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.11 Fu.C.1	-7.60 Fu.C.1
	20,00	-3,89	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	1.06 Fu.C.1	3.81 Fu.C.1
	20,00	-4,17	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	5.25 Fu.C.1	18.89 Fu.C.1
	20,00	-4,44	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	12.08 Fu.C.1	43.50 Fu.C.1
	20,00	-4,72	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.63 Fu.C.1	95.87 Fu.C.1
	20,00	-5,00	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	57.37 Fu.C.1	206.52 Fu.C.1
	20,00	-5,28	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.64 Fu.C.1	95.92 Fu.C.1
	20,00	-5,56	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	11.95 Fu.C.1	43.02 Fu.C.1
	20,00	-5,83	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	4.96 Fu.C.1	17.87 Fu.C.1
	20,00	-6,11	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.66 Fu.C.1	2.37 Fu.C.1
	20,00	-6,39	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.64 Fu.C.1	-9.51 Fu.C.1
	20,00	-6,67	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-5.48 Fu.C.1	-19.72 Fu.C.1
	20,00	-6,94	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.74 Fu.C.1	-27.87 Fu.C.1
	20,00	-7,22	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.78 Fu.C.1	-31.63 Fu.C.1
	20,00	-7,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.63 Fu.C.1	-31.08 Fu.C.1
	20,00	-7,78	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.83 Fu.C.1	-31.79 Fu.C.1
	20,00	-8,06	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.80 Fu.C.1	-28.09 Fu.C.1
	20,00	-8,33	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-5.35 Fu.C.1	-19.25 Fu.C.1
	20,00	-8,61	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.65 Fu.C.1	-9.54 Fu.C.1
	20,00	-8,89	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.50 Fu.C.1	1.79 Fu.C.1
	20,00	-9,17	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	4.80 Fu.C.1	17.29 Fu.C.1
	20,00	-9,44	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	11.68 Fu.C.1	42.06 Fu.C.1
	20,00	-9,72	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.58 Fu.C.1	95.68 Fu.C.1
	20,00	-10,00	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	56.84 Fu.C.1	204.62 Fu.C.1
	20,00	-10,28	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.57 Fu.C.1	95.64 Fu.C.1
	20,00	-10,56	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	11.69 Fu.C.1	42.09 Fu.C.1
	20,00	-10,83	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	4.79 Fu.C.1	17.25 Fu.C.1
	20,00	-11,11	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.50 Fu.C.1	1.80 Fu.C.1
	20,00	-11,39	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.65 Fu.C.1	-9.53 Fu.C.1
	20,00	-11,67	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-5.34 Fu.C.1	-19.23 Fu.C.1
	20,00	-11,94	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.82 Fu.C.1	-28.14 Fu.C.1
	20,00	-12,22	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.82 Fu.C.1	-31.75 Fu.C.1
	20,00	-12,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.63 Fu.C.1	-31.08 Fu.C.1
	20,00	-12,78	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-8.79 Fu.C.1	-31.65 Fu.C.1
	20,00	-13,06	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.74 Fu.C.1	-27.85 Fu.C.1
	20,00	-13,33	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-5.48 Fu.C.1	-19.73 Fu.C.1
	20,00	-13,61	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.64 Fu.C.1	-9.50 Fu.C.1
	20,00	-13,89	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.66 Fu.C.1	2.38 Fu.C.1
	20,00	-14,17	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	4.96 Fu.C.1	17.86 Fu.C.1
	20,00	-14,44	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	11.93 Fu.C.1	42.93 Fu.C.1
	20,00	-14,72	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.63 Fu.C.1	95.87 Fu.C.1
	20,00	-15,00	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	57.37 Fu.C.1	206.52 Fu.C.1
	20,00	-15,28	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	26.62 Fu.C.1	95.85 Fu.C.1
	20,00	-15,56	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	12.12 Fu.C.1	43.64 Fu.C.1
	20,00	-15,83	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	5.25 Fu.C.1	18.90 Fu.C.1
	20,00	-16,11	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	1.06 Fu.C.1	3.81 Fu.C.1
	20,00	-16,39	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-2.11 Fu.C.1	-7.61 Fu.C.1
	20,00	-16,67	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-4.83 Fu.C.1	-17.39 Fu.C.1
	20,00	-16,94	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-6.96 Fu.C.1	-25.07 Fu.C.1
	20,00	-17,22	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.79 Fu.C.1	-28.03 Fu.C.1
	20,00	-17,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.50 Fu.C.1	-27.00 Fu.C.1
	20,00	-17,78	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-7.40 Fu.C.1	-26.65 Fu.C.1
	20,00	-18,06	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-6.07 Fu.C.1	-21.85 Fu.C.1
	20,00	-18,33	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	-3.49 Fu.C.1	-11.81 Fu.C.1
	20,00	-18,65	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.30 Fu.C.1	0.98 Fu.C.1
	20,00	-18,94	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	5.48 Fu.C.1	18.85 Fu.C.1
	20,00	-19,23	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	12.36 Fu.C.1	44.64 Fu.C.1
	20,00	-19,50	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	24.54 Fu.C.1	93.04 Fu.C.1
	20,00	-19,75	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	52.29 Fu.C.1	208.20 Fu.C.1
	20,00	-20,00	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	64.48 Fu.C.1	526.27 Fu.C.1
O41(Punt-64)	0,00	-2,50	-111.72 Fu.C.1	-111.72 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O42(Punt-65)	5,00	-2,50	-297.77 Fu.C.1	-297.77 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O43(Punt-66)	10,00	-2,50	-396.30 Fu.C.1	-396.30 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O44(Punt-67)	15,00	-2,50	-278.43 Fu.C.1	-278.43 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O45(Punt-68)	19,50	-2,50	-287.76 Fu.C.1	-287.76 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O46(Punt-69)	5,00	-7,50	-327.37 Fu.C.1	-327.37 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O47(Punt-70)	10,00	-7,50	-412.07 Fu.C.1	-412.07 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O48(Punt-71)	15,00	-7,50	-305.63 Fu.C.1	-305.63 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O49(Punt-72)	19,50	-7,50	-300.40 Fu.C.1	-300.40 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1

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Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
O50(Punt-73)	0,00	-7,50	-116.92 Fu.C.1	-116.92 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O51(Punt-74)	0,00	-12,50	-116.92 Fu.C.1	-116.92 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O52(Punt-75)	5,00	-12,50	-327.37 Fu.C.1	-327.37 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O53(Punt-76)	10,00	-12,50	-412.06 Fu.C.1	-412.06 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O54(Punt-77)	15,00	-12,50	-305.63 Fu.C.1	-305.63 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O55(Punt-78)	19,50	-12,50	-300.40 Fu.C.1	-300.40 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O56(Punt-79)	0,00	-17,50	-111.72 Fu.C.1	-111.72 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O57(Punt-80)	5,00	-17,50	-297.77 Fu.C.1	-297.77 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O58(Punt-81)	10,00	-17,50	-396.30 Fu.C.1	-396.30 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O59(Punt-82)	15,00	-17,50	-278.43 Fu.C.1	-278.43 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
O60(Punt-83)	19,50	-17,50	-287.76 Fu.C.1	-287.76 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1	0.00 Fu.C.1
-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/m

FU.C. EXTREME OPLEGREACTIES (PUNT)

