Rapport voor D-Sheet Piling 16.1

Ontwerp van Diepwanden en Damwanden
Ontwikkeld door [redacted]

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Verificatie volgens NEN-EN 9997+C1:2012

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2 Overzicht

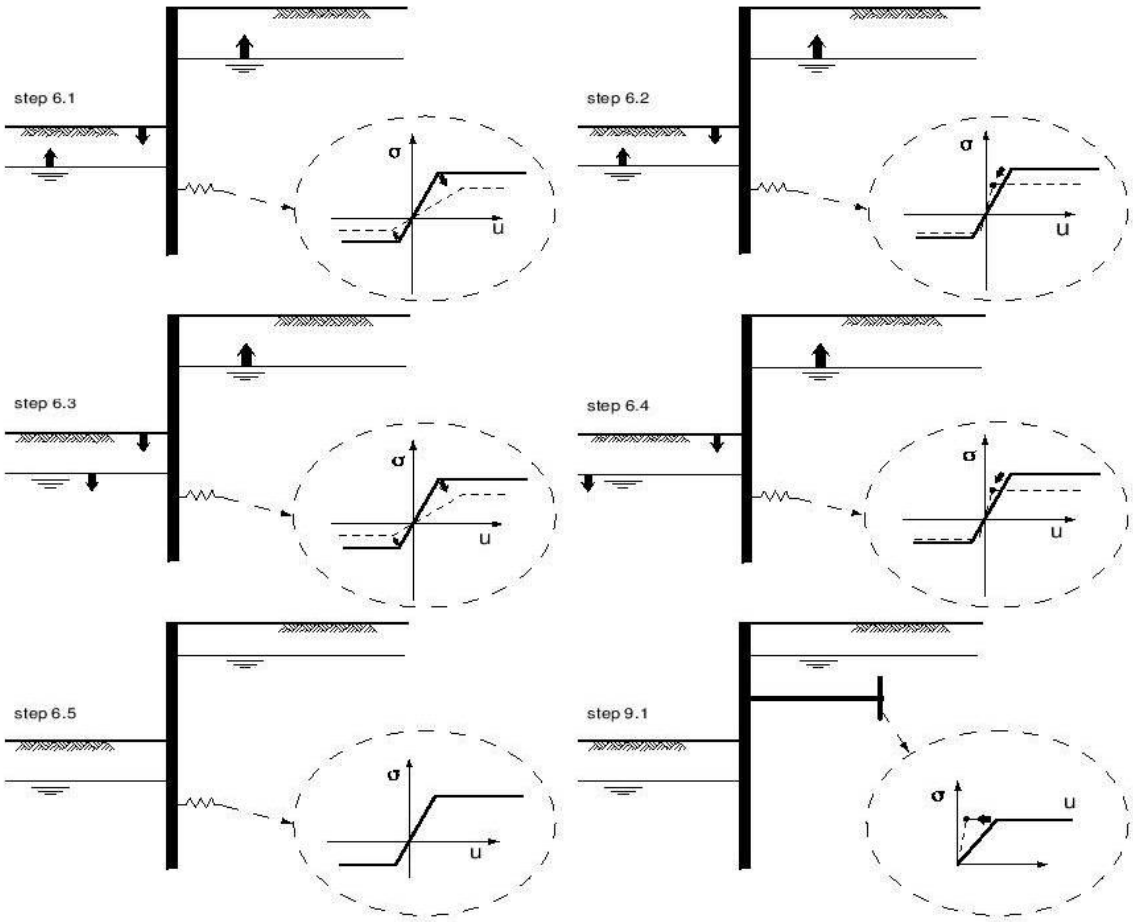
2.1 Overzicht per Fase en Toets

Fase nr.	Verificatie type	Verplaat-sing [mm]	Moment [kNm]	Dwars-kracht [kN]	Mob. perc. moment [%]	Mob. perc. weerstand [%]	Verticaal evenwicht
1	EC7(NL)-Stap 6.3		54.69	25.27	**0.0**	24.1	---
1	EC7(NL)-Stap 6.4		42.15	24.06	**0.0**	24.2	---
1	EC7(NL)-Stap 6.5	-4.8	16.59	14.28	**0.0**	17.6	---
1	EC7(NL)-Stap 6.5 * 1.20		19.91	17.14			
2	EC7(NL)-Stap 6.3		375.72	114.34	**0.0**	28.9	---
2	EC7(NL)-Stap 6.4		330.15	108.04	**0.0**	29.1	---
2	EC7(NL)-Stap 6.5	-111.5	288.88	103.38	**0.0**	21.7	---
2	EC7(NL)-Stap 6.5 * 1.20		346.66	124.05			
3	EC7(NL)-Stap 6.3		**478.12**	**132.67**	**0.0**	31.8	---
3	EC7(NL)-Stap 6.4		470.40	132.66	**0.0**	**32.3**	---
3	EC7(NL)-Stap 6.5	**-130.9**	320.04	105.81	**0.0**	22.7	---
3	EC7(NL)-Stap 6.5 * 1.20		384.05	126.97			
Max		**-130.9**	**478.12**	**132.67**	**0.0**	**32.3**	---

2.2 Waarschuwingen

Waarschuwing
In de onderstaande profielen is het verschil tussen de hoogste en de laagste phi per materiaal meer dan 15 graden. Volgens Cur-166 artikel 4.5.8 mag dan niet met Culmann volgens rechte glijvlakken gerekend worden. U kunt de phi reduceren of met methode Ka, Ko, Kp proberen te rekenen.
Profiel(en):
- Geldersekade 2331
- Geldersekade 2331-50% wos
- Geldersekade 2331-35% wo

2.3 CUR Verificatie Stappen



3 Invoergegevens voor alle Bouwfasen

3.1 Algemene Invoergegevens

Verificatie volgens NEN-EN 9997+C1:2012

Model	Damwand
Check verticaal evenwicht	Nee
Aantal bouwfasen	3
Soortelijk gewicht van water	9.81 kN/m³
Aantal takken van de veerkarakteristiek	3
Ontlasttak van de veerkarakteristiek	Nee
Elastische berekening	Ja

3.2 Damwandeigenschappen

Lengte	17.00 m
Bovenkant	0.50 m
Aantal secties	1

3.2.1 Algemene eigenschappen

Snede naam	Van [m]	Tot [m]	Materiaal type	Werkende breedte [m]
AZ 26 -700	-16.50	0.50	Staal	1.00

3.2.2 Stijfheid EI (elastisch gedrag)

Snede naam	Elastische stijfheid EI [kNm²/m']	Red. factor op EI [-]	Gecorrig. elas. stijfheid EI [kNm²/m']	Toelichting op reductiefactor
AZ 26 -700	1.2541E+05	1.00	1.2540E+05	

3.2.3 Maximale toelaatbare momenten

Snede naam	Mr;kar;el [kNm/m']	Modificatie factor [-]	Materiaal factor [-]	Red. factor toelaat. moment [-]	Mr;d;el [kNm/m']
AZ 26 -700	923.00	1.00	1.00	1.00	923.00

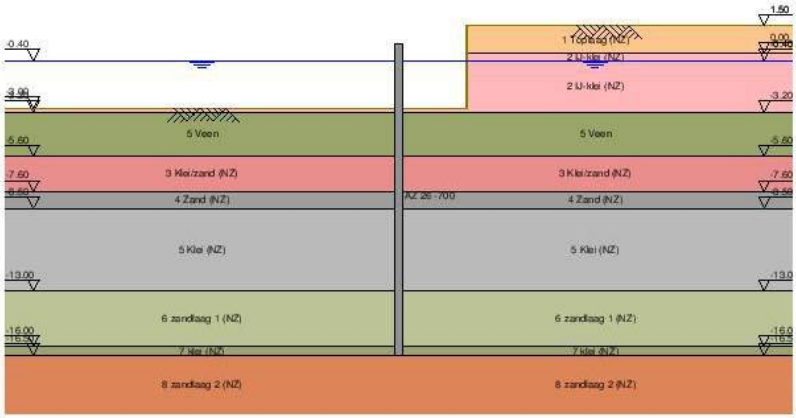
3.3 Rekenopties

Eerste fase beschrijft initiële situatie	Ja
Fijnheid berekening	Fijn
Reduceren delta('s) volgens CUR	Ja
Verificatie	EC7 NB NL - methode A: Partiële factoren (ontwerpwaarden) in alle fasen Eurocode 7 gebruik makend van de factoren zoals beschreven in de Nationale Annex van Nederland. Het valt onder ontwerp benadering III.
Gebruikte partiële factor set	RC 2
Factoren op belastingen	
- Permanente belasting, ongunstig	1.00
- Permanente belasting, gunstig	1.00
- Variabele belasting, ongunstig	1.10
- Variabele belasting, gunstig	0.00
Materiaalfactoren	
- Cohesie	1.25
- Tangens phi	1.18
- Delta (wandwrijvingshoek)	1.18
- Beddingsconstanten	1.30

Aanpassing geometrie		
- Toename kerende hoogte	0.00 %	Gebruiker gedefinieerd
- Maximum toename kerende hoogte	0.00 m	Gebruiker gedefinieerd
- Verlaging grondwaterniveau, passieve zijde	0.00 m	Gebruiker gedefinieerd
- Verhoging grondwaterniveau, actieve zijde	0.00 m	Gebruiker gedefinieerd

4 Overzicht Fase 1: Fase 1: Huidige situatie

Overzicht - Fase 1: Fase 1: Huidige situatie



5 Stap 6.3 Fase 1: Fase 1: Huidige situatie

5.1 Invoergegevens Links

5.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

5.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

5.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

5.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

5.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

5.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

5.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.33
5 Veen	16.15
3 Klei/zand (NZ)	57.15
4 Zand (NZ)	37.30
5 Klei (NZ)	196.11
6 zandlaag 1 (NZ)	166.78
7 klei (NZ)	38.09
8 zandlaag 2 (NZ)	0.00

5.4 Invoergegevens Rechts

5.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

5.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

5.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

5.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

5.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

5.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.66
3	-3.12	0.0	8.5	0.00	2.38	19.11
4	-3.16	0.0	8.8	0.00	2.38	14.83
5	-3.20	0.0	9.0	0.00	2.74	14.33
6	-3.20	0.0	4.3	0.00	2.74	6.44
7	-3.28	0.0	4.4	0.00	3.19	5.93
8	-3.36	0.0	4.5	0.00	3.48	5.37
9	-3.44	0.0	4.7	0.00	3.68	4.92
10	-3.52	0.0	4.8	0.00	3.82	4.55
11	-3.60	0.0	4.9	0.00	3.92	4.30
12	-3.60	0.0	5.0	0.00	3.92	4.11
13	-3.72	0.0	5.2	0.00	3.80	3.80
14	-3.85	0.0	5.4	0.00	3.45	3.45
15	-3.97	0.0	5.6	0.00	3.15	3.15
16	-4.09	0.0	5.9	0.00	2.89	2.89
17	-4.21	0.0	6.0	0.00	2.71	2.71
18	-4.21	0.0	6.1	0.00	2.60	2.60
19	-4.34	0.0	6.3	0.00	2.46	2.46
20	-4.46	0.0	6.5	0.00	2.28	2.28
21	-4.58	38.0	6.8	11.89	11.89	11.89
22	-4.71	54.1	7.0	15.30	15.30	15.30
23	-4.83	47.6	7.2	12.49	12.49	12.49
24	-4.83	45.1	7.2	11.48	11.48	11.48
25	-4.86	43.6	7.3	10.88	10.88	10.88
26	-4.90	41.7	7.4	10.13	10.13	10.13
27	-4.93	39.9	7.4	9.45	9.45	9.45
28	-4.97	38.2	7.5	8.82	8.82	8.82
29	-5.00	37.1	7.5	8.40	8.40	8.40
30	-5.00	35.8	7.6	7.96	7.96	7.96
31	-5.07	33.7	7.7	7.23	7.23	7.23
32	-5.13	31.1	7.8	6.36	6.36	6.36
33	-5.20	28.7	7.9	5.61	5.61	5.61
34	-5.26	26.6	8.0	4.96	4.96	4.96
35	-5.33	25.1	8.1	4.53	4.53	4.53
36	-5.33	24.2	8.2	4.29	4.29	4.29
37	-5.38	23.1	8.3	4.00	4.00	4.00
38	-5.44	21.8	8.4	3.63	3.63	3.63
39	-5.49	20.5	8.5	3.31	3.31	3.31
40	-5.55	19.3	8.6	3.01	3.01	3.01

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
41	-5.60	18.9	8.6	2.78	2.78	2.78
42	-5.60	16.1	32.4	2.29	2.29	4.61
43	-5.65	16.2	31.1	2.20	2.20	4.24
44	-5.69	16.3	31.5	2.09	2.09	4.04
45	-5.74	17.7	33.9	2.15	2.15	4.12
46	-5.78	19.9	36.5	2.29	2.29	4.21
47	-5.83	20.0	38.5	2.22	2.22	4.29
48	-5.83	20.1	41.1	2.14	2.14	4.38
49	-5.95	20.3	47.3	1.98	1.98	4.62
50	-6.06	20.6	56.9	1.81	1.81	5.00
51	-6.18	20.9	68.5	1.67	1.67	5.47
52	-6.30	21.2	82.8	1.55	1.55	6.06
53	-6.42	21.5	95.7	1.48	1.48	6.59
54	-6.42	21.6	105.7	1.43	1.43	7.00
55	-6.53	21.9	123.5	1.37	1.37	7.73
56	-6.65	22.2	153.4	1.30	1.30	8.95
57	-6.77	22.5	193.5	1.23	1.23	10.58
58	-6.88	22.8	248.8	1.17	1.17	12.79
59	-7.00	23.1	304.9	1.14	1.14	15.00
60	-7.00	23.2	354.3	1.11	1.11	16.93
61	-7.12	23.5	455.4	1.08	1.08	20.87
62	-7.24	23.8	665.0	1.04	1.04	28.89
63	-7.36	24.2	1050.0	1.00	1.00	43.37
64	-7.48	24.5	1237.6	0.97	0.98	48.72
65	-7.60	24.8	145.5	0.93	0.94	5.47
66	-7.60	27.7	154.1	1.02	1.02	5.67
67	-7.65	27.8	155.7	1.01	1.01	5.64
68	-7.69	27.9	157.8	0.99	0.99	5.59
69	-7.74	28.1	159.8	0.97	0.97	5.54
70	-7.78	28.2	161.9	0.96	0.96	5.49
71	-7.83	28.3	163.4	0.95	0.95	5.46
72	-7.83	28.4	164.8	0.94	0.94	5.43
73	-7.90	28.6	167.2	0.92	0.92	5.38
74	-7.98	28.8	170.4	0.90	0.90	5.32
75	-8.05	29.1	186.7	0.88	0.88	5.65
76	-8.13	29.3	210.5	0.86	0.86	6.19
77	-8.20	29.5	229.9	0.85	0.85	6.61
78	-8.20	29.6	242.5	0.84	0.84	6.89
79	-8.26	29.7	260.2	0.83	0.83	7.27
80	-8.32	29.9	286.0	0.82	0.82	7.81
81	-8.38	30.1	314.4	0.81	0.81	8.41
82	-8.44	30.3	341.8	0.79	0.79	8.95
83	-8.50	30.5	333.7	0.79	0.79	8.64
84	-8.50	28.9	296.0	0.74	0.77	7.59
85	-8.58	29.9	295.3	0.75	0.80	7.45
86	-8.65	27.9	294.6	0.69	0.79	7.26
87	-8.73	26.7	294.2	0.64	0.79	7.10
88	-8.80	25.6	294.0	0.60	0.78	6.94
89	-8.88	24.8	294.1	0.58	0.77	6.83
90	-8.88	24.5	294.1	0.57	0.77	6.79
91	-8.90	24.2	294.2	0.56	0.77	6.76
92	-8.93	24.0	294.2	0.55	0.77	6.72
93	-8.95	23.7	294.3	0.54	0.77	6.68
94	-8.98	23.4	294.4	0.53	0.76	6.64
95	-9.00	23.2	294.5	0.52	0.76	6.61
96	-9.00	22.9	294.7	0.51	0.76	6.57
97	-9.08	21.5	295.1	0.47	0.76	6.48
98	-9.15	21.7	295.8	0.47	0.75	6.37
99	-9.23	21.8	296.6	0.46	0.74	6.27
100	-9.30	22.1	297.5	0.46	0.74	6.17
101	-9.38	22.3	298.3	0.46	0.73	6.11
102	-9.38	22.4	298.6	0.46	0.73	6.08
103	-9.38	22.4	298.6	0.46	0.73	6.08
104	-9.38	22.4	298.6	0.46	0.73	6.08

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
105	-9.39	22.4	298.7	0.46	0.73	6.08
106	-9.39	22.4	298.7	0.46	0.73	6.07
107	-9.39	22.4	298.7	0.46	0.73	6.07
108	-9.39	22.4	298.8	0.46	0.73	6.07
109	-9.41	22.5	299.0	0.46	0.73	6.05
110	-9.43	22.6	299.4	0.45	0.73	6.02
111	-9.46	22.7	299.7	0.45	0.73	6.00
112	-9.48	22.8	300.1	0.45	0.73	5.98
113	-9.50	22.8	300.3	0.45	0.73	5.96
114	-9.50	22.9	300.6	0.45	0.73	5.94
115	-9.56	23.1	301.4	0.45	0.72	5.89
116	-9.62	23.3	302.4	0.45	0.72	5.84
117	-9.67	23.5	303.4	0.45	0.72	5.78
118	-9.73	23.8	304.5	0.45	0.71	5.73
119	-9.79	23.9	305.3	0.45	0.71	5.69
120	-9.79	24.0	305.7	0.45	0.71	5.68
121	-9.81	24.1	306.0	0.45	0.71	5.67
122	-9.83	24.1	306.3	0.45	0.71	5.65
123	-9.84	24.2	306.7	0.44	0.71	5.64
124	-9.86	24.3	297.8	0.44	0.70	5.45
125	-9.88	24.3	302.3	0.44	0.70	5.52
126	-9.88	24.3	302.5	0.44	0.70	5.52
127	-9.88	24.3	307.5	0.44	0.70	5.61
128	-9.88	24.3	357.4	0.44	0.70	6.51
129	-9.89	24.4	311.8	0.44	0.70	5.68
130	-9.89	24.4	248.8	0.44	0.70	4.53
131	-9.89	24.4	305.6	0.44	0.70	5.56
132	-9.89	24.4	316.7	0.44	0.70	5.74
133	-9.97	24.7	343.0	0.44	0.70	6.14
134	-10.05	25.0	369.1	0.44	0.69	6.50
135	-10.13	25.3	363.6	0.44	0.69	6.31
136	-10.21	25.6	363.0	0.44	0.69	6.20
137	-10.29	25.8	362.8	0.44	0.68	6.13
138	-10.29	25.9	362.8	0.44	0.68	6.10
139	-10.31	26.0	362.8	0.44	0.68	6.08
140	-10.33	26.0	362.8	0.43	0.68	6.06
141	-10.34	26.1	362.9	0.43	0.68	6.04
142	-10.36	26.2	362.9	0.43	0.68	6.02
143	-10.38	26.2	363.0	0.43	0.68	6.01
144	-10.38	26.2	363.0	0.43	0.68	6.00
145	-10.38	26.3	363.0	0.43	0.68	6.00
146	-10.38	26.3	363.0	0.43	0.68	6.00
147	-10.39	26.3	363.0	0.43	0.68	6.00
148	-10.39	26.3	363.0	0.43	0.68	5.99
149	-10.39	26.3	363.0	0.43	0.68	5.99
150	-10.39	26.4	363.1	0.43	0.68	5.97
151	-10.47	26.6	363.5	0.43	0.68	5.91
152	-10.55	26.9	364.3	0.43	0.67	5.84
153	-10.64	27.2	340.2	0.43	0.67	5.37
154	-10.72	27.5	314.3	0.43	0.67	4.89
155	-10.80	27.8	316.0	0.43	0.66	4.87
156	-10.80	27.8	316.6	0.43	0.66	4.86
157	-10.81	27.9	316.7	0.43	0.66	4.86
158	-10.81	27.9	316.9	0.43	0.66	4.85
159	-10.82	27.9	317.1	0.43	0.66	4.85
160	-10.82	27.9	317.3	0.43	0.66	4.85
161	-10.83	27.9	317.4	0.43	0.66	4.85
162	-10.83	28.0	318.1	0.43	0.66	4.84
163	-10.92	28.3	320.0	0.43	0.66	4.81
164	-11.01	28.6	322.6	0.42	0.65	4.78
165	-11.11	29.0	325.2	0.42	0.65	4.75
166	-11.20	29.3	327.8	0.42	0.65	4.72
167	-11.29	29.6	329.8	0.42	0.65	4.69
168	-11.29	29.7	330.6	0.42	0.65	4.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
169	-11.31	29.7	331.0	0.42	0.65	4.68
170	-11.33	29.8	331.5	0.42	0.64	4.67
171	-11.34	29.9	332.0	0.42	0.64	4.67
172	-11.36	29.9	332.5	0.42	0.64	4.66
173	-11.38	30.0	332.9	0.42	0.64	4.66
174	-11.38	30.0	333.0	0.42	0.64	4.66
175	-11.38	30.0	333.1	0.42	0.64	4.66
176	-11.38	30.0	333.1	0.42	0.64	4.66
177	-11.39	30.0	333.2	0.42	0.64	4.66
178	-11.39	30.0	333.3	0.42	0.64	4.65
179	-11.39	30.0	333.3	0.42	0.64	4.65
180	-11.39	30.0	333.5	0.42	0.64	4.65
181	-11.41	30.1	333.9	0.42	0.64	4.65
182	-11.43	30.2	334.6	0.42	0.64	4.64
183	-11.46	30.3	335.2	0.42	0.64	4.63
184	-11.48	30.4	335.8	0.42	0.64	4.63
185	-11.50	30.4	336.3	0.42	0.64	4.62
186	-11.50	31.8	337.0	0.44	0.64	4.61
187	-11.58	30.6	338.7	0.41	0.64	4.60
188	-11.66	29.0	340.9	0.39	0.64	4.58
189	-11.73	29.9	343.2	0.40	0.63	4.55
190	-11.81	30.2	345.4	0.40	0.63	4.53
191	-11.89	30.4	347.1	0.40	0.63	4.52
192	-11.89	30.5	348.3	0.40	0.63	4.51
193	-11.97	30.7	350.0	0.39	0.63	4.49
194	-12.05	31.0	352.3	0.39	0.63	4.47
195	-12.13	31.3	354.7	0.39	0.62	4.46
196	-12.21	31.6	357.0	0.39	0.62	4.44
197	-12.29	31.8	358.7	0.39	0.62	4.42
198	-12.29	31.9	359.5	0.39	0.62	4.42
199	-12.31	32.0	359.8	0.39	0.62	4.42
200	-12.33	32.1	360.4	0.39	0.62	4.41
201	-12.34	32.1	360.9	0.39	0.62	4.41
202	-12.36	32.2	361.4	0.39	0.62	4.40
203	-12.38	32.2	361.8	0.39	0.62	4.40
204	-12.38	32.3	362.0	0.39	0.62	4.40
205	-12.38	32.3	362.0	0.39	0.62	4.40
206	-12.38	32.3	362.1	0.39	0.62	4.40
207	-12.39	32.3	362.1	0.39	0.62	4.40
208	-12.39	32.3	362.2	0.39	0.62	4.40
209	-12.39	32.3	362.2	0.39	0.62	4.40
210	-12.39	32.3	362.4	0.39	0.62	4.40
211	-12.41	32.4	362.9	0.39	0.62	4.39
212	-12.43	32.4	363.5	0.39	0.62	4.39
213	-12.46	32.5	364.2	0.39	0.62	4.38
214	-12.48	32.6	364.8	0.39	0.62	4.38
215	-12.50	32.7	365.3	0.39	0.62	4.38
216	-12.50	32.7	365.9	0.39	0.62	4.37
217	-12.56	32.9	367.2	0.39	0.61	4.36
218	-12.62	33.1	368.8	0.39	0.61	4.35
219	-12.67	35.3	370.5	0.41	0.61	4.34
220	-12.73	35.5	372.2	0.41	0.61	4.33
221	-12.79	35.7	373.5	0.41	0.61	4.32
222	-12.79	35.8	374.3	0.41	0.61	4.32
223	-12.83	35.9	375.2	0.41	0.61	4.31
224	-12.87	36.0	376.4	0.41	0.61	4.30
225	-12.92	36.2	377.7	0.41	0.61	4.30
226	-12.96	36.3	378.9	0.41	0.61	4.29
227	-13.00	36.4	379.8	0.41	0.60	4.28
228	-13.00	35.9	434.7	0.40	0.60	4.88
229	-13.04	36.0	435.9	0.40	0.56	4.87
230	-13.08	36.1	437.5	0.40	0.56	4.87
231	-13.12	36.3	439.0	0.40	0.56	4.86
232	-13.16	36.4	440.6	0.40	0.56	4.85

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
233	-13.20	36.5	441.8	0.40	0.56	4.85
234	-13.20	36.6	442.4	0.40	0.56	4.84
235	-13.23	36.6	443.2	0.40	0.56	4.84
236	-13.25	36.7	444.2	0.40	0.56	4.83
237	-13.28	36.8	445.3	0.40	0.56	4.83
238	-13.30	36.9	446.3	0.40	0.56	4.82
239	-13.33	37.0	447.1	0.40	0.56	4.82
240	-13.33	37.1	448.8	0.40	0.56	4.81
241	-13.48	37.5	453.2	0.40	0.56	4.80
242	-13.62	38.0	459.0	0.40	0.55	4.77
243	-13.77	38.6	464.9	0.39	0.55	4.75
244	-13.91	39.1	470.9	0.39	0.55	4.73
245	-14.06	39.5	475.3	0.39	0.55	4.71
246	-14.06	39.7	478.3	0.39	0.55	4.70
247	-14.21	40.1	482.8	0.39	0.55	4.69
248	-14.35	40.6	488.8	0.39	0.54	4.67
249	-14.50	41.1	494.8	0.39	0.54	4.65
250	-14.64	41.6	500.8	0.39	0.54	4.64
251	-14.79	42.0	505.4	0.38	0.54	4.63
252	-14.79	42.2	501.5	0.38	0.54	4.57
253	-14.81	42.2	509.4	0.38	0.54	4.64
254	-14.83	42.3	514.3	0.38	0.54	4.67
255	-14.84	42.3	543.9	0.38	0.54	4.93
256	-14.86	42.4	563.8	0.38	0.54	5.10
257	-14.88	42.5	551.3	0.38	0.54	4.98
258	-14.88	42.5	551.7	0.38	0.54	4.98
259	-14.90	42.6	552.4	0.38	0.54	4.98
260	-14.93	42.6	553.3	0.38	0.54	4.98
261	-14.95	42.7	554.2	0.38	0.54	4.97
262	-14.98	42.8	555.2	0.38	0.54	4.97
263	-15.00	42.9	555.9	0.38	0.54	4.97
264	-15.00	43.0	556.9	0.38	0.54	4.96
265	-15.08	43.2	559.1	0.38	0.53	4.95
266	-15.16	43.4	562.2	0.38	0.53	4.94
267	-15.23	43.7	565.2	0.38	0.53	4.93
268	-15.31	44.0	568.3	0.38	0.53	4.92
269	-15.39	44.2	570.6	0.38	0.53	4.91
270	-15.39	44.3	571.6	0.38	0.53	4.91
271	-15.41	44.3	572.2	0.38	0.53	4.90
272	-15.43	44.4	573.1	0.38	0.53	4.90
273	-15.46	44.5	574.0	0.38	0.53	4.90
274	-15.48	44.6	574.8	0.38	0.53	4.89
275	-15.50	44.6	575.5	0.38	0.53	4.89
276	-15.50	44.7	576.3	0.38	0.53	4.89
277	-15.56	44.8	578.0	0.38	0.53	4.88
278	-15.62	45.0	580.3	0.38	0.53	4.88
279	-15.67	45.2	582.7	0.38	0.53	4.87
280	-15.73	45.5	585.0	0.38	0.53	4.86
281	-15.79	45.6	586.7	0.38	0.53	4.86
282	-15.79	45.7	587.4	0.38	0.53	4.86
283	-15.80	45.7	587.6	0.38	0.53	4.85
284	-15.81	45.7	588.0	0.38	0.53	4.85
285	-15.81	45.7	588.3	0.38	0.53	4.85
286	-15.82	45.8	588.6	0.38	0.53	4.85
287	-15.83	45.8	588.8	0.38	0.53	4.85
288	-15.83	45.8	589.0	0.38	0.53	4.85
289	-15.84	45.8	589.4	0.38	0.53	4.85
290	-15.85	45.9	589.9	0.38	0.53	4.85
291	-15.87	45.9	590.4	0.38	0.53	4.85
292	-15.88	46.0	590.9	0.38	0.53	4.85
293	-15.89	46.0	591.2	0.38	0.53	4.84
294	-15.89	46.0	591.6	0.38	0.53	4.84
295	-15.91	46.1	592.2	0.38	0.53	4.84
296	-15.93	46.2	593.1	0.38	0.53	4.84

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
297	-15.96	46.2	594.0	0.38	0.53	4.84
298	-15.98	46.3	594.9	0.38	0.53	4.83
299	-16.00	46.4	595.6	0.38	0.53	4.83
300	-16.00	52.5	457.7	0.43	0.53	3.71
301	-16.06	52.6	458.5	0.43	0.62	3.71
302	-16.12	52.8	459.6	0.43	0.62	3.70
303	-16.17	53.0	460.8	0.43	0.62	3.70
304	-16.23	53.2	461.9	0.42	0.62	3.69
305	-16.29	53.3	462.7	0.42	0.62	3.69
306	-16.29	53.4	463.1	0.42	0.62	3.69
307	-16.30	53.4	463.2	0.42	0.62	3.69
308	-16.31	53.4	463.3	0.42	0.62	3.68
309	-16.31	53.4	463.5	0.42	0.62	3.68
310	-16.32	53.5	463.7	0.42	0.62	3.68
311	-16.33	53.5	463.8	0.42	0.62	3.68
312	-16.33	53.5	463.9	0.42	0.62	3.68
313	-16.34	53.5	464.0	0.42	0.62	3.68
314	-16.35	53.6	464.3	0.42	0.62	3.68
315	-16.37	53.6	464.5	0.42	0.62	3.68
316	-16.38	53.6	464.7	0.42	0.62	3.68
317	-16.39	53.7	464.9	0.42	0.62	3.68
318	-16.39	53.7	465.1	0.42	0.62	3.68
319	-16.41	53.8	465.4	0.42	0.62	3.68
320	-16.43	53.8	465.8	0.42	0.62	3.67
321	-16.46	53.9	466.3	0.42	0.62	3.67
322	-16.48	54.0	466.7	0.42	0.62	3.67
323	-16.50	54.0	467.0	0.42	0.61	3.67

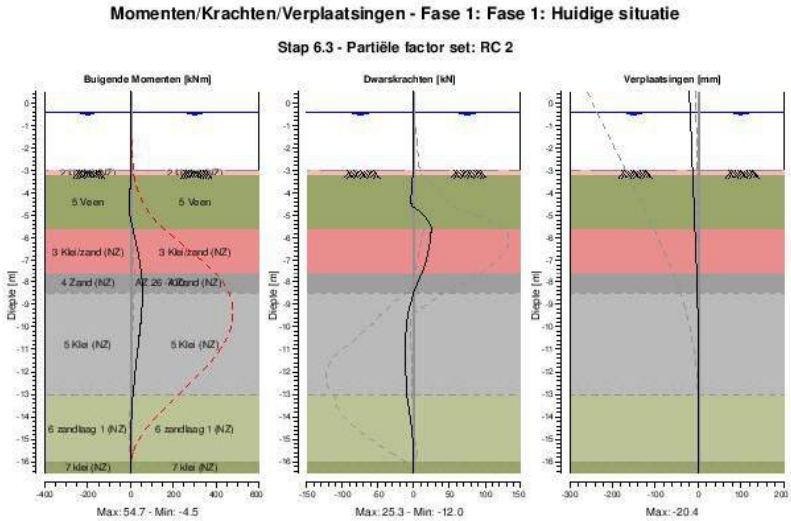
5.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	0.00
5 Veen	42.75
3 Klei/zand (NZ)	43.09
4 Zand (NZ)	25.66
5 Klei (NZ)	186.67
6 zandlaag 1 (NZ)	176.58
7 klei (NZ)	38.16
8 zandlaag 2 (NZ)	0.00

5.7 Berekeningsresultaten

Aantal iteraties: 4

5.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



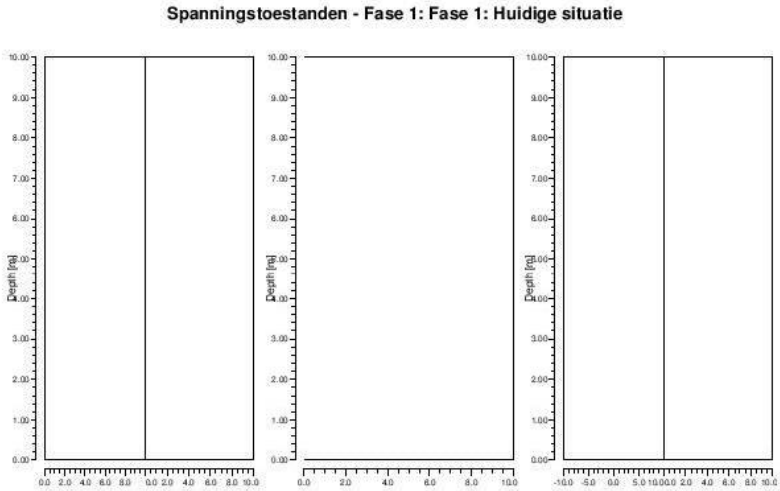
5.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-20.4**
1	0.40	0.00	0.00	-20.2
2	0.40	0.00	0.00	-20.2
2	0.20	0.00	0.00	-19.8
3	0.20	0.00	0.00	-19.8
3	0.17	0.00	0.00	-19.7
4	0.17	0.00	0.00	-19.7
4	0.00	0.00	0.00	-19.3
5	0.00	0.00	0.00	-19.3
5	-0.10	0.00	0.00	-19.1
6	-0.10	0.00	0.00	-19.1
6	-0.20	0.00	0.00	-18.9
7	-0.20	0.00	0.00	-18.9
7	-0.33	0.00	0.00	-18.6
8	-0.33	0.00	0.00	-18.6
8	-0.40	0.00	0.00	-18.5
9	-0.40	0.00	0.00	-18.5
9	-0.60	0.00	0.00	-18.0
10	-0.60	0.00	0.00	-18.0
10	-1.33	0.00	0.00	-16.5
11	-1.33	0.00	0.00	-16.5
11	-1.50	0.00	0.00	-16.1
12	-1.50	0.00	0.00	-16.1
12	-1.60	0.00	0.00	-15.9
13	-1.60	0.00	0.00	-15.9
13	-1.83	0.00	0.00	-15.4
14	-1.83	0.00	0.00	-15.4
14	-2.00	0.00	0.00	-15.0
15	-2.00	0.00	0.00	-15.0
15	-2.15	0.00	0.00	-14.7
16	-2.15	0.00	0.00	-14.7

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-14.6
17	-2.20	0.00	0.00	-14.6
17	-2.33	0.00	0.00	-14.3
18	-2.33	0.00	0.00	-14.3
18	-2.60	0.00	0.00	-13.7
19	-2.60	0.00	0.00	-13.7
19	-3.00	0.00	0.00	-12.9
20	-3.00	0.00	0.00	-12.9
20	-3.20	-0.12	-1.33	-12.4
21	-3.20	-0.12	-1.33	-12.4
21	-3.60	-1.02	-3.14	-11.6
22	-3.60	-1.02	-3.13	-11.6
22	-4.21	-3.13	-3.70	-10.2
23	-4.21	-3.13	-3.70	-10.2
23	-4.83	-3.72	8.49	-8.9
24	-4.83	-3.72	8.49	-8.9
24	-5.00	-1.76	14.31	-8.5
25	-5.00	-1.76	14.31	-8.5
25	-5.33	4.31	21.77	-7.8
26	-5.33	4.31	21.77	-7.8
26	-5.60	10.70	**25.27**	-7.2
27	-5.60	10.70	**25.27**	-7.2
27	-5.83	16.36	24.09	-6.7
28	-5.83	16.36	24.09	-6.7
28	-6.42	29.77	21.55	-5.5
29	-6.42	29.77	21.55	-5.5
29	-7.00	41.22	17.34	-4.3
30	-7.00	41.22	17.34	-4.3
30	-7.60	49.87	11.21	-3.3
31	-7.60	49.87	11.21	-3.3
31	-7.83	52.14	8.41	-2.9
32	-7.83	52.14	8.40	-2.9
32	-8.20	54.28	3.24	-2.4
33	-8.20	54.28	3.24	-2.4
33	-8.50	**54.69**	-0.43	-2.0
34	-8.50	**54.69**	-0.43	-2.0
34	-8.88	53.90	-3.86	-1.5
35	-8.88	53.90	-3.87	-1.5
35	-9.00	53.38	-4.92	-1.4
36	-9.00	53.38	-4.92	-1.4
36	-9.38	50.96	-7.66	-1.0
37	-9.38	50.96	-7.66	-1.0
37	-9.39	50.88	-7.73	-1.0
38	-9.39	50.88	-7.73	-1.0
38	-9.50	50.00	-8.36	-0.9
39	-9.50	50.00	-8.36	-0.9
39	-9.79	47.36	-9.74	-0.7
40	-9.79	47.36	-9.74	-0.7
40	-9.88	46.47	-10.08	-0.6
41	-9.88	46.47	-10.08	-0.6
41	-9.89	46.37	-10.12	-0.6
42	-9.89	46.37	-10.12	-0.6
42	-10.29	42.07	-11.25	-0.4
43	-10.29	42.07	-11.25	-0.4
43	-10.38	41.05	-11.42	-0.3
44	-10.38	41.05	-11.42	-0.3
44	-10.39	40.94	-11.44	-0.3
45	-10.39	40.94	-11.44	-0.3
45	-10.80	36.13	-11.91	-0.1
46	-10.80	36.13	-11.91	-0.1
46	-10.83	35.78	-11.93	-0.1
47	-10.83	35.78	-11.93	-0.1
47	-11.29	30.27	-11.94	0.0
48	-11.29	30.27	-11.94	0.0
48	-11.38	29.20	-11.90	0.1

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	29.20	-11.90	0.1
49	-11.39	29.08	-11.89	0.1
50	-11.39	29.08	-11.89	0.1
50	-11.50	27.77	-11.82	0.1
51	-11.50	27.77	-11.82	0.1
51	-11.89	23.23	-11.45	0.2
52	-11.89	23.23	-11.45	0.2
52	-12.29	18.75	-10.94	0.2
53	-12.29	18.75	-10.94	0.2
53	-12.38	17.77	-10.81	0.2
54	-12.38	17.77	-10.81	0.2
54	-12.39	17.66	-10.79	0.2
55	-12.39	17.66	-10.79	0.2
55	-12.50	16.48	-10.63	0.2
56	-12.50	16.48	-10.63	0.2
56	-12.79	13.46	-10.19	0.2
57	-12.79	13.46	-10.19	0.2
57	-13.00	11.35	-9.87	0.2
58	-13.00	11.35	-9.87	0.2
58	-13.20	9.48	-8.85	0.2
59	-13.20	9.48	-8.85	0.2
59	-13.33	8.38	-8.19	0.2
60	-13.33	8.38	-8.19	0.2
60	-14.06	3.66	-4.83	0.2
61	-14.06	3.66	-4.83	0.2
61	-14.79	1.13	-2.24	0.1
62	-14.79	1.13	-2.24	0.1
62	-14.88	0.94	-1.99	0.1
63	-14.88	0.94	-1.99	0.1
63	-15.00	0.72	-1.67	0.1
64	-15.00	0.72	-1.67	0.1
64	-15.39	0.25	-0.83	0.1
65	-15.39	0.25	-0.83	0.1
65	-15.50	0.17	-0.64	0.1
66	-15.50	0.17	-0.64	0.1
66	-15.79	0.04	-0.25	0.0
67	-15.79	0.04	-0.25	0.0
67	-15.83	0.03	-0.21	0.0
68	-15.83	0.03	-0.21	0.0
68	-15.89	0.02	-0.15	0.0
69	-15.89	0.02	-0.15	0.0
69	-16.00	0.01	-0.06	0.0
70	-16.00	0.01	-0.06	0.0
70	-16.29	0.00	-0.01	0.0
71	-16.29	0.00	-0.01	0.0
71	-16.33	0.00	0.00	0.0
72	-16.33	0.00	0.00	0.0
72	-16.39	0.00	0.00	0.0
73	-16.39	0.00	0.00	0.0
73	-16.50	0.00	0.00	0.0
Max		**54.69**	**25.27**	**-20.4**
Max incl. tussenknopen		54.69	25.27	-20.4

5.7.3 Grafieken van Spanningen



5.7.4 Spanningen

Knoop nummer	Niveau [m]	Links Eff. spanning [kN/m²]	Links Water span. [kN/m²]	Links Stat*	Links Mob* [%]	Rechts Eff. spanning [kN/m²]	Rechts Water span. [kN/m²]	Rechts Stat*	Rechts Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	8.48	27.47	3	84	0.00	27.47	A	
21	-3.20	4.42	27.47	3	90	0.00	27.47	A	
21	-3.60	5.36	31.39	P		3.31	31.39	2	
22	-3.60	5.44	31.39	P		4.15	31.39	2	
22	-4.21	6.35	37.43	P		5.50	37.43	3	
23	-4.21	6.46	37.43	P		5.61	37.43	3	
23	-4.83	7.45	43.46	P		48.88	43.46	A	
24	-4.83	7.52	43.46	P		46.29	43.46	A	
24	-5.00	7.80	45.13	P		37.94	45.13	A	
25	-5.00	7.84	45.13	P		36.60	45.13	A	
25	-5.33	8.38	48.36	P		25.53	48.36	A	
26	-5.33	8.44	48.36	P		24.66	48.36	A	
26	-5.60	8.35	51.01	P		18.52	51.01	A	
27	-5.60	22.83	51.01	2	74	15.64	51.01	A	50
27	-5.83	22.51	53.27	2	73	19.52	53.27	A	52
28	-5.83	23.19	53.27	2	73	19.64	53.27	A	49
28	-6.42	26.61	59.01	2	61	21.17	59.01	A	22
29	-6.42	27.33	59.01	2	61	21.34	59.01	A	20
29	-7.00	31.29	64.75	2	55	22.86	64.75	A	8
30	-7.00	31.99	64.75	2	55	23.03	64.75	A	7
30	-7.60	35.54	70.63	2	51	24.31	70.63	A	
31	-7.60	38.31	70.63	2	53	27.04	70.63	A	18
31	-7.83	40.99	72.89	2	51	27.73	72.89	A	17
32	-7.83	41.55	72.89	2	51	27.83	72.89	A	17
32	-8.20	41.91	76.52	1	44	28.95	76.52	A	13
33	-8.20	42.31	76.52	1	44	29.06	76.52	A	12
33	-8.50	41.46	79.46	1	38	30.11	79.46	A	9
34	-8.50	35.77	79.46	1	36	28.59	79.46	A	
34	-8.88	37.44	82.34	1	34	28.27	82.34	1	
35	-8.88	37.69	82.34	1	34	28.50	82.34	1	
35	-9.00	37.81	83.25	1	33	29.43	83.25	1	
36	-9.00	38.05	83.25	1	33	29.65	83.25	1	
36	-9.38	38.55	86.14	1	31	32.45	86.14	1	
37	-9.38	38.73	86.14	1	31	32.61	86.14	1	
37	-9.39	38.74	86.21	1	31	32.68	86.21	1	
38	-9.39	38.80	86.21	1	31	32.74	86.21	1	
38	-9.50	38.97	87.05	1	30	33.51	87.05	1	
39	-9.50	39.16	87.05	1	30	33.67	87.05	1	
39	-9.79	39.68	89.25	1	29	35.63	89.25	1	
40	-9.79	39.85	89.25	1	29	35.78	89.25	1	
40	-9.88	40.03	89.93	1	29	36.37	89.93	1	
41	-9.88	40.07	89.93	1	29	36.41	89.93	1	
41	-9.89	40.09	90.01	1	28	36.47	90.01	1	
42	-9.89	40.27	90.01	1	28	36.63	90.01	1	
42	-10.29	41.17	93.04	1	27	39.11	93.04	1	
43	-10.29	41.38	93.04	1	27	39.30	93.04	1	
43	-10.38	41.61	93.73	1	27	39.83	93.73	1	
44	-10.38	41.65	93.73	1	27	39.87	93.73	1	
44	-10.39	41.67	93.80	1	27	39.92	93.80	1	
45	-10.39	41.85	93.80	1	27	40.08	93.80	1	
45	-10.80	42.97	96.91	1	26	42.39	96.91	1	
46	-10.80	43.15	96.91	1	26	42.55	96.91	1	
46	-10.83	43.24	97.14	1	26	42.72	97.14	1	
47	-10.83	43.44	97.14	1	26	42.90	97.14	1	
47	-11.29	44.86	100.63	1		45.29	100.63	1	14