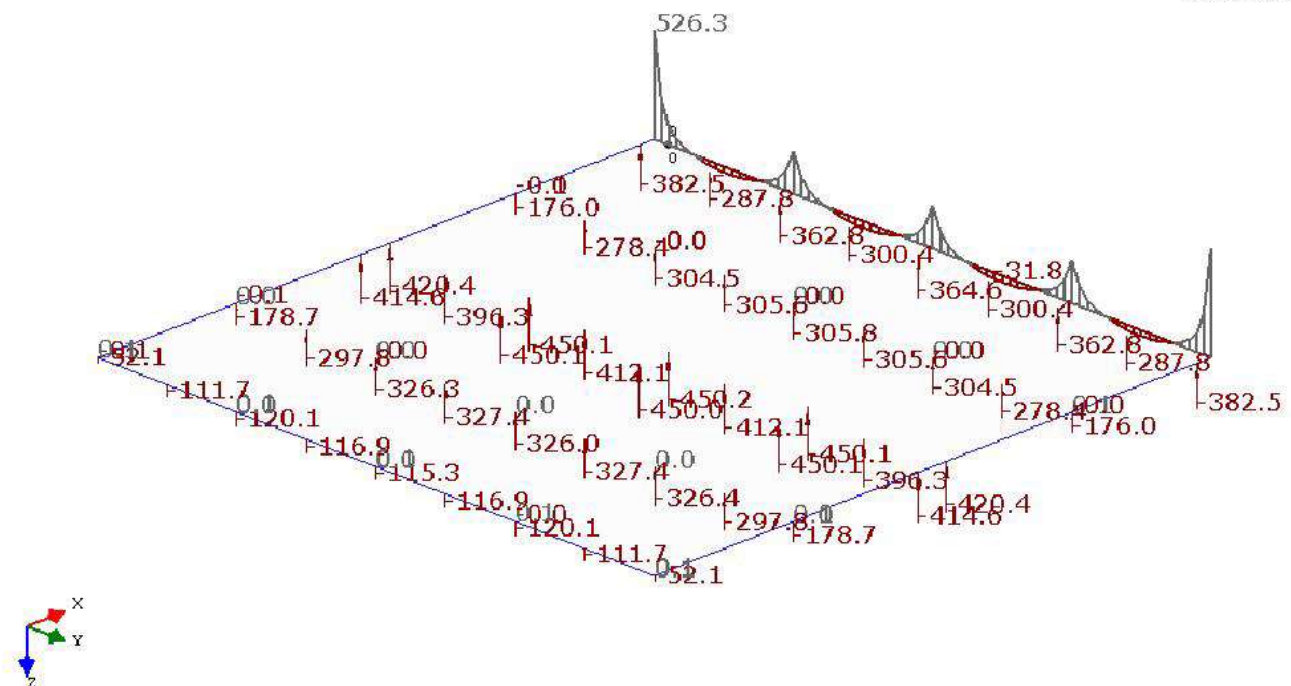
Oplegging	B.C.	Zmax	Mx	My B.C.	Z	Mxmax	My B.C.	Z	Mx Mymax	
O1(Punt-2)				Fu.C.1	-52.14	0.05	0.12 Fu.C.1	-52.14	0.05 0.12	
O1(Punt-2)	Fu.C.1	-52.14	0.05	0.12						
O2(Punt-3)				Fu.C.1	-178.73	0.09	0.02 Fu.C.1	-178.73	0.09 0.02	
O2(Punt-3)	Fu.C.1	-178.73	0.09	0.02						
O4(Punt-5)				Fu.C.1	-176.01	0.09	-0.01			
O4(Punt-5)	Fu.C.1	-176.01	0.09	-0.01			Fu.C.1	-176.01	0.09 -0.01	
O6(Punt-7)							Fu.C.1	-120.14	0.00 0.13	
O6(Punt-7)	Fu.C.1	-120.14	0.00	0.13	Fu.C.1	-120.14	0.13			
O7(Punt-8)				Fu.C.1	-326.35	0.00	0.01 Fu.C.1	-326.35	0.00 0.01	
O7(Punt-8)	Fu.C.1	-326.35	0.00	0.01						
O9(Punt-10)				Fu.C.1	-304.46	0.00	-0.02			
O9(Punt-10)	Fu.C.1	-304.46	0.00	-0.02			Fu.C.1	-304.46	0.00 -0.02	
O11(Punt-12)				Fu.C.1	-115.32	0.00	0.13 Fu.C.1	-115.32	0.00 0.13	
O11(Punt-12)	Fu.C.1	-115.32	0.00	0.13						
O12(Punt-13)				Fu.C.1	-325.97	0.00	0.01 Fu.C.1	-325.97	0.00 0.01	
O12(Punt-13)	Fu.C.1	-325.97	0.00	0.01						
O14(Punt-15)				Fu.C.1	-305.81	0.00	-0.02			
O14(Punt-15)	Fu.C.1	-305.81	0.00	-0.02			Fu.C.1	-305.81	0.00 -0.02	
O16(Punt-17)				Fu.C.1	-120.14	0.00	0.13 Fu.C.1	-120.14	0.00 0.13	
O16(Punt-17)	Fu.C.1	-120.14	0.00	0.13						
O17(Punt-18)							Fu.C.1	-326.35	0.00 0.01	
O17(Punt-18)	Fu.C.1	-326.35	0.00	0.01	Fu.C.1	-326.35	0.01			
O19(Punt-20)	Fu.C.1	-304.46	0.00	-0.02	Fu.C.1	-304.46	-0.02	Fu.C.1	-304.46	0.00 -0.02
O21(Punt-22)							Fu.C.1	-52.14	-0.05 0.12	
O21(Punt-22)	Fu.C.1	-52.14	-0.05	0.12	Fu.C.1	-52.14	-0.05	0.12		
O22(Punt-23)							Fu.C.1	-178.73	-0.09 0.02	
O22(Punt-23)	Fu.C.1	-178.73	-0.09	0.02	Fu.C.1	-178.73	-0.09	0.02		
O24(Punt-25)	Fu.C.1	-176.01	-0.09	-0.01	Fu.C.1	-176.01	-0.01	Fu.C.1	-176.01	-0.09 -0.01
O25(Punt-26)	Fu.C.1	-414.61	0.00	0.00						
O26(Punt-27)	Fu.C.1	-420.37	0.00	0.00						
O27(Punt-28)	Fu.C.1	-382.52	0.00	0.00						
O28(Punt-29)	Fu.C.1	-450.10	0.00	0.00						
O29(Punt-30)	Fu.C.1	-450.12	0.00	0.00						
O30(Punt-31)	Fu.C.1	-362.77	0.00	0.00						
O31(Punt-32)	Fu.C.1	-449.96	0.00	0.00						
O32(Punt-33)	Fu.C.1	-450.19	0.00	0.00						
O33(Punt-34)	Fu.C.1	-364.59	0.00	0.00						
O34(Punt-35)	Fu.C.1	-450.10	0.00	0.00						
O35(Punt-36)	Fu.C.1	-450.11	0.00	0.00						
O36(Punt-37)	Fu.C.1	-362.76	0.00	0.00						
O37(Punt-38)	Fu.C.1	-414.61	0.00	0.00						
O38(Punt-39)	Fu.C.1	-420.37	0.00	0.00						
O39(Punt-40)	Fu.C.1	-382.52	0.00	0.00						
O41(Punt-64)	Fu.C.1	-111.72	0.00	0.00						
O42(Punt-65)	Fu.C.1	-297.77	0.00	0.00						
O43(Punt-66)	Fu.C.1	-396.30	0.00	0.00						
O44(Punt-67)	Fu.C.1	-278.43	0.00	0.00						
O45(Punt-68)	Fu.C.1	-287.76	0.00	0.00						
O46(Punt-69)	Fu.C.1	-327.37	0.00	0.00						
O47(Punt-70)	Fu.C.1	-412.07	0.00	0.00						
O48(Punt-71)	Fu.C.1	-305.63	0.00	0.00						
O49(Punt-72)	Fu.C.1	-300.40	0.00	0.00						
O50(Punt-73)	Fu.C.1	-116.92	0.00	0.00						
O51(Punt-74)	Fu.C.1	-116.92	0.00	0.00						
O52(Punt-75)	Fu.C.1	-327.37	0.00	0.00						
O53(Punt-76)	Fu.C.1	-412.06	0.00	0.00						

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Oplegging	B.C.	Zmax	Mx	My B.C.	Z	Mxmax	My B.C.	Z	Mx	Mymax
O54(Punt-77)	Fu.C.1	-305.63	0.00	0.00						
O55(Punt-78)	Fu.C.1	-300.40	0.00	0.00						
O56(Punt-79)	Fu.C.1	-111.72	0.00	0.00						
O57(Punt-80)	Fu.C.1	-297.77	0.00	0.00						
O58(Punt-81)	Fu.C.1	-396.30	0.00	0.00						
O59(Punt-82)	Fu.C.1	-278.43	0.00	0.00						
O60(Punt-83)	Fu.C.1	-287.76	0.00	0.00						
Globale extreme waarden										
O22(Punt-23)	Fu.C.1	-450.19	0.00	0.00						
O60(Punt-83)				Fu.C.1	0.09	-178.73	0.02			
O32(Punt-33)				Fu.C.1	-0.09	-178.73	0.02			
O11(Punt-12)							Fu.C.1	0.00	-115.32	0.13
O19(Punt-20)							Fu.C.1	0.00	-304.46	-0.02
-	-	-	kN	kNm	kNm	-	kN	kNm	kNm	