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
48	-11.29	45.08	100.63	1		45.48	100.63	1	14
48	-11.38	45.38	101.31	1		45.93	101.31	1	14
49	-11.38	45.42	101.31	1		45.96	101.31	1	14
49	-11.39	45.45	101.39	1		46.01	101.39	1	14
50	-11.39	45.50	101.39	1		46.05	101.39	1	14
50	-11.50	45.87	102.22	1		46.59	102.22	1	14
51	-11.50	46.06	102.22	1		46.77	102.22	1	14
51	-11.89	47.44	105.18	1		48.60	105.18	1	14
52	-11.89	47.74	105.18	1		48.87	105.18	1	14
52	-12.29	49.24	108.22	1		50.66	108.22	1	14
53	-12.29	49.42	108.22	1		50.82	108.22	1	14
53	-12.38	49.77	108.90	1		51.22	108.90	1	14
54	-12.38	49.80	108.90	1		51.25	108.90	1	14
54	-12.39	49.84	108.98	1		51.29	108.98	1	14
55	-12.39	49.89	108.98	1		51.33	108.98	1	14
55	-12.50	50.32	109.81	1		51.81	109.81	1	14
56	-12.50	50.46	109.81	1		51.94	109.81	1	14
56	-12.79	51.62	112.01	1		53.16	112.01	1	14
57	-12.79	51.80	112.01	1		53.32	112.01	1	14
57	-13.00	52.53	113.61	1		54.10	113.61	1	14
58	-13.00	50.88	113.61	1		56.05	113.61	1	13
58	-13.20	48.22	115.57	1		53.31	115.57	1	12
59	-13.20	48.34	115.57	1		53.42	115.57	1	12
59	-13.33	48.93	116.84	1		53.93	116.84	1	12
60	-13.33	49.25	116.84	1		54.21	116.84	1	12
60	-14.06	52.73	124.00	1		56.89	124.00	1	12
61	-14.06	53.26	124.00	1		57.35	124.00	1	12
61	-14.79	56.92	131.17	1		59.86	131.17	1	12
62	-14.79	57.21	131.17	1		60.11	131.17	1	12
62	-14.88	57.66	132.05	1		60.41	132.05	1	11
63	-14.88	57.74	132.05	1		60.48	132.05	1	11
63	-15.00	58.35	133.23	1		60.88	133.23	1	11
64	-15.00	58.52	133.23	1		61.04	133.23	1	11
64	-15.39	60.51	137.05	1		62.34	137.05	1	11
65	-15.39	60.68	137.05	1		62.49	137.05	1	11
65	-15.50	61.24	138.13	1		62.86	138.13	1	11
66	-15.50	61.38	138.13	1		62.98	138.13	1	11
66	-15.79	62.86	140.98	1		63.95	140.98	1	11
67	-15.79	62.97	140.98	1		64.04	140.98	1	11
67	-15.83	63.18	141.37	1		64.18	141.37	1	11
68	-15.83	63.21	141.37	1		64.21	141.37	1	11
68	-15.89	63.52	141.96	1		64.41	141.96	1	11
69	-15.89	63.58	141.96	1		64.46	141.96	1	11
69	-16.00	64.18	143.04	1		64.86	143.04	1	11
70	-16.00	64.48	143.04	1		64.76	143.04	1	14
70	-16.29	76.95	145.88	1		77.06	145.88	1	17
71	-16.29	77.04	145.88	1		77.14	145.88	1	17
71	-16.33	77.20	146.27	1	27	77.28	146.27	1	
72	-16.33	77.23	146.27	1	27	77.30	146.27	1	
72	-16.39	77.47	146.86	1	27	77.50	146.86	1	
73	-16.39	77.51	146.86	1	27	77.55	146.86	1	
73	-16.50	77.90	147.94	1	27	77.88	147.94	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

5.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links	Rechts
	[kN]	[kN]
Effectief	512.9	512.9
Water	1213.9	1213.9
Totaal	1726.8	1726.9

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	512.91 kN
Percentage gemobiliseerde weerstand	24.1 %

6 Stap 6.4 Fase 1: Fase 1: Huidige situatie

6.1 Invoergegevens Links

6.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

6.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

6.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

6.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

6.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

6.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

6.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.51
5 Veen	16.25
3 Klei/zand (NZ)	60.87
4 Zand (NZ)	37.48
5 Klei (NZ)	191.00
6 zandlaag 1 (NZ)	169.03
7 klei (NZ)	38.33
8 zandlaag 2 (NZ)	0.00

6.4 Invoergegevens Rechts

6.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

6.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

6.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

6.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

6.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

6.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.66
3	-3.12	0.0	8.5	0.00	2.38	19.11
4	-3.16	0.0	8.8	0.00	2.38	14.83
5	-3.20	0.0	9.0	0.00	2.74	14.33
6	-3.20	0.0	4.3	0.00	2.74	6.44
7	-3.28	0.0	4.4	0.00	3.19	5.93
8	-3.36	0.0	4.5	0.00	3.48	5.37
9	-3.44	0.0	4.7	0.00	3.68	4.92
10	-3.52	0.0	4.8	0.00	3.82	4.55
11	-3.60	0.0	4.9	0.00	3.92	4.30
12	-3.60	0.0	5.0	0.00	3.92	4.11
13	-3.72	0.0	5.2	0.00	3.80	3.80
14	-3.85	0.0	5.4	0.00	3.45	3.45
15	-3.97	0.0	5.6	0.00	3.15	3.15
16	-4.09	0.0	5.9	0.00	2.89	2.89
17	-4.21	0.0	6.0	0.00	2.71	2.71
18	-4.21	0.0	6.1	0.00	2.60	2.60
19	-4.34	0.0	6.3	0.00	2.46	2.46
20	-4.46	0.0	6.5	0.00	2.28	2.28
21	-4.58	38.0	6.8	11.89	11.89	11.89
22	-4.71	54.1	7.0	15.30	15.30	15.30
23	-4.83	47.6	7.2	12.49	12.49	12.49
24	-4.83	45.1	7.2	11.48	11.48	11.48
25	-4.86	43.6	7.3	10.88	10.88	10.88
26	-4.90	41.7	7.4	10.13	10.13	10.13
27	-4.93	39.9	7.4	9.45	9.45	9.45
28	-4.97	38.2	7.5	8.82	8.82	8.82
29	-5.00	37.1	7.5	8.40	8.40	8.40
30	-5.00	35.8	7.6	7.96	7.96	7.96
31	-5.07	33.7	7.7	7.23	7.23	7.23
32	-5.13	31.1	7.8	6.36	6.36	6.36
33	-5.20	28.7	7.9	5.61	5.61	5.61
34	-5.26	26.6	8.0	4.96	4.96	4.96
35	-5.33	25.1	8.1	4.53	4.53	4.53
36	-5.33	24.2	8.2	4.29	4.29	4.29
37	-5.38	23.1	8.3	4.00	4.00	4.00
38	-5.44	21.8	8.4	3.63	3.63	3.63
39	-5.49	20.5	8.5	3.31	3.31	3.31
40	-5.55	19.3	8.6	3.01	3.01	3.01

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
41	-5.60	18.9	8.6	2.78	2.78	2.78
42	-5.60	16.1	32.4	2.29	2.29	4.61
43	-5.65	16.2	31.1	2.20	2.20	4.24
44	-5.69	16.3	31.5	2.09	2.09	4.04
45	-5.74	17.7	33.9	2.15	2.15	4.12
46	-5.78	19.9	36.5	2.29	2.29	4.21
47	-5.83	20.0	38.5	2.22	2.22	4.29
48	-5.83	20.1	41.1	2.14	2.14	4.38
49	-5.95	20.3	47.3	1.98	1.98	4.62
50	-6.06	20.6	56.9	1.81	1.81	5.00
51	-6.18	20.9	68.5	1.67	1.67	5.47
52	-6.30	21.2	82.8	1.55	1.55	6.06
53	-6.42	21.5	95.7	1.48	1.48	6.59
54	-6.42	21.6	105.7	1.43	1.43	7.00
55	-6.53	21.9	123.5	1.37	1.37	7.73
56	-6.65	22.2	153.4	1.30	1.30	8.95
57	-6.77	22.5	193.5	1.23	1.23	10.58
58	-6.88	22.8	248.8	1.17	1.17	12.79
59	-7.00	23.1	304.9	1.14	1.14	15.00
60	-7.00	23.2	354.3	1.11	1.11	16.93
61	-7.12	23.5	455.4	1.08	1.08	20.87
62	-7.24	23.8	665.0	1.04	1.04	28.89
63	-7.36	24.2	1050.0	1.00	1.00	43.37
64	-7.48	24.5	1237.6	0.97	0.98	48.72
65	-7.60	24.8	145.5	0.93	0.94	5.47
66	-7.60	27.7	154.1	1.02	1.02	5.67
67	-7.65	27.8	155.7	1.01	1.01	5.64
68	-7.69	27.9	157.8	0.99	0.99	5.59
69	-7.74	28.1	159.8	0.97	0.97	5.54
70	-7.78	28.2	161.9	0.96	0.96	5.49
71	-7.83	28.3	163.4	0.95	0.95	5.46
72	-7.83	28.4	164.8	0.94	0.94	5.43
73	-7.90	28.6	167.2	0.92	0.92	5.38
74	-7.98	28.8	170.4	0.90	0.90	5.32
75	-8.05	29.1	186.7	0.88	0.88	5.65
76	-8.13	29.3	210.5	0.86	0.86	6.19
77	-8.20	29.5	229.9	0.85	0.85	6.61
78	-8.20	29.6	242.5	0.84	0.84	6.89
79	-8.26	29.7	260.2	0.83	0.83	7.27
80	-8.32	29.9	286.0	0.82	0.82	7.81
81	-8.38	30.1	314.4	0.81	0.81	8.41
82	-8.44	30.3	341.8	0.79	0.79	8.95
83	-8.50	30.5	333.7	0.79	0.79	8.64
84	-8.50	28.9	296.0	0.74	0.77	7.59
85	-8.58	29.9	295.3	0.75	0.80	7.45
86	-8.65	27.9	294.6	0.69	0.79	7.26
87	-8.73	26.7	294.2	0.64	0.79	7.10
88	-8.80	25.6	294.0	0.60	0.78	6.94
89	-8.88	24.8	294.1	0.58	0.77	6.83
90	-8.88	24.5	294.1	0.57	0.77	6.79
91	-8.90	24.2	294.2	0.56	0.77	6.76
92	-8.93	24.0	294.2	0.55	0.77	6.72
93	-8.95	23.7	294.3	0.54	0.77	6.68
94	-8.98	23.4	294.4	0.53	0.76	6.64
95	-9.00	23.2	294.5	0.52	0.76	6.61
96	-9.00	22.9	294.7	0.51	0.76	6.57
97	-9.08	21.5	295.1	0.47	0.76	6.48
98	-9.15	21.7	295.8	0.47	0.75	6.37
99	-9.23	21.8	296.6	0.46	0.74	6.27
100	-9.30	22.1	297.5	0.46	0.74	6.17
101	-9.38	22.3	298.3	0.46	0.73	6.11
102	-9.38	22.4	298.6	0.46	0.73	6.08
103	-9.38	22.4	298.6	0.46	0.73	6.08
104	-9.38	22.4	298.6	0.46	0.73	6.08

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
105	-9.39	22.4	298.7	0.46	0.73	6.08
106	-9.39	22.4	298.7	0.46	0.73	6.07
107	-9.39	22.4	298.7	0.46	0.73	6.07
108	-9.39	22.4	298.8	0.46	0.73	6.07
109	-9.41	22.5	299.0	0.46	0.73	6.05
110	-9.43	22.6	299.4	0.45	0.73	6.02
111	-9.46	22.7	299.7	0.45	0.73	6.00
112	-9.48	22.8	300.1	0.45	0.73	5.98
113	-9.50	22.8	300.3	0.45	0.73	5.96
114	-9.50	22.9	300.6	0.45	0.73	5.94
115	-9.56	23.1	301.4	0.45	0.72	5.89
116	-9.62	23.3	302.4	0.45	0.72	5.84
117	-9.67	23.5	303.4	0.45	0.72	5.78
118	-9.73	23.8	304.5	0.45	0.71	5.73
119	-9.79	23.9	305.3	0.45	0.71	5.69
120	-9.79	24.0	305.7	0.45	0.71	5.68
121	-9.81	24.1	306.0	0.45	0.71	5.67
122	-9.83	24.1	306.3	0.45	0.71	5.65
123	-9.84	24.2	306.7	0.44	0.71	5.64
124	-9.86	24.3	297.8	0.44	0.70	5.45
125	-9.88	24.3	302.3	0.44	0.70	5.52
126	-9.88	24.3	302.5	0.44	0.70	5.52
127	-9.88	24.3	307.5	0.44	0.70	5.61
128	-9.88	24.3	357.4	0.44	0.70	6.51
129	-9.89	24.4	311.8	0.44	0.70	5.68
130	-9.89	24.4	248.8	0.44	0.70	4.53
131	-9.89	24.4	305.6	0.44	0.70	5.56
132	-9.89	24.4	316.7	0.44	0.70	5.74
133	-9.97	24.7	343.0	0.44	0.70	6.14
134	-10.05	25.0	369.1	0.44	0.69	6.50
135	-10.13	25.3	363.6	0.44	0.69	6.31
136	-10.21	25.6	363.0	0.44	0.69	6.20
137	-10.29	25.8	362.8	0.44	0.68	6.13
138	-10.29	25.9	362.8	0.44	0.68	6.10
139	-10.31	26.0	362.8	0.44	0.68	6.08
140	-10.33	26.0	362.8	0.43	0.68	6.06
141	-10.34	26.1	362.9	0.43	0.68	6.04
142	-10.36	26.2	362.9	0.43	0.68	6.02
143	-10.38	26.2	363.0	0.43	0.68	6.01
144	-10.38	26.2	363.0	0.43	0.68	6.00
145	-10.38	26.3	363.0	0.43	0.68	6.00
146	-10.38	26.3	363.0	0.43	0.68	6.00
147	-10.39	26.3	363.0	0.43	0.68	6.00
148	-10.39	26.3	363.0	0.43	0.68	5.99
149	-10.39	26.3	363.0	0.43	0.68	5.99
150	-10.39	26.4	363.1	0.43	0.68	5.97
151	-10.47	26.6	363.5	0.43	0.68	5.91
152	-10.55	26.9	364.3	0.43	0.67	5.84
153	-10.64	27.2	340.2	0.43	0.67	5.37
154	-10.72	27.5	314.3	0.43	0.67	4.89
155	-10.80	27.8	316.0	0.43	0.66	4.87
156	-10.80	27.8	316.6	0.43	0.66	4.86
157	-10.81	27.9	316.7	0.43	0.66	4.86
158	-10.81	27.9	316.9	0.43	0.66	4.85
159	-10.82	27.9	317.1	0.43	0.66	4.85
160	-10.82	27.9	317.3	0.43	0.66	4.85
161	-10.83	27.9	317.4	0.43	0.66	4.85
162	-10.83	28.0	318.1	0.43	0.66	4.84
163	-10.92	28.3	320.0	0.43	0.66	4.81
164	-11.01	28.6	322.6	0.42	0.65	4.78
165	-11.11	29.0	325.2	0.42	0.65	4.75
166	-11.20	29.3	327.8	0.42	0.65	4.72
167	-11.29	29.6	329.8	0.42	0.65	4.69
168	-11.29	29.7	330.6	0.42	0.65	4.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
169	-11.31	29.7	331.0	0.42	0.65	4.68
170	-11.33	29.8	331.5	0.42	0.64	4.67
171	-11.34	29.9	332.0	0.42	0.64	4.67
172	-11.36	29.9	332.5	0.42	0.64	4.66
173	-11.38	30.0	332.9	0.42	0.64	4.66
174	-11.38	30.0	333.0	0.42	0.64	4.66
175	-11.38	30.0	333.1	0.42	0.64	4.66
176	-11.38	30.0	333.1	0.42	0.64	4.66
177	-11.39	30.0	333.2	0.42	0.64	4.66
178	-11.39	30.0	333.3	0.42	0.64	4.65
179	-11.39	30.0	333.3	0.42	0.64	4.65
180	-11.39	30.0	333.5	0.42	0.64	4.65
181	-11.41	30.1	333.9	0.42	0.64	4.65
182	-11.43	30.2	334.6	0.42	0.64	4.64
183	-11.46	30.3	335.2	0.42	0.64	4.63
184	-11.48	30.4	335.8	0.42	0.64	4.63
185	-11.50	30.4	336.3	0.42	0.64	4.62
186	-11.50	31.8	337.0	0.44	0.64	4.61
187	-11.58	30.6	338.7	0.41	0.64	4.60
188	-11.66	29.0	340.9	0.39	0.64	4.58
189	-11.73	29.9	343.2	0.40	0.63	4.55
190	-11.81	30.2	345.4	0.40	0.63	4.53
191	-11.89	30.4	347.1	0.40	0.63	4.52
192	-11.89	30.5	348.3	0.40	0.63	4.51
193	-11.97	30.7	350.0	0.39	0.63	4.49
194	-12.05	31.0	352.3	0.39	0.63	4.47
195	-12.13	31.3	354.7	0.39	0.62	4.46
196	-12.21	31.6	357.0	0.39	0.62	4.44
197	-12.29	31.8	358.7	0.39	0.62	4.42
198	-12.29	31.9	359.5	0.39	0.62	4.42
199	-12.31	32.0	359.8	0.39	0.62	4.42
200	-12.33	32.1	360.4	0.39	0.62	4.41
201	-12.34	32.1	360.9	0.39	0.62	4.41
202	-12.36	32.2	361.4	0.39	0.62	4.40
203	-12.38	32.2	361.8	0.39	0.62	4.40
204	-12.38	32.3	362.0	0.39	0.62	4.40
205	-12.38	32.3	362.0	0.39	0.62	4.40
206	-12.38	32.3	362.1	0.39	0.62	4.40
207	-12.39	32.3	362.1	0.39	0.62	4.40
208	-12.39	32.3	362.2	0.39	0.62	4.40
209	-12.39	32.3	362.2	0.39	0.62	4.40
210	-12.39	32.3	362.4	0.39	0.62	4.40
211	-12.41	32.4	362.9	0.39	0.62	4.39
212	-12.43	32.4	363.5	0.39	0.62	4.39
213	-12.46	32.5	364.2	0.39	0.62	4.38
214	-12.48	32.6	364.8	0.39	0.62	4.38
215	-12.50	32.7	365.3	0.39	0.62	4.38
216	-12.50	32.7	365.9	0.39	0.62	4.37
217	-12.56	32.9	367.2	0.39	0.61	4.36
218	-12.62	33.1	368.8	0.39	0.61	4.35
219	-12.67	35.3	370.5	0.41	0.61	4.34
220	-12.73	35.5	372.2	0.41	0.61	4.33
221	-12.79	35.7	373.5	0.41	0.61	4.32
222	-12.79	35.8	374.3	0.41	0.61	4.32
223	-12.83	35.9	375.2	0.41	0.61	4.31
224	-12.87	36.0	376.4	0.41	0.61	4.30
225	-12.92	36.2	377.7	0.41	0.61	4.30
226	-12.96	36.3	378.9	0.41	0.61	4.29
227	-13.00	36.4	379.8	0.41	0.60	4.28
228	-13.00	35.9	434.7	0.40	0.60	4.88
229	-13.04	36.0	435.9	0.40	0.56	4.87
230	-13.08	36.1	437.5	0.40	0.56	4.87
231	-13.12	36.3	439.0	0.40	0.56	4.86
232	-13.16	36.4	440.6	0.40	0.56	4.85

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
233	-13.20	36.5	441.8	0.40	0.56	4.85
234	-13.20	36.6	442.4	0.40	0.56	4.84
235	-13.23	36.6	443.2	0.40	0.56	4.84
236	-13.25	36.7	444.2	0.40	0.56	4.83
237	-13.28	36.8	445.3	0.40	0.56	4.83
238	-13.30	36.9	446.3	0.40	0.56	4.82
239	-13.33	37.0	447.1	0.40	0.56	4.82
240	-13.33	37.1	448.8	0.40	0.56	4.81
241	-13.48	37.5	453.2	0.40	0.56	4.80
242	-13.62	38.0	459.0	0.40	0.55	4.77
243	-13.77	38.6	464.9	0.39	0.55	4.75
244	-13.91	39.1	470.9	0.39	0.55	4.73
245	-14.06	39.5	475.3	0.39	0.55	4.71
246	-14.06	39.7	478.3	0.39	0.55	4.70
247	-14.21	40.1	482.8	0.39	0.55	4.69
248	-14.35	40.6	488.8	0.39	0.54	4.67
249	-14.50	41.1	494.8	0.39	0.54	4.65
250	-14.64	41.6	500.8	0.39	0.54	4.64
251	-14.79	42.0	505.4	0.38	0.54	4.63
252	-14.79	42.2	501.5	0.38	0.54	4.57
253	-14.81	42.2	509.4	0.38	0.54	4.64
254	-14.83	42.3	514.3	0.38	0.54	4.67
255	-14.84	42.3	543.9	0.38	0.54	4.93
256	-14.86	42.4	563.8	0.38	0.54	5.10
257	-14.88	42.5	551.3	0.38	0.54	4.98
258	-14.88	42.5	551.7	0.38	0.54	4.98
259	-14.90	42.6	552.4	0.38	0.54	4.98
260	-14.93	42.6	553.3	0.38	0.54	4.98
261	-14.95	42.7	554.2	0.38	0.54	4.97
262	-14.98	42.8	555.2	0.38	0.54	4.97
263	-15.00	42.9	555.9	0.38	0.54	4.97
264	-15.00	43.0	556.9	0.38	0.54	4.96
265	-15.08	43.2	559.1	0.38	0.53	4.95
266	-15.16	43.4	562.2	0.38	0.53	4.94
267	-15.23	43.7	565.2	0.38	0.53	4.93
268	-15.31	44.0	568.3	0.38	0.53	4.92
269	-15.39	44.2	570.6	0.38	0.53	4.91
270	-15.39	44.3	571.6	0.38	0.53	4.91
271	-15.41	44.3	572.2	0.38	0.53	4.90
272	-15.43	44.4	573.1	0.38	0.53	4.90
273	-15.46	44.5	574.0	0.38	0.53	4.90
274	-15.48	44.6	574.8	0.38	0.53	4.89
275	-15.50	44.6	575.5	0.38	0.53	4.89
276	-15.50	44.7	576.3	0.38	0.53	4.89
277	-15.56	44.8	578.0	0.38	0.53	4.88
278	-15.62	45.0	580.3	0.38	0.53	4.88
279	-15.67	45.2	582.7	0.38	0.53	4.87
280	-15.73	45.5	585.0	0.38	0.53	4.86
281	-15.79	45.6	586.7	0.38	0.53	4.86
282	-15.79	45.7	587.4	0.38	0.53	4.86
283	-15.80	45.7	587.6	0.38	0.53	4.85
284	-15.81	45.7	588.0	0.38	0.53	4.85
285	-15.81	45.7	588.3	0.38	0.53	4.85
286	-15.82	45.8	588.6	0.38	0.53	4.85
287	-15.83	45.8	588.8	0.38	0.53	4.85
288	-15.83	45.8	589.0	0.38	0.53	4.85
289	-15.84	45.8	589.4	0.38	0.53	4.85
290	-15.85	45.9	589.9	0.38	0.53	4.85
291	-15.87	45.9	590.4	0.38	0.53	4.85
292	-15.88	46.0	590.9	0.38	0.53	4.85
293	-15.89	46.0	591.2	0.38	0.53	4.84
294	-15.89	46.0	591.6	0.38	0.53	4.84
295	-15.91	46.1	592.2	0.38	0.53	4.84
296	-15.93	46.2	593.1	0.38	0.53	4.84

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
297	-15.96	46.2	594.0	0.38	0.53	4.84
298	-15.98	46.3	594.9	0.38	0.53	4.83
299	-16.00	46.4	595.6	0.38	0.53	4.83
300	-16.00	52.5	457.7	0.43	0.53	3.71
301	-16.06	52.6	458.5	0.43	0.62	3.71
302	-16.12	52.8	459.6	0.43	0.62	3.70
303	-16.17	53.0	460.8	0.43	0.62	3.70
304	-16.23	53.2	461.9	0.42	0.62	3.69
305	-16.29	53.3	462.7	0.42	0.62	3.69
306	-16.29	53.4	463.1	0.42	0.62	3.69
307	-16.30	53.4	463.2	0.42	0.62	3.69
308	-16.31	53.4	463.3	0.42	0.62	3.68
309	-16.31	53.4	463.5	0.42	0.62	3.68
310	-16.32	53.5	463.7	0.42	0.62	3.68
311	-16.33	53.5	463.8	0.42	0.62	3.68
312	-16.33	53.5	463.9	0.42	0.62	3.68
313	-16.34	53.5	464.0	0.42	0.62	3.68
314	-16.35	53.6	464.3	0.42	0.62	3.68
315	-16.37	53.6	464.5	0.42	0.62	3.68
316	-16.38	53.6	464.7	0.42	0.62	3.68
317	-16.39	53.7	464.9	0.42	0.62	3.68
318	-16.39	53.7	465.1	0.42	0.62	3.68
319	-16.41	53.8	465.4	0.42	0.62	3.68
320	-16.43	53.8	465.8	0.42	0.62	3.67
321	-16.46	53.9	466.3	0.42	0.62	3.67
322	-16.48	54.0	466.7	0.42	0.62	3.67
323	-16.50	54.0	467.0	0.42	0.61	3.67

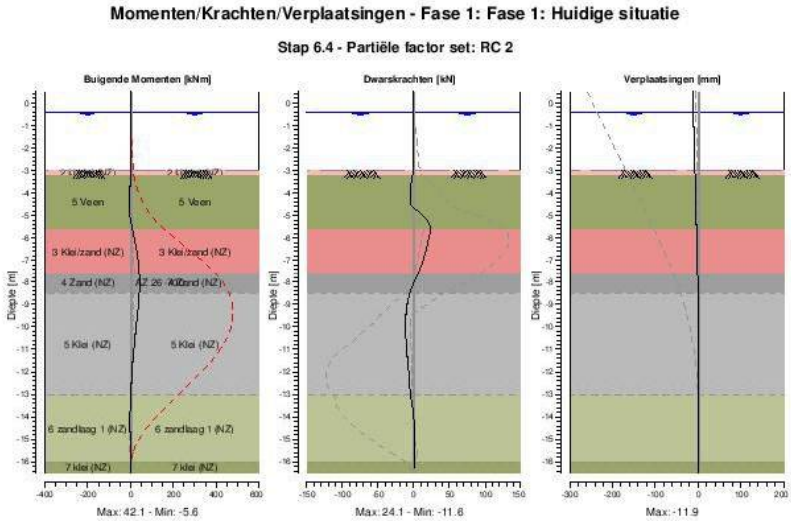
6.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	0.00
5 Veen	41.81
3 Klei/zand (NZ)	43.09
4 Zand (NZ)	25.66
5 Klei (NZ)	191.64
6 zandlaag 1 (NZ)	174.33
7 klei (NZ)	37.93
8 zandlaag 2 (NZ)	0.00

6.7 Berekeningsresultaten

Aantal iteraties: 4

6.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



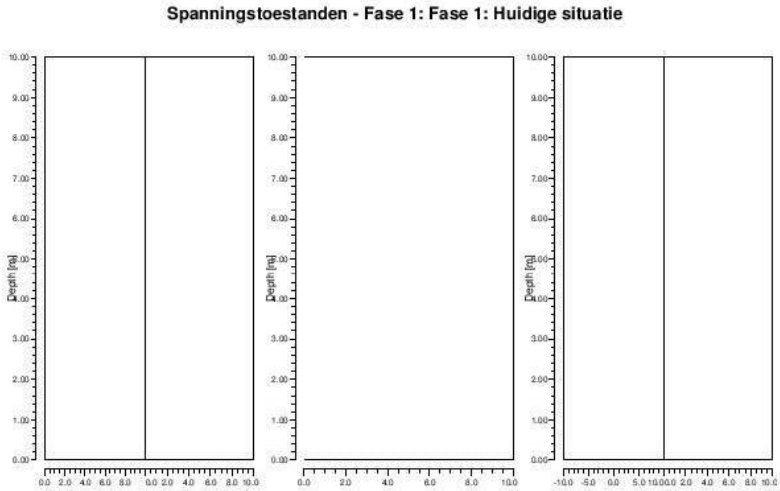
6.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-11.9**
1	0.40	0.00	0.00	-11.7
2	0.40	0.00	0.00	-11.7
2	0.20	0.00	0.00	-11.5
3	0.20	0.00	0.00	-11.5
3	0.17	0.00	0.00	-11.4
4	0.17	0.00	0.00	-11.4
4	0.00	0.00	0.00	-11.2
5	0.00	0.00	0.00	-11.2
5	-0.10	0.00	0.00	-11.1
6	-0.10	0.00	0.00	-11.1
6	-0.20	0.00	0.00	-10.9
7	-0.20	0.00	0.00	-10.9
7	-0.33	0.00	0.00	-10.8
8	-0.33	0.00	0.00	-10.8
8	-0.40	0.00	0.00	-10.7
9	-0.40	0.00	0.00	-10.7
9	-0.60	0.00	0.00	-10.4
10	-0.60	0.00	0.00	-10.4
10	-1.33	0.00	0.00	-9.4
11	-1.33	0.00	0.00	-9.4
11	-1.50	0.00	0.00	-9.2
12	-1.50	0.00	0.00	-9.2
12	-1.60	0.00	0.00	-9.1
13	-1.60	0.00	0.00	-9.1
13	-1.83	0.00	0.00	-8.8
14	-1.83	0.00	0.00	-8.8
14	-2.00	0.00	0.00	-8.5
15	-2.00	0.00	0.00	-8.5
15	-2.15	0.00	0.00	-8.3
16	-2.15	0.00	0.00	-8.3

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-8.3
17	-2.20	0.00	0.00	-8.3
17	-2.33	0.00	0.00	-8.1
18	-2.33	0.00	0.00	-8.1
18	-2.60	0.00	0.00	-7.7
19	-2.60	0.00	0.00	-7.7
19	-3.00	0.00	0.00	-7.2
20	-3.00	0.00	0.00	-7.2
20	-3.20	-0.13	-1.51	-6.9
21	-3.20	-0.13	-1.51	-6.9
21	-3.60	-1.14	-3.56	-6.4
22	-3.60	-1.14	-3.55	-6.4
22	-4.21	-3.76	-4.77	-5.6
23	-4.21	-3.76	-4.77	-5.6
23	-4.83	-5.07	7.28	-4.8
24	-4.83	-5.07	7.28	-4.8
24	-5.00	-3.31	13.11	-4.5
25	-5.00	-3.31	13.11	-4.5
25	-5.33	2.36	20.57	-4.1
26	-5.33	2.36	20.57	-4.1
26	-5.60	8.42	**24.06**	-3.7
27	-5.60	8.42	**24.06**	-3.7
27	-5.83	13.74	22.36	-3.4
28	-5.83	13.74	22.35	-3.4
28	-6.42	25.65	18.23	-2.6
29	-6.42	25.65	18.23	-2.6
29	-7.00	34.83	12.97	-1.9
30	-7.00	34.83	12.97	-1.9
30	-7.60	40.66	6.28	-1.3
31	-7.60	40.66	6.28	-1.3
31	-7.83	41.78	3.31	-1.1
32	-7.83	41.78	3.31	-1.1
32	-8.20	**41.99**	-2.05	-0.8
33	-8.20	**41.99**	-2.05	-0.8
33	-8.50	40.83	-5.54	-0.6
34	-8.50	40.83	-5.55	-0.6
34	-8.88	38.18	-8.45	-0.4
35	-8.88	38.18	-8.45	-0.4
35	-9.00	37.12	-9.21	-0.3
36	-9.00	37.12	-9.21	-0.3
36	-9.38	33.27	-10.87	-0.2
37	-9.38	33.27	-10.87	-0.2
37	-9.39	33.16	-10.90	-0.2
38	-9.39	33.16	-10.90	-0.2
38	-9.50	31.95	-11.18	-0.1
39	-9.50	31.95	-11.18	-0.1
39	-9.79	28.63	-11.59	0.0
40	-9.79	28.63	-11.59	0.0
40	-9.88	27.59	-11.64	0.0
41	-9.88	27.59	-11.64	0.0
41	-9.89	27.47	-11.64	0.0
42	-9.89	27.47	-11.64	0.0
42	-10.29	22.84	-11.42	0.1
43	-10.29	22.84	-11.42	0.1
43	-10.38	21.82	-11.29	0.1
44	-10.38	21.82	-11.29	0.1
44	-10.39	21.71	-11.28	0.1
45	-10.39	21.71	-11.28	0.1
45	-10.80	17.23	-10.48	0.1
46	-10.80	17.23	-10.48	0.1
46	-10.83	16.92	-10.40	0.1
47	-10.83	16.92	-10.40	0.1
47	-11.29	12.40	-9.20	0.1
48	-11.29	12.40	-9.20	0.1
48	-11.38	11.59	-8.95	0.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	11.59	-8.95	0.2
49	-11.39	11.50	-8.92	0.2
50	-11.39	11.50	-8.92	0.2
50	-11.50	10.53	-8.61	0.2
51	-11.50	10.53	-8.61	0.2
51	-11.89	7.39	-7.52	0.1
52	-11.89	7.39	-7.52	0.1
52	-12.29	4.60	-6.46	0.1
53	-12.29	4.60	-6.46	0.1
53	-12.38	4.02	-6.24	0.1
54	-12.38	4.02	-6.24	0.1
54	-12.39	3.96	-6.21	0.1
55	-12.39	3.96	-6.21	0.1
55	-12.50	3.29	-5.95	0.1
56	-12.50	3.29	-5.95	0.1
56	-12.79	1.66	-5.31	0.1
57	-12.79	1.66	-5.31	0.1
57	-13.00	0.59	-4.90	0.1
58	-13.00	0.59	-4.90	0.1
58	-13.20	-0.27	-3.71	0.1
59	-13.20	-0.27	-3.71	0.1
59	-13.33	-0.70	-3.01	0.1
60	-13.33	-0.70	-3.01	0.1
60	-14.06	-1.75	-0.15	0.0
61	-14.06	-1.75	-0.16	0.0
61	-14.79	-1.32	1.10	0.0
62	-14.79	-1.32	1.10	0.0
62	-14.88	-1.22	1.15	0.0
63	-14.88	-1.22	1.15	0.0
63	-15.00	-1.08	1.20	0.0
64	-15.00	-1.08	1.20	0.0
64	-15.39	-0.61	1.14	0.0
65	-15.39	-0.61	1.14	0.0
65	-15.50	-0.49	1.06	0.0
66	-15.50	-0.49	1.06	0.0
66	-15.79	-0.23	0.74	0.0
67	-15.79	-0.23	0.74	0.0
67	-15.83	-0.20	0.68	0.0
68	-15.83	-0.20	0.68	0.0
68	-15.89	-0.16	0.58	0.0
69	-15.89	-0.16	0.58	0.0
69	-16.00	-0.11	0.39	0.0
70	-16.00	-0.11	0.39	0.0
70	-16.29	-0.02	0.19	0.0
71	-16.29	-0.02	0.19	0.0
71	-16.33	-0.01	0.15	0.0
72	-16.33	-0.01	0.15	0.0
72	-16.39	-0.01	0.10	0.0
73	-16.39	-0.01	0.10	0.0
73	-16.50	0.00	0.00	0.0
Max		**41.99**	**24.06**	**-11.9**
Max incl. tussenknopen		42.15	24.06	-11.9

6.7.3 Grafieken van Spanningen



6.7.4 Spanningen

Knoop nummer	Niveau [m]	Links Eff. spanning [kN/m²]	Links Water span. [kN/m²]	Links Stat*	Links Mob* [%]	Rechts Eff. spanning [kN/m²]	Rechts Water span. [kN/m²]	Rechts Stat*	Rechts Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	9.48	27.47	3	94	0.00	27.47	A	
21	-3.20	4.93	27.47	P		0.00	27.47	A	
21	-3.60	5.36	31.39	P		0.00	31.39	A	
22	-3.60	5.44	31.39	P		1.37	31.39	1	
22	-4.21	6.35	37.43	P		5.04	37.43	3	
23	-4.21	6.46	37.43	P		5.14	37.43	3	
23	-4.83	7.45	43.46	P		48.88	43.46	A	
24	-4.83	7.52	43.46	P		46.29	43.46	A	
24	-5.00	7.80	45.13	P		37.94	45.13	A	
25	-5.00	7.84	45.13	P		36.60	45.13	A	
25	-5.33	8.38	48.36	P		25.53	48.36	A	
26	-5.33	8.44	48.36	P		24.66	48.36	A	
26	-5.60	8.35	51.01	P		18.52	51.01	A	
27	-5.60	25.21	51.01	3	82	15.64	51.01	A	50
27	-5.83	25.12	53.27	3	81	19.52	53.27	A	52
28	-5.83	25.74	53.27	3	81	19.64	53.27	A	49
28	-6.42	28.87	59.01	2	67	21.17	59.01	A	22
29	-6.42	29.59	59.01	2	66	21.34	59.01	A	20
29	-7.00	32.63	64.75	2	57	22.86	64.75	A	8
30	-7.00	33.32	64.75	2	57	23.03	64.75	A	7
30	-7.60	36.10	70.63	2	52	24.31	70.63	A	
31	-7.60	39.22	70.63	2	55	27.04	70.63	A	18
31	-7.83	41.51	72.89	2	52	27.73	72.89	A	17
32	-7.83	42.08	72.89	2	52	27.83	72.89	A	17
32	-8.20	41.93	76.52	1	44	28.95	76.52	A	13
33	-8.20	42.34	76.52	1	44	29.06	76.52	A	12
33	-8.50	40.29	79.46	1	37	30.11	79.46	A	9
34	-8.50	35.18	79.46	1	35	28.59	79.46	A	
34	-8.88	36.30	82.34	1	33	29.41	82.34	1	
35	-8.88	36.55	82.34	1	33	29.64	82.34	1	
35	-9.00	36.54	83.25	1	32	30.70	83.25	1	
36	-9.00	36.78	83.25	1	32	30.92	83.25	1	
36	-9.38	36.98	86.14	1	30	34.01	86.14	1	
37	-9.38	37.17	86.14	1	30	34.18	86.14	1	
37	-9.39	37.18	86.21	1	30	34.25	86.21	1	
38	-9.39	37.23	86.21	1	30	34.30	86.21	1	
38	-9.50	37.35	87.05	1	29	35.13	87.05	1	
39	-9.50	37.54	87.05	1	29	35.29	87.05	1	
39	-9.79	37.98	89.25	1	28	37.32	89.25	1	
40	-9.79	38.15	89.25	1	28	37.48	89.25	1	
40	-9.88	38.32	89.93	1	27	38.07	89.93	1	
41	-9.88	38.37	89.93	1	27	38.11	89.93	1	
41	-9.89	38.39	90.01	1	27	38.17	90.01	1	
42	-9.89	38.57	90.01	1	27	38.34	90.01	1	
42	-10.29	39.52	93.04	1		40.77	93.04	1	11
43	-10.29	39.73	93.04	1		40.95	93.04	1	11
43	-10.38	39.97	93.73	1		41.46	93.73	1	12
44	-10.38	40.02	93.73	1		41.50	93.73	1	12
44	-10.39	40.05	93.80	1		41.55	93.80	1	12
45	-10.39	40.22	93.80	1		41.71	93.80	1	12
45	-10.80	41.51	96.91	1		43.85	96.91	1	14
46	-10.80	41.69	96.91	1		44.02	96.91	1	14
46	-10.83	41.79	97.14	1		44.16	97.14	1	14
47	-10.83	41.99	97.14	1		44.34	97.14	1	14
47	-11.29	43.68	100.63	1		46.47	100.63	1	14

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
48	-11.29	43.89	100.63	1		46.67	100.63	1	14
48	-11.38	44.25	101.31	1		47.06	101.31	1	14
49	-11.38	44.29	101.31	1		47.09	101.31	1	14
49	-11.39	44.33	101.39	1		47.14	101.39	1	14
50	-11.39	44.37	101.39	1		47.18	101.39	1	14
50	-11.50	44.81	102.22	1		47.65	102.22	1	14
51	-11.50	45.01	102.22	1		47.82	102.22	1	14
51	-11.89	46.64	105.18	1		49.41	105.18	1	14
52	-11.89	46.94	105.18	1		49.68	105.18	1	14
52	-12.29	48.69	108.22	1		51.22	108.22	1	14
53	-12.29	48.87	108.22	1		51.38	108.22	1	14
53	-12.38	49.27	108.90	1		51.71	108.90	1	14
54	-12.38	49.31	108.90	1		51.75	108.90	1	14
54	-12.39	49.35	108.98	1		51.79	108.98	1	14
55	-12.39	49.40	108.98	1		51.82	108.98	1	14
55	-12.50	49.89	109.81	1		52.23	109.81	1	14
56	-12.50	50.04	109.81	1		52.36	109.81	1	14
56	-12.79	51.35	112.01	1		53.43	112.01	1	14
57	-12.79	51.53	112.01	1		53.59	112.01	1	14
57	-13.00	52.37	113.61	1		54.26	113.61	1	14
58	-13.00	50.31	113.61	1		56.62	113.61	1	13
58	-13.20	47.96	115.57	1		53.57	115.57	1	12
59	-13.20	48.08	115.57	1		53.68	115.57	1	12
59	-13.33	48.86	116.84	1		54.01	116.84	1	12
60	-13.33	49.18	116.84	1		54.29	116.84	1	12
60	-14.06	53.43	124.00	1		56.20	124.00	1	12
61	-14.06	53.96	124.00	1		56.66	124.00	1	12
61	-14.79	57.99	131.17	1		58.79	131.17	1	12
62	-14.79	58.28	131.17	1		59.04	131.17	1	12
62	-14.88	58.76	132.05	1		59.31	132.05	1	11
63	-14.88	58.83	132.05	1		59.38	132.05	1	11
63	-15.00	59.48	133.23	1		59.75	133.23	1	11
64	-15.00	59.65	133.23	1		59.91	133.23	1	11
64	-15.39	61.71	137.05	1	16	61.14	137.05	1	
65	-15.39	61.88	137.05	1	16	61.29	137.05	1	
65	-15.50	62.46	138.13	1	16	61.64	138.13	1	
66	-15.50	62.60	138.13	1	16	61.76	138.13	1	
66	-15.79	64.11	140.98	1	16	62.70	140.98	1	
67	-15.79	64.22	140.98	1	16	62.80	140.98	1	
67	-15.83	64.43	141.37	1	16	62.93	141.37	1	
68	-15.83	64.46	141.37	1	16	62.96	141.37	1	
68	-15.89	64.77	141.96	1	16	63.15	141.96	1	
69	-15.89	64.83	141.96	1	16	63.20	141.96	1	
69	-16.00	65.45	143.04	1	16	63.60	143.04	1	
70	-16.00	64.93	143.04	1	23	64.31	143.04	1	
70	-16.29	77.41	145.88	1	27	76.60	145.88	1	
71	-16.29	77.50	145.88	1	27	76.68	145.88	1	
71	-16.33	77.66	146.27	1	27	76.82	146.27	1	
72	-16.33	77.69	146.27	1	27	76.84	146.27	1	
72	-16.39	77.93	146.86	1	27	77.04	146.86	1	
73	-16.39	77.98	146.86	1	27	77.08	146.86	1	
73	-16.50	78.36	147.94	1	27	77.41	147.94	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

6.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links	Rechts
	[kN]	[kN]
Effectief	514.5	514.5
Water	1213.9	1213.9
Totaal	1728.4	1728.4

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	514.46 kN
Percentage gemobiliseerde weerstand	24.2 %

7 Stap 6.5 Fase 1: Fase 1: Huidige situatie

7.1 Invoergegevens Links

7.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

7.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

7.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

7.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

7.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

7.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	10.7	0.00	2.38	72.28
2	-3.08	0.0	11.0	0.00	2.38	37.31
3	-3.12	0.0	11.4	0.00	2.38	25.66
4	-3.16	0.0	11.7	0.00	2.38	19.83
5	-3.20	0.0	12.0	0.00	2.75	19.11
6	-3.20	0.0	5.3	0.00	2.75	8.06
7	-3.28	0.0	5.4	0.00	3.22	7.42
8	-3.36	0.0	5.6	0.00	3.53	6.73
9	-3.44	0.0	5.7	0.00	3.77	6.20
10	-3.52	0.0	5.9	0.00	3.96	5.77
11	-3.60	0.0	6.0	0.00	4.12	5.49
12	-3.60	0.0	6.1	0.00	4.12	5.29
13	-3.72	0.0	6.3	0.00	4.30	4.97
14	-3.85	0.0	6.5	0.00	4.44	4.63
15	-3.97	0.0	6.7	0.00	4.35	4.35
16	-4.09	0.0	7.0	0.00	4.11	4.11
17	-4.21	0.0	7.2	0.00	3.97	3.97
18	-4.21	0.0	7.3	0.00	3.88	3.88
19	-4.34	0.0	7.5	0.00	3.76	3.76
20	-4.46	0.0	7.7	0.00	3.61	3.61
21	-4.58	0.0	8.0	0.00	3.49	3.49
22	-4.71	0.0	8.2	0.00	3.38	3.38
23	-4.83	0.0	8.4	0.00	3.31	3.31
24	-4.83	0.0	8.5	0.00	3.28	3.28
25	-4.86	0.0	8.5	0.00	3.26	3.26
26	-4.90	0.0	8.6	0.00	3.24	3.24
27	-4.93	0.0	8.7	0.00	3.21	3.21
28	-4.97	0.0	8.7	0.00	3.19	3.19
29	-5.00	0.0	8.8	0.00	3.18	3.18
30	-5.00	0.0	8.8	0.00	3.16	3.16
31	-5.07	0.0	8.9	0.00	3.13	3.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	9.1	0.00	3.09	3.09
33	-5.20	0.0	9.2	0.00	3.05	3.05
34	-5.26	0.0	9.3	0.00	3.02	3.02
35	-5.33	0.0	9.4	0.00	3.00	3.00
36	-5.33	0.0	9.5	0.00	2.98	2.98
37	-5.38	0.0	9.6	0.00	2.96	2.96
38	-5.44	0.0	9.7	0.00	2.94	2.94
39	-5.49	0.0	9.8	0.00	2.91	2.91
40	-5.55	0.0	9.9	0.00	2.89	2.89
41	-5.60	0.0	10.0	0.00	2.70	2.70
42	-5.60	0.0	52.9	0.00	4.06	13.67
43	-5.65	0.0	46.7	0.00	3.65	11.40
44	-5.69	0.0	44.7	0.00	3.47	10.13
45	-5.74	0.0	44.4	0.00	3.30	9.41
46	-5.78	0.0	44.7	0.00	3.16	8.91
47	-5.83	0.0	45.2	0.00	3.03	8.61
48	-5.83	0.0	46.0	0.00	3.03	8.32
49	-5.95	0.0	47.9	0.00	2.76	7.84
50	-6.06	0.0	50.9	0.00	2.55	7.38
51	-6.18	0.0	54.1	0.00	2.38	7.05
52	-6.30	0.0	57.5	0.00	2.24	6.79
53	-6.42	0.0	60.0	0.00	2.12	6.63
54	-6.42	0.0	61.7	0.00	2.12	6.54
55	-6.53	0.0	64.4	0.00	2.01	6.42
56	-6.65	0.0	67.9	0.00	1.93	6.28
57	-6.77	0.0	71.4	0.00	1.85	6.16
58	-6.88	0.0	75.0	0.00	1.78	6.06
59	-7.00	0.0	77.6	0.00	1.72	5.99
60	-7.00	0.0	79.5	0.00	1.72	5.95
61	-7.12	0.0	82.2	0.00	1.66	5.89
62	-7.24	0.0	85.9	0.00	1.61	5.82
63	-7.36	0.0	89.6	0.00	1.56	5.76
64	-7.48	0.0	93.3	0.00	1.52	5.70
65	-7.60	0.0	96.1	0.00	1.45	5.56
66	-7.60	0.0	101.1	0.00	1.45	5.71
67	-7.65	0.0	103.0	0.00	1.39	5.70
68	-7.69	0.0	105.5	0.00	1.37	5.70
69	-7.74	0.0	108.1	0.00	1.35	5.69
70	-7.78	0.0	110.7	0.00	1.33	5.69
71	-7.83	0.0	112.6	0.00	1.31	5.68
72	-7.83	0.0	114.3	0.00	1.31	5.68
73	-7.90	0.0	117.4	0.00	1.28	5.67
74	-7.98	0.0	121.6	0.00	1.26	5.67
75	-8.05	0.0	125.8	0.00	1.24	5.67
76	-8.13	0.9	130.0	0.04	1.21	5.66
77	-8.20	6.4	133.1	0.27	1.19	5.66
78	-8.20	6.5	135.0	0.27	1.19	5.66
79	-8.26	6.6	137.6	0.27	1.18	5.66
80	-8.32	6.8	141.0	0.27	1.16	5.66
81	-8.38	7.0	144.4	0.27	1.15	5.66
82	-8.44	7.1	147.9	0.27	1.13	5.65
83	-8.50	7.3	150.5	0.27	1.13	5.69
84	-8.50	5.4	131.5	0.20	1.13	4.92
85	-8.58	5.5	133.7	0.20	1.17	4.91
86	-8.65	5.7	136.7	0.21	1.15	4.90
87	-8.73	6.0	139.6	0.21	1.14	4.88
88	-8.80	6.2	142.5	0.21	1.13	4.87
89	-8.88	6.3	144.7	0.21	1.12	4.86
90	-8.88	6.4	145.7	0.21	1.12	4.86
91	-8.90	6.5	146.4	0.21	1.11	4.86
92	-8.93	6.5	147.3	0.22	1.11	4.85
93	-8.95	6.6	148.3	0.22	1.11	4.85
94	-8.98	6.7	149.2	0.22	1.10	4.84
95	-9.00	6.7	149.9	0.22	1.10	4.84

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	6.8	150.9	0.22	1.10	4.84
97	-9.08	7.0	153.1	0.22	1.09	4.83
98	-9.15	7.2	156.0	0.22	1.08	4.82
99	-9.23	7.4	158.9	0.22	1.07	4.81
100	-9.30	7.6	161.9	0.23	1.06	4.80
101	-9.38	7.8	164.1	0.23	1.05	4.79
102	-9.38	7.8	164.8	0.23	1.05	4.79
103	-9.38	7.8	164.9	0.23	1.05	4.79
104	-9.38	7.9	165.0	0.23	1.05	4.79
105	-9.39	7.9	165.1	0.23	1.05	4.79
106	-9.39	7.9	165.1	0.23	1.05	4.79
107	-9.39	7.9	165.2	0.23	1.05	4.79
108	-9.39	7.9	165.4	0.23	1.05	4.79
109	-9.41	7.9	166.1	0.23	1.04	4.79
110	-9.43	8.0	166.9	0.23	1.04	4.79
111	-9.46	8.1	167.8	0.23	1.04	4.78
112	-9.48	8.1	168.6	0.23	1.04	4.78
113	-9.50	8.2	169.2	0.23	1.03	4.78
114	-9.50	8.2	170.0	0.23	1.03	4.78
115	-9.56	8.4	171.7	0.23	1.03	4.77
116	-9.62	8.5	174.0	0.23	1.02	4.77
117	-9.67	8.7	176.2	0.23	1.01	4.76
118	-9.73	8.9	178.4	0.24	1.01	4.75
119	-9.79	9.0	180.1	0.24	1.00	4.75
120	-9.79	9.0	180.9	0.24	1.00	4.75
121	-9.81	9.1	181.4	0.24	1.00	4.75
122	-9.83	9.1	182.1	0.24	1.00	4.75
123	-9.84	9.2	182.8	0.24	1.00	4.74
124	-9.86	9.2	183.5	0.24	0.99	4.74
125	-9.88	9.3	184.0	0.24	0.99	4.74
126	-9.88	9.3	184.2	0.24	0.99	4.74
127	-9.88	9.3	184.2	0.24	0.99	4.74
128	-9.88	9.3	184.3	0.24	0.99	4.74
129	-9.89	9.3	184.4	0.24	0.99	4.74
130	-9.89	9.3	184.5	0.24	0.99	4.74
131	-9.89	9.3	184.5	0.24	0.99	4.74
132	-9.89	9.4	185.3	0.24	0.99	4.74
133	-9.97	9.5	187.7	0.24	0.98	4.73
134	-10.05	9.8	190.7	0.24	0.98	4.73
135	-10.13	10.0	193.8	0.24	0.97	4.72
136	-10.21	10.2	196.9	0.24	0.96	4.71
137	-10.29	10.4	199.3	0.25	0.96	4.71
138	-10.29	10.5	200.2	0.25	0.96	4.71
139	-10.31	10.5	200.7	0.25	0.95	4.70
140	-10.33	10.6	201.4	0.25	0.95	4.70
141	-10.34	10.6	202.1	0.25	0.95	4.70
142	-10.36	10.7	202.8	0.25	0.95	4.70
143	-10.38	10.7	203.3	0.25	0.95	4.70
144	-10.38	10.7	203.5	0.25	0.95	4.70
145	-10.38	10.7	203.6	0.25	0.95	4.70
146	-10.38	10.7	203.7	0.25	0.95	4.70
147	-10.39	10.7	203.8	0.25	0.95	4.70
148	-10.39	10.7	203.8	0.25	0.95	4.70
149	-10.39	10.8	203.9	0.25	0.95	4.70
150	-10.39	10.8	204.7	0.25	0.95	4.70
151	-10.47	11.0	207.1	0.25	0.94	4.69
152	-10.55	11.2	210.3	0.25	0.94	4.69
153	-10.64	11.5	213.4	0.25	0.93	4.68
154	-10.72	11.7	216.6	0.25	0.92	4.68
155	-10.80	11.9	219.0	0.25	0.92	4.67
156	-10.80	11.9	219.8	0.25	0.92	4.67
157	-10.81	12.0	220.0	0.25	0.92	4.67
158	-10.81	12.0	220.3	0.25	0.92	4.67
159	-10.82	12.0	220.5	0.25	0.92	4.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	12.0	220.7	0.25	0.92	4.67
161	-10.83	12.0	220.9	0.25	0.92	4.67
162	-10.83	12.1	221.8	0.25	0.92	4.67
163	-10.92	12.3	224.5	0.26	0.91	4.66
164	-11.01	12.6	228.1	0.26	0.90	4.66
165	-11.11	12.8	231.6	0.26	0.90	4.65
166	-11.20	13.1	235.2	0.26	0.89	4.65
167	-11.29	13.3	237.9	0.26	0.89	4.64
168	-11.29	13.4	238.9	0.26	0.89	4.64
169	-11.31	13.4	239.5	0.26	0.89	4.64
170	-11.33	13.5	240.2	0.26	0.88	4.64
171	-11.34	13.5	240.9	0.26	0.88	4.64
172	-11.36	13.6	241.6	0.26	0.88	4.64
173	-11.38	13.6	242.1	0.26	0.88	4.64
174	-11.38	13.6	242.3	0.26	0.88	4.64
175	-11.38	13.6	242.3	0.26	0.88	4.64
176	-11.38	13.6	242.4	0.26	0.88	4.64
177	-11.39	13.6	242.5	0.26	0.88	4.64
178	-11.39	13.6	242.6	0.26	0.88	4.64
179	-11.39	13.6	242.6	0.26	0.88	4.64
180	-11.39	13.7	242.8	0.26	0.88	4.64
181	-11.41	13.7	243.5	0.26	0.88	4.64
182	-11.43	13.8	244.3	0.26	0.88	4.64
183	-11.46	13.8	245.2	0.26	0.88	4.64
184	-11.48	13.9	246.0	0.26	0.88	4.63
185	-11.50	13.9	246.7	0.26	0.87	4.63
186	-11.50	14.0	247.7	0.26	0.87	4.63
187	-11.58	14.2	249.9	0.26	0.87	4.63
188	-11.66	14.4	252.9	0.26	0.87	4.63
189	-11.73	14.6	256.0	0.26	0.86	4.62
190	-11.81	14.9	259.0	0.27	0.86	4.62
191	-11.89	15.0	261.2	0.27	0.85	4.62
192	-11.89	15.1	262.8	0.27	0.85	4.61
193	-11.97	15.3	265.1	0.27	0.85	4.61
194	-12.05	15.6	268.2	0.27	0.85	4.61
195	-12.13	15.8	271.3	0.27	0.84	4.61
196	-12.21	16.0	274.4	0.27	0.84	4.60
197	-12.29	16.2	276.7	0.27	0.84	4.60
198	-12.29	16.3	277.7	0.27	0.84	4.60
199	-12.31	16.3	278.2	0.27	0.83	4.60
200	-12.33	16.3	278.9	0.27	0.83	4.60
201	-12.34	16.4	279.6	0.27	0.83	4.60
202	-12.36	16.5	280.3	0.27	0.83	4.60
203	-12.38	16.5	280.8	0.27	0.83	4.60
204	-12.38	16.5	281.0	0.27	0.83	4.60
205	-12.38	16.5	281.1	0.27	0.83	4.60
206	-12.38	16.5	281.1	0.27	0.83	4.60
207	-12.39	16.5	281.2	0.27	0.83	4.60
208	-12.39	16.5	281.3	0.27	0.83	4.60
209	-12.39	16.5	281.3	0.27	0.83	4.60
210	-12.39	16.6	281.6	0.27	0.83	4.60
211	-12.41	16.6	282.2	0.27	0.83	4.60
212	-12.43	16.7	283.1	0.27	0.83	4.59
213	-12.46	16.7	283.9	0.27	0.83	4.59
214	-12.48	16.8	284.8	0.27	0.83	4.59
215	-12.50	16.8	285.4	0.27	0.83	4.59
216	-12.50	16.9	286.2	0.27	0.83	4.59
217	-12.56	17.0	287.9	0.27	0.82	4.59
218	-12.62	17.2	290.1	0.27	0.82	4.59
219	-12.67	17.4	292.4	0.27	0.82	4.59
220	-12.73	17.5	294.6	0.27	0.82	4.58
221	-12.79	17.6	296.3	0.27	0.81	4.58
222	-12.79	17.7	297.3	0.27	0.81	4.58
223	-12.83	17.8	298.5	0.27	0.81	4.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	17.9	300.1	0.27	0.81	4.58
225	-12.92	18.1	301.7	0.27	0.81	4.58
226	-12.96	18.2	303.4	0.27	0.81	4.58
227	-13.00	18.3	304.6	0.27	0.81	4.57
228	-13.00	18.5	385.9	0.28	0.81	5.77
229	-13.04	18.6	387.6	0.28	0.75	5.77
230	-13.08	18.7	389.8	0.28	0.75	5.76
231	-13.12	18.8	392.0	0.28	0.75	5.76
232	-13.16	19.0	394.2	0.28	0.75	5.76
233	-13.20	19.0	395.9	0.28	0.74	5.76
234	-13.20	19.1	396.8	0.28	0.74	5.76
235	-13.23	19.1	397.9	0.28	0.74	5.76
236	-13.25	19.2	399.3	0.28	0.74	5.76
237	-13.28	19.3	400.8	0.28	0.74	5.76
238	-13.30	19.4	402.3	0.28	0.74	5.75
239	-13.33	19.4	403.3	0.28	0.74	5.75
240	-13.33	19.5	405.8	0.28	0.74	5.75
241	-13.48	19.9	411.9	0.28	0.73	5.75
242	-13.62	20.3	420.1	0.28	0.73	5.74
243	-13.77	20.7	428.4	0.28	0.72	5.74
244	-13.91	21.1	436.7	0.28	0.72	5.74
245	-14.06	21.4	442.9	0.28	0.71	5.73
246	-14.06	21.6	447.1	0.28	0.71	5.73
247	-14.21	21.9	453.3	0.28	0.71	5.73
248	-14.35	22.4	461.7	0.28	0.71	5.73
249	-14.50	22.8	470.1	0.28	0.70	5.73
250	-14.64	23.2	478.5	0.28	0.70	5.73
251	-14.79	23.5	484.8	0.28	0.69	5.73
252	-14.79	23.6	487.1	0.28	0.69	5.72
253	-14.81	23.7	487.9	0.28	0.69	5.72
254	-14.83	23.7	488.9	0.28	0.69	5.72
255	-14.84	23.8	490.0	0.28	0.69	5.72
256	-14.86	23.8	491.0	0.28	0.69	5.72
257	-14.88	23.8	491.8	0.28	0.69	5.72
258	-14.88	23.9	492.4	0.28	0.69	5.72
259	-14.90	23.9	493.4	0.28	0.69	5.72
260	-14.93	24.0	494.8	0.28	0.69	5.72
261	-14.95	24.1	496.2	0.28	0.69	5.72
262	-14.98	24.1	497.6	0.28	0.69	5.72
263	-15.00	24.2	498.6	0.28	0.69	5.72
264	-15.00	24.3	500.1	0.28	0.69	5.72
265	-15.08	24.4	503.5	0.28	0.69	5.72
266	-15.16	24.6	508.0	0.28	0.68	5.72
267	-15.23	24.9	512.5	0.28	0.68	5.72
268	-15.31	25.1	517.0	0.28	0.68	5.72
269	-15.39	25.3	520.4	0.28	0.68	5.72
270	-15.39	25.3	521.8	0.28	0.68	5.72
271	-15.41	25.4	522.7	0.28	0.68	5.72
272	-15.43	25.4	524.0	0.28	0.68	5.72
273	-15.46	25.5	525.3	0.28	0.68	5.72
274	-15.48	25.6	526.6	0.28	0.68	5.72
275	-15.50	25.6	527.5	0.28	0.68	5.72
276	-15.50	25.7	528.7	0.28	0.68	5.72
277	-15.56	25.8	531.2	0.28	0.68	5.72
278	-15.62	26.0	534.6	0.28	0.67	5.72
279	-15.67	26.1	537.9	0.28	0.67	5.72
280	-15.73	26.3	541.3	0.28	0.67	5.72
281	-15.79	26.4	543.8	0.28	0.67	5.72
282	-15.79	26.5	544.7	0.28	0.67	5.72
283	-15.80	26.5	545.1	0.28	0.67	5.72
284	-15.81	26.5	545.6	0.28	0.67	5.72
285	-15.81	26.5	546.0	0.28	0.67	5.72
286	-15.82	26.5	546.5	0.28	0.67	5.72
287	-15.83	26.6	546.8	0.28	0.67	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	26.6	547.1	0.28	0.67	5.72
289	-15.84	26.6	547.6	0.28	0.67	5.72
290	-15.85	26.6	548.3	0.28	0.67	5.72
291	-15.87	26.7	549.0	0.28	0.67	5.72
292	-15.88	26.7	549.7	0.28	0.67	5.72
293	-15.89	26.7	550.3	0.28	0.67	5.72
294	-15.89	26.8	550.7	0.28	0.67	5.72
295	-15.91	26.8	551.7	0.28	0.67	5.72
296	-15.93	26.9	553.0	0.28	0.67	5.72
297	-15.96	26.9	554.3	0.28	0.67	5.72
298	-15.98	27.0	555.5	0.28	0.67	5.72
299	-16.00	27.0	556.5	0.28	0.67	5.72
300	-16.00	31.1	350.6	0.32	0.67	3.60
301	-16.06	31.3	351.6	0.32	0.78	3.60
302	-16.12	31.4	353.0	0.32	0.78	3.60
303	-16.17	31.6	354.3	0.32	0.78	3.59
304	-16.23	31.7	355.6	0.32	0.78	3.59
305	-16.29	31.9	356.6	0.32	0.78	3.59
306	-16.29	31.9	357.0	0.32	0.78	3.59
307	-16.30	31.9	357.1	0.32	0.78	3.59
308	-16.31	31.9	357.3	0.32	0.78	3.59
309	-16.31	32.0	357.5	0.32	0.78	3.59
310	-16.32	32.0	357.6	0.32	0.78	3.59
311	-16.33	32.0	357.8	0.32	0.78	3.59
312	-16.33	32.0	357.9	0.32	0.78	3.59
313	-16.34	32.0	358.1	0.32	0.78	3.59
314	-16.35	32.1	358.4	0.32	0.78	3.59
315	-16.37	32.1	358.7	0.32	0.78	3.59
316	-16.38	32.2	358.9	0.32	0.78	3.59
317	-16.39	32.2	359.1	0.32	0.78	3.59
318	-16.39	32.2	359.3	0.32	0.78	3.59
319	-16.41	32.2	359.7	0.32	0.78	3.59
320	-16.43	32.3	360.2	0.32	0.78	3.59
321	-16.46	32.4	360.7	0.32	0.78	3.59
322	-16.48	32.4	361.2	0.32	0.78	3.59
323	-16.50	32.5	361.6	0.32	0.78	3.58

7.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.08
5 Veen	18.40
3 Klei/zand (NZ)	50.11
4 Zand (NZ)	27.00
5 Klei (NZ)	190.86
6 zandlaag 1 (NZ)	170.59
7 klei (NZ)	38.17
8 zandlaag 2 (NZ)	0.00

7.4 Invoergegevens Rechts

7.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

7.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

7.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

7.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

7.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

7.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	10.7	0.00	2.38	72.27
2	-3.08	0.0	11.0	0.00	2.38	37.29
3	-3.12	0.0	11.4	0.00	2.38	25.63
4	-3.16	0.0	11.7	0.00	2.38	19.79
5	-3.20	0.0	12.0	0.00	2.74	19.05
6	-3.20	0.0	5.3	0.00	2.74	8.03
7	-3.28	0.0	5.4	0.00	3.19	7.36
8	-3.36	0.0	5.6	0.00	3.48	6.63
9	-3.44	0.0	5.7	0.00	3.68	6.05
10	-3.52	0.0	5.9	0.00	3.82	5.56
11	-3.60	0.0	6.0	0.00	3.92	5.24
12	-3.60	0.0	6.1	0.00	3.92	5.00
13	-3.72	0.0	6.3	0.00	3.99	4.61
14	-3.85	0.0	6.5	0.00	3.99	4.16
15	-3.97	0.0	6.7	0.00	3.78	3.78
16	-4.09	0.0	7.0	0.00	3.45	3.45
17	-4.21	0.0	7.2	0.00	3.23	3.23
18	-4.21	0.0	7.3	0.00	3.10	3.10
19	-4.34	0.0	7.5	0.00	2.92	2.92
20	-4.46	0.0	7.7	0.00	2.69	2.69
21	-4.58	0.0	8.0	0.00	2.50	2.50
22	-4.71	0.0	8.2	0.00	2.32	2.32
23	-4.83	0.0	8.4	0.00	2.20	2.20
24	-4.83	0.0	8.5	0.00	2.16	2.16
25	-4.86	0.0	8.5	0.00	2.13	2.13
26	-4.90	0.0	8.6	0.00	2.09	2.09
27	-4.93	0.0	8.7	0.00	2.05	2.05
28	-4.97	96.9	8.7	22.35	22.35	22.35
29	-5.00	44.7	8.8	10.12	10.12	10.12
30	-5.00	43.1	8.8	9.58	9.58	9.58
31	-5.07	40.6	8.9	8.71	8.71	8.71
32	-5.13	37.4	9.1	7.65	7.65	7.65
33	-5.20	34.5	9.2	6.75	6.75	6.75
34	-5.26	31.9	9.3	5.97	5.97	5.97
35	-5.33	30.1	9.4	5.44	5.44	5.44
36	-5.33	29.1	9.5	5.16	5.16	5.16
37	-5.38	27.8	9.6	4.80	4.80	4.80
38	-5.44	26.1	9.7	4.36	4.36	4.36
39	-5.49	24.6	9.8	3.97	3.97	3.97
40	-5.55	23.2	9.9	3.62	3.62	3.62

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
41	-5.60	22.1	10.0	3.26	3.26	3.26
42	-5.60	18.3	52.9	2.61	2.61	7.53
43	-5.65	17.7	50.4	2.40	2.40	6.86
44	-5.69	16.8	55.7	2.15	2.15	7.16
45	-5.74	15.9	61.7	1.94	1.94	7.51
46	-5.78	15.2	68.5	1.75	1.83	7.91
47	-5.83	14.6	74.0	1.63	1.77	8.23
48	-5.83	14.1	81.4	1.50	1.77	8.67
49	-5.95	14.2	100.7	1.39	1.65	9.84
50	-6.06	17.3	135.5	1.52	1.55	11.92
51	-6.18	18.2	187.9	1.45	1.46	15.02
52	-6.30	18.4	272.1	1.35	1.38	19.92
53	-6.42	18.6	371.5	1.28	1.32	25.58
54	-6.42	18.8	470.8	1.24	1.32	31.17
55	-6.53	19.0	722.7	1.19	1.26	45.25
56	-6.65	19.3	1500.0	1.13	1.22	87.56
57	-6.77	19.6	1808.6	1.07	1.17	98.86
58	-6.88	19.9	153.4	1.02	1.13	7.89
59	-7.00	20.1	156.3	0.99	1.10	7.69
60	-7.00	20.2	158.3	0.97	1.10	7.57
61	-7.12	20.4	161.3	0.94	1.06	7.39
62	-7.24	20.7	165.2	0.90	1.03	7.18
63	-7.36	21.0	169.1	0.87	1.00	6.99
64	-7.48	21.4	173.0	0.84	0.98	6.81
65	-7.60	21.6	175.9	0.81	0.94	6.61
66	-7.60	25.0	187.7	0.92	0.94	6.91
67	-7.65	25.1	201.4	0.91	0.91	7.29
68	-7.69	25.2	224.2	0.89	0.90	7.94
69	-7.74	25.3	250.0	0.88	0.89	8.66
70	-7.78	25.4	277.5	0.86	0.88	9.42
71	-7.83	25.5	300.0	0.85	0.87	10.02
72	-7.83	25.6	320.8	0.84	0.87	10.57
73	-7.90	25.7	363.2	0.83	0.86	11.69
74	-7.98	25.9	406.3	0.81	0.84	12.67
75	-8.05	26.1	397.9	0.79	0.83	12.04
76	-8.13	26.3	395.3	0.77	0.82	11.62
77	-8.20	26.5	393.9	0.76	0.81	11.33
78	-8.20	26.6	393.4	0.75	0.81	11.17
79	-8.26	26.7	392.8	0.75	0.80	10.97
80	-8.32	26.9	392.5	0.73	0.79	10.72
81	-8.38	27.0	392.5	0.72	0.78	10.50
82	-8.44	27.2	392.9	0.71	0.78	10.29
83	-8.50	27.3	393.4	0.71	0.77	10.19
84	-8.50	25.2	350.9	0.65	0.77	9.00
85	-8.58	25.4	352.1	0.64	0.80	8.88
86	-8.65	25.6	353.7	0.63	0.79	8.72
87	-8.73	25.9	355.5	0.62	0.79	8.57
88	-8.80	26.1	357.3	0.62	0.78	8.44
89	-8.88	28.3	358.7	0.66	0.77	8.34
90	-8.88	26.6	359.3	0.61	0.77	8.30
91	-8.90	26.2	359.8	0.60	0.77	8.27
92	-8.93	25.8	360.4	0.59	0.77	8.23
93	-8.95	25.5	361.1	0.58	0.77	8.19
94	-8.98	25.1	361.7	0.57	0.76	8.15
95	-9.00	24.9	362.2	0.56	0.76	8.12
96	-9.00	24.5	362.8	0.55	0.76	8.08
97	-9.08	23.7	364.4	0.52	0.76	8.00
98	-9.15	22.8	366.5	0.49	0.75	7.89
99	-9.23	21.9	368.7	0.46	0.74	7.79
100	-9.30	21.1	370.9	0.44	0.74	7.69
101	-9.38	20.6	372.6	0.42	0.73	7.63
102	-9.38	21.0	373.1	0.43	0.73	7.60
103	-9.38	20.2	373.2	0.41	0.73	7.60
104	-9.38	20.2	373.2	0.41	0.73	7.60

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
105	-9.39	20.2	373.3	0.41	0.73	7.60
106	-9.39	20.2	373.4	0.41	0.73	7.59
107	-9.39	21.0	373.4	0.43	0.73	7.59
108	-9.39	20.1	373.6	0.41	0.73	7.58
109	-9.41	20.1	374.1	0.41	0.73	7.57
110	-9.43	19.9	374.7	0.40	0.73	7.54
111	-9.46	19.7	375.4	0.39	0.73	7.52
112	-9.48	16.8	371.8	0.33	0.73	7.40
113	-9.50	24.8	373.6	0.49	0.73	7.41
114	-9.50	17.3	387.9	0.34	0.73	7.66
115	-9.56	19.0	412.0	0.37	0.72	8.06
116	-9.62	19.0	464.2	0.37	0.72	8.96
117	-9.67	19.2	462.1	0.37	0.72	8.81
118	-9.73	19.4	461.2	0.36	0.71	8.68
119	-9.79	19.5	460.9	0.36	0.71	8.60
120	-9.79	19.6	460.8	0.36	0.71	8.56
121	-9.81	19.6	460.8	0.36	0.71	8.53
122	-9.83	19.7	460.7	0.36	0.71	8.50
123	-9.84	19.8	460.7	0.36	0.71	8.47
124	-9.86	19.8	460.7	0.36	0.70	8.44
125	-9.88	19.9	460.8	0.36	0.70	8.41
126	-9.88	19.9	460.8	0.36	0.70	8.40
127	-9.88	19.9	460.8	0.36	0.70	8.40
128	-9.88	19.9	460.8	0.36	0.70	8.40
129	-9.89	19.9	460.8	0.36	0.70	8.40
130	-9.89	19.9	460.8	0.36	0.70	8.39
131	-9.89	19.9	460.8	0.36	0.70	8.39
132	-9.89	20.0	460.9	0.36	0.70	8.36
133	-9.97	20.2	461.2	0.36	0.70	8.26
134	-10.05	20.5	461.9	0.36	0.69	8.14
135	-10.13	20.7	462.9	0.36	0.69	8.03
136	-10.21	21.0	464.1	0.36	0.69	7.93
137	-10.29	21.2	465.1	0.36	0.68	7.85
138	-10.29	21.3	414.5	0.36	0.68	6.97
139	-10.31	21.3	385.0	0.36	0.68	6.45
140	-10.33	21.4	385.7	0.36	0.68	6.44
141	-10.34	21.4	386.3	0.36	0.68	6.43
142	-10.36	21.5	387.0	0.36	0.68	6.42
143	-10.38	21.5	387.5	0.36	0.68	6.41
144	-10.38	21.6	387.7	0.36	0.68	6.41
145	-10.38	21.6	387.7	0.36	0.68	6.41
146	-10.38	21.6	387.8	0.36	0.68	6.41
147	-10.39	21.6	387.9	0.36	0.68	6.41
148	-10.39	21.6	388.0	0.36	0.68	6.41
149	-10.39	21.6	388.0	0.36	0.68	6.41
150	-10.39	21.7	388.8	0.36	0.68	6.39
151	-10.47	21.9	391.1	0.36	0.68	6.36
152	-10.55	22.1	394.2	0.35	0.67	6.32
153	-10.64	22.4	397.2	0.35	0.67	6.27
154	-10.72	22.7	400.3	0.35	0.67	6.23
155	-10.80	22.9	402.6	0.35	0.66	6.20
156	-10.80	23.0	403.4	0.35	0.66	6.19
157	-10.81	23.0	403.6	0.35	0.66	6.19
158	-10.81	23.0	403.8	0.35	0.66	6.19
159	-10.82	23.0	404.0	0.35	0.66	6.18
160	-10.82	23.0	404.3	0.35	0.66	6.18
161	-10.83	23.0	404.4	0.35	0.66	6.18
162	-10.83	23.1	405.3	0.35	0.66	6.17
163	-10.92	23.4	407.9	0.35	0.66	6.14
164	-11.01	23.7	411.4	0.35	0.65	6.09
165	-11.11	24.0	414.8	0.35	0.65	6.05
166	-11.20	24.3	418.3	0.35	0.65	6.02
167	-11.29	24.5	420.9	0.35	0.65	5.99
168	-11.29	24.6	421.9	0.35	0.65	5.98

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
169	-11.31	24.6	422.5	0.35	0.65	5.97
170	-11.33	24.7	423.1	0.35	0.64	5.97
171	-11.34	24.7	423.8	0.35	0.64	5.96
172	-11.36	24.8	424.5	0.35	0.64	5.95
173	-11.38	24.8	425.0	0.35	0.64	5.95
174	-11.38	24.8	425.2	0.35	0.64	5.95
175	-11.38	24.9	425.2	0.35	0.64	5.94
176	-11.38	24.9	425.3	0.35	0.64	5.94
177	-11.39	24.9	425.4	0.35	0.64	5.94
178	-11.39	24.9	425.5	0.35	0.64	5.94
179	-11.39	24.9	425.5	0.35	0.64	5.94
180	-11.39	24.9	425.8	0.35	0.64	5.94
181	-11.41	24.9	426.4	0.35	0.64	5.93
182	-11.43	25.0	427.2	0.35	0.64	5.93
183	-11.46	25.1	428.0	0.35	0.64	5.92
184	-11.48	25.2	428.9	0.35	0.64	5.91
185	-11.50	25.2	429.5	0.35	0.64	5.90
186	-11.50	25.3	430.4	0.35	0.64	5.89
187	-11.58	25.5	432.6	0.35	0.64	5.87
188	-11.66	25.7	435.6	0.35	0.64	5.85
189	-11.73	26.0	438.5	0.34	0.63	5.82
190	-11.81	26.2	441.5	0.34	0.63	5.79
191	-11.89	26.4	443.7	0.34	0.63	5.78
192	-11.89	26.5	445.2	0.34	0.63	5.76
193	-11.97	27.4	447.5	0.35	0.63	5.75
194	-12.05	25.4	450.5	0.32	0.63	5.72
195	-12.13	25.9	453.6	0.33	0.62	5.70
196	-12.21	26.1	456.6	0.32	0.62	5.68
197	-12.29	26.3	458.9	0.32	0.62	5.66
198	-12.29	26.4	459.8	0.32	0.62	5.65
199	-12.31	26.5	460.3	0.32	0.62	5.65
200	-12.33	26.5	461.0	0.32	0.62	5.64
201	-12.34	26.6	461.7	0.32	0.62	5.64
202	-12.36	26.6	462.4	0.32	0.62	5.63
203	-12.38	26.7	462.9	0.32	0.62	5.63
204	-12.38	26.7	463.1	0.32	0.62	5.63
205	-12.38	26.7	463.1	0.32	0.62	5.63
206	-12.38	26.7	463.2	0.32	0.62	5.63
207	-12.39	26.7	463.3	0.32	0.62	5.63
208	-12.39	26.7	463.4	0.32	0.62	5.63
209	-12.39	26.7	463.4	0.32	0.62	5.63
210	-12.39	26.7	463.6	0.32	0.62	5.63
211	-12.41	26.8	464.3	0.32	0.62	5.62
212	-12.43	26.9	465.1	0.32	0.62	5.61
213	-12.46	26.9	465.9	0.32	0.62	5.61
214	-12.48	27.0	466.8	0.32	0.62	5.60
215	-12.50	27.1	467.4	0.32	0.62	5.60
216	-12.50	27.1	468.2	0.32	0.62	5.59
217	-12.56	27.3	469.8	0.32	0.61	5.58
218	-12.62	27.4	472.0	0.32	0.61	5.57
219	-12.67	27.6	474.2	0.32	0.61	5.56
220	-12.73	27.8	476.5	0.32	0.61	5.54
221	-12.79	27.9	478.1	0.32	0.61	5.53
222	-12.79	28.0	479.1	0.32	0.61	5.53
223	-12.83	28.1	480.3	0.32	0.61	5.52
224	-12.87	28.3	481.9	0.32	0.61	5.51
225	-12.92	28.4	483.5	0.32	0.61	5.50
226	-12.96	28.5	485.1	0.32	0.61	5.49
227	-13.00	28.6	486.3	0.32	0.60	5.48
228	-13.00	28.6	576.7	0.32	0.60	6.48
229	-13.04	29.4	578.3	0.33	0.56	6.47
230	-13.08	29.9	580.4	0.33	0.56	6.46
231	-13.12	30.8	582.6	0.34	0.56	6.45
232	-13.16	31.0	584.7	0.34	0.56	6.44

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
233	-13.20	31.0	586.3	0.34	0.56	6.43
234	-13.20	31.1	587.2	0.34	0.56	6.43
235	-13.23	31.2	588.2	0.34	0.56	6.42
236	-13.25	31.2	589.6	0.34	0.56	6.42
237	-13.28	31.3	591.0	0.34	0.56	6.41
238	-13.30	31.4	592.4	0.34	0.56	6.40
239	-13.33	31.5	593.5	0.34	0.56	6.40
240	-13.33	31.6	595.8	0.34	0.56	6.39
241	-13.48	31.9	601.7	0.34	0.56	6.37
242	-13.62	32.4	609.7	0.34	0.55	6.34
243	-13.77	32.8	617.7	0.33	0.55	6.31
244	-13.91	33.2	625.7	0.33	0.55	6.28
245	-14.06	33.6	631.7	0.33	0.55	6.26
246	-14.06	33.8	635.8	0.33	0.55	6.25
247	-14.21	34.1	641.9	0.33	0.55	6.23
248	-14.35	34.6	650.0	0.33	0.54	6.21
249	-14.50	35.0	657.1	0.33	0.54	6.18
250	-14.64	35.4	729.6	0.33	0.54	6.76
251	-14.79	35.8	738.2	0.33	0.54	6.76
252	-14.79	35.9	740.3	0.33	0.54	6.75
253	-14.81	35.9	741.0	0.33	0.54	6.75
254	-14.83	36.0	741.9	0.33	0.54	6.74
255	-14.84	36.0	742.8	0.33	0.54	6.74
256	-14.86	36.1	743.7	0.33	0.54	6.73
257	-14.88	36.1	744.4	0.33	0.54	6.73
258	-14.88	36.2	745.0	0.33	0.54	6.73
259	-14.90	36.2	745.9	0.33	0.54	6.72
260	-14.93	36.3	747.1	0.33	0.54	6.72
261	-14.95	36.4	748.4	0.33	0.54	6.71
262	-14.98	36.4	749.6	0.33	0.54	6.71
263	-15.00	36.5	750.6	0.33	0.54	6.70
264	-15.00	36.6	751.9	0.33	0.54	6.70
265	-15.08	36.7	754.9	0.33	0.53	6.69
266	-15.16	37.0	759.0	0.32	0.53	6.67
267	-15.23	37.2	763.1	0.32	0.53	6.65
268	-15.31	37.4	767.2	0.32	0.53	6.64
269	-15.39	37.6	770.4	0.32	0.53	6.63
270	-15.39	37.7	771.7	0.32	0.53	6.62
271	-15.41	37.7	772.6	0.32	0.53	6.62
272	-15.43	37.8	773.7	0.32	0.53	6.62
273	-15.46	37.9	774.9	0.32	0.53	6.61
274	-15.48	37.9	776.1	0.32	0.53	6.61
275	-15.50	38.0	777.0	0.32	0.53	6.61
276	-15.50	38.0	778.0	0.32	0.53	6.60
277	-15.56	38.2	780.4	0.32	0.53	6.59
278	-15.62	38.3	783.5	0.32	0.53	6.58
279	-15.67	38.5	786.6	0.32	0.53	6.57
280	-15.73	38.7	789.7	0.32	0.53	6.56
281	-15.79	38.8	792.1	0.32	0.53	6.56
282	-15.79	38.9	793.0	0.32	0.53	6.55
283	-15.80	38.9	793.3	0.32	0.53	6.55
284	-15.81	38.9	793.7	0.32	0.53	6.55
285	-15.81	38.9	794.2	0.32	0.53	6.55
286	-15.82	38.9	794.6	0.32	0.53	6.55
287	-15.83	39.0	794.9	0.32	0.53	6.55
288	-15.83	39.0	795.2	0.32	0.53	6.55
289	-15.84	39.0	795.7	0.32	0.53	6.55
290	-15.85	39.0	796.3	0.32	0.53	6.55
291	-15.87	39.1	797.0	0.32	0.53	6.54
292	-15.88	39.1	797.7	0.32	0.53	6.54
293	-15.89	39.1	798.1	0.32	0.53	6.54
294	-15.89	39.2	798.6	0.32	0.53	6.54
295	-15.91	39.2	799.5	0.32	0.53	6.54
296	-15.93	39.3	800.7	0.32	0.53	6.53

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
297	-15.96	39.3	801.9	0.32	0.53	6.53
298	-15.98	39.4	803.1	0.32	0.53	6.53
299	-16.00	39.5	804.0	0.32	0.53	6.53
300	-16.00	44.5	586.0	0.36	0.53	4.75
301	-16.06	44.6	587.0	0.36	0.62	4.74
302	-16.12	44.8	588.4	0.36	0.62	4.74
303	-16.17	44.9	589.8	0.36	0.62	4.73
304	-16.23	45.1	591.2	0.36	0.62	4.72
305	-16.29	45.2	592.2	0.36	0.62	4.72
306	-16.29	45.3	592.6	0.36	0.62	4.72
307	-16.30	45.3	592.7	0.36	0.62	4.72
308	-16.31	45.3	592.9	0.36	0.62	4.72
309	-16.31	45.3	593.1	0.36	0.62	4.71
310	-16.32	45.4	593.3	0.36	0.62	4.71
311	-16.33	45.4	593.5	0.36	0.62	4.71
312	-16.33	45.4	593.6	0.36	0.62	4.71
313	-16.34	45.4	593.8	0.36	0.62	4.71
314	-16.35	45.4	594.1	0.36	0.62	4.71
315	-16.37	45.5	594.4	0.36	0.62	4.71
316	-16.38	45.5	594.6	0.36	0.62	4.71
317	-16.39	45.5	594.9	0.36	0.62	4.71
318	-16.39	45.6	595.1	0.36	0.62	4.70
319	-16.41	45.6	595.5	0.36	0.62	4.70
320	-16.43	45.7	596.0	0.36	0.62	4.70
321	-16.46	45.7	596.5	0.36	0.62	4.70
322	-16.48	45.8	597.0	0.36	0.62	4.70
323	-16.50	45.8	597.4	0.36	0.61	4.69

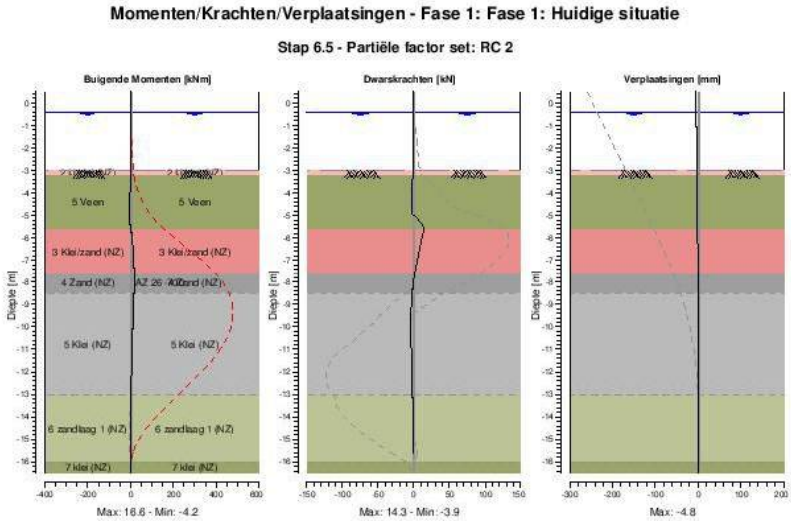
7.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	0.00
5 Veen	33.76
3 Klei/zand (NZ)	37.14
4 Zand (NZ)	23.09
5 Klei (NZ)	191.34
6 zandlaag 1 (NZ)	172.78
7 klei (NZ)	38.09
8 zandlaag 2 (NZ)	0.00