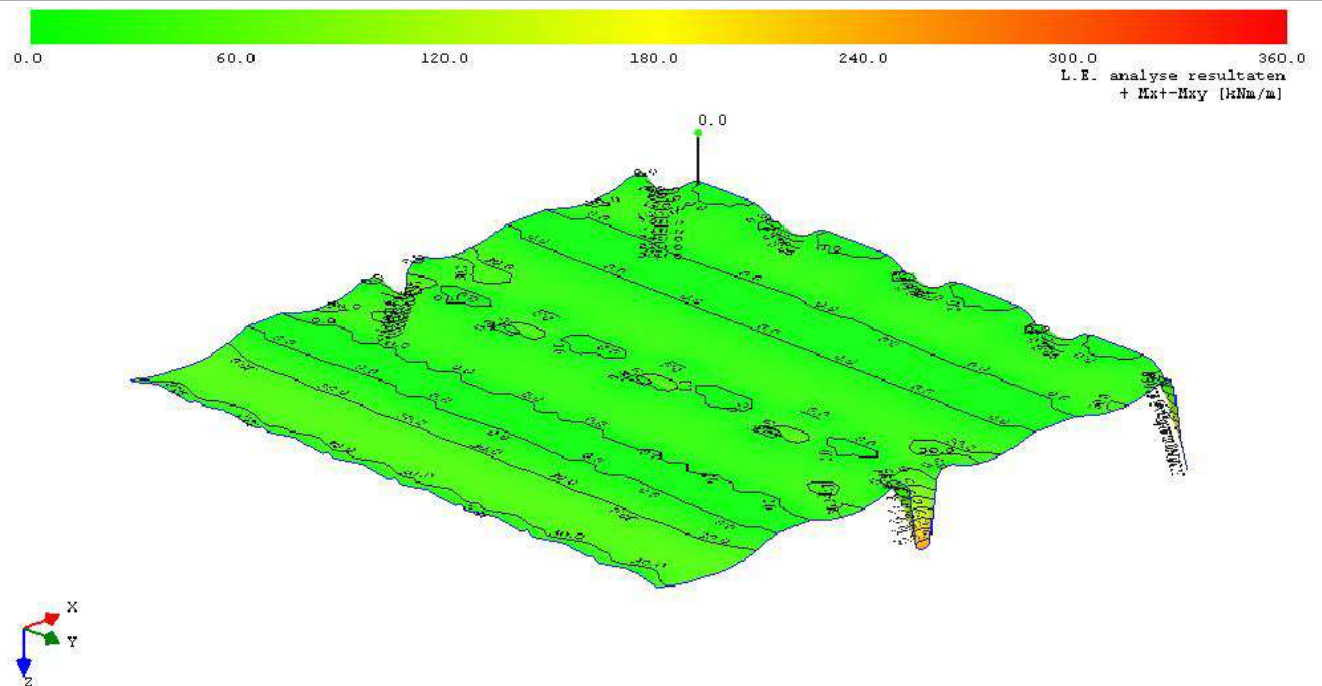
AFB. FEM OPLEGREACTIES FU.C.1

L.R. analyse resultaten
Oplegreacties

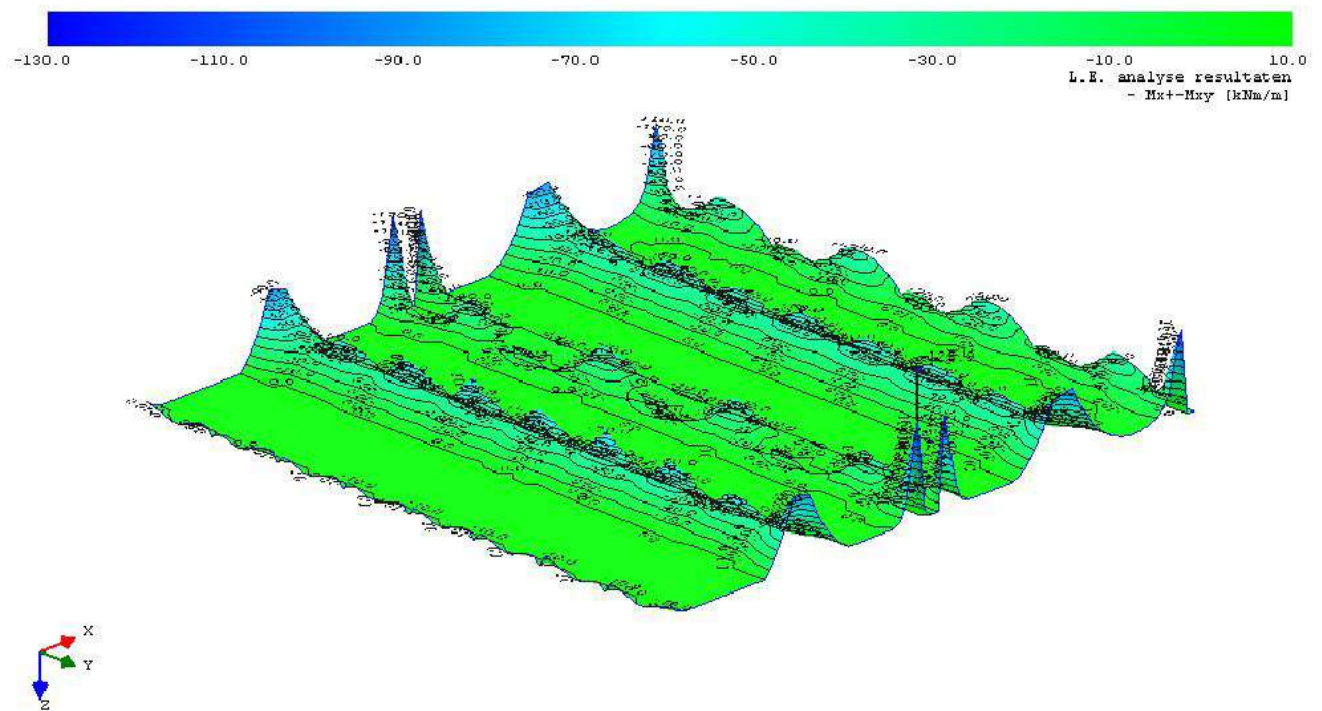


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AFB. FEM +MX+-MXY FU.C. OMHULLENDE

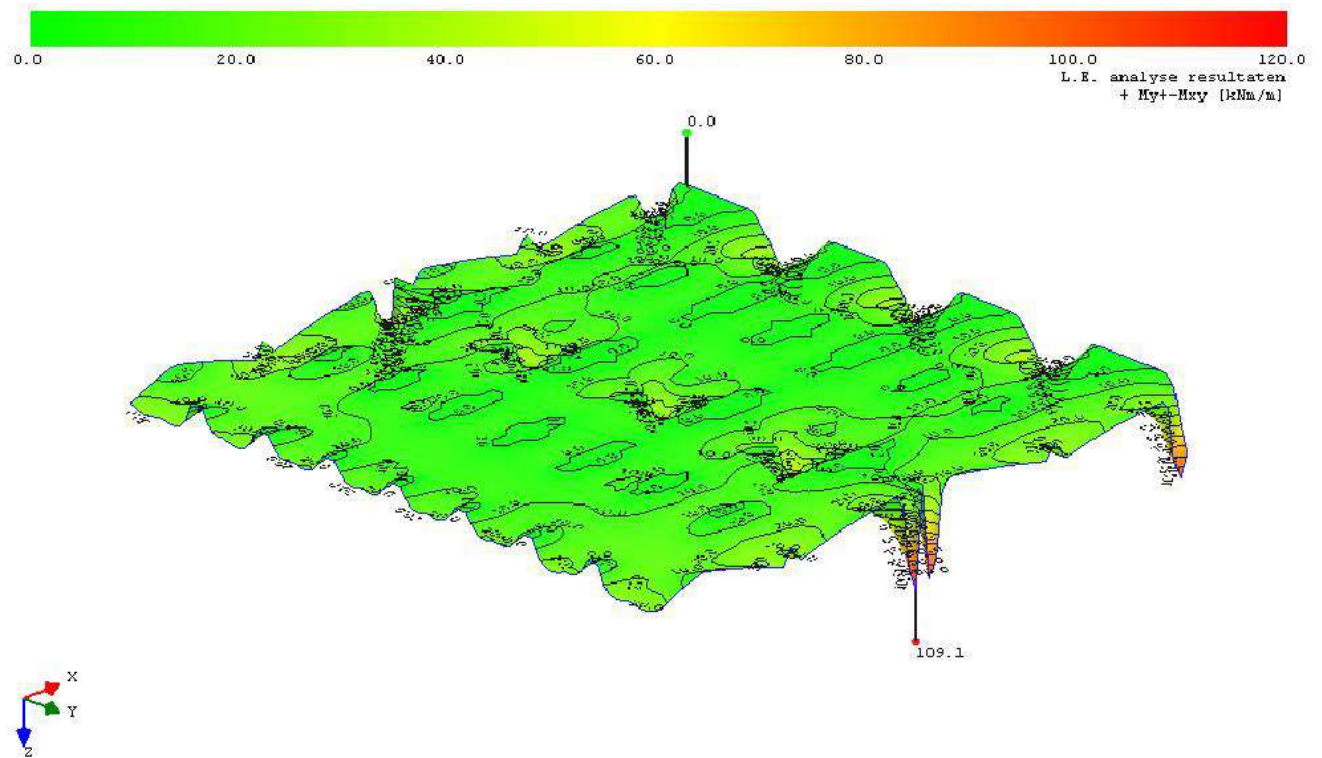


AFB. FEM -MX+-MXY FU.C. OMHULLENDE

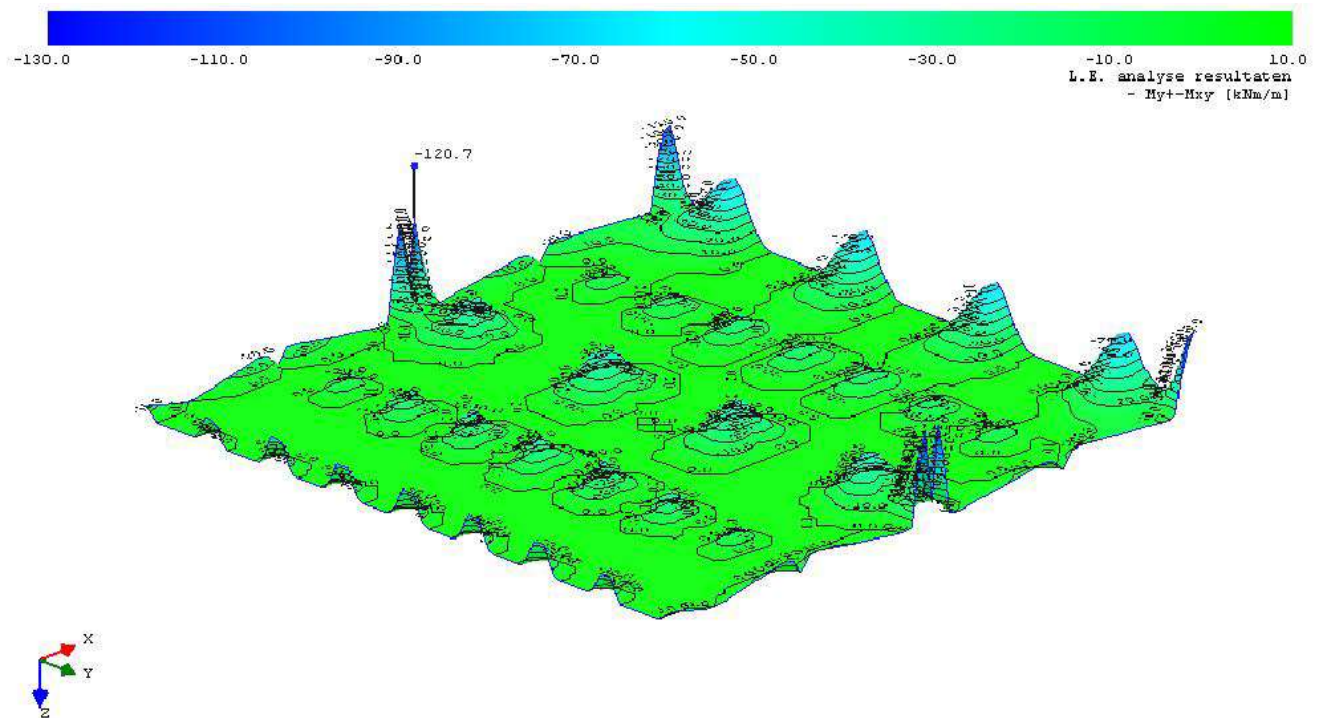


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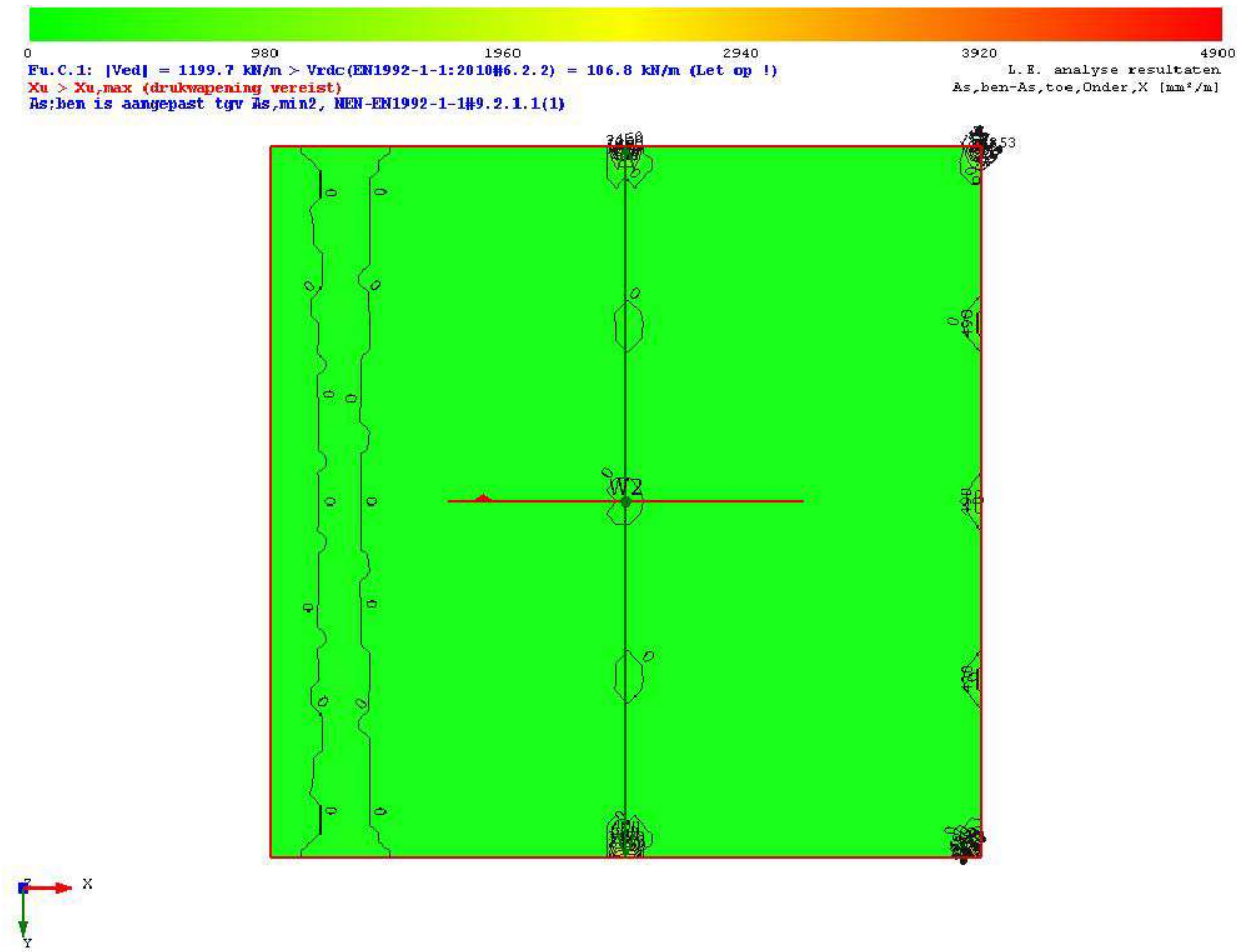
AFB. FEM +MY+MXY FU.C. OMHULLENDE



AFB. FEM -MY+MXY FU.C. OMHULLENDE



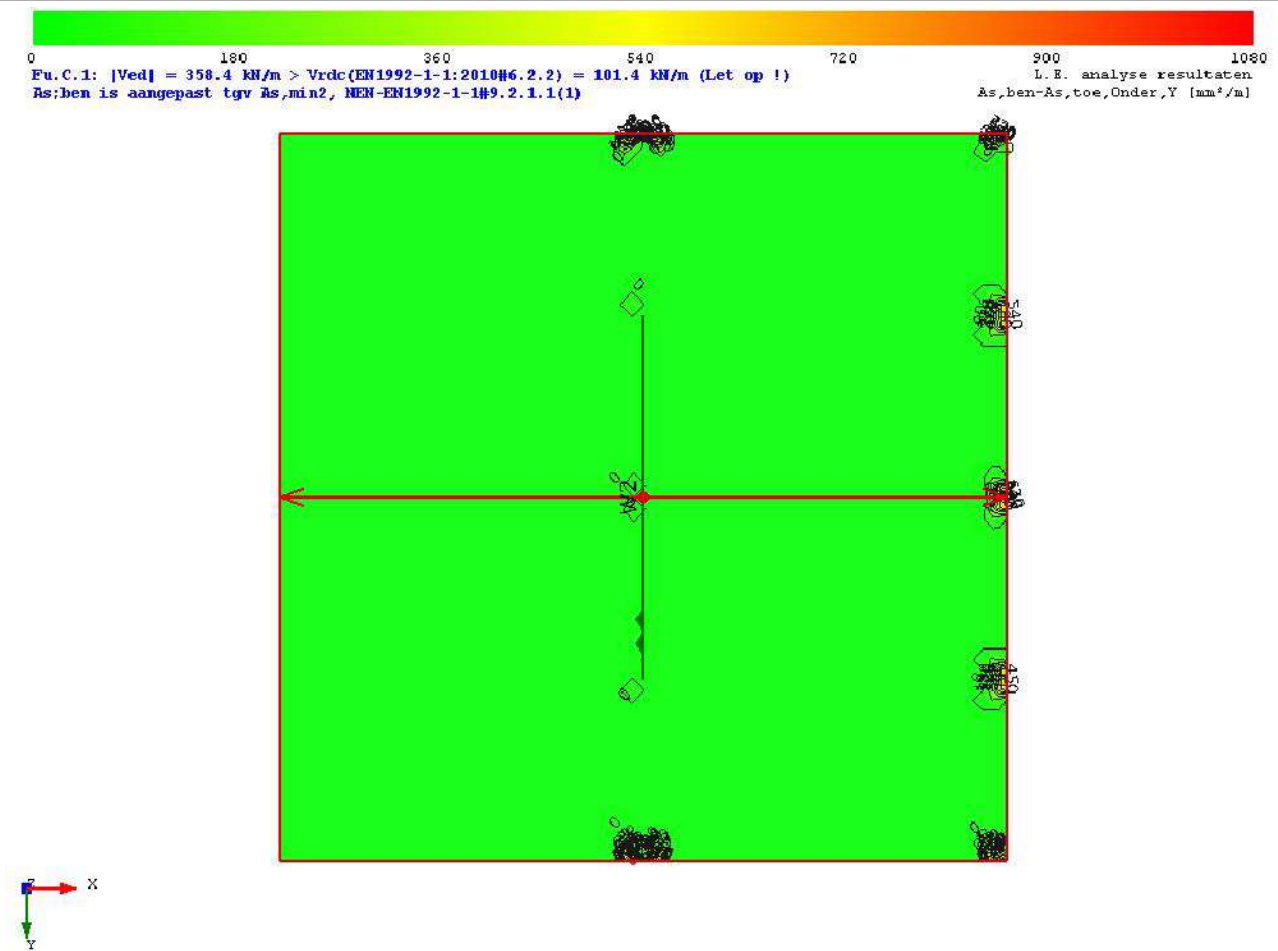
AFB. FEM AS;BEN ONDER X FU.C. OMHULLENDE