7.7 Berekeningsresultaten

Aantal iteraties: 4

7.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



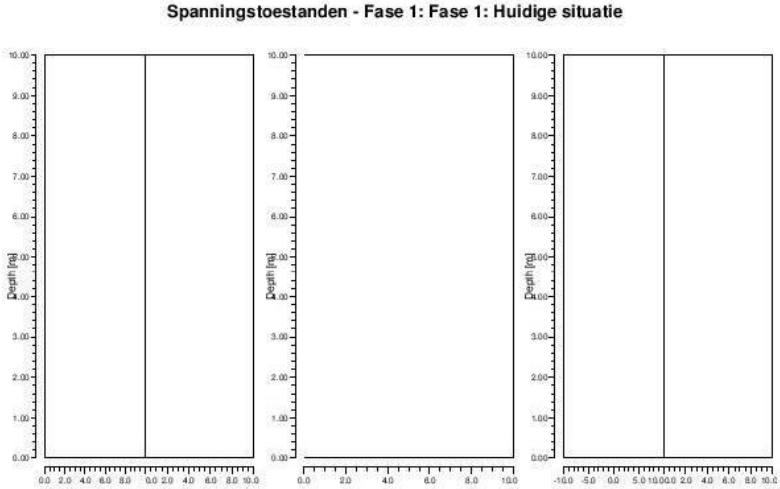
7.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-4.8**
1	0.40	0.00	0.00	-4.7
2	0.40	0.00	0.00	-4.7
2	0.20	0.00	0.00	-4.6
3	0.20	0.00	0.00	-4.6
3	0.17	0.00	0.00	-4.6
4	0.17	0.00	0.00	-4.6
4	0.00	0.00	0.00	-4.5
5	0.00	0.00	0.00	-4.5
5	-0.10	0.00	0.00	-4.4
6	-0.10	0.00	0.00	-4.4
6	-0.20	0.00	0.00	-4.4
7	-0.20	0.00	0.00	-4.4
7	-0.33	0.00	0.00	-4.3
8	-0.33	0.00	0.00	-4.3
8	-0.40	0.00	0.00	-4.3
9	-0.40	0.00	0.00	-4.3
9	-0.60	0.00	0.00	-4.2
10	-0.60	0.00	0.00	-4.2
10	-1.33	0.00	0.00	-3.8
11	-1.33	0.00	0.00	-3.8
11	-1.50	0.00	0.00	-3.7
12	-1.50	0.00	0.00	-3.7
12	-1.60	0.00	0.00	-3.7
13	-1.60	0.00	0.00	-3.7
13	-1.83	0.00	0.00	-3.5
14	-1.83	0.00	0.00	-3.5
14	-2.00	0.00	0.00	-3.5
15	-2.00	0.00	0.00	-3.5
15	-2.15	0.00	0.00	-3.4
16	-2.15	0.00	0.00	-3.4

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-3.4
17	-2.20	0.00	0.00	-3.4
17	-2.33	0.00	0.00	-3.3
18	-2.33	0.00	0.00	-3.3
18	-2.60	0.00	0.00	-3.1
19	-2.60	0.00	0.00	-3.1
19	-3.00	0.00	0.00	-2.9
20	-3.00	0.00	0.00	-2.9
20	-3.20	-0.09	-1.08	-2.8
21	-3.20	-0.09	-1.08	-2.8
21	-3.60	-0.80	-2.22	-2.6
22	-3.60	-0.80	-2.22	-2.6
22	-4.21	-2.28	-2.52	-2.3
23	-4.21	-2.28	-2.52	-2.3
23	-4.83	-3.89	-2.71	-2.0
24	-4.83	-3.89	-2.71	-2.0
24	-5.00	-4.24	0.94	-1.9
25	-5.00	-4.24	0.94	-1.9
25	-5.33	-2.30	10.01	-1.7
26	-5.33	-2.30	10.01	-1.7
26	-5.60	1.03	**14.28**	-1.6
27	-5.60	1.03	**14.28**	-1.6
27	-5.83	4.17	12.94	-1.4
28	-5.83	4.17	12.94	-1.4
28	-6.42	10.43	8.82	-1.1
29	-6.42	10.43	8.82	-1.1
29	-7.00	14.50	5.10	-0.8
30	-7.00	14.50	5.10	-0.8
30	-7.60	16.39	1.31	-0.6
31	-7.60	16.39	1.31	-0.6
31	-7.83	**16.58**	0.34	-0.5
32	-7.83	**16.58**	0.34	-0.5
32	-8.20	16.41	-1.25	-0.4
33	-8.20	16.41	-1.25	-0.4
33	-8.50	15.83	-2.59	-0.3
34	-8.50	15.83	-2.60	-0.3
34	-8.88	14.71	-3.24	-0.2
35	-8.88	14.71	-3.24	-0.2
35	-9.00	14.32	-3.39	-0.2
36	-9.00	14.32	-3.39	-0.2
36	-9.38	12.96	-3.72	-0.1
37	-9.38	12.96	-3.72	-0.1
37	-9.39	12.92	-3.72	-0.1
38	-9.39	12.92	-3.72	-0.1
38	-9.50	12.51	-3.78	-0.1
39	-9.50	12.51	-3.78	-0.1
39	-9.79	11.40	-3.86	0.0
40	-9.79	11.40	-3.86	0.0
40	-9.88	11.05	-3.86	0.0
41	-9.88	11.05	-3.86	0.0
41	-9.89	11.01	-3.86	0.0
42	-9.89	11.01	-3.86	0.0
42	-10.29	9.47	-3.81	0.0
43	-10.29	9.47	-3.81	0.0
43	-10.38	9.13	-3.78	0.0
44	-10.38	9.13	-3.78	0.0
44	-10.39	9.09	-3.78	0.0
45	-10.39	9.09	-3.78	0.0
45	-10.80	7.58	-3.59	0.1
46	-10.80	7.58	-3.59	0.1
46	-10.83	7.47	-3.57	0.1
47	-10.83	7.47	-3.57	0.1
47	-11.29	5.89	-3.29	0.1
48	-11.29	5.89	-3.29	0.1
48	-11.38	5.60	-3.22	0.1

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	5.60	-3.22	0.1
49	-11.39	5.57	-3.22	0.1
50	-11.39	5.57	-3.22	0.1
50	-11.50	5.22	-3.14	0.1
51	-11.50	5.22	-3.14	0.1
51	-11.89	4.05	-2.86	0.1
52	-11.89	4.05	-2.86	0.1
52	-12.29	2.96	-2.57	0.1
53	-12.29	2.96	-2.57	0.1
53	-12.38	2.73	-2.51	0.1
54	-12.38	2.73	-2.51	0.1
54	-12.39	2.71	-2.50	0.1
55	-12.39	2.71	-2.50	0.1
55	-12.50	2.43	-2.43	0.1
56	-12.50	2.43	-2.43	0.1
56	-12.79	1.76	-2.24	0.1
57	-12.79	1.76	-2.24	0.1
57	-13.00	1.30	-2.11	0.1
58	-13.00	1.30	-2.11	0.1
58	-13.20	0.91	-1.75	0.1
59	-13.20	0.91	-1.75	0.1
59	-13.33	0.70	-1.53	0.1
60	-13.33	0.70	-1.53	0.1
60	-14.06	-0.03	-0.54	0.0
61	-14.06	-0.03	-0.54	0.0
61	-14.79	-0.20	0.03	0.0
62	-14.79	-0.20	0.03	0.0
62	-14.88	-0.19	0.07	0.0
63	-14.88	-0.19	0.07	0.0
63	-15.00	-0.18	0.11	0.0
64	-15.00	-0.18	0.11	0.0
64	-15.39	-0.12	0.19	0.0
65	-15.39	-0.12	0.19	0.0
65	-15.50	-0.10	0.19	0.0
66	-15.50	-0.10	0.19	0.0
66	-15.79	-0.05	0.15	0.0
67	-15.79	-0.05	0.15	0.0
67	-15.83	-0.04	0.14	0.0
68	-15.83	-0.04	0.14	0.0
68	-15.89	-0.03	0.12	0.0
69	-15.89	-0.03	0.12	0.0
69	-16.00	-0.02	0.08	0.0
70	-16.00	-0.02	0.08	0.0
70	-16.29	0.00	0.04	0.0
71	-16.29	0.00	0.04	0.0
71	-16.33	0.00	0.03	0.0
72	-16.33	0.00	0.03	0.0
72	-16.39	0.00	0.02	0.0
73	-16.39	0.00	0.02	0.0
73	-16.50	0.00	0.00	0.0
Max		**16.58**	**14.28**	**-4.8**
Max incl. tussenknopen		16.59	14.28	-4.8

7.7.3 Grafieken van Spanningen



7.7.4 Spanningen

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	6.95	27.47	2	52	0.00	27.47	A	
21	-3.20	3.73	27.47	2	61	0.00	27.47	A	
21	-3.60	5.39	31.39	3	82	4.01	31.39	2	
22	-3.60	5.51	31.39	3	83	4.30	31.39	2	
22	-4.21	7.57	37.43	P		7.27	37.43	3	
23	-4.21	7.69	37.43	P		7.38	37.43	3	
23	-4.83	8.74	43.46	P		8.43	43.46	3	
24	-4.83	8.82	43.46	P		8.51	43.46	3	
24	-5.00	9.11	45.13	P		45.71	45.13	A	
25	-5.00	9.16	45.13	P		44.04	45.13	A	
25	-5.33	9.74	48.36	P		30.67	48.36	A	
26	-5.33	9.80	48.36	P		29.62	48.36	A	
26	-5.60	9.66	51.01	P		21.73	51.01	A	
27	-5.60	22.69	51.01	1	45	17.83	51.01	A	35
27	-5.83	21.95	53.27	2	50	14.30	53.27	A	
28	-5.83	22.47	53.27	2	51	13.83	53.27	A	
28	-6.42	24.29	59.01	1	41	18.39	59.01	A	
29	-6.42	25.12	59.01	1	42	18.54	59.01	A	
29	-7.00	26.05	64.75	1	34	19.88	64.75	A	
30	-7.00	26.73	64.75	1	34	20.03	64.75	A	
30	-7.60	27.10	70.63	1	29	21.71	70.63	1	
31	-7.60	29.28	70.63	1	30	24.42	70.63	A	
31	-7.83	29.07	72.89	1	27	24.99	72.89	A	
32	-7.83	29.48	72.89	1	27	25.07	72.89	A	
32	-8.20	30.24	76.52	1	23	26.01	76.52	A	
33	-8.20	30.65	76.52	1	23	26.10	76.52	A	
33	-8.50	31.57	79.46	1	21	27.29	79.46	1	
34	-8.50	30.82	79.46	1	24	28.73	79.46	1	
34	-8.88	33.52	82.34	1	23	32.19	82.34	1	
35	-8.88	33.77	82.34	1	23	32.42	82.34	1	
35	-9.00	34.19	83.25	1	23	33.05	83.25	1	
36	-9.00	34.43	83.25	1	23	33.27	83.25	1	
36	-9.38	35.78	86.14	1	22	35.21	86.14	1	
37	-9.38	35.97	86.14	1	22	35.38	86.14	1	
37	-9.39	36.00	86.21	1	22	35.43	86.21	1	
38	-9.39	36.06	86.21	1	22	35.48	86.21	1	
38	-9.50	36.46	87.05	1	22	36.02	87.05	1	
39	-9.50	36.64	87.05	1	22	36.19	87.05	1	
39	-9.79	37.71	89.25	1	21	37.60	89.25	1	
40	-9.79	37.88	89.25	1	21	37.75	89.25	1	
40	-9.88	38.21	89.93	1	21	38.18	89.93	1	
41	-9.88	38.26	89.93	1	21	38.22	89.93	1	
41	-9.89	38.29	90.01	1	21	38.27	90.01	1	
42	-9.89	38.48	90.01	1	21	38.43	90.01	1	
42	-10.29	39.99	93.04	1		40.29	93.04	1	9
43	-10.29	40.20	93.04	1		40.48	93.04	1	10
43	-10.38	40.54	93.73	1		40.89	93.73	1	11
44	-10.38	40.59	93.73	1		40.93	93.73	1	11
44	-10.39	40.63	93.80	1		40.97	93.80	1	11
45	-10.39	40.80	93.80	1		41.13	93.80	1	11
45	-10.80	42.40	96.91	1		42.96	96.91	1	11
46	-10.80	42.58	96.91	1		43.12	96.91	1	11
46	-10.83	42.70	97.14	1		43.26	97.14	1	11
47	-10.83	42.90	97.14	1		43.44	97.14	1	11
47	-11.29	44.72	100.63	1		45.42	100.63	1	11

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
48	-11.29	44.94	100.63	1		45.62	100.63	1	11
48	-11.38	45.30	101.31	1		46.00	101.31	1	11
49	-11.38	45.34	101.31	1		46.04	101.31	1	11
49	-11.39	45.38	101.39	1		46.08	101.39	1	11
50	-11.39	45.43	101.39	1		46.12	101.39	1	11
50	-11.50	45.87	102.22	1		46.59	102.22	1	11
51	-11.50	46.07	102.22	1		46.76	102.22	1	11
51	-11.89	47.65	105.18	1		48.39	105.18	1	11
52	-11.89	47.95	105.18	1		48.66	105.18	1	11
52	-12.29	49.59	108.22	1		50.31	108.22	1	11
53	-12.29	49.77	108.22	1		50.47	108.22	1	11
53	-12.38	50.15	108.90	1		50.84	108.90	1	11
54	-12.38	50.18	108.90	1		50.87	108.90	1	11
54	-12.39	50.22	108.98	1		50.91	108.98	1	11
55	-12.39	50.27	108.98	1		50.95	108.98	1	11
55	-12.50	50.72	109.81	1		51.40	109.81	1	11
56	-12.50	50.87	109.81	1		51.53	109.81	1	11
56	-12.79	52.07	112.01	1		52.71	112.01	1	11
57	-12.79	52.25	112.01	1		52.87	112.01	1	11
57	-13.00	53.00	113.61	1		53.63	113.61	1	11
58	-13.00	52.53	113.61	1		54.40	113.61	1	9
58	-13.20	49.89	115.57	1		51.64	115.57	1	9
59	-13.20	50.02	115.57	1		51.75	115.57	1	9
59	-13.33	50.61	116.84	1		52.25	116.84	1	9
60	-13.33	50.93	116.84	1		52.53	116.84	1	9
60	-14.06	54.26	124.00	1		55.36	124.00	1	9
61	-14.06	54.79	124.00	1		55.82	124.00	1	9
61	-14.79	58.12	131.17	1		58.65	131.17	1	8
62	-14.79	58.41	131.17	1		58.90	131.17	1	8
62	-14.88	58.82	132.05	1		59.25	132.05	1	8
63	-14.88	58.89	132.05	1		59.32	132.05	1	8
63	-15.00	59.44	133.23	1		59.78	133.23	1	8
64	-15.00	59.62	133.23	1		59.94	133.23	1	8
64	-15.39	61.39	137.05	1	12	61.46	137.05	1	
65	-15.39	61.57	137.05	1	12	61.61	137.05	1	
65	-15.50	62.07	138.13	1	12	62.04	138.13	1	
66	-15.50	62.20	138.13	1	12	62.16	138.13	1	
66	-15.79	63.52	140.98	1	12	63.29	140.98	1	
67	-15.79	63.64	140.98	1	12	63.38	140.98	1	
67	-15.83	63.82	141.37	1	12	63.54	141.37	1	
68	-15.83	63.85	141.37	1	12	63.57	141.37	1	
68	-15.89	64.12	141.96	1	12	63.80	141.96	1	
69	-15.89	64.18	141.96	1	12	63.85	141.96	1	
69	-16.00	64.73	143.04	1	12	64.32	143.04	1	
70	-16.00	64.68	143.04	1	19	64.57	143.04	1	
70	-16.29	77.08	145.88	1	22	76.92	145.88	1	
71	-16.29	77.18	145.88	1	22	77.01	145.88	1	
71	-16.33	77.33	146.27	1	22	77.15	146.27	1	
72	-16.33	77.35	146.27	1	22	77.17	146.27	1	
72	-16.39	77.58	146.86	1	22	77.39	146.86	1	
73	-16.39	77.63	146.86	1	22	77.43	146.86	1	
73	-16.50	77.99	147.94	1	22	77.78	147.94	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

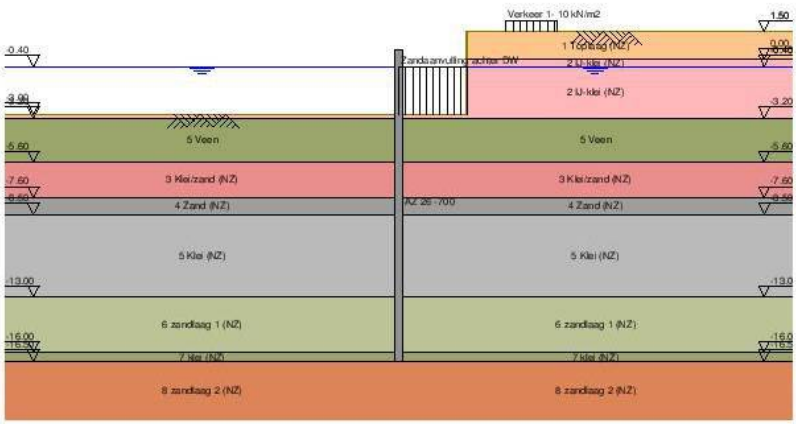
7.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	496.2	496.2
Water	1213.9	1213.9
Totaal	1710.1	1710.1

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2814.08 kN
Gemobiliseerde passieve eff. weerstand	496.20 kN
Percentage gemobiliseerde weerstand	17.6 %

8 Overzicht Fase 2: Fase 2: Aanvullen achter damwand+ged. verkeersbela

Overzicht - Fase 2: Fase 2: Aanvullen achter damwand+ged. verkeersbela



9 Stap 6.3 Fase 2: Fase 2: Aanvullen achter damwand+ged. verkeersbela

9.1 Invoergegevens Links

9.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

9.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

9.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

9.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

9.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

9.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

9.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.53
5 Veen	16.25
3 Klei/zand (NZ)	92.62
4 Zand (NZ)	69.39
5 Klei (NZ)	264.93
6 zandlaag 1 (NZ)	133.34
7 klei (NZ)	36.22
8 zandlaag 2 (NZ)	0.00

9.4 Invoergegevens Rechts

9.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

9.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

9.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

9.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-50% wos

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

9.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

9.4.6 Bovenbelastingen

Naam	Afstand [m]	Belasting [kN/m²]
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00
Verkeer 1- 10 kN/m2	6.30	0.00
	9.30	0.00

9.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	20.5	99.8	0.45	1.06	2.21
2	-3.08	20.6	100.1	0.45	1.15	2.21
3	-3.12	20.7	100.4	0.45	1.04	2.21
4	-3.16	20.7	100.7	0.45	0.98	2.21
5	-3.20	20.8	100.9	0.46	0.95	2.21
6	-3.20	12.9	40.4	0.32	0.95	1.01
7	-3.28	12.9	40.4	0.56	1.74	1.74
8	-3.36	13.0	40.5	0.56	1.73	1.73
9	-3.44	13.0	40.5	0.56	1.72	1.73
10	-3.52	13.1	40.6	0.56	1.68	1.73
11	-3.60	13.2	40.7	0.56	1.64	1.72
12	-3.60	13.2	40.7	0.56	1.64	1.72
13	-3.72	13.3	40.9	0.56	1.59	1.72
14	-3.85	13.4	41.0	0.56	1.54	1.72
15	-3.97	13.4	41.2	0.56	1.49	1.72
16	-4.09	13.5	41.4	0.56	1.45	1.71
17	-4.21	13.6	41.6	0.56	1.40	1.71
18	-4.21	13.7	41.7	0.56	1.40	1.71
19	-4.34	13.7	41.8	0.56	1.36	1.71
20	-4.46	13.8	42.0	0.56	1.32	1.71
21	-4.58	13.9	42.3	0.56	1.29	1.71
22	-4.71	14.0	42.5	0.56	1.25	1.71
23	-4.83	142.7	42.6	5.73	5.73	5.73
24	-4.83	65.8	42.7	2.64	2.64	2.64
25	-4.86	64.2	42.8	2.57	2.57	2.57
26	-4.90	62.1	42.8	2.48	2.48	2.48
27	-4.93	60.3	42.9	2.41	2.41	2.41
28	-4.97	58.4	42.9	2.33	2.33	2.33
29	-5.00	57.3	43.0	2.28	2.28	2.28
30	-5.00	55.8	43.0	2.22	2.22	2.22
31	-5.07	53.6	43.1	2.13	2.13	2.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	50.7	43.2	2.01	2.01	2.01
33	-5.20	48.2	43.4	1.90	1.90	1.90
34	-5.26	45.8	43.5	1.81	1.81	1.81
35	-5.33	44.2	43.6	1.74	1.74	1.74
36	-5.33	43.3	43.6	1.70	1.70	1.71
37	-5.38	42.1	43.7	1.65	1.65	1.71
38	-5.44	40.6	43.8	1.59	1.59	1.71
39	-5.49	39.1	43.9	1.53	1.53	1.72
40	-5.55	37.9	44.0	1.48	1.48	1.72
41	-5.60	36.8	44.1	1.42	1.42	1.70
42	-5.60	31.6	231.9	1.00	1.03	7.32
43	-5.65	31.4	220.7	0.64	0.64	4.52
44	-5.69	30.9	227.1	0.63	0.63	4.63
45	-5.74	30.6	236.1	0.62	0.62	4.78
46	-5.78	30.2	245.8	0.61	0.61	4.95
47	-5.83	30.0	253.5	0.60	0.60	5.08
48	-5.83	29.7	263.2	0.59	0.59	5.25
49	-5.95	29.1	286.7	0.57	0.57	5.65
50	-6.06	28.3	323.7	0.55	0.56	6.29
51	-6.18	27.6	369.2	0.53	0.56	7.07
52	-6.30	27.0	425.6	0.51	0.55	8.04
53	-6.42	26.5	477.3	0.50	0.55	8.92
54	-6.42	26.2	517.1	0.49	0.55	9.60
55	-6.53	25.8	588.6	0.47	0.54	10.81
56	-6.65	25.3	709.0	0.46	0.54	12.84
57	-6.77	24.8	871.0	0.44	0.53	15.57
58	-6.88	24.3	435.5	0.43	0.53	7.68
59	-7.00	24.0	214.0	0.42	0.52	3.74
60	-7.00	23.8	215.4	0.41	0.52	3.74
61	-7.12	23.5	217.5	0.40	0.52	3.74
62	-7.24	23.1	220.3	0.39	0.52	3.74
63	-7.36	22.7	218.5	0.38	0.51	3.66
64	-7.48	22.4	219.1	0.37	0.51	3.62
65	-7.60	22.1	220.5	0.36	0.51	3.59
66	-7.60	22.6	254.6	0.37	0.51	4.12
67	-7.65	22.5	256.0	0.36	0.49	4.12
68	-7.69	22.5	257.9	0.36	0.49	4.12
69	-7.74	22.4	259.7	0.35	0.49	4.12
70	-7.78	22.3	261.6	0.35	0.49	4.12
71	-7.83	22.3	263.0	0.35	0.49	4.12
72	-7.83	22.2	264.3	0.35	0.49	4.12
73	-7.90	22.2	266.6	0.34	0.49	4.12
74	-7.98	22.1	269.6	0.34	0.49	4.12
75	-8.05	22.0	272.7	0.33	0.49	4.12
76	-8.13	21.9	275.7	0.33	0.49	4.12
77	-8.20	21.9	278.1	0.32	0.49	4.12
78	-8.20	21.8	279.4	0.32	0.49	4.12
79	-8.26	21.8	281.3	0.32	0.48	4.12
80	-8.32	21.7	283.8	0.32	0.48	4.12
81	-8.38	21.7	286.3	0.31	0.48	4.13
82	-8.44	21.7	288.9	0.31	0.48	4.13
83	-8.50	21.6	290.7	0.31	0.48	4.14
84	-8.50	22.1	240.3	0.31	0.48	3.41
85	-8.58	23.0	242.0	0.32	0.50	3.41
86	-8.65	21.7	244.3	0.30	0.50	3.41
87	-8.73	22.7	246.6	0.31	0.50	3.41
88	-8.80	24.0	249.0	0.33	0.50	3.41
89	-8.88	22.7	250.7	0.31	0.50	3.41
90	-8.88	22.6	251.4	0.31	0.50	3.41
91	-8.90	22.5	252.0	0.30	0.50	3.41
92	-8.93	22.6	252.7	0.30	0.50	3.41
93	-8.95	22.5	253.4	0.30	0.50	3.41
94	-8.98	22.4	254.2	0.30	0.50	3.41
95	-9.00	14.5	254.7	0.19	0.50	3.41

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	23.3	255.5	0.31	0.50	3.41
97	-9.08	23.5	257.2	0.31	0.50	3.41
98	-9.15	23.7	259.5	0.31	0.50	3.41
99	-9.23	24.0	261.8	0.31	0.50	3.41
100	-9.30	24.2	261.2	0.31	0.50	3.38
101	-9.38	24.4	263.2	0.31	0.50	3.38
102	-9.38	24.5	263.8	0.31	0.50	3.38
103	-9.38	24.5	263.9	0.31	0.50	3.38
104	-9.38	24.5	263.9	0.31	0.50	3.38
105	-9.39	24.5	264.0	0.31	0.50	3.38
106	-9.39	24.5	264.0	0.31	0.50	3.38
107	-9.39	24.5	264.1	0.31	0.50	3.38
108	-9.39	24.5	264.3	0.31	0.50	3.38
109	-9.41	24.6	264.8	0.31	0.50	3.38
110	-9.43	24.7	265.4	0.31	0.50	3.38
111	-9.46	24.7	266.1	0.31	0.50	3.38
112	-9.48	24.8	266.8	0.31	0.50	3.38
113	-9.50	24.9	267.3	0.31	0.50	3.38
114	-9.50	24.9	267.9	0.31	0.50	3.38
115	-9.56	25.1	269.2	0.32	0.50	3.38
116	-9.62	25.3	271.0	0.32	0.50	3.38
117	-9.67	25.5	272.7	0.32	0.50	3.39
118	-9.73	25.7	274.5	0.32	0.50	3.39
119	-9.79	25.8	275.8	0.32	0.50	3.39
120	-9.79	25.9	276.4	0.32	0.50	3.39
121	-9.81	25.9	276.8	0.32	0.50	3.39
122	-9.83	26.0	277.3	0.32	0.50	3.39
123	-9.84	26.0	277.9	0.32	0.50	3.39
124	-9.86	26.1	278.4	0.32	0.50	3.39
125	-9.88	26.2	278.8	0.32	0.50	3.39
126	-9.88	26.2	279.0	0.32	0.50	3.39
127	-9.88	26.2	279.0	0.32	0.50	3.39
128	-9.88	26.2	279.1	0.32	0.50	3.39
129	-9.89	26.2	279.1	0.32	0.50	3.39
130	-9.89	26.2	279.2	0.32	0.50	3.39
131	-9.89	26.2	279.2	0.32	0.50	3.39
132	-9.89	26.3	279.9	0.32	0.50	3.39
133	-9.97	26.5	281.7	0.32	0.50	3.39
134	-10.05	26.7	284.1	0.32	0.50	3.39
135	-10.13	27.0	286.5	0.32	0.50	3.39
136	-10.21	27.3	292.6	0.32	0.50	3.43
137	-10.29	27.5	294.1	0.32	0.50	3.43
138	-10.29	27.6	294.8	0.32	0.50	3.43
139	-10.31	27.6	295.2	0.32	0.50	3.43
140	-10.33	27.7	295.8	0.32	0.50	3.43
141	-10.34	27.7	296.3	0.32	0.50	3.43
142	-10.36	27.8	296.9	0.32	0.50	3.43
143	-10.38	27.8	297.3	0.32	0.50	3.43
144	-10.38	27.9	297.4	0.32	0.50	3.43
145	-10.38	27.9	297.5	0.32	0.50	3.43
146	-10.38	27.9	297.5	0.32	0.50	3.43
147	-10.39	27.9	297.6	0.32	0.50	3.43
148	-10.39	27.9	297.7	0.32	0.50	3.43
149	-10.39	27.9	297.7	0.32	0.50	3.43
150	-10.39	28.0	298.3	0.32	0.50	3.43
151	-10.47	28.2	300.2	0.32	0.50	3.43
152	-10.55	28.4	302.7	0.32	0.50	3.43
153	-10.64	28.7	305.2	0.32	0.50	3.43
154	-10.72	29.0	307.7	0.32	0.50	3.43
155	-10.80	29.2	309.5	0.32	0.50	3.43
156	-10.80	29.3	310.2	0.32	0.50	3.43
157	-10.81	29.3	310.3	0.32	0.50	3.43
158	-10.81	29.3	310.5	0.32	0.50	3.43
159	-10.82	29.3	310.7	0.32	0.50	3.43

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	29.3	310.9	0.32	0.50	3.43
161	-10.83	29.4	311.0	0.32	0.50	3.43
162	-10.83	29.4	311.8	0.32	0.50	3.43
163	-10.92	30.8	313.8	0.34	0.50	3.43
164	-11.01	31.0	316.6	0.34	0.50	3.43
165	-11.11	31.4	319.4	0.34	0.50	3.43
166	-11.20	31.7	322.2	0.34	0.50	3.43
167	-11.29	31.9	324.3	0.34	0.50	3.43
168	-11.29	32.0	325.1	0.34	0.50	3.43
169	-11.31	32.0	325.5	0.34	0.50	3.43
170	-11.33	32.1	326.1	0.34	0.50	3.43
171	-11.34	32.1	326.6	0.34	0.50	3.44
172	-11.36	32.2	327.2	0.34	0.50	3.44
173	-11.38	32.3	327.6	0.34	0.50	3.44
174	-11.38	32.3	327.7	0.34	0.50	3.44
175	-11.38	32.3	327.8	0.34	0.50	3.44
176	-11.38	32.3	327.8	0.34	0.50	3.44
177	-11.39	32.3	327.9	0.34	0.50	3.44
178	-11.39	32.3	328.0	0.34	0.50	3.44
179	-11.39	32.3	328.0	0.34	0.50	3.44
180	-11.39	32.3	328.2	0.34	0.50	3.44
181	-11.41	32.4	328.7	0.34	0.50	3.44
182	-11.43	32.5	329.4	0.34	0.50	3.44
183	-11.46	32.5	330.0	0.34	0.50	3.44
184	-11.48	32.6	330.7	0.34	0.50	3.44
185	-11.50	32.7	331.2	0.34	0.50	3.44
186	-11.50	32.7	332.0	0.34	0.50	3.44
187	-11.58	32.9	333.7	0.34	0.50	3.44
188	-11.66	33.2	336.1	0.34	0.50	3.44
189	-11.73	33.5	338.5	0.34	0.50	3.44
190	-11.81	33.7	340.8	0.34	0.50	3.44
191	-11.89	33.9	342.6	0.34	0.50	3.44
192	-11.89	34.0	343.8	0.34	0.50	3.44
193	-11.97	34.2	345.6	0.34	0.50	3.44
194	-12.05	34.5	348.0	0.34	0.50	3.44
195	-12.13	34.8	350.5	0.34	0.50	3.44
196	-12.21	35.1	352.9	0.34	0.50	3.44
197	-12.29	35.3	354.7	0.34	0.50	3.44
198	-12.29	35.3	355.4	0.34	0.50	3.44
199	-12.31	35.4	355.8	0.34	0.50	3.44
200	-12.33	35.4	356.4	0.34	0.50	3.44
201	-12.34	35.5	356.9	0.34	0.50	3.44
202	-12.36	35.6	357.5	0.34	0.50	3.44
203	-12.38	35.6	357.9	0.34	0.50	3.44
204	-12.38	35.6	358.0	0.34	0.50	3.44
205	-12.38	35.6	358.1	0.34	0.50	3.44
206	-12.38	35.6	358.1	0.34	0.50	3.44
207	-12.39	35.6	358.2	0.34	0.50	3.44
208	-12.39	35.6	358.3	0.34	0.50	3.44
209	-12.39	35.7	358.3	0.34	0.50	3.44
210	-12.39	35.7	358.5	0.34	0.50	3.44
211	-12.41	35.7	359.0	0.34	0.50	3.44
212	-12.43	35.8	359.7	0.34	0.50	3.44
213	-12.46	35.9	360.3	0.34	0.50	3.44
214	-12.48	36.0	361.0	0.34	0.50	3.44
215	-12.50	36.0	361.5	0.34	0.50	3.44
216	-12.50	36.1	362.1	0.34	0.50	3.44
217	-12.56	36.2	363.4	0.34	0.50	3.44
218	-12.62	36.4	365.2	0.34	0.50	3.44
219	-12.67	36.6	366.9	0.34	0.50	3.44
220	-12.73	36.8	368.7	0.34	0.50	3.44
221	-12.79	36.9	370.0	0.34	0.50	3.44
222	-12.79	37.0	370.8	0.34	0.50	3.44
223	-12.83	39.2	371.7	0.36	0.50	3.44

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	37.5	373.0	0.35	0.50	3.44
225	-12.92	37.2	374.3	0.34	0.50	3.44
226	-12.96	36.2	375.5	0.33	0.50	3.44
227	-13.00	37.8	376.5	0.34	0.50	3.44
228	-13.00	35.4	464.5	0.32	0.50	4.23
229	-13.04	35.5	465.8	0.32	0.47	4.23
230	-13.08	35.6	467.5	0.32	0.47	4.23
231	-13.12	35.7	469.1	0.32	0.47	4.23
232	-13.16	35.9	470.8	0.32	0.47	4.23
233	-13.20	36.0	472.1	0.32	0.47	4.23
234	-13.20	36.0	472.8	0.32	0.47	4.23
235	-13.23	36.1	473.6	0.32	0.47	4.23
236	-13.25	36.2	474.7	0.32	0.47	4.23
237	-13.28	36.3	475.8	0.32	0.47	4.23
238	-13.30	36.4	476.8	0.32	0.47	4.23
239	-13.33	36.4	477.7	0.32	0.47	4.23
240	-13.33	36.6	479.5	0.32	0.47	4.23
241	-13.48	36.9	484.1	0.32	0.47	4.23
242	-13.62	37.4	490.2	0.32	0.47	4.23
243	-13.77	37.8	496.4	0.32	0.47	4.23
244	-13.91	38.1	502.6	0.32	0.47	4.23
245	-14.06	38.6	507.2	0.32	0.47	4.23
246	-14.06	38.9	510.3	0.32	0.47	4.23
247	-14.21	39.2	514.9	0.32	0.47	4.23
248	-14.35	39.7	521.2	0.32	0.47	4.23
249	-14.50	40.2	527.4	0.32	0.47	4.23
250	-14.64	40.7	531.1	0.32	0.47	4.21
251	-14.79	41.1	534.9	0.32	0.47	4.20
252	-14.79	41.2	536.7	0.32	0.47	4.20
253	-14.81	41.2	537.2	0.32	0.47	4.20
254	-14.83	41.3	538.0	0.32	0.47	4.20
255	-14.84	41.4	538.8	0.32	0.47	4.20
256	-14.86	41.4	539.6	0.32	0.47	4.20
257	-14.88	41.5	540.1	0.32	0.47	4.20
258	-14.88	41.5	540.6	0.32	0.47	4.20
259	-14.90	41.6	541.4	0.32	0.47	4.20
260	-14.93	41.6	542.4	0.32	0.47	4.20
261	-14.95	41.7	543.4	0.32	0.47	4.20
262	-14.98	41.8	544.4	0.32	0.47	4.20
263	-15.00	41.9	545.2	0.32	0.47	4.20
264	-15.00	42.0	546.3	0.32	0.47	4.20
265	-15.08	42.1	548.8	0.32	0.47	4.20
266	-15.16	42.4	552.1	0.32	0.47	4.20
267	-15.23	42.7	555.5	0.32	0.47	4.20
268	-15.31	42.9	558.8	0.32	0.47	4.20
269	-15.39	43.1	561.3	0.32	0.47	4.20
270	-15.39	43.2	562.4	0.32	0.47	4.20
271	-15.41	43.3	563.1	0.32	0.47	4.20
272	-15.43	43.3	564.0	0.32	0.47	4.20
273	-15.46	43.4	565.0	0.32	0.47	4.20
274	-15.48	43.5	565.9	0.32	0.47	4.20
275	-15.50	43.5	566.6	0.32	0.47	4.20
276	-15.50	43.6	567.5	0.32	0.47	4.20
277	-15.56	43.8	569.4	0.32	0.47	4.20
278	-15.62	44.0	571.8	0.32	0.47	4.20
279	-15.67	44.1	574.3	0.32	0.47	4.20
280	-15.73	44.3	576.8	0.32	0.47	4.20
281	-15.79	44.5	578.7	0.32	0.47	4.20
282	-15.79	44.5	579.4	0.32	0.47	4.20
283	-15.80	44.6	579.7	0.32	0.47	4.20
284	-15.81	44.6	580.0	0.32	0.47	4.20
285	-15.81	44.6	580.3	0.32	0.47	4.20
286	-15.82	44.6	580.7	0.32	0.47	4.20
287	-15.83	44.7	580.9	0.32	0.47	4.20

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	44.7	581.2	0.32	0.47	4.20
289	-15.84	44.7	581.5	0.32	0.47	4.20
290	-15.85	44.8	582.1	0.32	0.47	4.20
291	-15.87	44.8	582.6	0.32	0.47	4.20
292	-15.88	44.8	583.1	0.32	0.47	4.20
293	-15.89	44.9	583.5	0.32	0.47	4.20
294	-15.89	44.9	583.8	0.32	0.47	4.20
295	-15.91	44.9	584.5	0.32	0.47	4.20
296	-15.93	45.0	585.5	0.32	0.47	4.20
297	-15.96	45.1	586.4	0.32	0.47	4.20
298	-15.98	45.2	587.4	0.32	0.47	4.20
299	-16.00	45.2	588.1	0.32	0.47	4.21
300	-16.00	55.2	389.5	0.39	0.47	2.78
301	-16.06	55.4	390.3	0.39	0.55	2.78
302	-16.12	55.6	391.4	0.39	0.55	2.78
303	-16.17	55.7	392.5	0.40	0.55	2.78
304	-16.23	55.9	393.7	0.40	0.55	2.78
305	-16.29	56.1	394.5	0.40	0.55	2.78
306	-16.29	56.1	394.8	0.40	0.55	2.78
307	-16.30	56.1	394.9	0.40	0.55	2.78
308	-16.31	56.2	395.1	0.40	0.55	2.78
309	-16.31	56.2	395.2	0.40	0.55	2.78
310	-16.32	56.2	395.4	0.40	0.55	2.78
311	-16.33	56.2	395.5	0.40	0.55	2.78
312	-16.33	56.3	395.6	0.40	0.55	2.78
313	-16.34	56.3	395.7	0.40	0.55	2.78
314	-16.35	56.3	396.0	0.40	0.55	2.78
315	-16.37	56.4	396.2	0.40	0.55	2.78
316	-16.38	56.4	396.4	0.40	0.55	2.78
317	-16.39	56.4	396.6	0.40	0.55	2.78
318	-16.39	56.5	396.8	0.40	0.55	2.78
319	-16.41	56.5	397.1	0.40	0.55	2.78
320	-16.43	56.6	397.5	0.40	0.55	2.78
321	-16.46	56.6	397.9	0.40	0.55	2.78
322	-16.48	56.7	398.3	0.40	0.55	2.78
323	-16.50	56.8	398.6	0.40	0.55	2.78

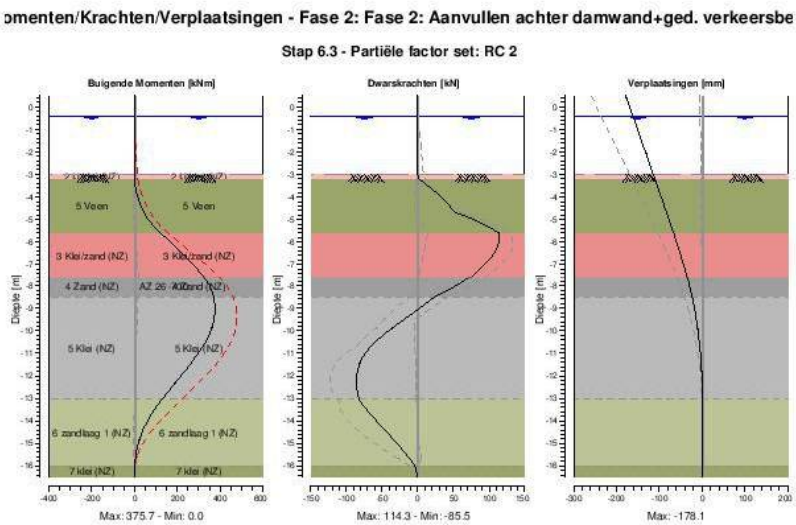
9.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.71
5 Veen	73.84
3 Klei/zand (NZ)	52.07
4 Zand (NZ)	19.64
5 Klei (NZ)	158.59
6 zandlaag 1 (NZ)	212.13
7 klei (NZ)	40.27
8 zandlaag 2 (NZ)	0.00

9.7 Berekeningsresultaten

Aantal iteraties: 5

9.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



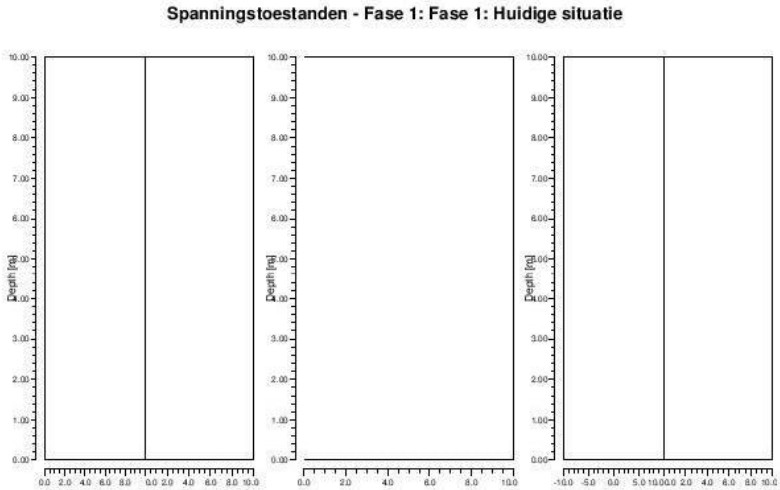
9.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-178.1**
1	0.40	0.00	0.00	-176.3
2	0.40	0.00	0.00	-176.3
2	0.20	0.00	0.00	-172.6
3	0.20	0.00	0.00	-172.6
3	0.17	0.00	0.00	-172.1
4	0.17	0.00	0.00	-172.1
4	0.00	0.00	0.00	-168.9
5	0.00	0.00	0.00	-168.9
5	-0.10	0.00	0.00	-167.1
6	-0.10	0.00	0.00	-167.1
6	-0.20	0.00	0.00	-165.3
7	-0.20	0.00	0.00	-165.3
7	-0.33	0.00	0.00	-162.9
8	-0.33	0.00	0.00	-162.9
8	-0.40	0.00	0.00	-161.6
9	-0.40	0.00	0.00	-161.6
9	-0.60	0.00	0.00	-157.9
10	-0.60	0.00	0.00	-157.9
10	-1.33	0.00	0.00	-144.6
11	-1.33	0.00	0.00	-144.6
11	-1.50	0.00	0.00	-141.4
12	-1.50	0.00	0.00	-141.4
12	-1.60	0.00	0.00	-139.6
13	-1.60	0.00	0.00	-139.6
13	-1.83	0.00	0.00	-135.4
14	-1.83	0.00	0.00	-135.4
14	-2.00	0.00	0.00	-132.3
15	-2.00	0.00	0.00	-132.3
15	-2.15	0.00	0.00	-129.5
16	-2.15	0.00	0.00	-129.5