WAPENING

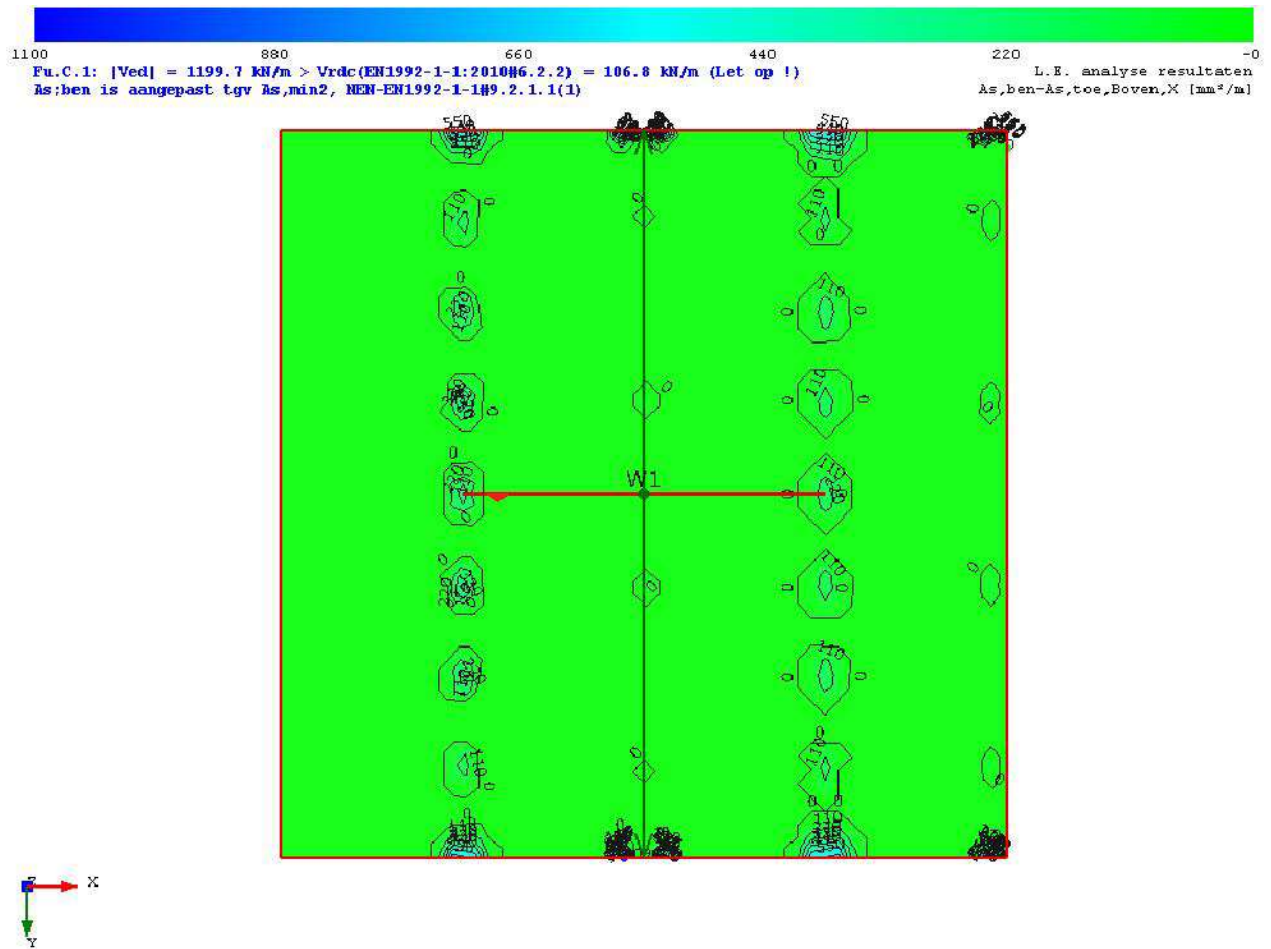
Oplegg. Staven		Net	Staal	h-d	Omschr.	As;toe
W2	B524	Ja	B500B	53	R10-150	524
-	-	-	-	mm	-	mm2/m

AFB. FEM AS;BEN ONDER Y FU.C. OMHULLENDE



WAPENING

Oplegg. Staven		Net	Staal	h-d	Omschr.	As;toe
W2	B524	Ja	B500B	63	R10-150	524
-	-	-	-	mm	-	mm ² /m

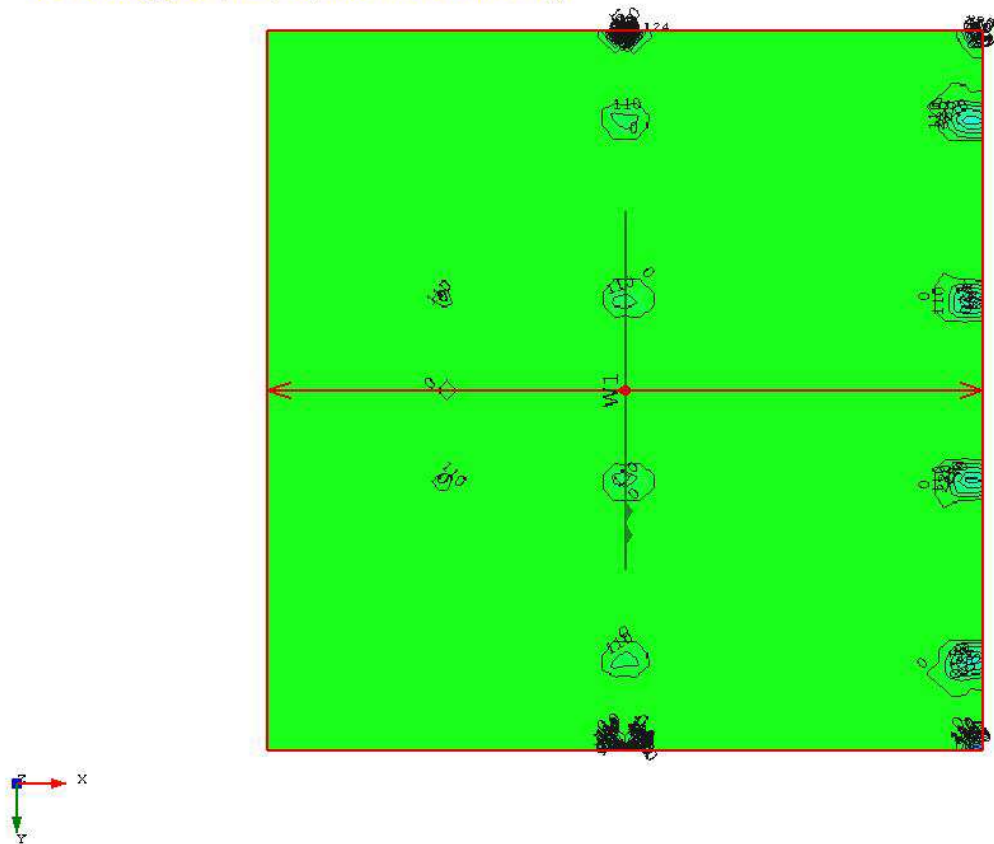


WAPENING

Oplegg. Staven		Net	Staal	h-d	Omschr.	As;toe
W1	B524	Ja	B500B	53	R10-150	524
-	-	-	-	mm	-	mm2/m

AFB. FEM AS;BEN BOVEN Y FU.C. OMHULLENDE

1210 990 770 550 330 110 -110
Fu.C.1: [Ved] = 358.4 kN/m > Vrdc(EN1992-1-1:2010#6.2.2) = 101.4 kN/m (Let op !)
As;ben is aangepast tgv As,min2, NEN-EN1992-1-1#9.2.1.1(1)
L.E. analyse resultaten
As,ben-As,toe,Boven,Y [mm²/m]



WAPENING

Oplegg. Staven		Net	Staal	h-d	Omschr.	As;toe
W1	B524	Ja	B500B	63	R10-150	524
-	-	-	-	mm	-	mm2/m

Project name		Project number	
Part description		Structural engineer	
Client		Units	m, mm, kN, kNm
File	C:\Users\awnis\Documents\pons hal Heinnenoord dikte 250 mm.mxft		

2. PONS MIDDEN GEDEELTE (NEN-EN1992-1-1:2015\NB:2016)

PUNCHING SLAB

CONSTRUCTION DATA

Concrete		C30/37	Steel		B500B
Total height plate	h	300 mm	Design strength shear reinf.	$f_{ywd,ef}$	315 N/mm ²
Lever	d_1	255 mm	Lever	d_2	265 mm
Effective depth	d	260 mm	Angle punching reinf.	α	90 °
Width loading area	c_1	320 mm	Height loading area	c_2	320 mm
Cover top		30 mm	Direction 1st reinf. net		Z
Reinf. net Y-direction		R10-150	Reinf. net Z-direction		R10-150
Reinforcement ratio	ω_{0y}	0.21 %	Reinforcement ratio	ω_{0z}	0.20 %
Reinforcement ratio	ω_0	0.20 %			

LOADS

Axial force	F_d	450.00 kN	Design load	p	20.00 kN/m ²
Moment	M_{D1} / M_{Edy}	0.00 kNm	Moment	M_{D2} / M_{Edz}	0.00 kNm
Lateral stability not dependent on frame action			Eccentricity ratio	β	1.15

CALCULATION INTERNAL COLUMN - POINTED SUPPORT

Perimeter	$r_{cont,y}$	$r_{cont,z}$	V_{Ed}	u_i	β	v_{Ed}	$v_{Rd,c}$	$v_{Rd,max}$	$v_{Rd,s}$	A_{sw}/s_r	UC	Check
u_0	160	160	450.00	1280	1.15	1.55		4.22				Ok
u_1	680	680	419.70	4547	1.15	0.41	0.49	4.22	0.00	0.0	0.83	Ok
	mm	mm	kN	mm		N/mm ²	N/mm ²	N/mm ²	N/mm ²	mm ² /mm		

PERIMETER UP TO 2D (NEN-EN 1992-1-1 #6.4.4(2))

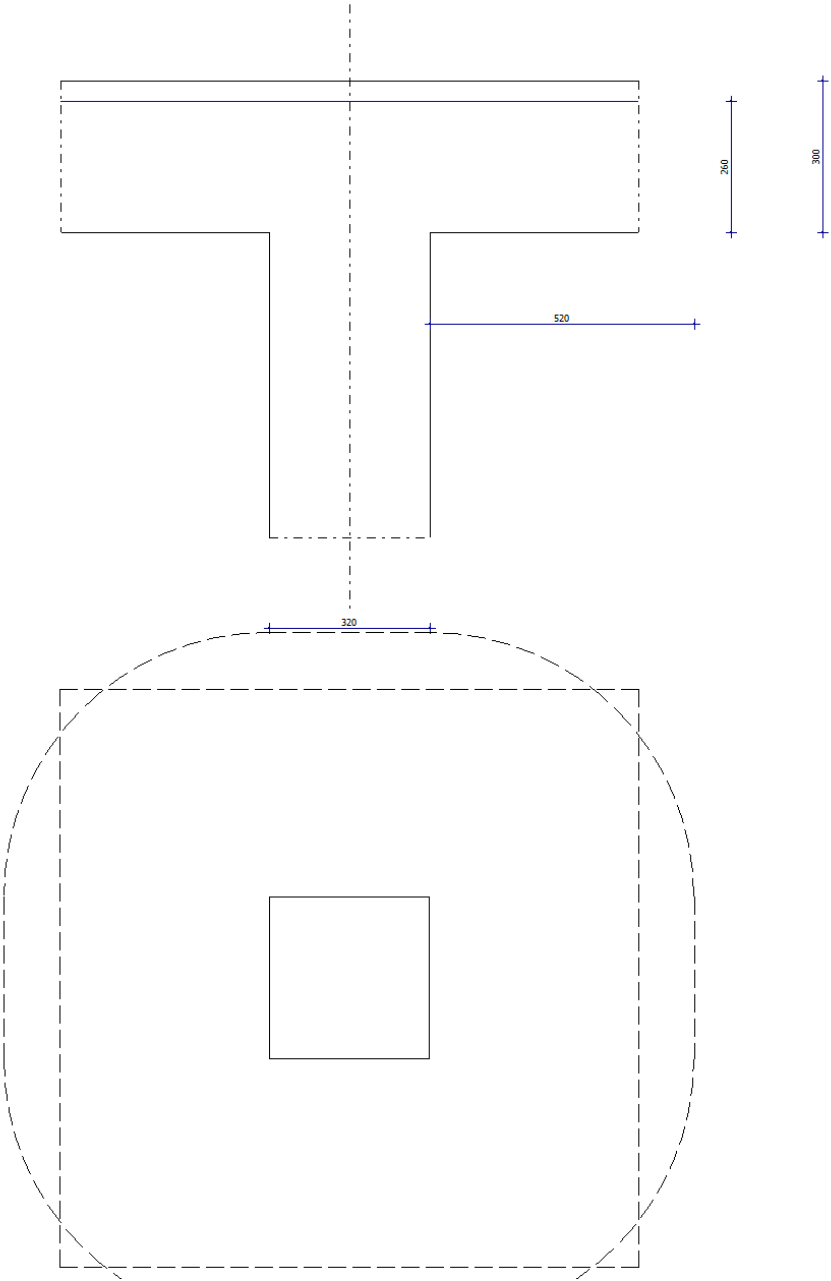
Perimeter	$r_{cont,y}$	$r_{cont,z}$	$V_{Ed,red}$	u_i	β	v_{Ed}	v_{Rd}	UC
0.0 d	160	160	450.00	1280	1.150	1.55		
0.1 d	186	186	449.29	1443	1.150	1.38	9.86	0.14
0.2 d	212	212	448.50	1607	1.150	1.23	4.93	0.25
0.3 d	238	238	447.62	1770	1.150	1.12	3.29	0.34
0.4 d	264	264	446.66	1933	1.150	1.02	2.46	0.41
0.5 d	290	290	445.61	2097	1.150	0.94	1.97	0.48
0.6 d	316	316	444.48	2260	1.150	0.87	1.64	0.53
0.7 d	342	342	443.26	2424	1.150	0.81	1.41	0.57
0.8 d	368	368	441.96	2587	1.150	0.76	1.23	0.61
0.9 d	394	394	440.57	2750	1.150	0.71	1.10	0.65
1.0 d	420	420	439.10	2914	1.150	0.67	0.99	0.68
1.1 d	446	446	437.54	3077	1.150	0.63	0.90	0.70
1.2 d	472	472	435.90	3240	1.150	0.59	0.82	0.72
1.3 d	498	498	434.17	3404	1.150	0.56	0.76	0.74
1.4 d	524	524	432.36	3567	1.150	0.54	0.70	0.76
1.5 d	550	550	430.46	3730	1.150	0.51	0.66	0.78
1.6 d	576	576	428.48	3894	1.150	0.49	0.62	0.79
1.7 d	602	602	426.41	4057	1.150	0.46	0.58	0.80
1.8 d	628	628	424.26	4221	1.150	0.44	0.55	0.81
1.9 d	654	654	422.02	4384	1.150	0.43	0.52	0.82
2.0 d	680	680	419.70	4547	1.150	0.41	0.49	0.83
	mm	mm	kN	mm			N/mm ²	N/mm ²

Punching shear reinforcement is not necessary #6.4.3 (2)(b): $v_{Ed} < v_{Rd,c}$ (0.41 < 0.49)

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2. Pons midden gedeelte Punching drawing

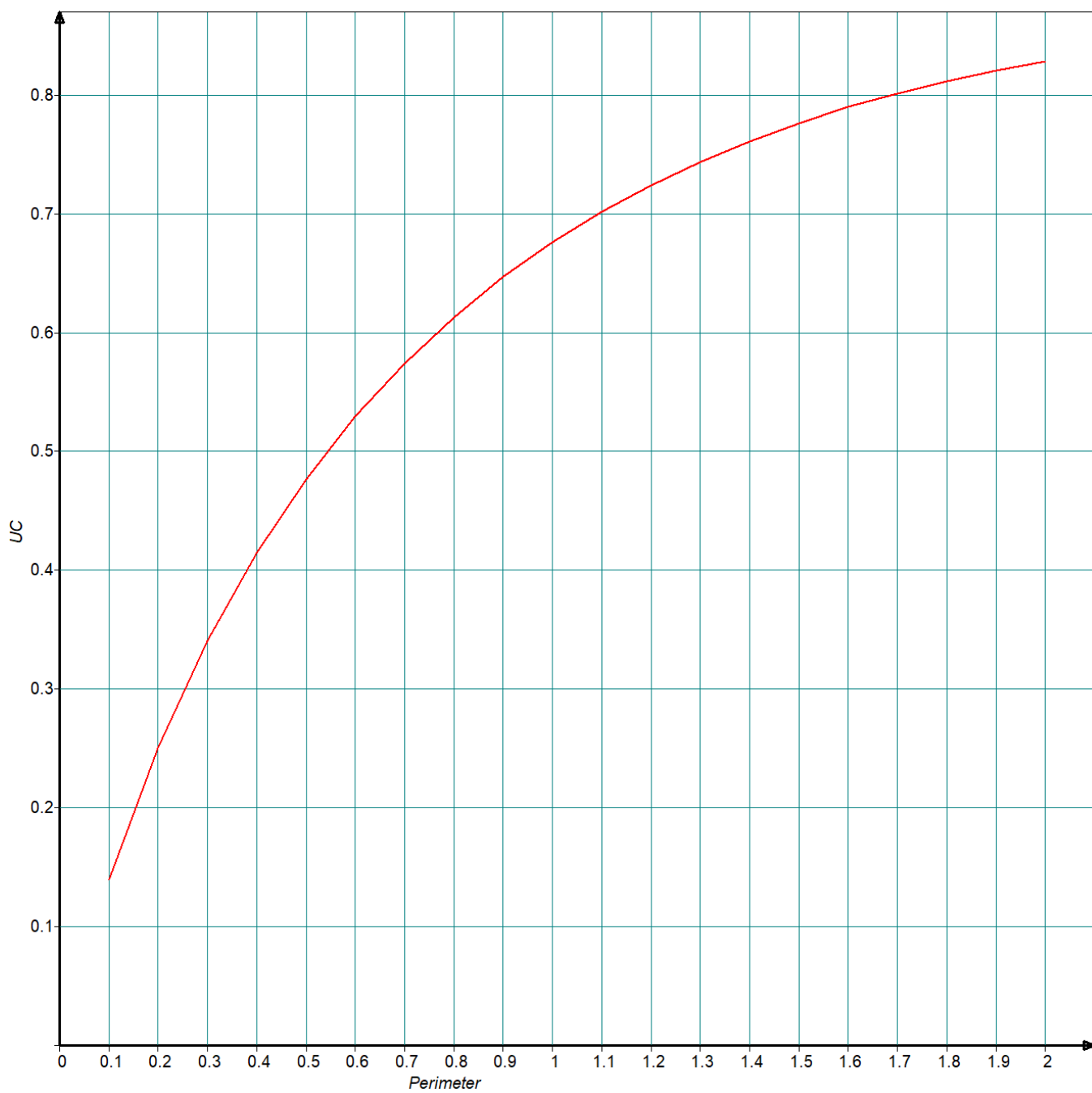
2. Pons midden gedeelte



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2. Pons midden gedeelte Perimeter up to 2D (NEN-EN 1992-1-1 #6.4.4(2))