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-128.6
17	-2.20	0.00	0.00	-128.6
17	-2.33	0.00	0.00	-126.2
18	-2.33	0.00	0.00	-126.2
18	-2.60	0.00	0.00	-121.3
19	-2.60	0.00	0.00	-121.3
19	-3.00	0.00	0.00	-113.9
20	-3.00	0.00	0.00	-113.9
20	-3.20	0.20	2.18	-110.3
21	-3.20	0.20	2.18	-110.3
21	-3.60	4.11	17.28	-102.9
22	-3.60	4.11	17.29	-102.9
22	-4.21	21.95	38.94	-91.7
23	-4.21	21.95	38.95	-91.7
23	-4.83	51.82	65.01	-80.5
24	-4.83	51.82	65.02	-80.5
24	-5.00	64.00	78.00	-77.4
25	-5.00	64.00	78.00	-77.4
25	-5.33	93.36	99.21	-71.5
26	-5.33	93.36	99.21	-71.5
26	-5.60	122.16	113.78	-66.7
27	-5.60	122.16	113.78	-66.7
27	-5.83	148.44	**114.31**	-62.7
28	-5.83	148.44	**114.31**	-62.7
28	-6.42	214.13	108.77	-52.8
29	-6.42	214.13	108.77	-52.8
29	-7.00	273.82	94.13	-43.5
30	-7.00	273.82	94.12	-43.5
30	-7.60	324.26	73.23	-34.7
31	-7.60	324.26	73.23	-34.7
31	-7.83	339.87	62.30	-31.6
32	-7.83	339.87	62.29	-31.6
32	-8.20	359.28	42.15	-26.8
33	-8.20	359.28	42.15	-26.8
33	-8.50	369.18	23.47	-23.3
34	-8.50	369.18	23.46	-23.3
34	-8.88	375.07	7.57	-19.2
35	-8.88	375.07	7.57	-19.2
35	-9.00	**375.67**	2.32	-18.0
36	-9.00	**375.67**	2.32	-18.0
36	-9.38	373.47	-13.94	-14.4
37	-9.38	373.47	-13.94	-14.4
37	-9.39	373.33	-14.37	-14.3
38	-9.39	373.33	-14.37	-14.3
38	-9.50	371.48	-19.12	-13.4
39	-9.50	371.48	-19.12	-13.4
39	-9.79	364.11	-31.76	-11.1
40	-9.79	364.11	-31.76	-11.1
40	-9.88	361.07	-35.73	-10.4
41	-9.88	361.07	-35.73	-10.4
41	-9.89	360.71	-36.17	-10.3
42	-9.89	360.71	-36.16	-10.3
42	-10.29	342.94	-52.17	-7.6
43	-10.29	342.94	-52.17	-7.6
43	-10.38	338.10	-55.37	-7.1
44	-10.38	338.10	-55.37	-7.1
44	-10.39	337.55	-55.72	-7.0
45	-10.39	337.55	-55.72	-7.0
45	-10.80	311.97	-68.61	-4.8
46	-10.80	311.97	-68.62	-4.8
46	-10.83	309.90	-69.44	-4.7
47	-10.83	309.90	-69.44	-4.7
47	-11.29	275.53	-79.09	-2.8
48	-11.29	275.53	-79.09	-2.8
48	-11.38	268.35	-80.38	-2.5

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	268.35	-80.38	-2.5
49	-11.39	267.55	-80.52	-2.4
50	-11.39	267.55	-80.52	-2.4
50	-11.50	258.62	-81.85	-2.1
51	-11.50	258.62	-81.85	-2.1
51	-11.89	226.03	-84.82	-1.0
52	-11.89	226.03	-84.82	-1.0
52	-12.29	191.90	-85.52	-0.1
53	-12.29	191.90	-85.52	-0.1
53	-12.38	184.20	-85.42	0.1
54	-12.38	184.20	-85.42	0.1
54	-12.39	183.35	-85.41	0.1
55	-12.39	183.35	-85.41	0.1
55	-12.50	173.97	-85.16	0.2
56	-12.50	173.97	-85.16	0.2
56	-12.79	149.41	-84.04	0.6
57	-12.79	149.41	-84.04	0.6
57	-13.00	131.88	-82.87	0.8
58	-13.00	131.88	-82.87	0.8
58	-13.20	115.71	-78.74	1.0
59	-13.20	115.71	-78.74	1.0
59	-13.33	105.67	-75.74	1.1
60	-13.33	105.67	-75.73	1.1
60	-14.06	57.34	-56.09	1.3
61	-14.06	57.34	-56.08	1.3
61	-14.79	24.07	-35.14	1.3
62	-14.79	24.07	-35.14	1.3
62	-14.88	21.02	-32.62	1.3
63	-14.88	21.02	-32.62	1.3
63	-15.00	17.30	-29.31	1.2
64	-15.00	17.30	-29.31	1.2
64	-15.39	7.92	-18.93	1.2
65	-15.39	7.92	-18.93	1.2
65	-15.50	5.99	-16.12	1.1
66	-15.50	5.99	-16.12	1.1
66	-15.79	2.36	-8.98	1.1
67	-15.79	2.36	-8.98	1.1
67	-15.83	2.02	-8.02	1.1
68	-15.83	2.02	-8.02	1.1
68	-15.89	1.58	-6.61	1.1
69	-15.89	1.58	-6.61	1.1
69	-16.00	1.00	-4.05	1.0
70	-16.00	1.00	-4.05	1.0
70	-16.29	0.17	-1.65	1.0
71	-16.29	0.17	-1.65	1.0
71	-16.33	0.11	-1.33	1.0
72	-16.33	0.11	-1.33	1.0
72	-16.39	0.05	-0.85	1.0
73	-16.39	0.05	-0.85	1.0
73	-16.50	0.00	0.00	0.9
Max		**375.67**	**114.31**	**-178.1**
Max incl. tussenknopen		375.72	114.34	-178.1

9.7.3 Grafieken van Spanningen



9.7.4 Spanningen

Knoop nummer	Niveau [m]	Links Eff. spanning [kN/m²]	Links Water span. [kN/m²]	Links Stat*	Links Mob* [%]	Rechts Eff. spanning [kN/m²]	Rechts Water span. [kN/m²]	Rechts Stat*	Rechts Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	10.08	27.47	P		20.83	27.47	A	
21	-3.20	4.93	27.47	P		7.48	49.97	A	
21	-3.60	5.36	31.39	P		25.08	53.89	2	
22	-3.60	5.44	31.39	P		27.06	53.89	2	
22	-4.21	6.35	37.43	P		13.67	59.93	A	
23	-4.21	6.46	37.43	P		13.72	59.93	A	
23	-4.83	7.45	43.46	P		143.22	65.96	A	
24	-4.83	7.52	43.46	P		66.08	65.96	A	
24	-5.00	7.80	45.13	P		57.57	67.63	A	
25	-5.00	7.84	45.13	P		56.00	67.63	A	
25	-5.33	8.38	48.36	P		44.37	70.86	A	
26	-5.33	8.44	48.36	P		43.46	70.86	A	99
26	-5.60	8.35	51.01	P		36.66	73.51	A	84
27	-5.60	30.76	51.01	P		48.28	51.01	A	
27	-5.83	31.02	53.27	P		29.84	53.27	A	12
28	-5.83	31.75	53.27	P		29.54	53.27	A	11
28	-6.42	43.28	59.01	P		26.43	59.01	A	
29	-6.42	44.64	59.01	P		26.12	59.01	A	
29	-7.00	53.80	64.75	3	94	23.91	64.75	A	
30	-7.00	54.80	64.75	3	94	23.71	64.75	A	
30	-7.60	59.84	70.63	3	85	21.92	70.63	A	
31	-7.60	67.62	70.63	3	94	22.37	70.63	A	
31	-7.83	71.85	72.89	3	89	22.05	72.89	A	
32	-7.83	72.73	72.89	3	89	22.03	72.89	A	
32	-8.20	79.85	76.52	3	83	21.67	76.52	A	
33	-8.20	80.83	76.52	3	83	21.64	76.52	A	
33	-8.50	86.82	79.46	2	79	21.48	79.46	A	
34	-8.50	63.75	79.46	2	64	22.01	79.46	A	
34	-8.88	64.90	82.34	2	59	22.57	82.34	A	
35	-8.88	65.24	82.34	2	59	22.50	82.34	A	
35	-9.00	65.56	83.25	2	58	14.42	83.25	A	
36	-9.00	65.90	83.25	2	58	23.14	83.25	A	
36	-9.38	67.14	86.14	2	54	24.29	86.14	A	
37	-9.38	67.41	86.14	2	54	24.36	86.14	A	
37	-9.39	67.45	86.21	2	54	24.39	86.21	A	
38	-9.39	67.53	86.21	2	54	24.41	86.21	A	
38	-9.50	67.95	87.05	2	53	24.74	87.05	A	
39	-9.50	68.22	87.05	2	53	24.81	87.05	A	
39	-9.79	69.49	89.25	2	51	25.69	89.25	A	
40	-9.79	69.75	89.25	2	51	25.75	89.25	A	
40	-9.88	70.11	89.93	1	50	26.02	89.93	A	
41	-9.88	70.16	89.93	1	50	26.04	89.93	A	
41	-9.89	69.97	90.01	1	50	26.07	90.01	A	
42	-9.89	70.16	90.01	1	50	26.14	90.01	A	
42	-10.29	63.58	93.04	1	42	27.35	93.04	A	
43	-10.29	63.79	93.04	1	42	27.43	93.04	A	
43	-10.38	62.49	93.73	1	40	27.70	93.73	A	
44	-10.38	62.53	93.73	1	40	27.72	93.73	A	
44	-10.39	62.39	93.80	1	40	27.75	93.80	A	
45	-10.39	62.57	93.80	1	40	27.82	93.80	A	
45	-10.80	57.54	96.91	1	34	29.73	96.91	1	
46	-10.80	57.72	96.91	1	34	29.83	96.91	1	
46	-10.83	57.40	97.14	1	34	30.39	97.14	1	
47	-10.83	57.60	97.14	1	34	30.49	97.14	1	
47	-11.29	53.56	100.63	1	29	38.24	100.63	1	

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
48	-11.29	53.78	100.63	1	29	38.36	100.63	1	
48	-11.38	53.16	101.31	1	29	39.70	101.31	1	
49	-11.38	53.20	101.31	1	29	39.72	101.31	1	
49	-11.39	53.13	101.39	1	29	39.87	101.39	1	
50	-11.39	53.18	101.39	1	29	39.89	101.39	1	
50	-11.50	52.50	102.22	1	28	41.46	102.22	1	
51	-11.50	52.70	102.22	1	28	41.57	102.22	1	
51	-11.89	50.89	105.18	1	25	46.53	105.18	1	
52	-11.89	51.19	105.18	1	25	46.70	105.18	1	
52	-12.29	50.21	108.22	1	24	50.92	108.22	1	
53	-12.29	50.40	108.22	1	24	51.02	108.22	1	
53	-12.38	50.28	108.90	1		51.87	108.90	1	15
54	-12.38	50.32	108.90	1		51.89	108.90	1	15
54	-12.39	50.31	108.98	1		51.98	108.98	1	15
55	-12.39	50.35	108.98	1		52.01	108.98	1	15
55	-12.50	50.27	109.81	1		52.98	109.81	1	15
56	-12.50	50.42	109.81	1		53.07	109.81	1	15
56	-12.79	50.44	112.01	1		55.40	112.01	1	15
57	-12.79	50.62	112.01	1		55.51	112.01	1	15
57	-13.00	50.71	113.61	1		56.94	113.61	1	15
58	-13.00	44.50	113.61	1		63.40	113.61	1	14
58	-13.20	40.11	115.57	1		62.37	115.57	1	13
59	-13.20	40.24	115.57	1		62.45	115.57	1	13
59	-13.33	39.91	116.84	1		63.87	116.84	1	13
60	-13.33	40.23	116.84	1		64.08	116.84	1	13
60	-14.06	40.83	124.00	1		69.61	124.00	1	14
61	-14.06	41.36	124.00	1		69.95	124.00	1	14
61	-14.79	44.64	131.17	1		72.82	131.17	1	14
62	-14.79	44.93	131.17	1		73.01	131.17	1	14
62	-14.88	45.44	132.05	1		73.27	132.05	1	14
63	-14.88	45.51	132.05	1		73.31	132.05	1	14
63	-15.00	46.21	133.23	1		73.63	133.23	1	14
64	-15.00	46.39	133.23	1		73.75	133.23	1	14
64	-15.39	48.80	137.05	1		74.64	137.05	1	13
65	-15.39	48.97	137.05	1		74.75	137.05	1	13
65	-15.50	49.67	138.13	1		74.98	138.13	1	13
66	-15.50	49.81	138.13	1		75.08	138.13	1	13
66	-15.79	51.68	140.98	1		75.65	140.98	1	13
67	-15.79	51.80	140.98	1		75.73	140.98	1	13
67	-15.83	52.06	141.37	1		75.81	141.37	1	13
68	-15.83	52.09	141.37	1		75.83	141.37	1	13
68	-15.89	52.48	141.96	1		75.95	141.96	1	13
69	-15.89	52.54	141.96	1		75.99	141.96	1	13
69	-16.00	53.30	143.04	1		76.23	143.04	1	13
70	-16.00	60.60	143.04	1		69.12	143.04	1	18
70	-16.29	73.21	145.88	1		81.27	145.88	1	21
71	-16.29	73.30	145.88	1		81.34	145.88	1	21
71	-16.33	73.48	146.27	1		81.45	146.27	1	21
72	-16.33	73.51	146.27	1		81.47	146.27	1	21
72	-16.39	73.78	146.86	1		81.64	146.86	1	21
73	-16.39	73.83	146.86	1		81.68	146.86	1	21
73	-16.50	74.27	147.94	1		81.96	147.94	1	21

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

9.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	614.3	560.3
Water	1213.9	1267.9
Totaal	1828.2	1828.2

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	614.27 kN
Percentage gemobiliseerde weerstand	28.9 %

10 Stap 6.4 Fase 2: Fase 2: Aanvullen achter damwand+ged. verkeersbela

10.1 Invoergegevens Links

10.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

10.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

10.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

10.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

10.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

10.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

10.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.53
5 Veen	16.25
3 Klei/zand (NZ)	96.99
4 Zand (NZ)	75.83
5 Klei (NZ)	249.32
6 zandlaag 1 (NZ)	138.74
7 klei (NZ)	39.37
8 zandlaag 2 (NZ)	0.00

10.4 Invoergegevens Rechts

10.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

10.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

10.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

10.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-50% wos

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

10.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

10.4.6 Bovenbelastingen

Naam	Afstand	Belasting
	[m]	[kN/m²]
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00
Verkeer 1- 10 kN/m2	6.30	0.00
	9.30	0.00

10.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	20.5	99.8	0.45	1.06	2.21
2	-3.08	20.6	100.1	0.45	1.15	2.21
3	-3.12	20.7	100.4	0.45	1.04	2.21
4	-3.16	20.7	100.7	0.45	0.98	2.21
5	-3.20	20.8	100.9	0.46	0.95	2.21
6	-3.20	12.9	40.4	0.32	0.95	1.01
7	-3.28	12.9	40.4	0.56	1.74	1.74
8	-3.36	13.0	40.5	0.56	1.73	1.73
9	-3.44	13.0	40.5	0.56	1.72	1.73
10	-3.52	13.1	40.6	0.56	1.68	1.73
11	-3.60	13.2	40.7	0.56	1.64	1.72
12	-3.60	13.2	40.7	0.56	1.64	1.72
13	-3.72	13.3	40.9	0.56	1.59	1.72
14	-3.85	13.4	41.0	0.56	1.54	1.72
15	-3.97	13.4	41.2	0.56	1.49	1.72
16	-4.09	13.5	41.4	0.56	1.45	1.71
17	-4.21	13.6	41.6	0.56	1.40	1.71
18	-4.21	13.7	41.7	0.56	1.40	1.71
19	-4.34	13.7	41.8	0.56	1.36	1.71
20	-4.46	13.8	42.0	0.56	1.32	1.71
21	-4.58	13.9	42.3	0.56	1.29	1.71
22	-4.71	14.0	42.5	0.56	1.25	1.71
23	-4.83	142.7	42.6	5.73	5.73	5.73
24	-4.83	65.8	42.7	2.64	2.64	2.64
25	-4.86	64.2	42.8	2.57	2.57	2.57
26	-4.90	62.1	42.8	2.48	2.48	2.48
27	-4.93	60.3	42.9	2.41	2.41	2.41
28	-4.97	58.4	42.9	2.33	2.33	2.33
29	-5.00	57.3	43.0	2.28	2.28	2.28
30	-5.00	55.8	43.0	2.22	2.22	2.22
31	-5.07	53.6	43.1	2.13	2.13	2.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	50.7	43.2	2.01	2.01	2.01
33	-5.20	48.2	43.4	1.90	1.90	1.90
34	-5.26	45.8	43.5	1.81	1.81	1.81
35	-5.33	44.2	43.6	1.74	1.74	1.74
36	-5.33	43.3	43.6	1.70	1.70	1.71
37	-5.38	42.1	43.7	1.65	1.65	1.71
38	-5.44	40.6	43.8	1.59	1.59	1.71
39	-5.49	39.1	43.9	1.53	1.53	1.72
40	-5.55	37.9	44.0	1.48	1.48	1.72
41	-5.60	36.8	44.1	1.42	1.42	1.70
42	-5.60	31.6	231.9	1.00	1.03	7.32
43	-5.65	31.4	220.7	0.64	0.64	4.52
44	-5.69	30.9	227.1	0.63	0.63	4.63
45	-5.74	30.6	236.1	0.62	0.62	4.78
46	-5.78	30.2	245.8	0.61	0.61	4.95
47	-5.83	30.0	253.5	0.60	0.60	5.08
48	-5.83	29.7	263.2	0.59	0.59	5.25
49	-5.95	29.1	286.7	0.57	0.57	5.65
50	-6.06	28.3	323.7	0.55	0.56	6.29
51	-6.18	27.6	369.2	0.53	0.56	7.07
52	-6.30	27.0	425.6	0.51	0.55	8.04
53	-6.42	26.5	477.3	0.50	0.55	8.92
54	-6.42	26.2	517.1	0.49	0.55	9.60
55	-6.53	25.8	588.6	0.47	0.54	10.81
56	-6.65	25.3	709.0	0.46	0.54	12.84
57	-6.77	24.8	871.0	0.44	0.53	15.57
58	-6.88	24.3	435.5	0.43	0.53	7.68
59	-7.00	24.0	214.0	0.42	0.52	3.74
60	-7.00	23.8	215.4	0.41	0.52	3.74
61	-7.12	23.5	217.5	0.40	0.52	3.74
62	-7.24	23.1	220.3	0.39	0.52	3.74
63	-7.36	22.7	218.5	0.38	0.51	3.66
64	-7.48	22.4	219.1	0.37	0.51	3.62
65	-7.60	22.1	220.5	0.36	0.51	3.59
66	-7.60	22.6	254.6	0.37	0.51	4.12
67	-7.65	22.5	256.0	0.36	0.49	4.12
68	-7.69	22.5	257.9	0.36	0.49	4.12
69	-7.74	22.4	259.7	0.35	0.49	4.12
70	-7.78	22.3	261.6	0.35	0.49	4.12
71	-7.83	22.3	263.0	0.35	0.49	4.12
72	-7.83	22.2	264.3	0.35	0.49	4.12
73	-7.90	22.2	266.6	0.34	0.49	4.12
74	-7.98	22.1	269.6	0.34	0.49	4.12
75	-8.05	22.0	272.7	0.33	0.49	4.12
76	-8.13	21.9	275.7	0.33	0.49	4.12
77	-8.20	21.9	278.1	0.32	0.49	4.12
78	-8.20	21.8	279.4	0.32	0.49	4.12
79	-8.26	21.8	281.3	0.32	0.48	4.12
80	-8.32	21.7	283.8	0.32	0.48	4.12
81	-8.38	21.7	286.3	0.31	0.48	4.13
82	-8.44	21.7	288.9	0.31	0.48	4.13
83	-8.50	21.6	290.7	0.31	0.48	4.14
84	-8.50	22.1	240.3	0.31	0.48	3.41
85	-8.58	23.0	242.0	0.32	0.50	3.41
86	-8.65	21.7	244.3	0.30	0.50	3.41
87	-8.73	22.7	246.6	0.31	0.50	3.41
88	-8.80	24.0	249.0	0.33	0.50	3.41
89	-8.88	22.7	250.7	0.31	0.50	3.41
90	-8.88	22.6	251.4	0.31	0.50	3.41
91	-8.90	22.5	252.0	0.30	0.50	3.41
92	-8.93	22.6	252.7	0.30	0.50	3.41
93	-8.95	22.5	253.4	0.30	0.50	3.41
94	-8.98	22.4	254.2	0.30	0.50	3.41
95	-9.00	14.5	254.7	0.19	0.50	3.41

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	23.3	255.5	0.31	0.50	3.41
97	-9.08	23.5	257.2	0.31	0.50	3.41
98	-9.15	23.7	259.5	0.31	0.50	3.41
99	-9.23	24.0	261.8	0.31	0.50	3.41
100	-9.30	24.2	261.2	0.31	0.50	3.38
101	-9.38	24.4	263.2	0.31	0.50	3.38
102	-9.38	24.5	263.8	0.31	0.50	3.38
103	-9.38	24.5	263.9	0.31	0.50	3.38
104	-9.38	24.5	263.9	0.31	0.50	3.38
105	-9.39	24.5	264.0	0.31	0.50	3.38
106	-9.39	24.5	264.0	0.31	0.50	3.38
107	-9.39	24.5	264.1	0.31	0.50	3.38
108	-9.39	24.5	264.3	0.31	0.50	3.38
109	-9.41	24.6	264.8	0.31	0.50	3.38
110	-9.43	24.7	265.4	0.31	0.50	3.38
111	-9.46	24.7	266.1	0.31	0.50	3.38
112	-9.48	24.8	266.8	0.31	0.50	3.38
113	-9.50	24.9	267.3	0.31	0.50	3.38
114	-9.50	24.9	267.9	0.31	0.50	3.38
115	-9.56	25.1	269.2	0.32	0.50	3.38
116	-9.62	25.3	271.0	0.32	0.50	3.38
117	-9.67	25.5	272.7	0.32	0.50	3.39
118	-9.73	25.7	274.5	0.32	0.50	3.39
119	-9.79	25.8	275.8	0.32	0.50	3.39
120	-9.79	25.9	276.4	0.32	0.50	3.39
121	-9.81	25.9	276.8	0.32	0.50	3.39
122	-9.83	26.0	277.3	0.32	0.50	3.39
123	-9.84	26.0	277.9	0.32	0.50	3.39
124	-9.86	26.1	278.4	0.32	0.50	3.39
125	-9.88	26.2	278.8	0.32	0.50	3.39
126	-9.88	26.2	279.0	0.32	0.50	3.39
127	-9.88	26.2	279.0	0.32	0.50	3.39
128	-9.88	26.2	279.1	0.32	0.50	3.39
129	-9.89	26.2	279.1	0.32	0.50	3.39
130	-9.89	26.2	279.2	0.32	0.50	3.39
131	-9.89	26.2	279.2	0.32	0.50	3.39
132	-9.89	26.3	279.9	0.32	0.50	3.39
133	-9.97	26.5	281.7	0.32	0.50	3.39
134	-10.05	26.7	284.1	0.32	0.50	3.39
135	-10.13	27.0	286.5	0.32	0.50	3.39
136	-10.21	27.3	292.6	0.32	0.50	3.43
137	-10.29	27.5	294.1	0.32	0.50	3.43
138	-10.29	27.6	294.8	0.32	0.50	3.43
139	-10.31	27.6	295.2	0.32	0.50	3.43
140	-10.33	27.7	295.8	0.32	0.50	3.43
141	-10.34	27.7	296.3	0.32	0.50	3.43
142	-10.36	27.8	296.9	0.32	0.50	3.43
143	-10.38	27.8	297.3	0.32	0.50	3.43
144	-10.38	27.9	297.4	0.32	0.50	3.43
145	-10.38	27.9	297.5	0.32	0.50	3.43
146	-10.38	27.9	297.5	0.32	0.50	3.43
147	-10.39	27.9	297.6	0.32	0.50	3.43
148	-10.39	27.9	297.7	0.32	0.50	3.43
149	-10.39	27.9	297.7	0.32	0.50	3.43
150	-10.39	28.0	298.3	0.32	0.50	3.43
151	-10.47	28.2	300.2	0.32	0.50	3.43
152	-10.55	28.4	302.7	0.32	0.50	3.43
153	-10.64	28.7	305.2	0.32	0.50	3.43
154	-10.72	29.0	307.7	0.32	0.50	3.43
155	-10.80	29.2	309.5	0.32	0.50	3.43
156	-10.80	29.3	310.2	0.32	0.50	3.43
157	-10.81	29.3	310.3	0.32	0.50	3.43
158	-10.81	29.3	310.5	0.32	0.50	3.43
159	-10.82	29.3	310.7	0.32	0.50	3.43

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	29.3	310.9	0.32	0.50	3.43
161	-10.83	29.4	311.0	0.32	0.50	3.43
162	-10.83	29.4	311.8	0.32	0.50	3.43
163	-10.92	30.8	313.8	0.34	0.50	3.43
164	-11.01	31.0	316.6	0.34	0.50	3.43
165	-11.11	31.4	319.4	0.34	0.50	3.43
166	-11.20	31.7	322.2	0.34	0.50	3.43
167	-11.29	31.9	324.3	0.34	0.50	3.43
168	-11.29	32.0	325.1	0.34	0.50	3.43
169	-11.31	32.0	325.5	0.34	0.50	3.43
170	-11.33	32.1	326.1	0.34	0.50	3.43
171	-11.34	32.1	326.6	0.34	0.50	3.44
172	-11.36	32.2	327.2	0.34	0.50	3.44
173	-11.38	32.3	327.6	0.34	0.50	3.44
174	-11.38	32.3	327.7	0.34	0.50	3.44
175	-11.38	32.3	327.8	0.34	0.50	3.44
176	-11.38	32.3	327.8	0.34	0.50	3.44
177	-11.39	32.3	327.9	0.34	0.50	3.44
178	-11.39	32.3	328.0	0.34	0.50	3.44
179	-11.39	32.3	328.0	0.34	0.50	3.44
180	-11.39	32.3	328.2	0.34	0.50	3.44
181	-11.41	32.4	328.7	0.34	0.50	3.44
182	-11.43	32.5	329.4	0.34	0.50	3.44
183	-11.46	32.5	330.0	0.34	0.50	3.44
184	-11.48	32.6	330.7	0.34	0.50	3.44
185	-11.50	32.7	331.2	0.34	0.50	3.44
186	-11.50	32.7	332.0	0.34	0.50	3.44
187	-11.58	32.9	333.7	0.34	0.50	3.44
188	-11.66	33.2	336.1	0.34	0.50	3.44
189	-11.73	33.5	338.5	0.34	0.50	3.44
190	-11.81	33.7	340.8	0.34	0.50	3.44
191	-11.89	33.9	342.6	0.34	0.50	3.44
192	-11.89	34.0	343.8	0.34	0.50	3.44
193	-11.97	34.2	345.6	0.34	0.50	3.44
194	-12.05	34.5	348.0	0.34	0.50	3.44
195	-12.13	34.8	350.5	0.34	0.50	3.44
196	-12.21	35.1	352.9	0.34	0.50	3.44
197	-12.29	35.3	354.7	0.34	0.50	3.44
198	-12.29	35.3	355.4	0.34	0.50	3.44
199	-12.31	35.4	355.8	0.34	0.50	3.44
200	-12.33	35.4	356.4	0.34	0.50	3.44
201	-12.34	35.5	356.9	0.34	0.50	3.44
202	-12.36	35.6	357.5	0.34	0.50	3.44
203	-12.38	35.6	357.9	0.34	0.50	3.44
204	-12.38	35.6	358.0	0.34	0.50	3.44
205	-12.38	35.6	358.1	0.34	0.50	3.44
206	-12.38	35.6	358.1	0.34	0.50	3.44
207	-12.39	35.6	358.2	0.34	0.50	3.44
208	-12.39	35.6	358.3	0.34	0.50	3.44
209	-12.39	35.7	358.3	0.34	0.50	3.44
210	-12.39	35.7	358.5	0.34	0.50	3.44
211	-12.41	35.7	359.0	0.34	0.50	3.44
212	-12.43	35.8	359.7	0.34	0.50	3.44
213	-12.46	35.9	360.3	0.34	0.50	3.44
214	-12.48	36.0	361.0	0.34	0.50	3.44
215	-12.50	36.0	361.5	0.34	0.50	3.44
216	-12.50	36.1	362.1	0.34	0.50	3.44
217	-12.56	36.2	363.4	0.34	0.50	3.44
218	-12.62	36.4	365.2	0.34	0.50	3.44
219	-12.67	36.6	366.9	0.34	0.50	3.44
220	-12.73	36.8	368.7	0.34	0.50	3.44
221	-12.79	36.9	370.0	0.34	0.50	3.44
222	-12.79	37.0	370.8	0.34	0.50	3.44
223	-12.83	39.2	371.7	0.36	0.50	3.44

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	37.5	373.0	0.35	0.50	3.44
225	-12.92	37.2	374.3	0.34	0.50	3.44
226	-12.96	36.2	375.5	0.33	0.50	3.44
227	-13.00	37.8	376.5	0.34	0.50	3.44
228	-13.00	35.4	464.5	0.32	0.50	4.23
229	-13.04	35.5	465.8	0.32	0.47	4.23
230	-13.08	35.6	467.5	0.32	0.47	4.23
231	-13.12	35.7	469.1	0.32	0.47	4.23
232	-13.16	35.9	470.8	0.32	0.47	4.23
233	-13.20	36.0	472.1	0.32	0.47	4.23
234	-13.20	36.0	472.8	0.32	0.47	4.23
235	-13.23	36.1	473.6	0.32	0.47	4.23
236	-13.25	36.2	474.7	0.32	0.47	4.23
237	-13.28	36.3	475.8	0.32	0.47	4.23
238	-13.30	36.4	476.8	0.32	0.47	4.23
239	-13.33	36.4	477.7	0.32	0.47	4.23
240	-13.33	36.6	479.5	0.32	0.47	4.23
241	-13.48	36.9	484.1	0.32	0.47	4.23
242	-13.62	37.4	490.2	0.32	0.47	4.23
243	-13.77	37.8	496.4	0.32	0.47	4.23
244	-13.91	38.1	502.6	0.32	0.47	4.23
245	-14.06	38.6	507.2	0.32	0.47	4.23
246	-14.06	38.9	510.3	0.32	0.47	4.23
247	-14.21	39.2	514.9	0.32	0.47	4.23
248	-14.35	39.7	521.2	0.32	0.47	4.23
249	-14.50	40.2	527.4	0.32	0.47	4.23
250	-14.64	40.7	531.1	0.32	0.47	4.21
251	-14.79	41.1	534.9	0.32	0.47	4.20
252	-14.79	41.2	536.7	0.32	0.47	4.20
253	-14.81	41.2	537.2	0.32	0.47	4.20
254	-14.83	41.3	538.0	0.32	0.47	4.20
255	-14.84	41.4	538.8	0.32	0.47	4.20
256	-14.86	41.4	539.6	0.32	0.47	4.20
257	-14.88	41.5	540.1	0.32	0.47	4.20
258	-14.88	41.5	540.6	0.32	0.47	4.20
259	-14.90	41.6	541.4	0.32	0.47	4.20
260	-14.93	41.6	542.4	0.32	0.47	4.20
261	-14.95	41.7	543.4	0.32	0.47	4.20
262	-14.98	41.8	544.4	0.32	0.47	4.20
263	-15.00	41.9	545.2	0.32	0.47	4.20
264	-15.00	42.0	546.3	0.32	0.47	4.20
265	-15.08	42.1	548.8	0.32	0.47	4.20
266	-15.16	42.4	552.1	0.32	0.47	4.20
267	-15.23	42.7	555.5	0.32	0.47	4.20
268	-15.31	42.9	558.8	0.32	0.47	4.20
269	-15.39	43.1	561.3	0.32	0.47	4.20
270	-15.39	43.2	562.4	0.32	0.47	4.20
271	-15.41	43.3	563.1	0.32	0.47	4.20
272	-15.43	43.3	564.0	0.32	0.47	4.20
273	-15.46	43.4	565.0	0.32	0.47	4.20
274	-15.48	43.5	565.9	0.32	0.47	4.20
275	-15.50	43.5	566.6	0.32	0.47	4.20
276	-15.50	43.6	567.5	0.32	0.47	4.20
277	-15.56	43.8	569.4	0.32	0.47	4.20
278	-15.62	44.0	571.8	0.32	0.47	4.20
279	-15.67	44.1	574.3	0.32	0.47	4.20
280	-15.73	44.3	576.8	0.32	0.47	4.20
281	-15.79	44.5	578.7	0.32	0.47	4.20
282	-15.79	44.5	579.4	0.32	0.47	4.20
283	-15.80	44.6	579.7	0.32	0.47	4.20
284	-15.81	44.6	580.0	0.32	0.47	4.20
285	-15.81	44.6	580.3	0.32	0.47	4.20
286	-15.82	44.6	580.7	0.32	0.47	4.20
287	-15.83	44.7	580.9	0.32	0.47	4.20

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	44.7	581.2	0.32	0.47	4.20
289	-15.84	44.7	581.5	0.32	0.47	4.20
290	-15.85	44.8	582.1	0.32	0.47	4.20
291	-15.87	44.8	582.6	0.32	0.47	4.20
292	-15.88	44.8	583.1	0.32	0.47	4.20
293	-15.89	44.9	583.5	0.32	0.47	4.20
294	-15.89	44.9	583.8	0.32	0.47	4.20
295	-15.91	44.9	584.5	0.32	0.47	4.20
296	-15.93	45.0	585.5	0.32	0.47	4.20
297	-15.96	45.1	586.4	0.32	0.47	4.20
298	-15.98	45.2	587.4	0.32	0.47	4.20
299	-16.00	45.2	588.1	0.32	0.47	4.21
300	-16.00	55.2	389.5	0.39	0.47	2.78
301	-16.06	55.4	390.3	0.39	0.55	2.78
302	-16.12	55.6	391.4	0.39	0.55	2.78
303	-16.17	55.7	392.5	0.40	0.55	2.78
304	-16.23	55.9	393.7	0.40	0.55	2.78
305	-16.29	56.1	394.5	0.40	0.55	2.78
306	-16.29	56.1	394.8	0.40	0.55	2.78
307	-16.30	56.1	394.9	0.40	0.55	2.78
308	-16.31	56.2	395.1	0.40	0.55	2.78
309	-16.31	56.2	395.2	0.40	0.55	2.78
310	-16.32	56.2	395.4	0.40	0.55	2.78
311	-16.33	56.2	395.5	0.40	0.55	2.78
312	-16.33	56.3	395.6	0.40	0.55	2.78
313	-16.34	56.3	395.7	0.40	0.55	2.78
314	-16.35	56.3	396.0	0.40	0.55	2.78
315	-16.37	56.4	396.2	0.40	0.55	2.78
316	-16.38	56.4	396.4	0.40	0.55	2.78
317	-16.39	56.4	396.6	0.40	0.55	2.78
318	-16.39	56.5	396.8	0.40	0.55	2.78
319	-16.41	56.5	397.1	0.40	0.55	2.78
320	-16.43	56.6	397.5	0.40	0.55	2.78
321	-16.46	56.6	397.9	0.40	0.55	2.78
322	-16.48	56.7	398.3	0.40	0.55	2.78
323	-16.50	56.8	398.6	0.40	0.55	2.78

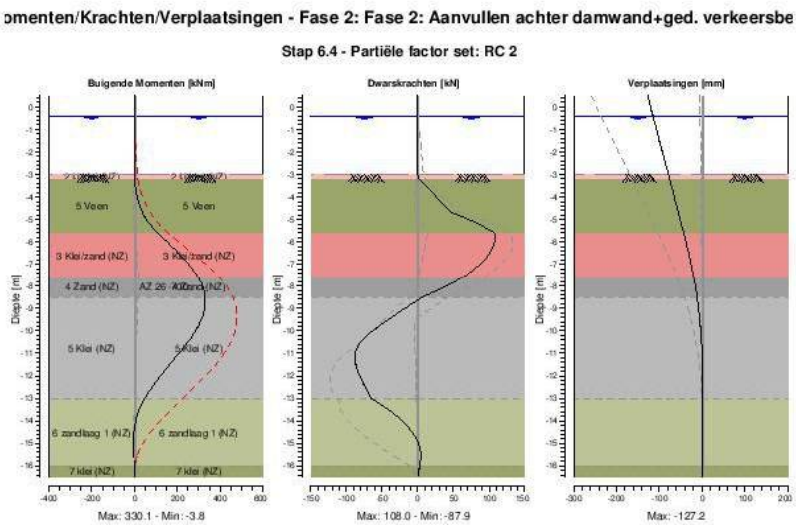
10.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.71
5 Veen	67.53
3 Klei/zand (NZ)	52.07
4 Zand (NZ)	19.64
5 Klei (NZ)	177.25
6 zandlaag 1 (NZ)	206.72
7 klei (NZ)	37.12
8 zandlaag 2 (NZ)	0.00

10.7 Berekeningsresultaten

Aantal iteraties: 6

10.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



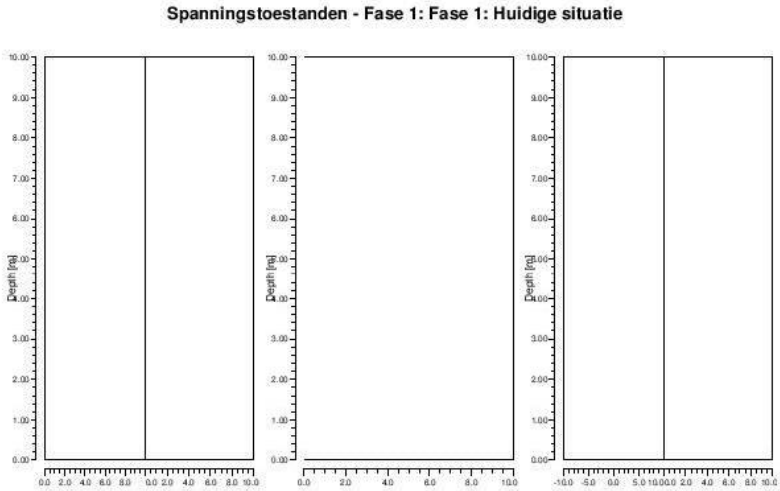
10.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-127.2**
1	0.40	0.00	0.00	-125.8
2	0.40	0.00	0.00	-125.8
2	0.20	0.00	0.00	-123.0
3	0.20	0.00	0.00	-123.0
3	0.17	0.00	0.00	-122.6
4	0.17	0.00	0.00	-122.6
4	0.00	0.00	0.00	-120.2
5	0.00	0.00	0.00	-120.2
5	-0.10	0.00	0.00	-118.9
6	-0.10	0.00	0.00	-118.9
6	-0.20	0.00	0.00	-117.5
7	-0.20	0.00	0.00	-117.5
7	-0.33	0.00	0.00	-115.7
8	-0.33	0.00	0.00	-115.7
8	-0.40	0.00	0.00	-114.7
9	-0.40	0.00	0.00	-114.7
9	-0.60	0.00	0.00	-111.9
10	-0.60	0.00	0.00	-111.9
10	-1.33	0.00	0.00	-101.8
11	-1.33	0.00	0.00	-101.8
11	-1.50	0.00	0.00	-99.5
12	-1.50	0.00	0.00	-99.5
12	-1.60	0.00	0.00	-98.1
13	-1.60	0.00	0.00	-98.1
13	-1.83	0.00	0.00	-94.9
14	-1.83	0.00	0.00	-94.9
14	-2.00	0.00	0.00	-92.5
15	-2.00	0.00	0.00	-92.5
15	-2.15	0.00	0.00	-90.4
16	-2.15	0.00	0.00	-90.4

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-89.8
17	-2.20	0.00	0.00	-89.8
17	-2.33	0.00	0.00	-88.0
18	-2.33	0.00	0.00	-88.0
18	-2.60	0.00	0.00	-84.2
19	-2.60	0.00	0.00	-84.2
19	-3.00	0.00	0.00	-78.7
20	-3.00	0.00	0.00	-78.7
20	-3.20	0.20	2.18	-75.9
21	-3.20	0.20	2.18	-75.9
21	-3.60	3.43	14.14	-70.3
22	-3.60	3.43	14.15	-70.3
22	-4.21	17.83	32.64	-61.8
23	-4.21	17.84	32.64	-61.8
23	-4.83	43.83	58.71	-53.4
24	-4.83	43.83	58.71	-53.4
24	-5.00	54.94	71.70	-51.1
25	-5.00	54.94	71.70	-51.1
25	-5.33	82.21	92.91	-46.6
26	-5.33	82.21	92.91	-46.6
26	-5.60	109.31	107.48	-43.0
27	-5.60	109.31	107.48	-43.0
27	-5.83	134.14	**108.00**	-40.0
28	-5.83	134.14	**108.00**	-40.0
28	-6.42	196.14	102.46	-32.6
29	-6.42	196.14	102.46	-32.6
29	-7.00	252.09	87.33	-25.8
30	-7.00	252.10	87.33	-25.8
30	-7.60	297.42	62.55	-19.4
31	-7.60	297.41	62.53	-19.4
31	-7.83	310.42	50.16	-17.2
32	-7.83	310.42	50.14	-17.2
32	-8.20	324.74	26.92	-14.0
33	-8.20	324.74	26.91	-14.0
33	-8.50	**329.76**	6.33	-11.6
34	-8.50	**329.76**	6.33	-11.6
34	-8.88	328.58	-12.34	-8.9
35	-8.88	328.58	-12.34	-8.9
35	-9.00	326.75	-18.24	-8.1
36	-9.00	326.75	-18.24	-8.1
36	-9.38	316.45	-35.88	-5.9
37	-9.38	316.45	-35.88	-5.9
37	-9.39	316.08	-36.34	-5.9
38	-9.39	316.08	-36.34	-5.9
38	-9.50	311.81	-41.32	-5.3
39	-9.50	311.81	-41.32	-5.3
39	-9.79	297.94	-54.30	-4.0
40	-9.79	297.94	-54.30	-4.0
40	-9.88	292.88	-58.30	-3.6
41	-9.88	292.88	-58.30	-3.6
41	-9.89	292.29	-58.74	-3.6
42	-9.89	292.29	-58.74	-3.6
42	-10.29	265.59	-73.92	-2.1
43	-10.29	265.59	-73.92	-2.1
43	-10.38	258.81	-76.71	-1.9
44	-10.38	258.81	-76.71	-1.9
44	-10.39	258.05	-77.00	-1.8
45	-10.39	258.05	-77.03	-1.8
45	-10.80	224.45	-85.66	-0.8
46	-10.80	224.45	-85.66	-0.8
46	-10.83	221.87	-86.02	-0.7
47	-10.83	221.87	-86.01	-0.7
47	-11.29	181.65	-87.80	0.1
48	-11.29	181.65	-87.80	0.1
48	-11.38	173.76	-87.47	0.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	173.76	-87.47	0.2
49	-11.39	172.88	-87.42	0.2
50	-11.39	172.88	-87.42	0.2
50	-11.50	163.30	-86.77	0.3
51	-11.50	163.30	-86.76	0.3
51	-11.89	130.16	-82.82	0.6
52	-11.89	130.16	-82.81	0.6
52	-12.29	98.14	-77.09	0.8
53	-12.29	98.14	-77.08	0.8
53	-12.38	91.27	-75.67	0.8
54	-12.38	91.27	-75.67	0.8
54	-12.39	90.51	-75.51	0.8
55	-12.39	90.51	-75.51	0.8
55	-12.50	82.30	-73.75	0.8
56	-12.50	82.30	-73.75	0.8
56	-12.79	61.59	-69.07	0.8
57	-12.79	61.59	-69.07	0.8
57	-13.00	47.44	-65.74	0.8
58	-13.00	47.44	-65.74	0.8
58	-13.20	35.31	-55.63	0.8
59	-13.20	35.31	-55.63	0.8
59	-13.33	28.49	-49.37	0.7
60	-13.33	28.49	-49.36	0.7
60	-14.06	3.80	-20.08	0.5
61	-14.06	3.80	-20.08	0.5
61	-14.79	-3.65	-2.28	0.2
62	-14.79	-3.65	-2.28	0.2
62	-14.88	-3.79	-0.89	0.2
63	-14.88	-3.79	-0.89	0.2
63	-15.00	-3.80	0.69	0.2
64	-15.00	-3.80	0.69	0.2
64	-15.39	-2.84	3.73	0.0
65	-15.39	-2.84	3.73	0.0
65	-15.50	-2.41	4.02	0.0
66	-15.50	-2.41	4.02	0.0
66	-15.79	-1.26	3.60	-0.1
67	-15.79	-1.26	3.60	-0.1
67	-15.83	-1.12	3.41	-0.1
68	-15.83	-1.12	3.41	-0.1
68	-15.89	-0.93	3.06	-0.1
69	-15.89	-0.93	3.06	-0.1
69	-16.00	-0.64	2.24	-0.1
70	-16.00	-0.64	2.24	-0.1
70	-16.29	-0.13	1.16	-0.2
71	-16.29	-0.13	1.16	-0.2
71	-16.33	-0.08	0.96	-0.2
72	-16.33	-0.08	0.96	-0.2
72	-16.39	-0.04	0.65	-0.3
73	-16.39	-0.04	0.65	-0.3
73	-16.50	0.00	0.00	-0.3
Max		**329.76**	**108.00**	**-127.2**
Max incl. tussenknopen		330.15	108.04	-127.2

10.7.3 Grafieken van Spanningen



10.7.4 Spanningen

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	10.08	27.47	P		20.83	27.47	A	
21	-3.20	4.93	27.47	P		7.48	49.97	A	
21	-3.60	5.36	31.39	P		13.21	53.89	A	
22	-3.60	5.44	31.39	P		13.25	53.89	A	
22	-4.21	6.35	37.43	P		13.67	59.93	A	
23	-4.21	6.46	37.43	P		13.72	59.93	A	
23	-4.83	7.45	43.46	P		143.22	65.96	A	
24	-4.83	7.52	43.46	P		66.08	65.96	A	
24	-5.00	7.80	45.13	P		57.57	67.63	A	
25	-5.00	7.84	45.13	P		56.00	67.63	A	
25	-5.33	8.38	48.36	P		44.37	70.86	A	
26	-5.33	8.44	48.36	P		43.46	70.86	A	99
26	-5.60	8.35	51.01	P		36.66	73.51	A	84
27	-5.60	30.76	51.01	P		48.28	51.01	A	
27	-5.83	31.02	53.27	P		29.84	53.27	A	12
28	-5.83	31.75	53.27	P		29.54	53.27	A	11
28	-6.42	43.28	59.01	P		26.43	59.01	A	
29	-6.42	44.64	59.01	P		26.12	59.01	A	
29	-7.00	57.06	64.75	P		23.91	64.75	A	
30	-7.00	58.47	64.75	P		23.71	64.75	A	
30	-7.60	66.95	70.63	3	96	21.92	70.63	A	
31	-7.60	71.66	70.63	P		22.37	70.63	A	
31	-7.83	80.36	72.89	P		22.05	72.89	A	
32	-7.83	81.62	72.89	P		22.03	72.89	A	
32	-8.20	87.06	76.52	3	91	21.67	76.52	A	
33	-8.20	88.04	76.52	3	91	21.64	76.52	A	
33	-8.50	92.70	79.46	3	85	21.48	79.46	A	
34	-8.50	72.66	79.46	2	73	22.01	79.46	A	
34	-8.88	70.68	82.34	2	64	22.57	82.34	A	
35	-8.88	71.02	82.34	2	64	22.50	82.34	A	
35	-9.00	70.46	83.25	2	62	14.42	83.25	A	
36	-9.00	70.81	83.25	2	62	23.14	83.25	A	
36	-9.38	69.65	86.14	2	56	24.29	86.14	A	
37	-9.38	69.91	86.14	2	56	24.36	86.14	A	
37	-9.39	69.89	86.21	2	56	24.39	86.21	A	
38	-9.39	69.98	86.21	2	56	24.41	86.21	A	
38	-9.50	69.81	87.05	2	54	24.74	87.05	A	
39	-9.50	70.08	87.05	2	54	24.81	87.05	A	
39	-9.79	70.01	89.25	2	51	25.69	89.25	A	
40	-9.79	70.26	89.25	2	51	25.75	89.25	A	
40	-9.88	70.34	89.93	2	50	26.02	89.93	A	
41	-9.88	70.41	89.93	2	50	26.04	89.93	A	
41	-9.89	70.40	90.01	1	50	26.07	90.01	A	
42	-9.89	70.58	90.01	1	50	26.14	90.01	A	
42	-10.29	59.36	93.04	1	39	27.35	93.04	A	
43	-10.29	59.57	93.04	1	39	27.43	93.04	A	
43	-10.38	57.47	93.73	1	37	27.70	93.73	A	
44	-10.38	57.51	93.73	1	37	27.72	93.73	A	
44	-10.39	57.29	93.80	1	37	27.75	93.80	A	
45	-10.39	57.47	93.80	1	37	27.82	93.80	A	
45	-10.80	49.82	96.91	1	30	37.45	96.91	1	
46	-10.80	50.00	96.91	1	30	37.54	96.91	1	
46	-10.83	49.55	97.14	1	29	38.23	97.14	1	
47	-10.83	49.75	97.14	1	29	38.34	97.14	1	
47	-11.29	44.56	100.63	1		47.23	100.63	1	15

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
48	-11.29	44.78	100.63	1		47.35	100.63	1	15
48	-11.38	44.11	101.31	1		48.75	101.31	1	15
49	-11.38	44.15	101.31	1		48.77	101.31	1	15
49	-11.39	44.08	101.39	1		48.92	101.39	1	15
50	-11.39	44.13	101.39	1		48.95	101.39	1	15
50	-11.50	43.45	102.22	1		50.51	102.22	1	15
51	-11.50	43.65	102.22	1		50.62	102.22	1	15
51	-11.89	42.34	105.18	1		55.08	105.18	1	16
52	-11.89	42.64	105.18	1		55.25	105.18	1	16
52	-12.29	42.76	108.22	1		58.37	108.22	1	17
53	-12.29	42.95	108.22	1		58.47	108.22	1	17
53	-12.38	43.14	108.90	1		59.01	108.90	1	17
54	-12.38	43.18	108.90	1		59.03	108.90	1	17
54	-12.39	43.20	108.98	1		59.09	108.98	1	17
55	-12.39	43.25	108.98	1		59.11	108.98	1	17
55	-12.50	43.57	109.81	1		59.69	109.81	1	17
56	-12.50	43.71	109.81	1		59.77	109.81	1	17
56	-12.79	44.87	112.01	1		60.97	112.01	1	17
57	-12.79	45.06	112.01	1		61.08	112.01	1	17
57	-13.00	46.02	113.61	1		61.63	113.61	1	16
58	-13.00	28.08	113.61	1		79.82	113.61	1	17
58	-13.20	26.62	115.57	1		75.87	115.57	1	16
59	-13.20	26.75	115.57	1		75.94	115.57	1	16
59	-13.33	28.30	116.84	1		75.48	116.84	1	16
60	-13.33	28.63	116.84	1		75.68	116.84	1	16
60	-14.06	38.95	124.00	1		71.49	124.00	1	14
61	-14.06	39.48	124.00	1		71.83	124.00	1	14
61	-14.79	50.50	131.17	1		66.96	131.17	1	13
62	-14.79	50.79	131.17	1		67.15	131.17	1	13
62	-14.88	52.13	132.05	1		66.57	132.05	1	12
63	-14.88	52.20	132.05	1		66.62	132.05	1	12
63	-15.00	53.98	133.23	1		65.87	133.23	1	12
64	-15.00	54.15	133.23	1		65.99	133.23	1	12
64	-15.39	59.82	137.05	1		63.61	137.05	1	11
65	-15.39	59.99	137.05	1		63.73	137.05	1	11
65	-15.50	61.57	138.13	1		63.08	138.13	1	11
66	-15.50	61.71	138.13	1		63.18	138.13	1	11
66	-15.79	65.83	140.98	1	16	61.51	140.98	1	
67	-15.79	65.94	140.98	1	16	61.58	140.98	1	
67	-15.83	66.51	141.37	1	17	61.36	141.37	1	
68	-15.83	66.54	141.37	1	17	61.38	141.37	1	
68	-15.89	67.39	141.96	1	17	61.04	141.96	1	
69	-15.89	67.45	141.96	1	17	61.08	141.96	1	
69	-16.00	69.05	143.04	1	17	60.49	143.04	1	
70	-16.00	66.22	143.04	1	24	63.49	143.04	1	
70	-16.29	79.62	145.88	1	28	74.87	145.88	1	
71	-16.29	79.71	145.88	1	28	74.93	145.88	1	
71	-16.33	80.00	146.27	1	28	74.94	146.27	1	
72	-16.33	80.02	146.27	1	28	74.96	146.27	1	
72	-16.39	80.46	146.86	1	28	74.97	146.86	1	
73	-16.39	80.50	146.86	1	28	75.00	146.86	1	
73	-16.50	81.24	147.94	1	28	74.99	147.94	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

10.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	618.0	564.0
Water	1213.9	1267.9
Totaal	1832.0	1832.0

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	618.03 kN
Percentage gemobiliseerde weerstand	29.1 %

11 Stap 6.5 Fase 2: Fase 2: Aanvullen achter damwand+ged. verkeersbela

11.1 Invoergegevens Links

11.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

11.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

11.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

11.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

11.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

11.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	10.7	0.00	2.38	72.28
2	-3.08	0.0	11.0	0.00	2.38	37.31
3	-3.12	0.0	11.4	0.00	2.38	25.66
4	-3.16	0.0	11.7	0.00	2.38	19.83
5	-3.20	0.0	12.0	0.00	2.75	19.11
6	-3.20	0.0	5.3	0.00	2.75	8.06
7	-3.28	0.0	5.4	0.00	3.22	7.42
8	-3.36	0.0	5.6	0.00	3.53	6.73
9	-3.44	0.0	5.7	0.00	3.77	6.20
10	-3.52	0.0	5.9	0.00	3.96	5.77
11	-3.60	0.0	6.0	0.00	4.12	5.49
12	-3.60	0.0	6.1	0.00	4.12	5.29
13	-3.72	0.0	6.3	0.00	4.30	4.97
14	-3.85	0.0	6.5	0.00	4.44	4.63
15	-3.97	0.0	6.7	0.00	4.35	4.35
16	-4.09	0.0	7.0	0.00	4.11	4.11
17	-4.21	0.0	7.2	0.00	3.97	3.97
18	-4.21	0.0	7.3	0.00	3.88	3.88
19	-4.34	0.0	7.5	0.00	3.76	3.76
20	-4.46	0.0	7.7	0.00	3.61	3.61
21	-4.58	0.0	8.0	0.00	3.49	3.49
22	-4.71	0.0	8.2	0.00	3.38	3.38
23	-4.83	0.0	8.4	0.00	3.31	3.31
24	-4.83	0.0	8.5	0.00	3.28	3.28
25	-4.86	0.0	8.5	0.00	3.26	3.26
26	-4.90	0.0	8.6	0.00	3.24	3.24
27	-4.93	0.0	8.7	0.00	3.21	3.21
28	-4.97	0.0	8.7	0.00	3.19	3.19
29	-5.00	0.0	8.8	0.00	3.18	3.18
30	-5.00	0.0	8.8	0.00	3.16	3.16
31	-5.07	0.0	8.9	0.00	3.13	3.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	9.1	0.00	3.09	3.09
33	-5.20	0.0	9.2	0.00	3.05	3.05
34	-5.26	0.0	9.3	0.00	3.02	3.02
35	-5.33	0.0	9.4	0.00	3.00	3.00
36	-5.33	0.0	9.5	0.00	2.98	2.98
37	-5.38	0.0	9.6	0.00	2.96	2.96
38	-5.44	0.0	9.7	0.00	2.94	2.94
39	-5.49	0.0	9.8	0.00	2.91	2.91
40	-5.55	0.0	9.9	0.00	2.89	2.89
41	-5.60	0.0	10.0	0.00	2.70	2.70
42	-5.60	0.0	52.9	0.00	4.06	13.67
43	-5.65	0.0	46.7	0.00	3.65	11.40
44	-5.69	0.0	44.7	0.00	3.47	10.13
45	-5.74	0.0	44.4	0.00	3.30	9.41
46	-5.78	0.0	44.7	0.00	3.16	8.91
47	-5.83	0.0	45.2	0.00	3.03	8.61
48	-5.83	0.0	46.0	0.00	3.03	8.32
49	-5.95	0.0	47.9	0.00	2.76	7.84
50	-6.06	0.0	50.9	0.00	2.55	7.38
51	-6.18	0.0	54.1	0.00	2.38	7.05
52	-6.30	0.0	57.5	0.00	2.24	6.79
53	-6.42	0.0	60.0	0.00	2.12	6.63
54	-6.42	0.0	61.7	0.00	2.12	6.54
55	-6.53	0.0	64.4	0.00	2.01	6.42
56	-6.65	0.0	67.9	0.00	1.93	6.28
57	-6.77	0.0	71.4	0.00	1.85	6.16
58	-6.88	0.0	75.0	0.00	1.78	6.06
59	-7.00	0.0	77.6	0.00	1.72	5.99
60	-7.00	0.0	79.5	0.00	1.72	5.95
61	-7.12	0.0	82.2	0.00	1.66	5.89
62	-7.24	0.0	85.9	0.00	1.61	5.82
63	-7.36	0.0	89.6	0.00	1.56	5.76
64	-7.48	0.0	93.3	0.00	1.52	5.70
65	-7.60	0.0	96.1	0.00	1.45	5.56
66	-7.60	0.0	101.1	0.00	1.45	5.71
67	-7.65	0.0	103.0	0.00	1.39	5.70
68	-7.69	0.0	105.5	0.00	1.37	5.70
69	-7.74	0.0	108.1	0.00	1.35	5.69
70	-7.78	0.0	110.7	0.00	1.33	5.69
71	-7.83	0.0	112.6	0.00	1.31	5.68
72	-7.83	0.0	114.3	0.00	1.31	5.68
73	-7.90	0.0	117.4	0.00	1.28	5.67
74	-7.98	0.0	121.6	0.00	1.26	5.67
75	-8.05	0.0	125.8	0.00	1.24	5.67
76	-8.13	0.9	130.0	0.04	1.21	5.66
77	-8.20	6.4	133.1	0.27	1.19	5.66
78	-8.20	6.5	135.0	0.27	1.19	5.66
79	-8.26	6.6	137.6	0.27	1.18	5.66
80	-8.32	6.8	141.0	0.27	1.16	5.66
81	-8.38	7.0	144.4	0.27	1.15	5.66
82	-8.44	7.1	147.9	0.27	1.13	5.65
83	-8.50	7.3	150.5	0.27	1.13	5.69
84	-8.50	5.4	131.5	0.20	1.13	4.92
85	-8.58	5.5	133.7	0.20	1.17	4.91
86	-8.65	5.7	136.7	0.21	1.15	4.90
87	-8.73	6.0	139.6	0.21	1.14	4.88
88	-8.80	6.2	142.5	0.21	1.13	4.87
89	-8.88	6.3	144.7	0.21	1.12	4.86
90	-8.88	6.4	145.7	0.21	1.12	4.86
91	-8.90	6.5	146.4	0.21	1.11	4.86
92	-8.93	6.5	147.3	0.22	1.11	4.85
93	-8.95	6.6	148.3	0.22	1.11	4.85
94	-8.98	6.7	149.2	0.22	1.10	4.84
95	-9.00	6.7	149.9	0.22	1.10	4.84

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	6.8	150.9	0.22	1.10	4.84
97	-9.08	7.0	153.1	0.22	1.09	4.83
98	-9.15	7.2	156.0	0.22	1.08	4.82
99	-9.23	7.4	158.9	0.22	1.07	4.81
100	-9.30	7.6	161.9	0.23	1.06	4.80
101	-9.38	7.8	164.1	0.23	1.05	4.79
102	-9.38	7.8	164.8	0.23	1.05	4.79
103	-9.38	7.8	164.9	0.23	1.05	4.79
104	-9.38	7.9	165.0	0.23	1.05	4.79
105	-9.39	7.9	165.1	0.23	1.05	4.79
106	-9.39	7.9	165.1	0.23	1.05	4.79
107	-9.39	7.9	165.2	0.23	1.05	4.79
108	-9.39	7.9	165.4	0.23	1.05	4.79
109	-9.41	7.9	166.1	0.23	1.04	4.79
110	-9.43	8.0	166.9	0.23	1.04	4.79
111	-9.46	8.1	167.8	0.23	1.04	4.78
112	-9.48	8.1	168.6	0.23	1.04	4.78
113	-9.50	8.2	169.2	0.23	1.03	4.78
114	-9.50	8.2	170.0	0.23	1.03	4.78
115	-9.56	8.4	171.7	0.23	1.03	4.77
116	-9.62	8.5	174.0	0.23	1.02	4.77
117	-9.67	8.7	176.2	0.23	1.01	4.76
118	-9.73	8.9	178.4	0.24	1.01	4.75
119	-9.79	9.0	180.1	0.24	1.00	4.75
120	-9.79	9.0	180.9	0.24	1.00	4.75
121	-9.81	9.1	181.4	0.24	1.00	4.75
122	-9.83	9.1	182.1	0.24	1.00	4.75
123	-9.84	9.2	182.8	0.24	1.00	4.74
124	-9.86	9.2	183.5	0.24	0.99	4.74
125	-9.88	9.3	184.0	0.24	0.99	4.74
126	-9.88	9.3	184.2	0.24	0.99	4.74
127	-9.88	9.3	184.2	0.24	0.99	4.74
128	-9.88	9.3	184.3	0.24	0.99	4.74
129	-9.89	9.3	184.4	0.24	0.99	4.74
130	-9.89	9.3	184.5	0.24	0.99	4.74
131	-9.89	9.3	184.5	0.24	0.99	4.74
132	-9.89	9.4	185.3	0.24	0.99	4.74
133	-9.97	9.5	187.7	0.24	0.98	4.73
134	-10.05	9.8	190.7	0.24	0.98	4.73
135	-10.13	10.0	193.8	0.24	0.97	4.72
136	-10.21	10.2	196.9	0.24	0.96	4.71
137	-10.29	10.4	199.3	0.25	0.96	4.71
138	-10.29	10.5	200.2	0.25	0.96	4.71
139	-10.31	10.5	200.7	0.25	0.95	4.70
140	-10.33	10.6	201.4	0.25	0.95	4.70
141	-10.34	10.6	202.1	0.25	0.95	4.70
142	-10.36	10.7	202.8	0.25	0.95	4.70
143	-10.38	10.7	203.3	0.25	0.95	4.70
144	-10.38	10.7	203.5	0.25	0.95	4.70
145	-10.38	10.7	203.6	0.25	0.95	4.70
146	-10.38	10.7	203.7	0.25	0.95	4.70
147	-10.39	10.7	203.8	0.25	0.95	4.70
148	-10.39	10.7	203.8	0.25	0.95	4.70
149	-10.39	10.8	203.9	0.25	0.95	4.70
150	-10.39	10.8	204.7	0.25	0.95	4.70
151	-10.47	11.0	207.1	0.25	0.94	4.69
152	-10.55	11.2	210.3	0.25	0.94	4.69
153	-10.64	11.5	213.4	0.25	0.93	4.68
154	-10.72	11.7	216.6	0.25	0.92	4.68
155	-10.80	11.9	219.0	0.25	0.92	4.67
156	-10.80	11.9	219.8	0.25	0.92	4.67
157	-10.81	12.0	220.0	0.25	0.92	4.67
158	-10.81	12.0	220.3	0.25	0.92	4.67
159	-10.82	12.0	220.5	0.25	0.92	4.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	12.0	220.7	0.25	0.92	4.67
161	-10.83	12.0	220.9	0.25	0.92	4.67
162	-10.83	12.1	221.8	0.25	0.92	4.67
163	-10.92	12.3	224.5	0.26	0.91	4.66
164	-11.01	12.6	228.1	0.26	0.90	4.66
165	-11.11	12.8	231.6	0.26	0.90	4.65
166	-11.20	13.1	235.2	0.26	0.89	4.65
167	-11.29	13.3	237.9	0.26	0.89	4.64
168	-11.29	13.4	238.9	0.26	0.89	4.64
169	-11.31	13.4	239.5	0.26	0.89	4.64
170	-11.33	13.5	240.2	0.26	0.88	4.64
171	-11.34	13.5	240.9	0.26	0.88	4.64
172	-11.36	13.6	241.6	0.26	0.88	4.64
173	-11.38	13.6	242.1	0.26	0.88	4.64
174	-11.38	13.6	242.3	0.26	0.88	4.64
175	-11.38	13.6	242.3	0.26	0.88	4.64
176	-11.38	13.6	242.4	0.26	0.88	4.64
177	-11.39	13.6	242.5	0.26	0.88	4.64
178	-11.39	13.6	242.6	0.26	0.88	4.64
179	-11.39	13.6	242.6	0.26	0.88	4.64
180	-11.39	13.7	242.8	0.26	0.88	4.64
181	-11.41	13.7	243.5	0.26	0.88	4.64
182	-11.43	13.8	244.3	0.26	0.88	4.64
183	-11.46	13.8	245.2	0.26	0.88	4.64
184	-11.48	13.9	246.0	0.26	0.88	4.63
185	-11.50	13.9	246.7	0.26	0.87	4.63
186	-11.50	14.0	247.7	0.26	0.87	4.63
187	-11.58	14.2	249.9	0.26	0.87	4.63
188	-11.66	14.4	252.9	0.26	0.87	4.63
189	-11.73	14.6	256.0	0.26	0.86	4.62
190	-11.81	14.9	259.0	0.27	0.86	4.62
191	-11.89	15.0	261.2	0.27	0.85	4.62
192	-11.89	15.1	262.8	0.27	0.85	4.61
193	-11.97	15.3	265.1	0.27	0.85	4.61
194	-12.05	15.6	268.2	0.27	0.85	4.61
195	-12.13	15.8	271.3	0.27	0.84	4.61
196	-12.21	16.0	274.4	0.27	0.84	4.60
197	-12.29	16.2	276.7	0.27	0.84	4.60
198	-12.29	16.3	277.7	0.27	0.84	4.60
199	-12.31	16.3	278.2	0.27	0.83	4.60
200	-12.33	16.3	278.9	0.27	0.83	4.60
201	-12.34	16.4	279.6	0.27	0.83	4.60
202	-12.36	16.5	280.3	0.27	0.83	4.60
203	-12.38	16.5	280.8	0.27	0.83	4.60
204	-12.38	16.5	281.0	0.27	0.83	4.60
205	-12.38	16.5	281.1	0.27	0.83	4.60
206	-12.38	16.5	281.1	0.27	0.83	4.60
207	-12.39	16.5	281.2	0.27	0.83	4.60
208	-12.39	16.5	281.3	0.27	0.83	4.60
209	-12.39	16.5	281.3	0.27	0.83	4.60
210	-12.39	16.6	281.6	0.27	0.83	4.60
211	-12.41	16.6	282.2	0.27	0.83	4.60
212	-12.43	16.7	283.1	0.27	0.83	4.59
213	-12.46	16.7	283.9	0.27	0.83	4.59
214	-12.48	16.8	284.8	0.27	0.83	4.59
215	-12.50	16.8	285.4	0.27	0.83	4.59
216	-12.50	16.9	286.2	0.27	0.83	4.59
217	-12.56	17.0	287.9	0.27	0.82	4.59
218	-12.62	17.2	290.1	0.27	0.82	4.59
219	-12.67	17.4	292.4	0.27	0.82	4.59
220	-12.73	17.5	294.6	0.27	0.82	4.58
221	-12.79	17.6	296.3	0.27	0.81	4.58
222	-12.79	17.7	297.3	0.27	0.81	4.58
223	-12.83	17.8	298.5	0.27	0.81	4.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	17.9	300.1	0.27	0.81	4.58
225	-12.92	18.1	301.7	0.27	0.81	4.58
226	-12.96	18.2	303.4	0.27	0.81	4.58
227	-13.00	18.3	304.6	0.27	0.81	4.57
228	-13.00	18.5	385.9	0.28	0.81	5.77
229	-13.04	18.6	387.6	0.28	0.75	5.77
230	-13.08	18.7	389.8	0.28	0.75	5.76
231	-13.12	18.8	392.0	0.28	0.75	5.76
232	-13.16	19.0	394.2	0.28	0.75	5.76
233	-13.20	19.0	395.9	0.28	0.74	5.76
234	-13.20	19.1	396.8	0.28	0.74	5.76
235	-13.23	19.1	397.9	0.28	0.74	5.76
236	-13.25	19.2	399.3	0.28	0.74	5.76
237	-13.28	19.3	400.8	0.28	0.74	5.76
238	-13.30	19.4	402.3	0.28	0.74	5.75
239	-13.33	19.4	403.3	0.28	0.74	5.75
240	-13.33	19.5	405.8	0.28	0.74	5.75
241	-13.48	19.9	411.9	0.28	0.73	5.75
242	-13.62	20.3	420.1	0.28	0.73	5.74
243	-13.77	20.7	428.4	0.28	0.72	5.74
244	-13.91	21.1	436.7	0.28	0.72	5.74
245	-14.06	21.4	442.9	0.28	0.71	5.73
246	-14.06	21.6	447.1	0.28	0.71	5.73
247	-14.21	21.9	453.3	0.28	0.71	5.73
248	-14.35	22.4	461.7	0.28	0.71	5.73
249	-14.50	22.8	470.1	0.28	0.70	5.73
250	-14.64	23.2	478.5	0.28	0.70	5.73
251	-14.79	23.5	484.8	0.28	0.69	5.73
252	-14.79	23.6	487.1	0.28	0.69	5.72
253	-14.81	23.7	487.9	0.28	0.69	5.72
254	-14.83	23.7	488.9	0.28	0.69	5.72
255	-14.84	23.8	490.0	0.28	0.69	5.72
256	-14.86	23.8	491.0	0.28	0.69	5.72
257	-14.88	23.8	491.8	0.28	0.69	5.72
258	-14.88	23.9	492.4	0.28	0.69	5.72
259	-14.90	23.9	493.4	0.28	0.69	5.72
260	-14.93	24.0	494.8	0.28	0.69	5.72
261	-14.95	24.1	496.2	0.28	0.69	5.72
262	-14.98	24.1	497.6	0.28	0.69	5.72
263	-15.00	24.2	498.6	0.28	0.69	5.72
264	-15.00	24.3	500.1	0.28	0.69	5.72
265	-15.08	24.4	503.5	0.28	0.69	5.72
266	-15.16	24.6	508.0	0.28	0.68	5.72
267	-15.23	24.9	512.5	0.28	0.68	5.72
268	-15.31	25.1	517.0	0.28	0.68	5.72
269	-15.39	25.3	520.4	0.28	0.68	5.72
270	-15.39	25.3	521.8	0.28	0.68	5.72
271	-15.41	25.4	522.7	0.28	0.68	5.72
272	-15.43	25.4	524.0	0.28	0.68	5.72
273	-15.46	25.5	525.3	0.28	0.68	5.72
274	-15.48	25.6	526.6	0.28	0.68	5.72
275	-15.50	25.6	527.5	0.28	0.68	5.72
276	-15.50	25.7	528.7	0.28	0.68	5.72
277	-15.56	25.8	531.2	0.28	0.68	5.72
278	-15.62	26.0	534.6	0.28	0.67	5.72
279	-15.67	26.1	537.9	0.28	0.67	5.72
280	-15.73	26.3	541.3	0.28	0.67	5.72
281	-15.79	26.4	543.8	0.28	0.67	5.72
282	-15.79	26.5	544.7	0.28	0.67	5.72
283	-15.80	26.5	545.1	0.28	0.67	5.72
284	-15.81	26.5	545.6	0.28	0.67	5.72
285	-15.81	26.5	546.0	0.28	0.67	5.72
286	-15.82	26.5	546.5	0.28	0.67	5.72
287	-15.83	26.6	546.8	0.28	0.67	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	26.6	547.1	0.28	0.67	5.72
289	-15.84	26.6	547.6	0.28	0.67	5.72
290	-15.85	26.6	548.3	0.28	0.67	5.72
291	-15.87	26.7	549.0	0.28	0.67	5.72
292	-15.88	26.7	549.7	0.28	0.67	5.72
293	-15.89	26.7	550.3	0.28	0.67	5.72
294	-15.89	26.8	550.7	0.28	0.67	5.72
295	-15.91	26.8	551.7	0.28	0.67	5.72
296	-15.93	26.9	553.0	0.28	0.67	5.72
297	-15.96	26.9	554.3	0.28	0.67	5.72
298	-15.98	27.0	555.5	0.28	0.67	5.72
299	-16.00	27.0	556.5	0.28	0.67	5.72
300	-16.00	31.1	350.6	0.32	0.67	3.60
301	-16.06	31.3	351.6	0.32	0.78	3.60
302	-16.12	31.4	353.0	0.32	0.78	3.60
303	-16.17	31.6	354.3	0.32	0.78	3.59
304	-16.23	31.7	355.6	0.32	0.78	3.59
305	-16.29	31.9	356.6	0.32	0.78	3.59
306	-16.29	31.9	357.0	0.32	0.78	3.59
307	-16.30	31.9	357.1	0.32	0.78	3.59
308	-16.31	31.9	357.3	0.32	0.78	3.59
309	-16.31	32.0	357.5	0.32	0.78	3.59
310	-16.32	32.0	357.6	0.32	0.78	3.59
311	-16.33	32.0	357.8	0.32	0.78	3.59
312	-16.33	32.0	357.9	0.32	0.78	3.59
313	-16.34	32.0	358.1	0.32	0.78	3.59
314	-16.35	32.1	358.4	0.32	0.78	3.59
315	-16.37	32.1	358.7	0.32	0.78	3.59
316	-16.38	32.2	358.9	0.32	0.78	3.59
317	-16.39	32.2	359.1	0.32	0.78	3.59
318	-16.39	32.2	359.3	0.32	0.78	3.59
319	-16.41	32.2	359.7	0.32	0.78	3.59
320	-16.43	32.3	360.2	0.32	0.78	3.59
321	-16.46	32.4	360.7	0.32	0.78	3.59
322	-16.48	32.4	361.2	0.32	0.78	3.59
323	-16.50	32.5	361.6	0.32	0.78	3.58

11.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	2.06
5 Veen	19.27
3 Klei/zand (NZ)	110.00
4 Zand (NZ)	71.36
5 Klei (NZ)	222.61
6 zandlaag 1 (NZ)	148.18
7 klei (NZ)	38.45
8 zandlaag 2 (NZ)	0.00

11.4 Invoergegevens Rechts

11.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

11.4.2 Waterniveau

Freatisch niveau: -0.40 [m]

11.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

11.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-50% wos

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

11.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

11.4.6 Bovenbelastingen

Naam	Afstand [m]	Belasting [kN/m²]
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00
Verkeer 1- 10 kN/m2	6.30	10.00
	9.30	10.00

11.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	17.6	115.6	0.38	1.07	2.53
2	-3.08	17.6	115.9	0.38	1.16	2.53
3	-3.12	17.7	116.3	0.38	1.05	2.53
4	-3.16	17.8	116.6	0.38	0.99	2.52
5	-3.20	17.8	116.9	0.39	0.97	2.53
6	-3.20	11.4	44.7	0.28	0.97	1.10
7	-3.28	11.4	44.7	0.48	1.80	1.87
8	-3.36	11.5	44.7	0.48	1.76	1.86
9	-3.44	11.5	44.7	0.48	1.72	1.86
10	-3.52	11.6	44.8	0.48	1.68	1.85
11	-3.60	11.6	44.8	0.48	1.65	1.84
12	-3.60	11.7	44.9	0.48	1.65	1.84
13	-3.72	11.7	45.0	0.48	1.59	1.84
14	-3.85	11.8	45.1	0.48	1.54	1.83
15	-3.97	11.9	45.3	0.48	1.50	1.83
16	-4.09	12.0	45.5	0.48	1.45	1.82
17	-4.21	12.1	45.7	0.48	1.41	1.82
18	-4.21	12.1	45.8	0.48	1.41	1.82
19	-4.34	12.2	46.0	0.48	1.36	1.82
20	-4.46	12.3	46.2	0.48	1.33	1.81
21	-4.58	12.3	46.4	0.48	1.29	1.81
22	-4.71	12.4	46.6	0.48	1.25	1.81
23	-4.83	12.5	46.8	0.48	1.22	1.81
24	-4.83	12.5	46.9	0.48	1.22	1.81
25	-4.86	12.5	46.9	0.48	1.21	1.81
26	-4.90	12.6	47.0	0.48	1.20	1.81
27	-4.93	12.6	47.0	0.48	1.19	1.81
28	-4.97	12.6	47.1	0.48	1.18	1.81
29	-5.00	12.6	47.2	0.48	1.18	1.80
30	-5.00	12.7	47.2	0.48	1.18	1.80
31	-5.07	132.7	47.3	5.06	5.06	5.06

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	62.6	47.4	2.38	2.38	2.38
33	-5.20	59.4	47.6	2.25	2.25	2.25
34	-5.26	54.2	47.7	2.05	2.05	2.05
35	-5.33	49.9	47.8	1.88	1.88	1.88
36	-5.33	48.9	47.8	1.84	1.84	1.84
37	-5.38	47.6	47.9	1.79	1.79	1.80
38	-5.44	45.9	48.0	1.72	1.72	1.80
39	-5.49	44.3	48.1	1.66	1.66	1.80
40	-5.55	42.8	48.2	1.60	1.60	1.80
41	-5.60	41.7	48.3	1.54	1.54	1.79
42	-5.60	33.3	347.7	1.01	1.03	10.59
43	-5.65	33.0	353.8	0.66	0.66	7.09
44	-5.69	32.5	378.0	0.65	0.65	7.53
45	-5.74	32.2	405.4	0.64	0.64	8.02
46	-5.78	31.8	436.2	0.63	0.63	8.58
47	-5.83	31.5	461.8	0.62	0.62	9.04
48	-5.83	31.2	495.8	0.61	0.61	9.66
49	-5.95	30.5	585.5	0.59	0.59	11.28
50	-6.06	29.6	748.7	0.56	0.57	14.21
51	-6.18	28.8	996.1	0.54	0.56	18.64
52	-6.30	28.0	1394.6	0.52	0.56	25.72
53	-6.42	26.7	1439.8	0.49	0.55	26.28
54	-6.42	24.3	258.6	0.44	0.55	4.69
55	-6.53	23.6	261.3	0.42	0.54	4.69
56	-6.65	22.8	264.8	0.40	0.54	4.69
57	-6.77	22.0	268.4	0.38	0.54	4.69
58	-6.88	21.2	274.4	0.37	0.53	4.73
59	-7.00	20.7	280.5	0.35	0.53	4.79
60	-7.00	20.4	282.2	0.35	0.53	4.78
61	-7.12	19.9	279.7	0.33	0.52	4.69
62	-7.24	19.3	279.5	0.32	0.52	4.63
63	-7.36	18.8	281.5	0.31	0.52	4.60
64	-7.48	18.3	285.2	0.30	0.51	4.61
65	-7.60	18.2	287.9	0.29	0.51	4.58
66	-7.60	19.4	346.4	0.31	0.51	5.48
67	-7.65	19.5	348.2	0.31	0.50	5.48
68	-7.69	19.6	350.6	0.31	0.49	5.48
69	-7.74	21.3	353.1	0.33	0.49	5.48
70	-7.78	18.2	355.6	0.28	0.49	5.47
71	-7.83	19.5	357.4	0.30	0.49	5.47
72	-7.83	21.7	359.0	0.33	0.49	5.47
73	-7.90	19.4	362.0	0.29	0.49	5.47
74	-7.98	19.1	367.7	0.29	0.49	5.50
75	-8.05	20.4	392.1	0.30	0.49	5.80
76	-8.13	20.6	406.1	0.30	0.49	5.94
77	-8.20	20.7	408.9	0.30	0.49	5.93
78	-8.20	20.8	410.6	0.30	0.49	5.93
79	-8.26	21.0	412.9	0.30	0.48	5.92
80	-8.32	21.2	416.0	0.30	0.48	5.92
81	-8.38	21.3	419.2	0.30	0.48	5.91
82	-8.44	21.5	422.3	0.30	0.48	5.91
83	-8.50	21.6	424.7	0.30	0.48	5.92
84	-8.50	22.0	337.1	0.31	0.48	4.68
85	-8.58	22.2	339.3	0.31	0.50	4.68
86	-8.65	22.4	342.3	0.31	0.50	4.68
87	-8.73	22.6	345.2	0.31	0.50	4.67
88	-8.80	22.9	348.2	0.31	0.50	4.67
89	-8.88	23.0	350.4	0.31	0.50	4.67
90	-8.88	23.1	351.3	0.31	0.50	4.67
91	-8.90	23.2	352.0	0.31	0.50	4.67
92	-8.93	23.2	353.0	0.31	0.50	4.67
93	-8.95	23.3	353.9	0.31	0.50	4.67
94	-8.98	23.4	354.8	0.31	0.50	4.67
95	-9.00	23.4	355.5	0.31	0.50	4.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	23.5	356.5	0.31	0.50	4.67
97	-9.08	23.7	334.3	0.31	0.50	4.35
98	-9.15	23.9	330.2	0.31	0.50	4.26
99	-9.23	24.1	333.1	0.31	0.50	4.26
100	-9.30	24.4	336.0	0.31	0.50	4.26
101	-9.38	24.5	338.2	0.31	0.50	4.26
102	-9.38	24.6	339.0	0.31	0.50	4.26
103	-9.38	24.6	339.0	0.31	0.50	4.26
104	-9.38	24.6	339.1	0.31	0.50	4.26
105	-9.39	24.6	339.2	0.31	0.50	4.26
106	-9.39	24.6	339.3	0.31	0.50	4.26
107	-9.39	24.6	339.3	0.31	0.50	4.26
108	-9.39	24.6	339.6	0.31	0.50	4.26
109	-9.41	24.7	340.2	0.31	0.50	4.26
110	-9.43	24.8	341.0	0.31	0.50	4.26
111	-9.46	24.8	341.9	0.31	0.50	4.26
112	-9.48	24.9	342.7	0.31	0.50	4.26
113	-9.50	24.9	343.4	0.31	0.50	4.26
114	-9.50	25.0	344.2	0.31	0.50	4.26
115	-9.56	25.1	345.8	0.31	0.50	4.26
116	-9.62	25.3	348.1	0.31	0.50	4.27
117	-9.67	25.5	350.3	0.31	0.50	4.27
118	-9.73	25.6	352.5	0.31	0.50	4.27
119	-9.79	25.8	354.2	0.31	0.50	4.27
120	-9.79	25.8	355.0	0.31	0.50	4.27
121	-9.81	25.9	355.5	0.31	0.50	4.27
122	-9.83	25.9	356.2	0.31	0.50	4.27
123	-9.84	25.9	356.9	0.31	0.50	4.27
124	-9.86	26.0	357.6	0.31	0.50	4.27
125	-9.88	26.0	358.1	0.31	0.50	4.27
126	-9.88	26.0	358.3	0.31	0.50	4.27
127	-9.88	26.0	358.3	0.31	0.50	4.27
128	-9.88	26.0	358.4	0.31	0.50	4.27
129	-9.89	26.0	358.5	0.31	0.50	4.27
130	-9.89	26.0	358.6	0.31	0.50	4.27
131	-9.89	26.0	358.6	0.31	0.50	4.27
132	-9.89	26.1	364.2	0.31	0.50	4.33
133	-9.97	26.2	377.6	0.31	0.49	4.46
134	-10.05	26.3	381.6	0.31	0.49	4.47
135	-10.13	26.4	384.7	0.31	0.49	4.47
136	-10.21	26.6	387.8	0.31	0.49	4.47
137	-10.29	26.7	390.1	0.31	0.49	4.47
138	-10.29	26.7	391.1	0.31	0.49	4.47
139	-10.31	26.7	391.6	0.30	0.49	4.47
140	-10.33	26.8	392.3	0.30	0.49	4.47
141	-10.34	26.8	393.0	0.30	0.49	4.47
142	-10.36	26.8	393.7	0.30	0.49	4.47
143	-10.38	26.8	394.2	0.30	0.49	4.47
144	-10.38	26.8	394.4	0.30	0.49	4.47
145	-10.38	26.9	394.5	0.30	0.49	4.47
146	-10.38	26.9	394.5	0.30	0.49	4.47
147	-10.39	26.8	394.6	0.30	0.49	4.47
148	-10.39	26.9	394.7	0.30	0.49	4.47
149	-10.39	26.9	394.8	0.30	0.49	4.47
150	-10.39	26.9	395.6	0.30	0.49	4.47
151	-10.47	27.0	398.0	0.30	0.49	4.47
152	-10.55	27.1	401.1	0.30	0.49	4.47
153	-10.64	27.3	404.3	0.30	0.49	4.47
154	-10.72	27.4	407.5	0.30	0.49	4.47
155	-10.80	27.5	409.9	0.30	0.49	4.47
156	-10.80	27.5	410.7	0.30	0.49	4.47
157	-10.81	27.5	410.9	0.30	0.49	4.47
158	-10.81	27.5	411.1	0.30	0.49	4.47
159	-10.82	27.6	407.1	0.30	0.49	4.42

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	27.5	397.2	0.30	0.49	4.31
161	-10.83	27.6	397.4	0.30	0.49	4.31
162	-10.83	27.6	398.4	0.30	0.49	4.31
163	-10.92	30.0	401.0	0.32	0.49	4.31
164	-11.01	27.7	395.2	0.30	0.49	4.21
165	-11.11	28.6	397.1	0.30	0.49	4.20
166	-11.20	28.7	400.6	0.30	0.49	4.20
167	-11.29	28.8	403.2	0.30	0.49	4.20
168	-11.29	28.9	404.3	0.30	0.49	4.20
169	-11.31	28.9	404.8	0.30	0.49	4.20
170	-11.33	28.9	405.5	0.30	0.49	4.20
171	-11.34	29.0	406.2	0.30	0.49	4.20
172	-11.36	29.0	406.9	0.30	0.49	4.20
173	-11.38	29.0	407.4	0.30	0.49	4.20
174	-11.38	29.0	407.6	0.30	0.49	4.20
175	-11.38	29.0	407.7	0.30	0.49	4.20
176	-11.38	29.0	407.8	0.30	0.49	4.20
177	-11.39	29.0	407.8	0.30	0.49	4.20
178	-11.39	29.0	407.9	0.30	0.49	4.20
179	-11.39	29.0	408.0	0.30	0.49	4.20
180	-11.39	29.0	408.2	0.30	0.49	4.20
181	-11.41	29.1	408.8	0.30	0.49	4.20
182	-11.43	29.1	409.7	0.30	0.49	4.20
183	-11.46	29.2	410.5	0.30	0.49	4.20
184	-11.48	29.3	411.4	0.30	0.49	4.20
185	-11.50	29.3	412.0	0.30	0.49	4.20
186	-11.50	29.4	413.0	0.30	0.49	4.20
187	-11.58	29.6	415.2	0.30	0.49	4.21
188	-11.66	29.8	418.2	0.30	0.49	4.21
189	-11.73	30.2	421.2	0.30	0.49	4.21
190	-11.81	31.4	424.2	0.31	0.49	4.21
191	-11.89	31.5	426.1	0.31	0.49	4.21
192	-11.89	31.7	433.9	0.31	0.49	4.27
193	-11.97	31.8	444.4	0.31	0.49	4.35
194	-12.05	32.1	447.6	0.31	0.49	4.35
195	-12.13	32.3	450.7	0.31	0.49	4.35
196	-12.21	32.5	453.8	0.31	0.49	4.35
197	-12.29	32.7	456.1	0.31	0.49	4.35
198	-12.29	32.8	457.0	0.31	0.49	4.35
199	-12.31	32.8	457.6	0.31	0.49	4.35
200	-12.33	32.9	458.3	0.31	0.49	4.35
201	-12.34	32.9	459.0	0.31	0.49	4.35
202	-12.36	33.0	459.6	0.31	0.49	4.35
203	-12.38	33.0	460.2	0.31	0.49	4.35
204	-12.38	33.0	460.4	0.31	0.49	4.35
205	-12.38	33.0	460.4	0.31	0.49	4.35
206	-12.38	33.0	460.5	0.31	0.49	4.35
207	-12.39	33.0	460.6	0.31	0.49	4.35
208	-12.39	33.0	460.7	0.31	0.49	4.35
209	-12.39	33.0	460.7	0.31	0.49	4.35
210	-12.39	33.1	460.9	0.31	0.49	4.35
211	-12.41	33.1	461.6	0.31	0.49	4.35
212	-12.43	33.2	462.4	0.31	0.49	4.35
213	-12.46	33.2	463.3	0.31	0.49	4.35
214	-12.48	33.2	464.1	0.31	0.49	4.35
215	-12.50	33.3	464.8	0.31	0.49	4.35
216	-12.50	33.3	465.6	0.31	0.49	4.35
217	-12.56	33.3	467.2	0.31	0.49	4.35
218	-12.62	33.4	469.5	0.31	0.49	4.36
219	-12.67	33.5	471.7	0.31	0.49	4.36
220	-12.73	33.5	474.0	0.31	0.50	4.36
221	-12.79	33.6	475.7	0.31	0.50	4.36
222	-12.79	33.6	476.6	0.31	0.50	4.36
223	-12.83	33.6	477.8	0.31	0.50	4.36