2. Pons midden gedeelte



Projectnaam		Projectnummer	
Omschrijving		Constructeur	
Opdrachtgever		Eenheden	m, kN, kNm
Bestand	C:\Users\awnis\Desktop\Matrix\Heinenoord vloer entree midden gedeelte.mxf		

GEOMETRIE

Gebied/Polylijn	Sparing	Materiaal	Kruip	Dikte	Elasticiteit	Poisson	Dichtheid	Uitzetting
R1	Nee	C30/37	2,10	0,250	3.3000e+07	0.20	25.00	10.0000e-06
-	-	-	-	m	kN/m2	-	kN/m3	C°m

CONSTRUCTIEVE PUNTEN

Gebieden	Punt	X	Y	Z	Ref.
R1	V1	0.000	0.000	0.000	A,1
R1	V2	0.000	-2.500	0.000	A,4
R1	V3	7.500	-2.500	0.000	D,4
R1	V4	7.500	0.000	0.000	D,1
-	-	m	m	m	-

OPLEGGINGEN

Gebied/Polylijn	Type	Z	Xr	Yr
R2	Punt	Vast	Vrij	Vrij
R3	Punt	Vast	Vrij	Vrij
R4	Punt	Vast	Vrij	Vrij
R5	Punt	Vast	Vrij	Vrij
-	-	-	-	-

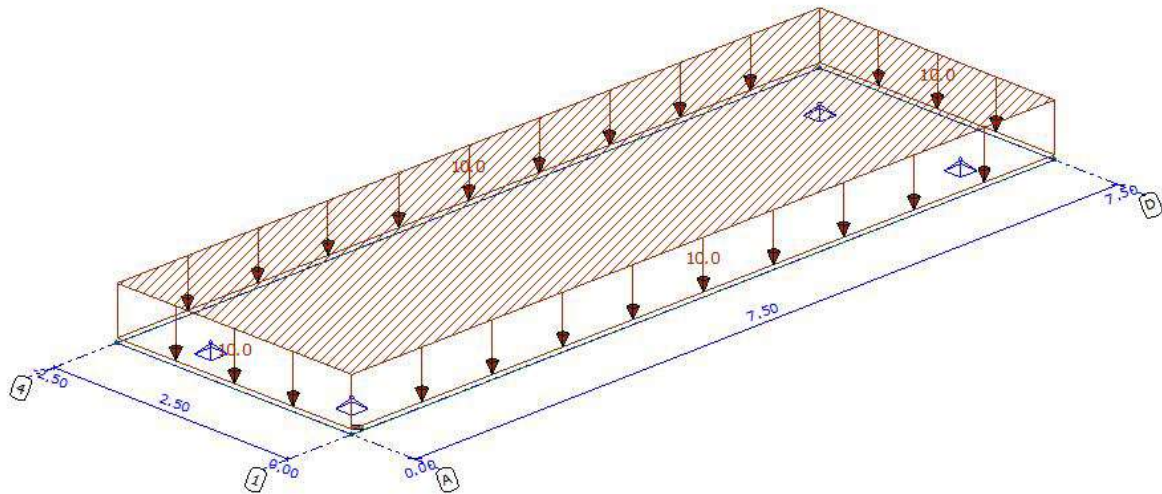
ONDERSTEUNINGSPUNTEN

Gebieden	Punt	X	Y	Z
R2	V5	0.500	-2.000	0.000
R3	V6	0.500	-0.500	0.000
R4	V7	7.000	-2.000	0.000
R5	V8	7.000	-0.500	0.000
-	-	m	m	m

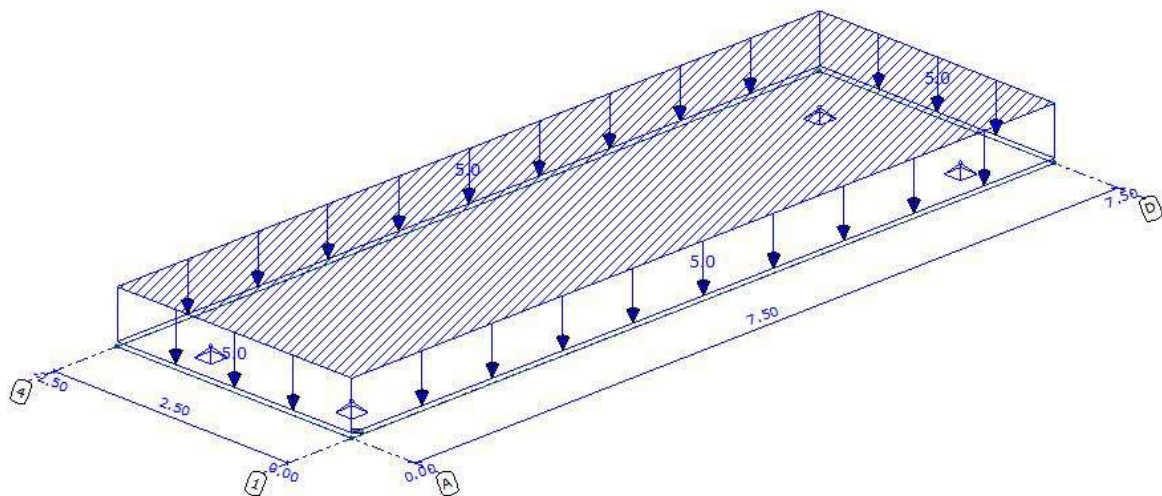
BELASTINGSGEVALLEN TYPEN

Oplegg.	Staven	B.G.Type	Gunstig/Ong.	Element	Niveau	Veld	Psi0	Psi1	Psi2	Cprob UGT/GGT
B.G.1	Permanent	Permanent	-		N.v.t.	N.v.t.				
B.G.2	Verdeelde veranderlijke belasting	Verdeelde veranderlijke belasting	-	Cat. A) Vloeren	1	1	0.40	0.50	0.30	1,00/1,00

AFB. LASTEN B.G.1 PERMANENT



AFB. LASTEN B.G.2 VERDEELDE VERANDERLIJKE BELASTING



FUNDAMENTEEL BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fu.C.1	Fu.C.2
B.G.1	Permanent	1.08	1.22
B.G.2	Verdeelde veranderlijke belasting	1.35	0.54

KARAKTERISTIEK BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Ka.C.(w1)	Ka.C.1	Ka.C.2
B.G.1	Permanent	1.00	1.00	1.00
B.G.2	Verdeelde veranderlijke belasting	-	0.40	1.00

FREQUENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Fr.C.(w1)	Fr.C.1
B.G.1	Permanent	1.00	1.00
B.G.2	Verdeelde veranderlijke belasting	-	0.50

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QUASI-PERMANENT BELASTINGSCOMBINATIES (TABEL)

B.G.	Omschrijving	Qu.C.1
B.G.1	Permanent	1.00
B.G.2	Verdeelde veranderlijke belasting	0.30

UITGANGSPUNTEN VAN DE ANALYSE

Lineaire Elastische Analyse uitgevoerd

FU.C. OPLEGREACTIES

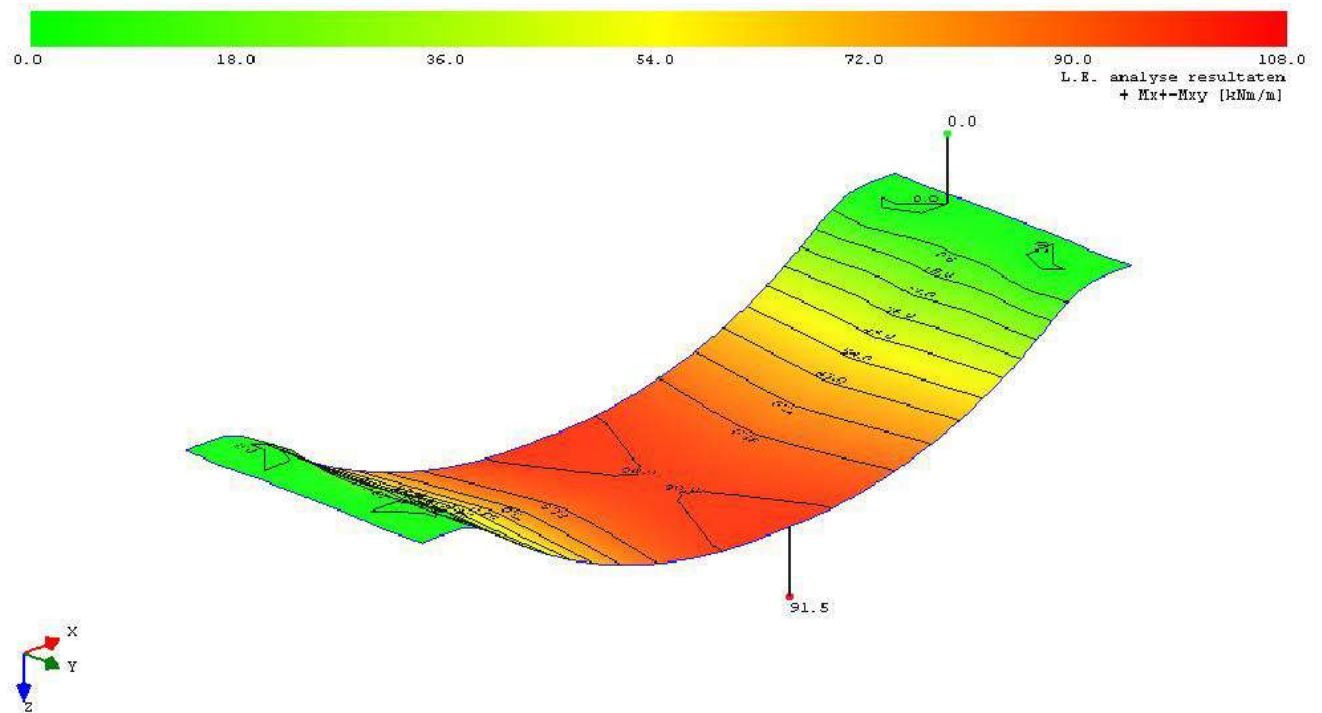
B.C.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
Fu.C.1	O1(Punt-2)	0,500	-2,000	-82,27	-82,27	0,00	0,00	0,00	0,0
Fu.C.1	O2(Punt-3)	0,500	-0,500	-82,27	-82,27	0,00	0,00	0,00	0,0
Fu.C.1	O3(Punt-4)	7,000	-2,000	-82,27	-82,27	0,00	0,00	0,00	0,0
Fu.C.1	O4(Punt-5)	7,000	-0,500	-82,27	-82,27	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-329,06					
	Som van de belastingen			329,06					
Fu.C.2	O1(Punt-2)	0,500	-2,000	-69,84	-69,84	0,00	0,00	0,00	0,0
Fu.C.2	O2(Punt-3)	0,500	-0,500	-69,84	-69,84	0,00	0,00	0,00	0,0
Fu.C.2	O3(Punt-4)	7,000	-2,000	-69,84	-69,84	0,00	0,00	0,00	0,0
Fu.C.2	O4(Punt-5)	7,000	-0,500	-69,84	-69,84	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-279,38					
	Som van de belastingen			279,38					
-	-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/r