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	33.7	479.5	0.31	0.50	4.36
225	-12.92	33.7	481.1	0.31	0.50	4.36
226	-12.96	33.8	482.7	0.30	0.50	4.36
227	-13.00	33.8	483.9	0.30	0.49	4.35
228	-13.00	32.0	626.1	0.29	0.49	5.62
229	-13.04	32.0	633.1	0.29	0.46	5.67
230	-13.08	32.1	633.5	0.29	0.46	5.65
231	-13.12	32.1	635.7	0.29	0.46	5.65
232	-13.16	32.2	638.0	0.28	0.46	5.65
233	-13.20	32.2	639.6	0.28	0.46	5.65
234	-13.20	32.2	640.6	0.28	0.46	5.65
235	-13.23	32.3	641.7	0.28	0.46	5.65
236	-13.25	32.3	643.1	0.28	0.46	5.65
237	-13.28	32.3	644.6	0.28	0.46	5.65
238	-13.30	35.0	646.0	0.31	0.46	5.65
239	-13.33	33.1	647.1	0.29	0.46	5.65
240	-13.33	31.7	649.5	0.28	0.46	5.65
241	-13.48	32.7	655.6	0.28	0.46	5.65
242	-13.62	33.0	663.9	0.28	0.46	5.65
243	-13.77	33.4	672.1	0.28	0.46	5.65
244	-13.91	33.8	680.4	0.28	0.46	5.65
245	-14.06	34.1	686.6	0.28	0.46	5.65
246	-14.06	34.3	690.7	0.28	0.46	5.65
247	-14.21	34.6	696.9	0.28	0.46	5.65
248	-14.35	34.8	705.1	0.28	0.46	5.65
249	-14.50	35.3	707.3	0.28	0.46	5.60
250	-14.64	35.7	716.5	0.28	0.46	5.61
251	-14.79	36.0	722.8	0.28	0.46	5.61
252	-14.79	36.1	725.1	0.28	0.46	5.61
253	-14.81	36.2	725.9	0.28	0.46	5.61
254	-14.83	36.2	726.9	0.28	0.46	5.61
255	-14.84	36.3	728.0	0.28	0.46	5.61
256	-14.86	36.3	729.0	0.28	0.46	5.61
257	-14.88	36.2	729.8	0.28	0.46	5.61
258	-14.88	36.2	730.4	0.28	0.46	5.61
259	-14.90	36.2	731.4	0.28	0.46	5.61
260	-14.93	36.2	732.8	0.28	0.46	5.61
261	-14.95	36.2	734.2	0.28	0.46	5.61
262	-14.98	36.1	735.5	0.28	0.46	5.61
263	-15.00	36.1	736.6	0.28	0.46	5.61
264	-15.00	36.1	738.0	0.27	0.46	5.61
265	-15.08	36.0	741.4	0.27	0.46	5.61
266	-15.16	35.9	745.9	0.27	0.46	5.61
267	-15.23	35.9	757.8	0.27	0.46	5.67
268	-15.31	35.8	769.4	0.27	0.46	5.72
269	-15.39	35.8	772.8	0.26	0.46	5.72
270	-15.39	35.7	774.2	0.26	0.46	5.72
271	-15.41	35.7	775.1	0.26	0.46	5.72
272	-15.43	35.6	776.4	0.26	0.46	5.72
273	-15.46	35.7	777.6	0.26	0.46	5.72
274	-15.48	35.7	778.9	0.26	0.46	5.72
275	-15.50	35.6	779.9	0.26	0.46	5.72
276	-15.50	35.6	781.0	0.26	0.46	5.72
277	-15.56	35.6	783.5	0.26	0.46	5.72
278	-15.62	35.7	786.8	0.26	0.46	5.72
279	-15.67	35.8	790.1	0.26	0.46	5.72
280	-15.73	36.0	793.5	0.26	0.46	5.72
281	-15.79	36.1	796.0	0.26	0.46	5.72
282	-15.79	36.2	796.9	0.26	0.46	5.72
283	-15.80	36.2	797.3	0.26	0.46	5.72
284	-15.81	36.2	797.7	0.26	0.46	5.72
285	-15.81	36.2	798.2	0.26	0.46	5.72
286	-15.82	36.3	798.6	0.26	0.46	5.72
287	-15.83	36.3	799.0	0.26	0.46	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	36.3	799.3	0.26	0.46	5.72
289	-15.84	36.3	799.8	0.26	0.46	5.72
290	-15.85	36.4	800.5	0.26	0.46	5.72
291	-15.87	36.4	801.2	0.26	0.46	5.72
292	-15.88	36.4	801.9	0.26	0.46	5.72
293	-15.89	36.5	802.4	0.26	0.46	5.72
294	-15.89	36.5	802.9	0.26	0.46	5.72
295	-15.91	36.5	803.8	0.26	0.46	5.72
296	-15.93	36.6	805.1	0.26	0.46	5.72
297	-15.96	36.6	806.3	0.26	0.46	5.72
298	-15.98	36.7	807.6	0.26	0.46	5.72
299	-16.00	36.8	808.6	0.26	0.46	5.72
300	-16.00	44.9	493.2	0.32	0.46	3.49
301	-16.06	45.0	494.2	0.32	0.54	3.49
302	-16.12	45.2	495.5	0.32	0.54	3.49
303	-16.17	45.3	496.9	0.32	0.54	3.48
304	-16.23	45.5	498.2	0.32	0.54	3.48
305	-16.29	45.6	489.4	0.32	0.54	3.41
306	-16.29	45.7	486.2	0.32	0.54	3.39
307	-16.30	45.7	486.3	0.32	0.54	3.39
308	-16.31	45.7	486.5	0.32	0.54	3.39
309	-16.31	45.8	486.7	0.32	0.54	3.39
310	-16.32	45.8	486.9	0.32	0.54	3.39
311	-16.33	45.8	487.0	0.32	0.54	3.39
312	-16.33	45.8	487.1	0.32	0.54	3.39
313	-16.34	45.8	487.3	0.32	0.54	3.39
314	-16.35	45.9	487.6	0.32	0.54	3.39
315	-16.37	45.9	487.9	0.32	0.54	3.39
316	-16.38	45.9	488.2	0.32	0.54	3.39
317	-16.39	46.0	488.4	0.32	0.54	3.39
318	-16.39	46.0	488.6	0.32	0.54	3.39
319	-16.41	46.0	488.9	0.32	0.54	3.39
320	-16.43	46.1	489.4	0.32	0.54	3.39
321	-16.46	46.2	489.9	0.32	0.54	3.39
322	-16.48	46.2	490.4	0.32	0.54	3.39
323	-16.50	46.3	490.8	0.32	0.54	3.39

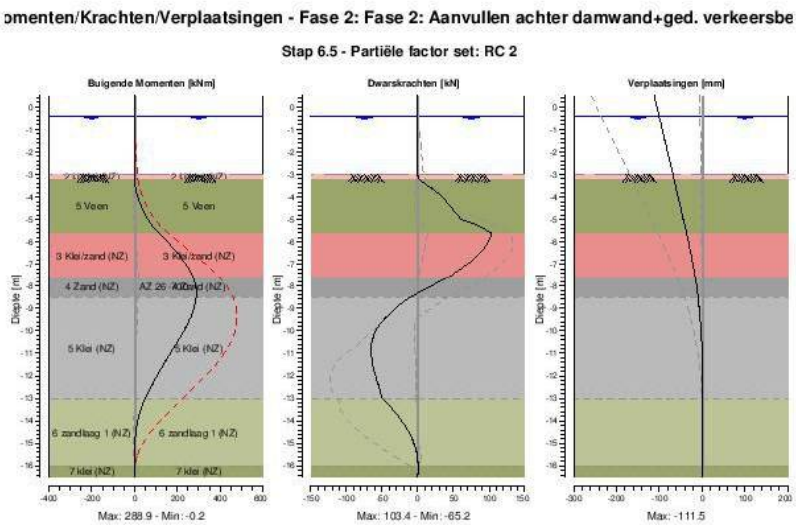
11.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.18
5 Veen	67.51
3 Klei/zand (NZ)	49.31
4 Zand (NZ)	18.16
5 Klei (NZ)	183.50
6 zandlaag 1 (NZ)	198.14
7 klei (NZ)	38.15
8 zandlaag 2 (NZ)	0.00

11.7 Berekeningsresultaten

Aantal iteraties: 5

11.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



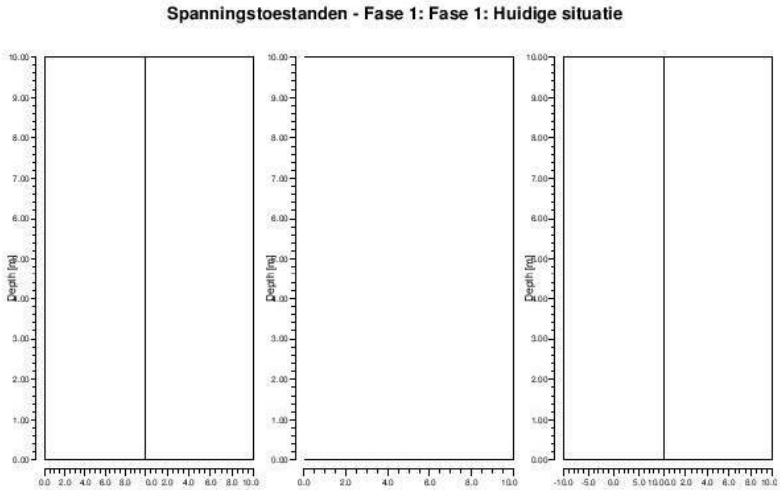
11.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-111.5**
1	0.40	0.00	0.00	-110.2
2	0.40	0.00	0.00	-110.2
2	0.20	0.00	0.00	-107.7
3	0.20	0.00	0.00	-107.7
3	0.17	0.00	0.00	-107.4
4	0.17	0.00	0.00	-107.4
4	0.00	0.00	0.00	-105.3
5	0.00	0.00	0.00	-105.3
5	-0.10	0.00	0.00	-104.0
6	-0.10	0.00	0.00	-104.0
6	-0.20	0.00	0.00	-102.8
7	-0.20	0.00	0.00	-102.8
7	-0.33	0.00	0.00	-101.2
8	-0.33	0.00	0.00	-101.2
8	-0.40	0.00	0.00	-100.3
9	-0.40	0.00	0.00	-100.3
9	-0.60	0.00	0.00	-97.9
10	-0.60	0.00	0.00	-97.9
10	-1.33	0.00	0.00	-88.8
11	-1.33	0.00	0.00	-88.8
11	-1.50	0.00	0.00	-86.7
12	-1.50	0.00	0.00	-86.7
12	-1.60	0.00	0.00	-85.5
13	-1.60	0.00	0.00	-85.5
13	-1.83	0.00	0.00	-82.7
14	-1.83	0.00	0.00	-82.7
14	-2.00	0.00	0.00	-80.6
15	-2.00	0.00	0.00	-80.6
15	-2.15	0.00	0.00	-78.7
16	-2.15	0.00	0.00	-78.7

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	0.00	0.00	-78.1
17	-2.20	0.00	0.00	-78.1
17	-2.33	0.00	0.00	-76.5
18	-2.33	0.00	0.00	-76.5
18	-2.60	0.00	0.00	-73.2
19	-2.60	0.00	0.00	-73.2
19	-3.00	0.00	0.00	-68.2
20	-3.00	0.00	0.00	-68.2
20	-3.20	0.11	1.13	-65.7
21	-3.20	0.11	1.12	-65.7
21	-3.60	3.89	18.51	-60.8
22	-3.60	3.89	18.51	-60.8
22	-4.21	22.60	40.08	-53.2
23	-4.21	22.60	40.09	-53.2
23	-4.83	52.31	56.48	-45.7
24	-4.83	52.31	56.48	-45.7
24	-5.00	62.29	60.93	-43.6
25	-5.00	62.29	60.93	-43.6
25	-5.33	87.18	87.77	-39.7
26	-5.33	87.18	87.77	-39.7
26	-5.60	113.03	103.37	-36.5
27	-5.60	113.03	**103.38**	-36.5
27	-5.83	136.57	101.10	-33.9
28	-5.83	136.57	101.08	-33.9
28	-6.42	192.77	89.84	-27.4
29	-6.42	192.77	89.84	-27.4
29	-7.00	239.67	69.25	-21.5
30	-7.00	239.67	69.23	-21.5
30	-7.60	273.31	42.65	-16.1
31	-7.60	273.31	42.65	-16.1
31	-7.83	281.59	29.32	-14.2
32	-7.83	281.59	29.32	-14.2
32	-8.20	**288.41**	7.51	-11.5
33	-8.20	**288.41**	7.51	-11.5
33	-8.50	287.97	-10.54	-9.5
34	-8.50	287.97	-10.55	-9.5
34	-8.88	280.84	-26.61	-7.2
35	-8.88	280.84	-26.61	-7.2
35	-9.00	277.37	-31.14	-6.6
36	-9.00	277.37	-31.14	-6.6
36	-9.38	263.05	-43.79	-4.8
37	-9.38	263.05	-43.79	-4.8
37	-9.39	262.61	-44.09	-4.7
38	-9.39	262.61	-44.09	-4.7
38	-9.50	257.59	-47.30	-4.3
39	-9.50	257.59	-47.31	-4.3
39	-9.79	242.74	-54.73	-3.1
40	-9.79	242.74	-54.74	-3.1
40	-9.88	237.73	-56.59	-2.8
41	-9.88	237.73	-56.59	-2.8
41	-9.89	237.16	-56.79	-2.8
42	-9.89	237.16	-56.78	-2.8
42	-10.29	213.18	-62.52	-1.6
43	-10.29	213.18	-62.52	-1.6
43	-10.38	207.51	-63.33	-1.4
44	-10.38	207.51	-63.33	-1.4
44	-10.39	206.88	-63.41	-1.3
45	-10.39	206.88	-63.41	-1.3
45	-10.80	180.42	-65.20	-0.4
46	-10.80	180.42	-65.20	-0.4
46	-10.83	178.46	-65.23	-0.4
47	-10.83	178.46	-65.23	-0.4
47	-11.29	148.58	-64.28	0.3
48	-11.29	148.58	-64.28	0.3
48	-11.38	142.81	-63.84	0.4

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	142.81	-63.84	0.4
49	-11.39	142.18	-63.79	0.4
50	-11.39	142.18	-63.79	0.4
50	-11.50	135.19	-63.15	0.5
51	-11.50	135.19	-63.15	0.5
51	-11.89	111.10	-60.26	0.8
52	-11.89	111.10	-60.26	0.8
52	-12.29	87.71	-56.63	1.0
53	-12.29	87.71	-56.63	1.0
53	-12.38	82.65	-55.76	1.0
54	-12.38	82.65	-55.76	1.0
54	-12.39	82.09	-55.66	1.0
55	-12.39	82.09	-55.66	1.0
55	-12.50	76.03	-54.58	1.0
56	-12.50	76.03	-54.58	1.0
56	-12.79	60.62	-51.72	1.0
57	-12.79	60.62	-51.72	1.0
57	-13.00	49.97	-49.66	1.0
58	-13.00	49.97	-49.66	1.0
58	-13.20	40.64	-43.68	1.0
59	-13.20	40.64	-43.68	1.0
59	-13.33	35.21	-39.91	1.0
60	-13.33	35.21	-39.91	1.0
60	-14.06	13.17	-21.25	0.7
61	-14.06	13.17	-21.25	0.7
61	-14.79	2.84	-8.04	0.5
62	-14.79	2.84	-8.04	0.5
62	-14.88	2.17	-6.83	0.4
63	-14.88	2.17	-6.83	0.4
63	-15.00	1.44	-5.37	0.4
64	-15.00	1.44	-5.37	0.4
64	-15.39	0.11	-1.76	0.2
65	-15.39	0.11	-1.76	0.2
65	-15.50	-0.05	-1.07	0.2
66	-15.50	-0.05	-1.07	0.2
66	-15.79	-0.17	0.08	0.1
67	-15.79	-0.17	0.08	0.1
67	-15.83	-0.16	0.16	0.0
68	-15.83	-0.16	0.16	0.0
68	-15.89	-0.15	0.25	0.0
69	-15.89	-0.15	0.25	0.0
69	-16.00	-0.12	0.30	0.0
70	-16.00	-0.12	0.30	0.0
70	-16.29	-0.03	0.26	-0.2
71	-16.29	-0.03	0.26	-0.2
71	-16.33	-0.02	0.22	-0.2
72	-16.33	-0.02	0.22	-0.2
72	-16.39	-0.01	0.16	-0.2
73	-16.39	-0.01	0.16	-0.2
73	-16.50	0.00	0.00	-0.2
Max		**288.41**	**103.38**	**-111.5**
Max incl. tussenknopen		288.88	103.38	-111.5

11.7.3 Grafieken van Spanningen



11.7.4 Spanningen

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.20	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.33	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.40	0.00	0.00	-		0.00	0.00	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-0.60	0.00	1.96	-		0.00	1.96	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.33	0.00	9.12	-		0.00	9.12	-	
11	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.50	0.00	10.79	-		0.00	10.79	-	
12	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.60	0.00	11.77	-		0.00	11.77	-	
13	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-1.83	0.00	14.03	-		0.00	14.03	-	
14	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.00	0.00	15.70	-		0.00	15.70	-	
15	-2.15	0.00	17.17	-		0.00	17.17	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	17.17	-	
16	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.20	0.00	17.66	-		0.00	17.66	-	
17	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.33	0.00	18.93	-		0.00	18.93	-	
18	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-2.60	0.00	21.58	-		0.00	21.58	-	
19	-3.00	0.00	25.51	-		0.00	25.51	-	
20	-3.00	0.00	25.51	P		0.00	25.51	A	
20	-3.20	13.40	27.47	P		17.85	27.47	A	
21	-3.20	6.14	27.47	P		6.69	49.97	A	
21	-3.60	6.54	31.39	P		27.86	53.89	2	
22	-3.60	6.62	31.39	P		28.15	53.89	2	
22	-4.21	7.57	37.43	P		12.12	59.93	A	
23	-4.21	7.69	37.43	P		12.16	59.93	A	
23	-4.83	8.74	43.46	P		12.55	65.96	A	
24	-4.83	8.82	43.46	P		12.58	65.96	A	
24	-5.00	9.11	45.13	P		12.68	67.63	A	
25	-5.00	9.16	45.13	P		12.70	67.63	A	
25	-5.33	9.74	48.36	P		50.07	70.86	A	
26	-5.33	9.80	48.36	P		49.07	70.86	A	
26	-5.60	9.66	51.01	P		41.46	73.51	A	86
27	-5.60	49.93	51.01	3	99	50.18	51.01	A	
27	-5.83	43.52	53.27	P		31.37	53.27	A	7
28	-5.83	44.33	53.27	P		31.04	53.27	A	6
28	-6.42	52.13	59.01	3	89	26.56	59.01	A	
29	-6.42	53.37	59.01	3	88	24.25	59.01	A	
29	-7.00	61.76	64.75	3	81	20.63	64.75	A	
30	-7.00	63.03	64.75	3	81	20.31	64.75	A	
30	-7.60	62.46	70.63	2	67	18.10	70.63	A	
31	-7.60	77.33	70.63	2	79	19.19	70.63	A	
31	-7.83	77.58	72.89	2	71	19.29	72.89	A	
32	-7.83	78.31	72.89	2	71	21.49	72.89	A	
32	-8.20	79.62	76.52	2	61	20.56	76.52	A	
33	-8.20	80.42	76.52	2	61	20.65	76.52	A	
33	-8.50	82.42	79.46	2	56	21.50	79.46	A	
34	-8.50	65.53	79.46	2	51	21.90	79.46	A	
34	-8.88	61.67	82.34	1	43	22.92	82.34	A	
35	-8.88	61.92	82.34	1	43	23.00	82.34	A	
35	-9.00	59.88	83.25	1	40	23.32	83.25	A	
36	-9.00	60.12	83.25	1	40	23.39	83.25	A	
36	-9.38	54.47	86.14	1	34	24.41	86.14	A	
37	-9.38	54.65	86.14	1	34	24.47	86.14	A	
37	-9.39	54.52	86.21	1	33	24.50	86.21	A	
38	-9.39	54.58	86.21	1	33	24.52	86.21	A	
38	-9.50	53.18	87.05	1	32	24.81	87.05	A	
39	-9.50	53.36	87.05	1	32	24.87	87.05	A	
39	-9.79	50.13	89.25	1	28	28.37	89.25	1	
40	-9.79	50.30	89.25	1	28	28.46	89.25	1	
40	-9.88	49.43	89.93	1	27	30.04	89.93	1	
41	-9.88	49.47	89.93	1	27	30.06	89.93	1	
41	-9.89	49.38	90.01	1	27	30.23	90.01	1	
42	-9.89	49.56	90.01	1	27	30.32	90.01	1	
42	-10.29	46.43	93.04	1	24	36.62	93.04	1	
43	-10.29	46.64	93.04	1	24	36.72	93.04	1	
43	-10.38	46.09	93.73	1	23	37.99	93.73	1	
44	-10.38	46.13	93.73	1	23	38.01	93.73	1	
44	-10.39	46.07	93.80	1	23	38.15	93.80	1	
45	-10.39	46.25	93.80	1	23	38.24	93.80	1	
45	-10.80	44.41	96.91	1	20	43.34	96.91	1	
46	-10.80	44.59	96.91	1	20	43.44	96.91	1	
46	-10.83	44.49	97.14	1	20	43.77	97.14	1	
47	-10.83	44.69	97.14	1	20	43.88	97.14	1	
47	-11.29	43.83	100.63	1		48.41	100.63	1	12

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
48	-11.29	44.05	100.63	1		48.53	100.63	1	12
48	-11.38	44.01	101.31	1		49.30	101.31	1	12
49	-11.38	44.05	101.31	1		49.32	101.31	1	12
49	-11.39	44.04	101.39	1		49.40	101.39	1	12
50	-11.39	44.09	101.39	1		49.43	101.39	1	12
50	-11.50	44.09	102.22	1		50.31	102.22	1	12
51	-11.50	44.28	102.22	1		50.42	102.22	1	12
51	-11.89	44.67	105.18	1		53.16	105.18	1	13
52	-11.89	44.98	105.18	1		53.33	105.18	1	12
52	-12.29	45.93	108.22	1		55.59	108.22	1	12
53	-12.29	46.11	108.22	1		55.69	108.22	1	12
53	-12.38	46.40	108.90	1		56.14	108.90	1	12
54	-12.38	46.43	108.90	1		56.16	108.90	1	12
54	-12.39	46.46	108.98	1		56.21	108.98	1	12
55	-12.39	46.51	108.98	1		56.23	108.98	1	12
55	-12.50	46.88	109.81	1		56.75	109.81	1	12
56	-12.50	47.03	109.81	1		56.83	109.81	1	12
56	-12.79	48.15	112.01	1		58.05	112.01	1	12
57	-12.79	48.33	112.01	1		58.16	112.01	1	12
57	-13.00	49.13	113.61	1		58.87	113.61	1	12
58	-13.00	38.97	113.61	1		69.28	113.61	1	11
58	-13.20	36.70	115.57	1		66.13	115.57	1	10
59	-13.20	36.83	115.57	1		66.20	115.57	1	10
59	-13.33	37.76	116.84	1		66.36	116.84	1	10
60	-13.33	38.08	116.84	1		66.56	116.84	1	10
60	-14.06	44.28	124.00	1		66.47	124.00	1	10
61	-14.06	44.81	124.00	1		66.81	124.00	1	10
61	-14.79	51.85	131.17	1		65.89	131.17	1	9
62	-14.79	52.14	131.17	1		66.08	131.17	1	9
62	-14.88	53.03	132.05	1		65.95	132.05	1	9
63	-14.88	53.10	132.05	1		66.00	132.05	1	9
63	-15.00	54.29	133.23	1		65.82	133.23	1	9
64	-15.00	54.47	133.23	1		65.94	133.23	1	9
64	-15.39	58.34	137.05	1		65.34	137.05	1	8
65	-15.39	58.52	137.05	1		65.46	137.05	1	8
65	-15.50	59.61	138.13	1		65.29	138.13	1	8
66	-15.50	59.75	138.13	1		65.38	138.13	1	8
66	-15.79	62.63	140.98	1		64.94	140.98	1	8
67	-15.79	62.75	140.98	1		65.02	140.98	1	8
67	-15.83	63.14	141.37	1		64.96	141.37	1	8
68	-15.83	63.18	141.37	1		64.98	141.37	1	8
68	-15.89	63.78	141.96	1		64.89	141.96	1	8
69	-15.89	63.83	141.96	1		64.93	141.96	1	8
69	-16.00	64.97	143.04	1	12	64.80	143.04	1	
70	-16.00	64.77	143.04	1	19	65.18	143.04	1	
70	-16.29	77.73	145.88	1	22	76.98	145.88	1	
71	-16.29	77.82	145.88	1	22	77.04	145.88	1	
71	-16.33	78.05	146.27	1	22	77.11	146.27	1	
72	-16.33	78.08	146.27	1	22	77.13	146.27	1	
72	-16.39	78.42	146.86	1	22	77.23	146.86	1	
73	-16.39	78.47	146.86	1	22	77.26	146.86	1	
73	-16.50	79.04	147.94	1	22	77.40	147.94	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

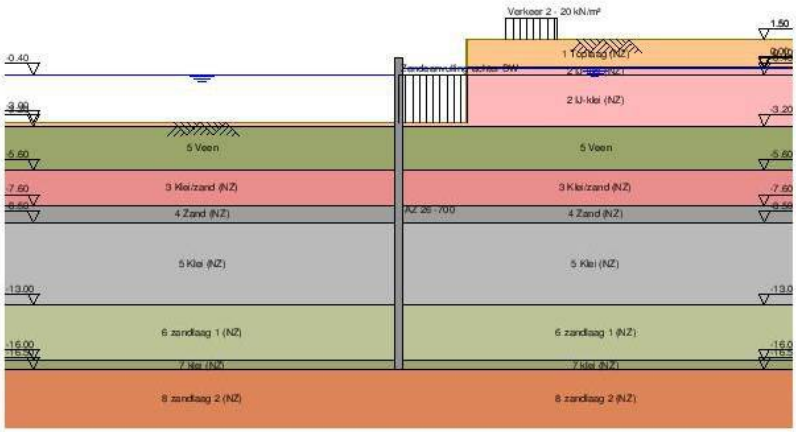
11.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	611.9	558.0
Water	1213.9	1267.9
Totaal	1825.9	1825.9

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2814.08 kN
Gemobiliseerde passieve eff. weerstand	611.93 kN
Percentage gemobiliseerde weerstand	21.8 %

12 Overzicht Fase 3: Fase 3: Verkeersbelasting+Hoge GWS

Overzicht - Fase 3: Fase 3: Verkeersbelasting+Hoge GWS



13 Stap 6.3 Fase 3: Fase 3: Verkeersbelasting+Hoge GWS

13.1 Invoergegevens Links

13.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

13.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

13.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

13.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

13.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

13.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

13.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.53
5 Veen	16.25
3 Klei/zand (NZ)	96.99
4 Zand (NZ)	77.48
5 Klei (NZ)	323.35
6 zandlaag 1 (NZ)	126.75
7 klei (NZ)	33.37
8 zandlaag 2 (NZ)	0.00

13.4 Invoergegevens Rechts

13.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

13.4.2 Waterniveau

Freatisch niveau: -0.10 [m]

13.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

13.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-35% wo

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	15.75	15.75
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

13.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	0.00	1538.46	1538.46	769.23	769.23
2 IJ-klei (NZ)	-0.40	1538.46	1538.46	769.23	769.23
5 Veen	-3.20	923.08	923.08	461.54	461.54
3 Klei/zand (NZ)	-5.60	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-7.60	6153.85	6153.85	3076.92	3076.92

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.00	10769.23	10769.23	5384.62	5384.62
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-16.50	13846.15	13846.15	6923.08	6923.08

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	1153.85	1153.85
2 IJ-klei (NZ)	0.00	384.62	384.62
2 IJ-klei (NZ)	-0.40	384.62	384.62
5 Veen	-3.20	230.77	230.77
3 Klei/zand (NZ)	-5.60	961.54	961.54
4 Zand (NZ)	-7.60	1538.46	1538.46
5 Klei (NZ)	-8.50	769.23	769.23
6 zandlaag 1 (...	-13.00	2692.31	2692.31
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-16.50	3461.54	3461.54

13.4.6 Bovenbelastingen

Naam	Afstand [m]	Belasting [kN/m²]
Verkeer 2 - 20 kN/m²	6.30	22.00
	9.30	22.00
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00

13.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	20.5	99.8	0.44	1.09	2.15
2	-3.08	20.6	100.1	0.44	1.18	2.15
3	-3.12	20.7	100.4	0.44	1.07	2.15
4	-3.16	20.7	100.7	0.44	1.01	2.15
5	-3.20	20.8	100.9	0.44	0.98	2.15
6	-3.20	17.2	51.2	0.40	0.98	1.19
7	-3.28	17.2	51.2	0.55	1.41	1.63
8	-3.36	17.3	51.2	0.55	1.38	1.62
9	-3.44	17.3	51.2	0.55	1.35	1.62
10	-3.52	17.4	51.3	0.55	1.32	1.61
11	-3.60	17.4	51.3	0.55	1.29	1.61
12	-3.60	17.5	51.4	0.55	1.29	1.61
13	-3.72	17.6	51.5	0.55	1.24	1.60
14	-3.85	17.7	51.7	0.55	1.20	1.60
15	-3.97	17.7	51.8	0.55	1.17	1.59
16	-4.09	17.8	52.0	0.55	1.13	1.59
17	-4.21	17.9	52.2	0.55	1.09	1.59
18	-4.21	18.0	52.3	0.54	1.09	1.59
19	-4.34	18.0	52.4	0.54	1.06	1.58
20	-4.46	18.1	52.6	0.54	1.03	1.58
21	-4.58	18.2	52.9	0.54	1.00	1.58
22	-4.71	94.6	53.1	2.81	2.81	2.81
23	-4.83	85.3	53.2	2.53	2.53	2.53
24	-4.83	82.7	53.3	2.45	2.45	2.45
25	-4.86	81.1	53.4	2.40	2.40	2.40
26	-4.90	79.0	53.4	2.33	2.33	2.33
27	-4.93	77.1	53.5	2.27	2.27	2.27
28	-4.97	75.3	53.5	2.22	2.22	2.22
29	-5.00	74.3	53.6	2.18	2.18	2.18
30	-5.00	72.6	53.6	2.13	2.13	2.13
31	-5.07	70.5	53.7	2.07	2.07	2.07

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	67.5	53.8	1.98	1.98	1.98
33	-5.20	64.9	54.0	1.89	1.89	1.89
34	-5.26	57.8	54.1	1.68	1.68	1.68
35	-5.33	51.7	54.2	1.50	1.50	1.58
36	-5.33	50.9	54.2	1.48	1.48	1.58
37	-5.38	50.0	54.3	1.45	1.45	1.58
38	-5.44	48.7	54.4	1.41	1.41	1.57
39	-5.49	47.5	54.5	1.37	1.37	1.57
40	-5.55	46.4	54.6	1.34	1.34	1.58
41	-5.60	45.5	54.7	1.30	1.30	1.57
42	-5.60	36.6	235.5	0.94	0.94	6.03
43	-5.65	36.4	222.1	0.71	0.71	4.35
44	-5.69	36.0	226.5	0.70	0.70	4.41
45	-5.74	35.7	235.5	0.69	0.69	4.56
46	-5.78	35.4	245.2	0.68	0.68	4.72
47	-5.83	35.1	253.0	0.67	0.67	4.85
48	-5.83	34.9	262.8	0.66	0.66	5.01
49	-5.95	34.3	286.4	0.65	0.65	5.40
50	-6.06	33.5	323.5	0.62	0.62	6.01
51	-6.18	32.8	369.2	0.60	0.60	6.76
52	-6.30	32.1	425.8	0.58	0.58	7.69
53	-6.42	29.1	477.5	0.52	0.53	8.54
54	-6.42	23.1	517.4	0.41	0.53	9.19
55	-6.53	22.7	588.9	0.40	0.53	10.36
56	-6.65	23.0	709.5	0.40	0.52	12.31
57	-6.77	23.6	871.6	0.40	0.52	14.93
58	-6.88	22.4	646.7	0.38	0.51	10.94
59	-7.00	23.3	199.0	0.39	0.51	3.33
60	-7.00	23.4	201.2	0.39	0.51	3.35
61	-7.12	23.6	207.9	0.39	0.51	3.43
62	-7.24	23.8	211.2	0.39	0.50	3.44
63	-7.36	24.0	204.4	0.39	0.50	3.29
64	-7.48	24.2	207.3	0.38	0.50	3.29
65	-7.60	24.4	209.5	0.38	0.49	3.28
66	-7.60	24.9	241.3	0.39	0.49	3.76
67	-7.65	25.0	242.8	0.39	0.48	3.76
68	-7.69	25.1	244.7	0.39	0.48	3.76
69	-7.74	25.3	246.7	0.39	0.48	3.77
70	-7.78	25.4	248.6	0.38	0.48	3.77
71	-7.83	25.4	250.1	0.38	0.47	3.77
72	-7.83	25.5	251.4	0.38	0.47	3.77
73	-7.90	25.7	253.7	0.38	0.47	3.78
74	-7.98	25.8	256.9	0.38	0.47	3.79
75	-8.05	26.0	260.1	0.38	0.47	3.79
76	-8.13	26.2	263.2	0.38	0.47	3.80
77	-8.20	26.3	266.3	0.38	0.47	3.81
78	-8.20	26.4	273.4	0.38	0.47	3.89
79	-8.26	26.5	283.2	0.38	0.47	4.01
80	-8.32	26.7	296.7	0.37	0.47	4.16
81	-8.38	26.8	310.5	0.37	0.47	4.32
82	-8.44	26.9	323.0	0.37	0.47	4.46
83	-8.50	27.1	325.3	0.37	0.47	4.47
84	-8.50	28.0	272.2	0.38	0.47	3.73
85	-8.58	28.1	273.9	0.38	0.49	3.73
86	-8.65	28.3	276.2	0.38	0.48	3.73
87	-8.73	28.4	278.5	0.38	0.48	3.72
88	-8.80	28.6	280.7	0.38	0.48	3.72
89	-8.88	28.7	282.3	0.38	0.48	3.72
90	-8.88	28.8	283.6	0.38	0.48	3.73
91	-8.90	28.8	283.7	0.38	0.48	3.72
92	-8.93	28.8	284.4	0.38	0.48	3.72
93	-8.95	28.9	285.2	0.38	0.48	3.72
94	-8.98	28.9	285.9	0.38	0.48	3.72
95	-9.00	29.0	286.4	0.38	0.48	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	29.0	287.2	0.38	0.48	3.72
97	-9.08	29.1	288.9	0.37	0.48	3.72
98	-9.15	29.3	291.1	0.37	0.48	3.71
99	-9.23	29.4	293.4	0.37	0.48	3.71
100	-9.30	29.6	295.7	0.37	0.48	3.71
101	-9.38	29.7	291.6	0.37	0.48	3.64
102	-9.38	29.5	293.1	0.37	0.48	3.65
103	-9.38	29.7	293.2	0.37	0.48	3.65
104	-9.38	29.9	293.2	0.37	0.48	3.65
105	-9.39	29.8	293.3	0.37	0.48	3.65
106	-9.39	29.7	293.3	0.37	0.48	3.65
107	-9.39	29.8	293.4	0.37	0.48	3.65
108	-9.39	29.8	293.6	0.37	0.48	3.65
109	-9.41	29.8	294.1	0.37	0.48	3.65
110	-9.43	29.9	290.6	0.37	0.48	3.60
111	-9.46	29.9	254.7	0.37	0.48	3.14
112	-9.48	29.9	255.4	0.37	0.48	3.15
113	-9.50	30.0	255.9	0.37	0.48	3.15
114	-9.50	30.0	256.5	0.37	0.48	3.15
115	-9.56	30.1	257.8	0.37	0.48	3.15
116	-9.62	30.2	259.5	0.37	0.48	3.15
117	-9.67	30.3	261.3	0.37	0.48	3.15
118	-9.73	30.4	263.0	0.36	0.48	3.15
119	-9.79	30.5	264.3	0.36	0.48	3.16
120	-9.79	30.5	264.9	0.36	0.48	3.16
121	-9.81	30.6	265.3	0.36	0.48	3.16
122	-9.83	30.6	265.8	0.36	0.48	3.16
123	-9.84	30.6	266.4	0.36	0.48	3.16
124	-9.86	30.7	266.9	0.36	0.48	3.16
125	-9.88	30.7	267.3	0.36	0.48	3.16
126	-9.88	31.1	267.5	0.37	0.48	3.16
127	-9.88	30.6	267.5	0.36	0.48	3.16
128	-9.88	30.6	267.6	0.36	0.48	3.16
129	-9.89	30.6	267.6	0.36	0.48	3.16
130	-9.89	30.7	267.7	0.36	0.48	3.16
131	-9.89	31.2	267.7	0.37	0.48	3.16
132	-9.89	30.8	268.4	0.36	0.48	3.16
133	-9.97	30.9	270.2	0.36	0.48	3.16
134	-10.05	31.0	271.9	0.36	0.48	3.16
135	-10.13	31.2	289.2	0.36	0.48	3.33
136	-10.21	31.3	297.7	0.36	0.48	3.40
137	-10.29	31.4	299.2	0.36	0.48	3.40
138	-10.29	31.4	299.9	0.36	0.48	3.40
139	-10.31	31.5	300.4	0.36	0.48	3.40
140	-10.33	31.5	300.9	0.36	0.48	3.40
141	-10.34	31.6	301.4	0.36	0.48	3.40
142	-10.36	31.6	302.0	0.36	0.48	3.40
143	-10.38	31.6	302.4	0.36	0.48	3.40
144	-10.38	31.4	302.6	0.35	0.48	3.40
145	-10.38	31.7	302.6	0.36	0.48	3.40
146	-10.38	31.5	302.7	0.35	0.48	3.40
147	-10.39	31.7	302.7	0.36	0.48	3.40
148	-10.39	31.7	302.8	0.36	0.48	3.40
149	-10.39	31.5	302.8	0.35	0.48	3.40
150	-10.39	31.7	303.5	0.36	0.48	3.40
151	-10.47	31.8	305.3	0.35	0.48	3.40
152	-10.55	31.9	307.8	0.35	0.48	3.40
153	-10.64	32.1	310.3	0.35	0.48	3.40
154	-10.72	32.2	312.8	0.35	0.48	3.41
155	-10.80	32.3	314.6	0.35	0.48	3.41
156	-10.80	45.6	315.3	0.49	0.49	3.41
157	-10.81	25.7	315.4	0.28	0.48	3.41
158	-10.81	32.3	315.6	0.35	0.48	3.41
159	-10.82	43.7	315.8	0.47	0.48	3.41

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	20.6	316.0	0.22	0.48	3.41
161	-10.83	33.9	316.1	0.37	0.48	3.41
162	-10.83	33.8	316.9	0.36	0.48	3.41
163	-10.92	34.0	319.0	0.36	0.48	3.41
164	-11.01	34.3	317.0	0.36	0.48	3.36
165	-11.11	36.2	306.0	0.38	0.48	3.22
166	-11.20	37.3	308.8	0.39	0.48	3.22
167	-11.29	37.5	300.8	0.39	0.48	3.12
168	-11.29	37.5	298.0	0.39	0.48	3.08
169	-11.31	37.5	298.4	0.39	0.48	3.08
170	-11.33	37.6	298.9	0.39	0.48	3.08
171	-11.34	37.6	299.5	0.39	0.48	3.08
172	-11.36	37.6	300.0	0.39	0.48	3.08
173	-11.38	37.6	300.4	0.39	0.48	3.08
174	-11.38	38.0	300.5	0.39	0.48	3.08
175	-11.38	37.6	300.6	0.38	0.48	3.08
176	-11.38	37.6	300.6	0.39	0.48	3.08
177	-11.39	37.7	300.7	0.39	0.48	3.08
178	-11.39	37.7	300.8	0.39	0.48	3.08
179	-11.39	37.6	300.8	0.39	0.48	3.08
180	-11.39	37.7	301.0	0.39	0.48	3.08
181	-11.41	37.7	301.5	0.39	0.48	3.08
182	-11.43	37.7	302.1	0.39	0.48	3.08
183	-11.46	37.8	302.8	0.38	0.48	3.08
184	-11.48	37.8	303.4	0.38	0.48	3.08
185	-11.50	37.8	303.9	0.38	0.48	3.08
186	-11.50	37.9	304.7	0.38	0.48	3.09
187	-11.58	38.0	306.4	0.38	0.48	3.09
188	-11.66	38.1	308.7	0.38	0.48	3.09
189	-11.73	38.2	311.1	0.38	0.48	3.09
190	-11.81	38.3	313.4	0.38	0.48	3.10
191	-11.89	38.4	315.1	0.38	0.48	3.10
192	-11.89	38.5	316.3	0.38	0.48	3.10
193	-11.97	38.5	318.1	0.38	0.48	3.10
194	-12.05	38.7	320.5	0.37	0.48	3.10
195	-12.13	38.8	322.5	0.37	0.48	3.10
196	-12.21	38.9	332.3	0.37	0.48	3.17
197	-12.29	39.0	343.5	0.37	0.48	3.27
198	-12.29	39.1	345.8	0.37	0.48	3.28
199	-12.31	39.0	346.2	0.37	0.48	3.28
200	-12.33	39.0	346.7	0.37	0.48	3.28
201	-12.34	39.1	347.3	0.37	0.48	3.28
202	-12.36	39.1	347.8	0.37	0.48	3.28
203	-12.38	39.1	348.2	0.37	0.48	3.28
204	-12.38	39.5	348.4	0.37	0.48	3.28
205	-12.38	39.1	348.4	0.37	0.48	3.28
206	-12.38	38.9	348.5	0.37	0.48	3.28
207	-12.39	39.4	348.6	0.37	0.48	3.28
208	-12.39	38.9	348.6	0.37	0.48	3.28
209	-12.39	39.4	348.7	0.37	0.48	3.28
210	-12.39	39.2	348.8	0.37	0.48	3.28
211	-12.41	39.2	349.3	0.37	0.48	3.28
212	-12.43	39.2	350.0	0.37	0.48	3.28
213	-12.46	39.2	350.7	0.37	0.48	3.28
214	-12.48	39.2	351.3	0.37	0.48	3.28
215	-12.50	39.3	351.8	0.37	0.48	3.28
216	-12.50	39.3	352.4	0.37	0.48	3.28
217	-12.56	39.4	353.7	0.37	0.48	3.29
218	-12.62	39.4	355.5	0.36	0.48	3.29
219	-12.67	39.5	357.3	0.36	0.48	3.29
220	-12.73	39.6	359.0	0.36	0.48	3.29
221	-12.79	39.7	360.3	0.36	0.48	3.29
222	-12.79	39.7	361.1	0.36	0.48	3.29
223	-12.83	39.7	362.0	0.36	0.48	3.29

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	39.8	363.3	0.36	0.48	3.29
225	-12.92	39.8	364.6	0.36	0.48	3.29
226	-12.96	39.9	365.8	0.36	0.48	3.29
227	-13.00	39.9	366.8	0.36	0.48	3.29
228	-13.00	37.6	452.1	0.34	0.48	4.05
229	-13.04	37.7	453.4	0.34	0.45	4.05
230	-13.08	37.7	455.1	0.34	0.45	4.05
231	-13.12	37.8	456.8	0.33	0.45	4.05
232	-13.16	37.9	458.5	0.33	0.45	4.05
233	-13.20	37.9	459.8	0.33	0.45	4.05
234	-13.20	37.9	460.5	0.33	0.45	4.05
235	-13.23	38.0	461.4	0.33	0.45	4.05
236	-13.25	38.0	462.5	0.33	0.45	4.05
237	-13.28	38.0	463.6	0.33	0.45	4.05
238	-13.30	41.0	464.7	0.36	0.45	4.05
239	-13.33	32.0	465.5	0.28	0.45	4.05
240	-13.33	38.6	467.4	0.33	0.45	4.05
241	-13.48	38.5	472.1	0.33	0.45	4.06
242	-13.62	38.9	478.3	0.33	0.45	4.06
243	-13.77	39.4	484.6	0.33	0.45	4.06
244	-13.91	39.9	490.8	0.33	0.45	4.07
245	-14.06	40.3	495.5	0.33	0.45	4.07
246	-14.06	40.5	498.7	0.33	0.45	4.07
247	-14.21	40.9	503.4	0.33	0.45	4.07
248	-14.35	41.0	509.6	0.33	0.45	4.08
249	-14.50	41.6	515.9	0.33	0.45	4.08
250	-14.64	42.0	516.7	0.33	0.45	4.04
251	-14.79	42.3	521.1	0.33	0.45	4.04
252	-14.79	42.3	522.9	0.33	0.45	4.04
253	-14.81	42.3	523.5	0.33	0.45	4.04
254	-14.83	42.3	524.2	0.33	0.45	4.04
255	-14.84	42.2	525.0	0.33	0.45	4.04
256	-14.86	42.2	525.8	0.32	0.45	4.04
257	-14.88	42.2	526.4	0.32	0.45	4.04
258	-14.88	42.2	526.8	0.32	0.45	4.04
259	-14.90	42.2	527.6	0.32	0.45	4.04
260	-14.93	42.2	528.6	0.32	0.45	4.04
261	-14.95	42.1	529.7	0.32	0.45	4.04
262	-14.98	42.1	530.7	0.32	0.45	4.04
263	-15.00	42.1	531.5	0.32	0.45	4.04
264	-15.00	42.1	532.6	0.32	0.45	4.05
265	-15.08	42.0	535.1	0.32	0.45	4.05
266	-15.16	42.0	538.5	0.32	0.46	4.05
267	-15.23	41.9	541.8	0.31	0.46	4.05
268	-15.31	41.8	545.2	0.31	0.46	4.05
269	-15.39	41.8	547.7	0.31	0.46	4.05
270	-15.39	41.8	548.8	0.31	0.46	4.05
271	-15.41	41.8	549.5	0.31	0.46	4.05
272	-15.43	41.7	550.5	0.31	0.46	4.05
273	-15.46	41.7	551.4	0.31	0.46	4.05
274	-15.48	41.7	552.4	0.31	0.46	4.06
275	-15.50	41.7	551.8	0.31	0.46	4.05
276	-15.50	41.7	566.8	0.31	0.46	4.15
277	-15.56	41.6	575.4	0.30	0.46	4.20
278	-15.62	41.6	577.5	0.30	0.46	4.20
279	-15.67	41.5	579.9	0.30	0.46	4.20
280	-15.73	41.5	582.4	0.30	0.46	4.20
281	-15.79	41.5	584.3	0.30	0.46	4.20
282	-15.79	41.5	585.0	0.30	0.46	4.20
283	-15.80	41.5	585.3	0.30	0.46	4.20
284	-15.81	41.5	585.6	0.30	0.46	4.20
285	-15.81	41.5	585.9	0.30	0.46	4.20
286	-15.82	41.5	586.3	0.30	0.46	4.20
287	-15.83	41.4	586.5	0.30	0.46	4.20

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	41.4	586.8	0.30	0.46	4.20
289	-15.84	41.4	587.1	0.30	0.46	4.20
290	-15.85	41.4	587.7	0.30	0.46	4.20
291	-15.87	41.4	588.2	0.30	0.46	4.20
292	-15.88	41.4	588.7	0.30	0.46	4.20
293	-15.89	41.1	589.1	0.29	0.46	4.20
294	-15.89	41.6	589.4	0.30	0.46	4.20
295	-15.91	41.4	590.2	0.29	0.46	4.20
296	-15.93	41.4	591.1	0.29	0.46	4.20
297	-15.96	41.3	592.0	0.29	0.46	4.20
298	-15.98	41.4	593.0	0.29	0.46	4.20
299	-16.00	41.1	593.7	0.29	0.46	4.20
300	-16.00	50.1	396.5	0.35	0.46	2.80
301	-16.06	50.0	397.4	0.35	0.54	2.80
302	-16.12	49.8	398.5	0.35	0.54	2.80
303	-16.17	49.7	399.6	0.35	0.54	2.80
304	-16.23	49.6	400.7	0.35	0.54	2.80
305	-16.29	49.5	401.5	0.35	0.54	2.80
306	-16.29	49.6	401.9	0.35	0.54	2.80
307	-16.30	49.4	402.0	0.34	0.54	2.80
308	-16.31	49.5	402.1	0.34	0.54	2.80
309	-16.31	49.5	402.3	0.34	0.54	2.80
310	-16.32	49.4	402.4	0.34	0.54	2.80
311	-16.33	49.5	402.6	0.34	0.54	2.80
312	-16.33	49.4	402.6	0.34	0.54	2.80
313	-16.34	49.4	402.8	0.34	0.54	2.80
314	-16.35	49.4	403.0	0.34	0.54	2.80
315	-16.37	49.4	403.3	0.34	0.54	2.80
316	-16.38	49.4	403.5	0.34	0.54	2.80
317	-16.39	49.4	403.7	0.34	0.54	2.80
318	-16.39	49.4	403.8	0.34	0.54	2.80
319	-16.41	49.5	404.2	0.34	0.54	2.80
320	-16.43	49.6	404.6	0.34	0.54	2.80
321	-16.46	49.7	405.0	0.34	0.54	2.80
322	-16.48	49.7	405.4	0.34	0.54	2.80
323	-16.50	49.8	405.7	0.34	0.54	2.80

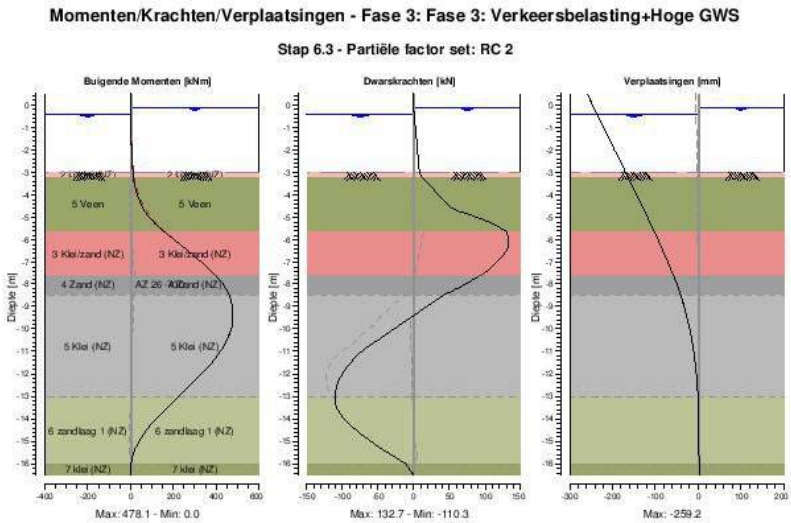
13.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.71
5 Veen	90.16
3 Klei/zand (NZ)	55.37
4 Zand (NZ)	23.20
5 Klei (NZ)	158.40
6 zandlaag 1 (NZ)	216.53
7 klei (NZ)	42.72
8 zandlaag 2 (NZ)	0.00

13.7 Berekeningsresultaten

Aantal iteraties: 4

13.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



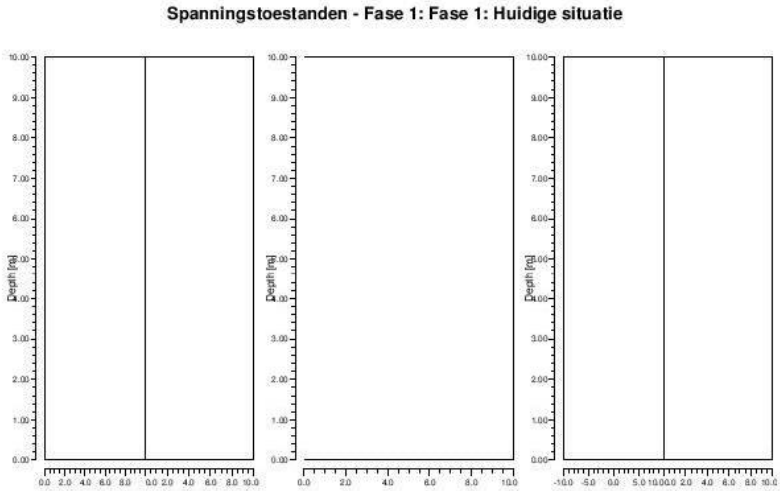
13.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-259.2**
1	0.40	0.00	0.00	-256.6
2	0.40	0.00	0.00	-256.6
2	0.20	0.00	0.00	-251.4
3	0.20	0.00	0.00	-251.4
3	0.17	0.00	0.00	-250.7
4	0.17	0.00	0.00	-250.7
4	0.00	0.00	0.00	-246.3
5	0.00	0.00	0.00	-246.3
5	-0.10	0.00	0.00	-243.7
6	-0.10	0.00	0.00	-243.7
6	-0.20	0.00	0.05	-241.1
7	-0.20	0.00	0.05	-241.1
7	-0.33	0.02	0.26	-237.8
8	-0.33	0.02	0.26	-237.8
8	-0.40	0.04	0.44	-236.0
9	-0.40	0.04	0.44	-236.0
9	-0.60	0.19	1.03	-230.8
10	-0.60	0.19	1.03	-230.8
10	-1.33	1.73	3.18	-212.0
11	-1.33	1.73	3.18	-212.0
11	-1.50	2.31	3.68	-207.6
12	-1.50	2.31	3.68	-207.6
12	-1.60	2.69	3.97	-205.0
13	-1.60	2.69	3.97	-205.0
13	-1.83	3.68	4.65	-199.1
14	-1.83	3.68	4.65	-199.1
14	-2.00	4.52	5.15	-194.7
15	-2.00	4.52	5.15	-194.7
15	-2.15	5.32	5.59	-190.8
16	-2.15	5.32	5.59	-190.8

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	5.61	5.74	-189.5
17	-2.20	5.61	5.74	-189.5
17	-2.33	6.38	6.12	-186.2
18	-2.33	6.38	6.12	-186.2
18	-2.60	8.14	6.92	-179.2
19	-2.60	8.14	6.92	-179.2
19	-3.00	11.14	8.09	-169.0
20	-3.00	11.14	8.09	-169.0
20	-3.20	13.02	10.86	-163.8
21	-3.20	13.02	10.86	-163.8
21	-3.60	19.77	23.04	-153.6
22	-3.60	19.77	23.05	-153.6
22	-4.21	39.74	41.84	-137.8
23	-4.21	39.74	41.85	-137.8
23	-4.83	72.48	73.82	-122.2
24	-4.83	72.48	73.82	-122.2
24	-5.00	86.35	89.02	-117.9
25	-5.00	86.35	89.02	-117.9
25	-5.33	120.02	113.88	-109.7
26	-5.33	120.02	113.88	-109.7
26	-5.60	152.93	129.64	-103.0
27	-5.60	152.93	129.64	-103.0
27	-5.83	183.04	**131.87**	-97.4
28	-5.83	183.04	**131.87**	-97.4
28	-6.42	260.40	130.94	-83.5
29	-6.42	260.40	130.94	-83.5
29	-7.00	333.10	116.32	-70.3
30	-7.00	333.10	116.32	-70.3
30	-7.60	396.44	93.90	-57.7
31	-7.60	396.44	93.89	-57.7
31	-7.83	416.80	82.83	-53.2
32	-7.83	416.80	82.82	-53.2
32	-8.20	443.57	61.44	-46.3
33	-8.20	443.57	61.44	-46.3
33	-8.50	459.16	42.26	-41.0
34	-8.50	459.16	42.25	-41.0
34	-8.88	471.78	24.26	-34.8
35	-8.88	471.78	24.26	-34.8
35	-9.00	474.36	18.66	-33.0
36	-9.00	474.36	18.66	-33.0
36	-9.38	478.11	1.13	-27.5
37	-9.38	478.11	1.13	-27.5
37	-9.39	**478.12**	0.67	-27.4
38	-9.39	**478.12**	0.67	-27.4
38	-9.50	477.91	-4.37	-25.9
39	-9.50	477.91	-4.37	-25.9
39	-9.79	474.72	-17.64	-22.2
40	-9.79	474.72	-17.64	-22.2
40	-9.88	472.95	-21.76	-21.2
41	-9.88	472.95	-21.76	-21.2
41	-9.89	472.73	-22.22	-21.1
42	-9.89	472.73	-22.21	-21.1
42	-10.29	460.16	-40.63	-16.7
43	-10.29	460.16	-40.62	-16.7
43	-10.38	456.32	-44.80	-15.8
44	-10.38	456.32	-44.80	-15.8
44	-10.39	455.87	-45.27	-15.7
45	-10.39	455.87	-45.27	-15.7
45	-10.80	433.38	-64.34	-11.9
46	-10.80	433.37	-64.36	-11.9
46	-10.83	431.42	-65.68	-11.7
47	-10.83	431.42	-65.68	-11.7
47	-11.29	397.15	-82.30	-8.2
48	-11.29	397.15	-82.30	-8.2
48	-11.38	389.63	-84.94	-7.6

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	389.63	-84.94	-7.6
49	-11.39	388.78	-85.22	-7.5
50	-11.39	388.78	-85.22	-7.5
50	-11.50	379.23	-88.25	-6.8
51	-11.50	379.23	-88.25	-6.8
51	-11.89	342.94	-97.53	-4.7
52	-11.89	342.94	-97.53	-4.7
52	-12.29	302.37	-104.83	-2.9
53	-12.29	302.37	-104.83	-2.9
53	-12.38	292.88	-105.99	-2.5
54	-12.38	292.88	-105.99	-2.5
54	-12.39	291.82	-106.11	-2.5
55	-12.39	291.82	-106.11	-2.5
55	-12.50	280.08	-107.25	-2.1
56	-12.50	280.08	-107.25	-2.1
56	-12.79	248.67	-109.08	-1.1
57	-12.79	248.67	-109.08	-1.1
57	-13.00	225.71	-109.47	-0.6
58	-13.00	225.71	-109.47	-0.6
58	-13.20	203.70	-110.27	-0.1
59	-13.20	203.70	-110.27	-0.1
59	-13.33	189.39	-109.78	0.2
60	-13.33	189.39	-109.77	0.2
60	-14.06	113.33	-95.80	1.2
61	-14.06	113.34	-95.78	1.2
61	-14.79	52.55	-69.23	1.8
62	-14.79	52.55	-69.22	1.8
62	-14.88	46.49	-65.39	1.9
63	-14.88	46.49	-65.39	1.9
63	-15.00	38.96	-60.13	1.9
64	-15.00	38.96	-60.13	1.9
64	-15.39	19.00	-41.98	2.1
65	-15.39	19.00	-41.98	2.1
65	-15.50	14.67	-36.60	2.2
66	-15.50	14.67	-36.60	2.2
66	-15.79	6.17	-21.90	2.3
67	-15.79	6.17	-21.90	2.3
67	-15.83	5.34	-19.82	2.3
68	-15.83	5.34	-19.82	2.3
68	-15.89	4.25	-16.67	2.3
69	-15.89	4.25	-16.67	2.3
69	-16.00	2.73	-10.81	2.4
70	-16.00	2.73	-10.81	2.4
70	-16.29	0.49	-4.63	2.5
71	-16.29	0.49	-4.63	2.5
71	-16.33	0.32	-3.76	2.5
72	-16.33	0.32	-3.76	2.5
72	-16.39	0.13	-2.44	2.5
73	-16.39	0.13	-2.44	2.5
73	-16.50	0.00	0.00	2.6
Max		**478.12**	**131.87**	**-259.2**
Max incl. tussenknopen		478.12	132.67	-259.2

13.7.3 Grafieken van Spanningen



13.7.4 Spanningen

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.15	0.00	17.17	-		0.00	20.11	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	20.11	-	
16	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-3.00	0.00	25.51	-		0.00	28.45	-	
20	-3.00	0.00	25.51	P		0.00	28.45	A	
20	-3.20	10.08	27.47	P		20.83	30.41	A	
21	-3.20	4.93	27.47	P		12.49	46.16	A	
21	-3.60	5.36	31.39	P		17.50	50.09	A	
22	-3.60	5.44	31.39	P		17.54	50.09	A	
22	-4.21	6.35	37.43	P		17.96	56.12	A	
23	-4.21	6.46	37.43	P		18.01	56.12	A	
23	-4.83	7.45	43.46	P		85.58	62.15	A	
24	-4.83	7.52	43.46	P		82.92	62.15	A	
24	-5.00	7.80	45.13	P		74.47	63.82	A	
25	-5.00	7.84	45.13	P		72.80	63.82	A	
25	-5.33	8.38	48.36	P		51.81	67.06	A	95
26	-5.33	8.44	48.36	P		51.08	67.06	A	94
26	-5.60	8.35	51.01	P		45.36	69.70	A	83
27	-5.60	30.76	51.01	P		47.44	53.95	A	16
27	-5.83	31.02	53.27	P		35.00	56.21	A	14
28	-5.83	31.75	53.27	P		34.72	56.21	A	13
28	-6.42	43.28	59.01	P		28.95	61.95	A	
29	-6.42	44.64	59.01	P		22.97	61.95	A	
29	-7.00	57.06	64.75	P		23.27	67.69	A	
30	-7.00	58.47	64.75	P		23.37	67.69	A	
30	-7.60	67.23	70.63	3	96	24.17	73.58	A	
31	-7.60	71.66	70.63	P		24.71	73.58	A	
31	-7.83	80.36	72.89	P		25.21	75.83	A	
32	-7.83	81.62	72.89	P		25.29	75.83	A	
32	-8.20	89.83	76.52	3	94	26.10	79.46	A	
33	-8.20	90.81	76.52	3	93	26.17	79.46	A	
33	-8.50	96.35	79.46	3	88	26.89	82.40	A	
34	-8.50	78.64	79.46	2	79	27.81	82.40	A	
34	-8.88	78.05	82.34	2	71	28.55	85.29	A	
35	-8.88	78.40	82.34	2	71	28.60	85.29	A	
35	-9.00	78.19	83.25	2	69	28.83	86.20	A	
36	-9.00	78.53	83.25	2	69	28.87	86.20	A	
36	-9.38	78.16	86.14	2	63	29.56	89.08	A	
37	-9.38	78.42	86.14	2	63	29.34	89.08	A	
37	-9.39	78.42	86.21	2	62	29.64	89.16	A	
38	-9.39	78.50	86.21	2	62	29.61	89.16	A	
38	-9.50	78.48	87.05	2	61	29.86	89.99	A	
39	-9.50	78.75	87.05	2	61	29.85	89.99	A	
39	-9.79	78.88	89.25	2	57	30.35	92.19	A	
40	-9.79	79.14	89.25	2	57	30.40	92.19	A	
40	-9.88	79.23	89.93	2	56	30.53	92.88	A	
41	-9.88	79.30	89.93	2	56	30.92	92.88	A	
41	-9.89	79.31	90.01	2	56	31.00	92.95	A	
42	-9.89	79.59	90.01	2	56	30.61	92.95	A	
42	-10.29	80.33	93.04	2	53	31.28	95.99	A	
43	-10.29	80.65	93.04	2	53	31.30	95.99	A	
43	-10.38	80.89	93.73	2	52	31.46	96.67	A	
44	-10.38	80.95	93.73	2	52	31.29	96.67	A	
44	-10.39	80.98	93.80	2	52	31.31	96.74	A	
45	-10.39	81.26	93.80	2	52	31.53	96.74	A	
45	-10.80	79.26	96.91	1	47	32.17	99.86	A	
46	-10.80	79.44	96.91	1	47	45.44	99.86	A	14
46	-10.83	78.79	97.14	1	47	33.75	100.08	A	
47	-10.83	78.99	97.14	1	46	33.67	100.08	A	
47	-11.29	70.20	100.63	1	38	37.32	103.57	A	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
48	-11.29	70.42	100.63	1	38	37.36	103.57	A	
48	-11.38	68.95	101.31	1	37	37.49	104.26	A	
49	-11.38	68.99	101.31	1	37	37.86	104.26	A	
49	-11.39	68.83	101.39	1	37	37.44	104.33	A	
50	-11.39	68.88	101.39	1	37	37.53	104.33	A	
50	-11.50	67.19	102.22	1	35	37.64	105.17	A	
51	-11.50	67.38	102.22	1	35	37.71	105.17	A	
51	-11.89	62.29	105.18	1	31	38.27	108.13	A	
52	-11.89	62.59	105.18	1	31	38.31	108.13	A	
52	-12.29	58.69	108.22	1	28	41.86	111.16	1	
53	-12.29	58.87	108.22	1	28	41.96	111.16	1	
53	-12.38	58.16	108.90	1	27	43.40	111.84	1	
54	-12.38	58.20	108.90	1	27	43.42	111.84	1	
54	-12.39	58.12	108.98	1	27	43.57	111.92	1	
55	-12.39	58.17	108.98	1	27	43.60	111.92	1	
55	-12.50	57.38	109.81	1	26	45.26	112.76	1	
56	-12.50	57.53	109.81	1	26	45.35	112.76	1	
56	-12.79	55.86	112.01	1	24	49.36	114.96	1	
57	-12.79	56.04	112.01	1	24	49.46	114.96	1	
57	-13.00	55.04	113.61	1	23	51.97	116.55	1	
58	-13.00	59.65	113.61	1	21	47.61	116.55	1	
58	-13.20	51.95	115.57	1	18	49.89	118.51	1	
59	-13.20	52.07	115.57	1	18	49.96	118.51	1	
59	-13.33	49.75	116.84	1		53.37	119.79	1	12
60	-13.33	50.07	116.84	1		53.56	119.79	1	12
60	-14.06	41.53	124.00	1		68.21	126.95	1	14
61	-14.06	42.06	124.00	1		68.53	126.95	1	14
61	-14.79	38.77	131.17	1		77.95	134.11	1	15
62	-14.79	39.06	131.17	1		78.14	134.11	1	15
62	-14.88	38.87	132.05	1		79.08	134.99	1	15
63	-14.88	38.95	132.05	1		79.13	134.99	1	15
63	-15.00	38.75	133.23	1		80.34	136.17	1	15
64	-15.00	38.93	133.23	1		80.46	136.17	1	15
64	-15.39	38.57	137.05	1		84.10	139.99	1	15
65	-15.39	38.74	137.05	1		84.21	139.99	1	15
65	-15.50	38.69	138.13	1		85.19	141.07	1	16
66	-15.50	38.83	138.13	1		85.28	141.07	1	15
66	-15.79	38.77	140.98	1		87.78	143.92	1	15
67	-15.79	38.89	140.98	1		87.86	143.92	1	15
67	-15.83	38.88	141.37	1		88.20	144.31	1	15
68	-15.83	38.92	141.37	1		88.22	144.31	1	15
68	-15.89	38.91	141.96	1		88.73	144.90	1	15
69	-15.89	38.97	141.96	1		88.77	144.90	1	15
69	-16.00	39.01	143.04	1		89.73	145.98	1	15
70	-16.00	55.49	143.04	1		73.43	145.98	1	19
70	-16.29	67.43	145.88	1		86.26	148.82	1	22
71	-16.29	67.52	145.88	1		86.32	148.82	1	22
71	-16.33	67.61	146.27	1		86.53	149.22	1	22
72	-16.33	67.64	146.27	1		86.54	149.22	1	22
72	-16.39	67.77	146.86	1		86.85	149.80	1	22
73	-16.39	67.81	146.86	1		86.89	149.80	1	22
73	-16.50	68.00	147.94	1		87.42	150.88	1	22

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

13.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links	Rechts
	[kN]	[kN]
Effectief	675.7	590.1
Water	1213.9	1299.5
Totaal	1889.7	1889.6

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	675.73 kN
Percentage gemobiliseerde weerstand	31.8 %

14 Stap 6.4 Fase 3: Fase 3: Verkeersbelasting+Hoge GWS

14.1 Invoergegevens Links

14.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

14.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

14.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

14.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

14.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

14.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	7.9	0.00	2.38	53.28
2	-3.08	0.0	8.2	0.00	2.38	27.67
3	-3.12	0.0	8.5	0.00	2.38	19.13
4	-3.16	0.0	8.8	0.00	2.38	14.86
5	-3.20	0.0	9.0	0.00	2.75	14.38
6	-3.20	0.0	4.3	0.00	2.75	6.47
7	-3.28	0.0	4.4	0.00	3.22	5.97
8	-3.36	0.0	4.5	0.00	3.53	5.45
9	-3.44	0.0	4.7	0.00	3.77	5.04
10	-3.52	0.0	4.8	0.00	3.96	4.71
11	-3.60	0.0	4.9	0.00	4.12	4.50
12	-3.60	0.0	5.0	0.00	4.12	4.35
13	-3.72	0.0	5.2	0.00	4.10	4.10
14	-3.85	0.0	5.4	0.00	3.84	3.84
15	-3.97	0.0	5.6	0.00	3.62	3.62
16	-4.09	0.0	5.9	0.00	3.44	3.44
17	-4.21	0.0	6.0	0.00	3.33	3.33
18	-4.21	0.0	6.1	0.00	3.26	3.26
19	-4.34	0.0	6.3	0.00	3.17	3.17
20	-4.46	0.0	6.5	0.00	3.06	3.06
21	-4.58	0.0	6.8	0.00	2.96	2.96
22	-4.71	0.0	7.0	0.00	2.88	2.88
23	-4.83	0.0	7.2	0.00	2.82	2.82
24	-4.83	0.0	7.2	0.00	2.80	2.80
25	-4.86	0.0	7.3	0.00	2.78	2.78
26	-4.90	0.0	7.4	0.00	2.76	2.76
27	-4.93	0.0	7.4	0.00	2.75	2.75
28	-4.97	0.0	7.5	0.00	2.73	2.73
29	-5.00	0.0	7.5	0.00	2.72	2.72
30	-5.00	0.0	7.6	0.00	2.70	2.70
31	-5.07	0.0	7.7	0.00	2.68	2.68

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	7.8	0.00	2.65	2.65
33	-5.20	0.0	7.9	0.00	2.62	2.62
34	-5.26	0.0	8.0	0.00	2.60	2.60
35	-5.33	0.0	8.1	0.00	2.58	2.58
36	-5.33	0.0	8.2	0.00	2.57	2.57
37	-5.38	0.0	8.3	0.00	2.55	2.55
38	-5.44	0.0	8.4	0.00	2.53	2.53
39	-5.49	0.0	8.5	0.00	2.51	2.51
40	-5.55	0.0	8.6	0.00	2.50	2.50
41	-5.60	0.0	8.6	0.00	2.33	2.33
42	-5.60	0.0	32.4	0.00	4.06	8.38
43	-5.65	0.0	31.1	0.00	3.65	7.60
44	-5.69	0.0	30.8	0.00	3.47	7.00
45	-5.74	0.0	31.1	0.00	3.30	6.60
46	-5.78	0.0	31.7	0.00	3.16	6.31
47	-5.83	0.0	32.2	0.00	3.03	6.13
48	-5.83	0.0	32.9	0.00	3.03	5.96
49	-5.95	0.0	34.6	0.00	2.76	5.66
50	-6.06	0.0	37.0	0.00	2.55	5.37
51	-6.18	0.0	39.6	0.00	2.38	5.16
52	-6.30	0.0	42.2	0.00	2.24	4.99
53	-6.42	0.0	44.2	0.00	2.12	4.89
54	-6.42	0.0	45.6	0.00	2.12	4.83
55	-6.53	0.0	47.6	0.00	2.01	4.75
56	-6.65	0.0	50.4	0.00	1.93	4.66
57	-6.77	0.0	53.1	0.00	1.85	4.58
58	-6.88	0.0	55.9	0.00	1.78	4.51
59	-7.00	0.0	57.9	0.00	1.72	4.47
60	-7.00	0.0	59.3	0.00	1.72	4.44
61	-7.12	0.0	61.5	0.00	1.66	4.40
62	-7.24	0.0	64.3	0.00	1.61	4.36
63	-7.36	0.0	67.2	0.00	1.56	4.32
64	-7.48	0.0	70.0	0.00	1.52	4.28
65	-7.60	2.2	72.2	0.13	1.45	4.18
66	-7.60	5.6	74.2	0.32	1.45	4.19
67	-7.65	5.7	75.7	0.32	1.39	4.19
68	-7.69	5.9	77.6	0.32	1.37	4.19
69	-7.74	6.0	79.6	0.32	1.35	4.19
70	-7.78	6.2	81.5	0.32	1.33	4.19
71	-7.83	6.3	82.9	0.32	1.31	4.19
72	-7.83	6.4	84.2	0.32	1.31	4.18
73	-7.90	6.6	86.5	0.32	1.28	4.18
74	-7.98	6.8	89.7	0.32	1.26	4.18
75	-8.05	7.1	92.8	0.32	1.24	4.18
76	-8.13	7.3	95.9	0.32	1.21	4.18
77	-8.20	7.5	98.3	0.32	1.19	4.18
78	-8.20	7.6	99.7	0.32	1.19	4.18
79	-8.26	7.8	101.6	0.32	1.18	4.18
80	-8.32	8.0	104.2	0.32	1.16	4.18
81	-8.38	8.2	106.8	0.32	1.15	4.18
82	-8.44	8.4	109.3	0.32	1.13	4.18
83	-8.50	8.5	111.2	0.32	1.13	4.21
84	-8.50	7.1	100.8	0.27	1.13	3.77
85	-8.58	7.3	102.6	0.27	1.17	3.77
86	-8.65	7.6	104.9	0.27	1.15	3.76
87	-8.73	7.8	107.2	0.27	1.14	3.75
88	-8.80	8.1	109.5	0.28	1.13	3.74
89	-8.88	8.3	111.2	0.28	1.12	3.73
90	-8.88	8.4	111.9	0.28	1.12	3.73
91	-8.90	8.4	112.5	0.28	1.11	3.73
92	-8.93	8.5	113.2	0.28	1.11	3.73
93	-8.95	8.6	113.9	0.28	1.11	3.73
94	-8.98	8.7	114.7	0.28	1.10	3.72
95	-9.00	8.7	115.2	0.28	1.10	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	8.8	116.0	0.28	1.10	3.72
97	-9.08	9.0	117.7	0.28	1.09	3.71
98	-9.15	9.2	120.0	0.29	1.08	3.71
99	-9.23	9.5	122.3	0.29	1.07	3.70
100	-9.30	9.8	124.6	0.29	1.06	3.70
101	-9.38	9.9	126.3	0.29	1.05	3.69
102	-9.38	10.0	126.9	0.29	1.05	3.69
103	-9.38	10.0	127.0	0.29	1.05	3.69
104	-9.38	10.0	127.0	0.29	1.05	3.69
105	-9.39	10.0	127.1	0.29	1.05	3.69
106	-9.39	10.0	127.1	0.29	1.05	3.69
107	-9.39	10.0	127.2	0.29	1.05	3.69
108	-9.39	10.1	127.4	0.29	1.05	3.69
109	-9.41	10.1	127.9	0.29	1.04	3.69
110	-9.43	10.2	128.5	0.29	1.04	3.69
111	-9.46	10.3	129.2	0.29	1.04	3.68
112	-9.48	10.3	129.9	0.29	1.04	3.68
113	-9.50	10.4	130.4	0.29	1.03	3.68
114	-9.50	10.5	131.0	0.29	1.03	3.68
115	-9.56	10.6	132.3	0.29	1.03	3.68
116	-9.62	10.8	134.1	0.30	1.02	3.67
117	-9.67	11.0	135.8	0.30	1.01	3.67
118	-9.73	11.2	137.6	0.30	1.01	3.67
119	-9.79	11.3	138.9	0.30	1.00	3.66
120	-9.79	11.4	139.5	0.30	1.00	3.66
121	-9.81	11.4	139.9	0.30	1.00	3.66
122	-9.83	11.5	140.4	0.30	1.00	3.66
123	-9.84	11.6	141.0	0.30	1.00	3.66
124	-9.86	11.6	141.5	0.30	0.99	3.66
125	-9.88	11.7	141.9	0.30	0.99	3.66
126	-9.88	11.7	142.1	0.30	0.99	3.66
127	-9.88	11.7	142.1	0.30	0.99	3.66
128	-9.88	11.7	142.2	0.30	0.99	3.66
129	-9.89	11.7	142.2	0.30	0.99	3.66
130	-9.89	11.7	142.3	0.30	0.99	3.66
131	-9.89	11.7	142.3	0.30	0.99	3.66
132	-9.89	11.8	143.0	0.30	0.99	3.65
133	-9.97	12.0	144.8	0.30	0.98	3.65
134	-10.05	12.3	147.2	0.30	0.98	3.65
135	-10.13	12.5	149.6	0.30	0.97	3.64
136	-10.21	12.8	152.0	0.31	0.96	3.64
137	-10.29	13.0	153.9	0.31	0.96	3.64
138	-10.29	13.1	154.6	0.31	0.96	3.63
139	-10.31	13.1	155.0	0.31	0.95	3.63
140	-10.33	13.2	155.6	0.31	0.95	3.63
141	-10.34	13.2	156.1	0.31	0.95	3.63
142	-10.36	13.3	156.7	0.31	0.95	3.63
143	-10.38	13.3	157.1	0.31	0.95	3.63
144	-10.38	13.4	157.2	0.31	0.95	3.63
145	-10.38	13.4	157.3	0.31	0.95	3.63
146	-10.38	13.4	157.3	0.31	0.95	3.63
147	-10.39	13.4	157.4	0.31	0.95	3.63
148	-10.39	13.4	157.4	0.31	0.95	3.63
149	-10.39	13.4	157.5	0.31	0.95	3.63
150	-10.39	13.5	158.1	0.31	0.95	3.63
151	-10.47	13.7	160.0	0.31	0.94	3.63
152	-10.55	13.9	162.5	0.31	0.94	3.62
153	-10.64	14.2	165.0	0.31	0.93	3.62
154	-10.72	14.5	167.4	0.31	0.92	3.61
155	-10.80	14.7	169.3	0.31	0.92	3.61
156	-10.80	14.8	170.0	0.31	0.92	3.61
157	-10.81	14.8	170.1	0.31	0.92	3.61
158	-10.81	14.8	170.3	0.31	0.92	3.61
159	-10.82	14.8	170.5	0.31	0.92	3.61

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	14.8	170.7	0.31	0.92	3.61
161	-10.83	14.9	170.8	0.31	0.92	3.61
162	-10.83	14.9	171.5	0.31	0.92	3.61
163	-10.92	15.2	173.6	0.32	0.91	3.61
164	-11.01	15.5	176.4	0.32	0.90	3.60
165	-11.11	15.8	179.2	0.32	0.90	3.60
166	-11.20	16.1	182.0	0.32	0.89	3.60
167	-11.29	16.3	184.1	0.32	0.89	3.59
168	-11.29	16.4	184.9	0.32	0.89	3.59
169	-11.31	16.5	185.3	0.32	0.89	3.59
170	-11.33	16.5	185.9	0.32	0.88	3.59
171	-11.34	16.6	186.4	0.32	0.88	3.59
172	-11.36	16.7	187.0	0.32	0.88	3.59
173	-11.38	16.7	187.4	0.32	0.88	3.59
174	-11.38	16.7	187.5	0.32	0.88	3.59
175	-11.38	16.7	187.6	0.32	0.88	3.59
176	-11.38	16.7	187.6	0.32	0.88	3.59
177	-11.39	16.7	187.7	0.32	0.88	3.59
178	-11.39	16.7	187.7	0.32	0.88	3.59
179	-11.39	16.7	187.8	0.32	0.88	3.59
180	-11.39	16.8	188.0	0.32	0.88	3.59
181	-11.41	16.8	188.5	0.32	0.88	3.59
182	-11.43	16.9	189.1	0.32	0.88	3.59
183	-11.46	17.0	189.8	0.32	0.88	3.59
184	-11.48	17.0	190.5	0.32	0.88	3.59
185	-11.50	17.1	191.0	0.32	0.87	3.59
186	-11.50	17.2	191.7	0.32	0.87	3.59
187	-11.58	17.4	193.5	0.32	0.87	3.58
188	-11.66	17.6	195.9	0.32	0.87	3.58
189	-11.73	17.9	198.2	0.32	0.86	3.58
190	-11.81	18.2	200.6	0.32	0.86	3.58
191	-11.89	18.4	202.4	0.32	0.85	3.58
192	-11.89	18.5	203.6	0.32	0.85	3.57
193	-11.97	18.7	205.4	0.33	0.85	3.57
194	-12.05	19.0	207.8	0.33	0.85	3.57
195	-12.13	19.2	210.2	0.33	0.84	3.57
196	-12.21	19.5	212.6	0.33	0.84	3.57
197	-12.29	19.7	214.5	0.33	0.84	3.57
198	-12.29	19.8	215.2	0.33	0.84	3.56
199	-12.31	19.8	215.6	0.33	0.83	3.56
200	-12.33	19.9	216.2	0.33	0.83	3.56
201	-12.34	19.9	216.7	0.33	0.83	3.56
202	-12.36	20.0	217.3	0.33	0.83	3.56
203	-12.38	20.0	217.7	0.33	0.83	3.56
204	-12.38	20.1	217.8	0.33	0.83	3.56
205	-12.38	20.1	217.9	0.33	0.83	3.56
206	-12.38	20.1	217.9	0.33	0.83	3.56
207	-12.39	20.1	218.0	0.33	0.83	3.56
208	-12.39	20.1	218.0	0.33	0.83	3.56
209	-12.39	20.1	218.1	0.33	0.83	3.56
210	-12.39	20.1	218.3	0.33	0.83	3.56
211	-12.41	20.2	218.8	0.33	0.83	3.56
212	-12.43	20.2	219.4	0.33	0.83	3.56
213	-12.46	20.3	220.1	0.33	0.83	3.56
214	-12.48	20.4	220.8	0.33	0.83	3.56
215	-12.50	20.4	221.3	0.33	0.83	3.56
216	-12.50	20.5	221.9	0.33	0.83	3.56
217	-12.56	20.7	223.2	0.33	0.82	3.56
218	-12.62	20.9	224.9	0.33	0.82	3.56
219	-12.67	21.0	226.7	0.33	0.82	3.56
220	-12.73	21.2	228.5	0.33	0.82	3.55
221	-12.79	21.4	229.8	0.33	0.81	3.55
222	-12.79	21.5	230.5	0.33	0.81	3.55
223	-12.83	21.6	231.5	0.33	0.81	3.55

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	21.7	232.8	0.33	0.81	3.55
225	-12.92	21.9	234.0	0.33	0.81	3.55
226	-12.96	22.0	235.3	0.33	0.81	3.55
227	-13.00	22.1	236.3	0.33	0.81	3.54
228	-13.00	21.8	284.4	0.33	0.81	4.25
229	-13.04	21.9	285.7	0.33	0.75	4.25
230	-13.08	22.1	287.4	0.33	0.75	4.25
231	-13.12	22.2	289.1	0.33	0.75	4.25
232	-13.16	22.3	290.8	0.33	0.75	4.25
233	-13.20	22.4	292.0	0.33	0.74	4.25
234	-13.20	22.5	292.7	0.33	0.74	4.25
235	-13.23	22.6	293.5	0.33	0.74	4.25
236	-13.25	22.6	294.6	0.33	0.74	4.25
237	-13.28	22.7	295.7	0.33	0.74	4.25
238	-13.30	22.8	296.8	0.33	0.74	4.25
239	-13.33	22.9	297.6	0.33	0.74	4.25
240	-13.33	23.0	299.5	0.33	0.74	4.25
241	-13.48	23.4	304.1	0.33	0.73	4.24
242	-13.62	23.9	310.3	0.33	0.73	4.24
243	-13.77	24.4	316.5	0.33	0.72	4.24
244	-13.91	24.9	322.7	0.33	0.72	4.24
245	-14.06	25.2	327.4	0.33	0.71	4.24
246	-14.06	25.5	330.5	0.33	0.71	4.24
247	-14.21	25.8	335.2	0.33	0.71	4.24
248	-14.35	26.3	341.4	0.33	0.71	4.24
249	-14.50	26.8	347.7	0.33	0.70	4.24
250	-14.64	27.3	353.9	0.33	0.70	4.24
251	-14.79	27.7	358.6	0.33	0.69	4.24
252	-14.79	27.8	360.4	0.33	0.69	4.24
253	-14.81	27.9	360.9	0.33	0.69	4.24
254	-14.83	27.9	361.7	0.33	0.69	4.24
255	-14.84	28.0	362.5	0.33	0.69	4.24
256	-14.86	28.0	363.3	0.33	0.69	4.23
257	-14.88	28.1	363.8	0.33	0.69	4.23
258	-14.88	28.1	364.3	0.33	0.69	4.23
259	-14.90	28.2	365.1	0.33	0.69	4.23
260	-14.93	28.3	366.1	0.33	0.69	4.23
261	-14.95	28.3	367.1	0.33	0.69	4.23
262	-14.98	28.4	368.2	0.33	0.69	4.23
263	-15.00	28.5	368.9	0.33	0.69	4.23
264	-15.00	28.6	370.0	0.33	0.69	4.23
265	-15.08	28.8	372.5	0.33	0.69	4.23
266	-15.16	29.0	375.9	0.33	0.68	4.23
267	-15.23	29.3	379.2	0.33	0.68	4.23
268	-15.31	29.5	382.6	0.33	0.68	4.23
269	-15.39	29.7	385.1	0.33	0.68	4.23
270	-15.39	29.8	386.2	0.33	0.68	4.23
271	-15.41	29.9	386.9	0.33	0.68	4.23
272	-15.43	30.0	387.8	0.33	0.68	4.23
273	-15.46	30.0	388.8	0.33	0.68	4.23
274	-15.48	30.1	389.7	0.33	0.68	4.23
275	-15.50	30.2	390.4	0.33	0.68	4.23
276	-15.50	30.2	391.3	0.33	0.68	4.23
277	-15.56	30.4	393.2	0.33	0.68	4.23
278	-15.62	30.6	395.7	0.33	0.67	4.23
279	-15.67	30.8	398.2	0.33	0.67	4.23
280	-15.73	31.0	400.7	0.33	0.67	4.23
281	-15.79	31.1	402.5	0.33	0.67	4.23
282	-15.79	31.2	403.3	0.33	0.67	4.23
283	-15.80	31.2	403.5	0.33	0.67	4.23
284	-15.81	31.2	403.9	0.33	0.67	4.23
285	-15.81	31.2	404.2	0.33	0.67	4.23
286	-15.82	31.3	404.5	0.33	0.67	4.23
287	-15.83	31.3	404.8	0.33	0.67	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	31.3	405.0	0.33	0.67	4.23
289	-15.84	31.3	405.4	0.33	0.67	4.23
290	-15.85	31.4	405.9	0.33	0.67	4.23
291	-15.87	31.4	406.4	0.33	0.67	4.23
292	-15.88	31.4	407.0	0.33	0.67	4.23
293	-15.89	31.5	407.3	0.33	0.67	4.23
294	-15.89	31.5	407.7	0.33	0.67	4.23
295	-15.91	31.6	408.4	0.33	0.67	4.23
296	-15.93	31.6	409.4	0.33	0.67	4.23
297	-15.96	31.7	410.3	0.33	0.67	4.23
298	-15.98	31.8	411.3	0.33	0.67	4.23
299	-16.00	31.8	412.0	0.33	0.67	4.24
300	-16.00	37.1	282.8	0.38	0.67	2.90
301	-16.06	37.2	283.6	0.38	0.78	2.90
302	-16.12	37.4	284.7	0.38	0.78	2.90
303	-16.17	37.6	285.8	0.38	0.78	2.90
304	-16.23	37.8	286.9	0.38	0.78	2.90
305	-16.29	37.9	287.7	0.38	0.78	2.90
306	-16.29	38.0	288.0	0.38	0.78	2.90
307	-16.30	38.0	288.2	0.38	0.78	2.90
308	-16.31	38.0	288.3	0.38	0.78	2.90
309	-16.31	38.1	288.5	0.38	0.78	2.90
310	-16.32	38.1	288.6	0.38	0.78	2.90
311	-16.33	38.1	288.7	0.38	0.78	2.90
312	-16.33	38.1	288.8	0.38	0.78	2.90
313	-16.34	38.1	289.0	0.38	0.78	2.90
314	-16.35	38.2	289.2	0.38	0.78	2.90
315	-16.37	38.2	289.4	0.38	0.78	2.90
316	-16.38	38.3	289.7	0.38	0.78	2.90
317	-16.39	38.3	289.8	0.38	0.78	2.90
318	-16.39	38.3	290.0	0.38	0.78	2.90
319	-16.41	38.4	290.3	0.38	0.78	2.90
320	-16.43	38.4	290.7	0.38	0.78	2.89
321	-16.46	38.5	291.2	0.38	0.78	2.89
322	-16.48	38.6	291.6	0.38	0.78	2.89
323	-16.50	38.6	291.9	0.38	0.78	2.89

14.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	1.53
5 Veen	16.25
3 