B.G. OPLEGREACTIES

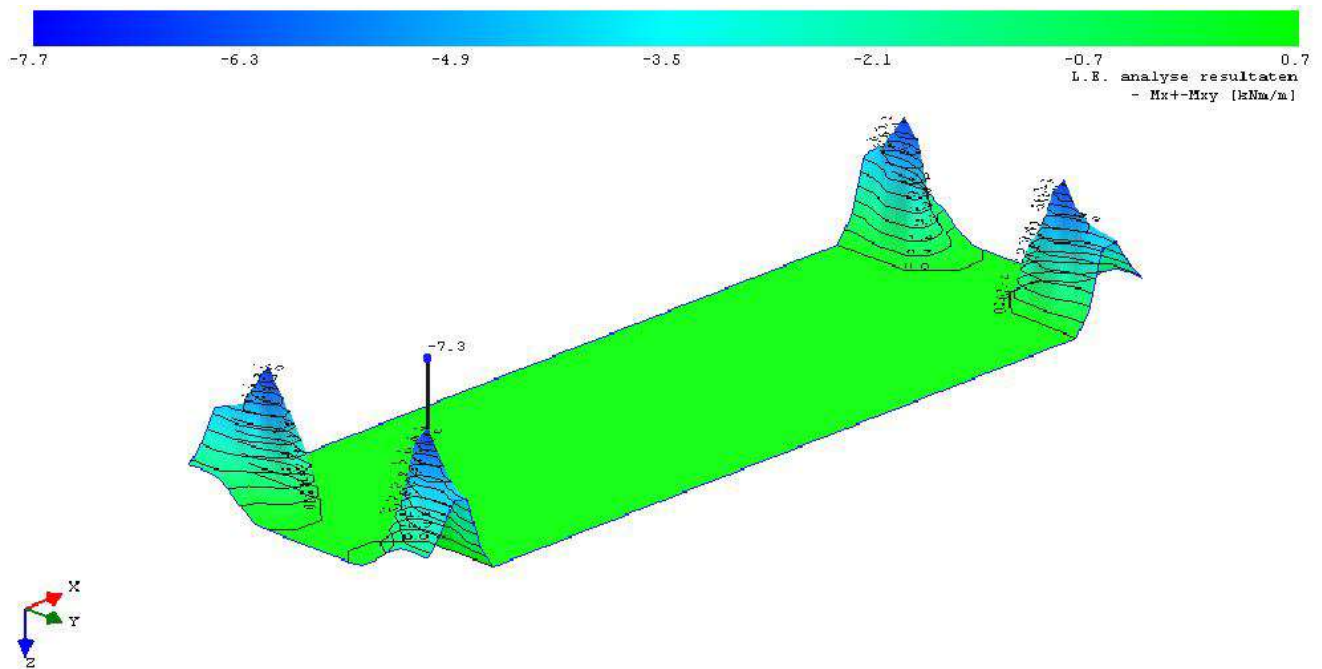
B.G.	Oplegging	PosX	PosY	Z	Z gelijkm.	Mx	Mx gelijkm.	My	My gelijkm.
B.G.1	O1(Punt-2)	0,500	-2,000	-46,88	-46,88	0,00	0,00	0,00	0,0
B.G.1	O2(Punt-3)	0,500	-0,500	-46,87	-46,87	0,00	0,00	0,00	0,0
B.G.1	O3(Punt-4)	7,000	-2,000	-46,87	-46,87	0,00	0,00	0,00	0,0
B.G.1	O4(Punt-5)	7,000	-0,500	-46,88	-46,88	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-187,50					
	Som van de belastingen			187,50					
B.G.2	O1(Punt-2)	0,500	-2,000	-23,44	-23,44	0,00	0,00	0,00	0,0
B.G.2	O2(Punt-3)	0,500	-0,500	-23,44	-23,44	0,00	0,00	0,00	0,0
B.G.2	O3(Punt-4)	7,000	-2,000	-23,44	-23,44	0,00	0,00	0,00	0,0
B.G.2	O4(Punt-5)	7,000	-0,500	-23,44	-23,44	0,00	0,00	0,00	0,0
	Som van de oplegreacties			-93,75					
	Som van de belastingen			93,75					
-	-	m	m	kN	kN/m	kNm	kNm/m	kNm	kNm/r

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AFB. FEM +MX+-MXY FU.C. OMHULLENDE

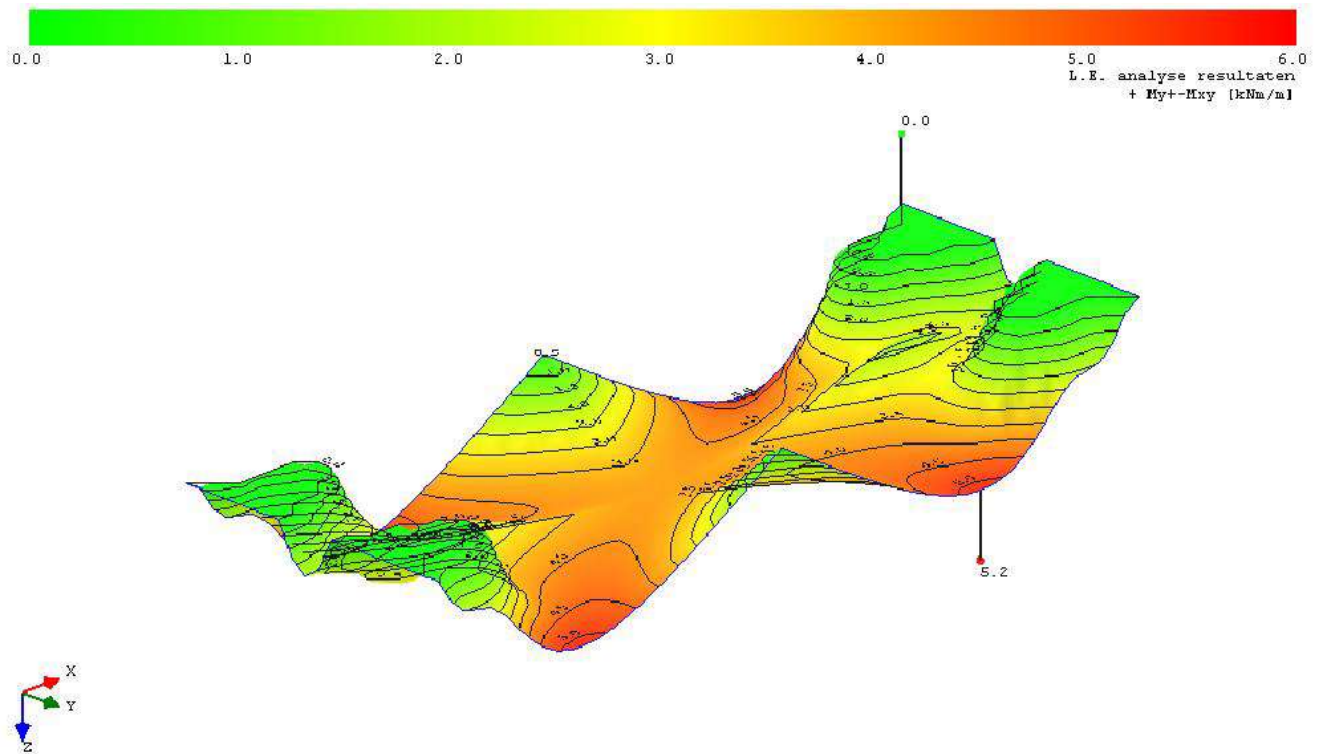


AFB. FEM -MX+-MXY FU.C. OMHULLENDE



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AFB. FEM +MY+-MXY FU.C. OMHULLENDE



AFB. FEM -MY+-MXY FU.C. OMHULLENDE

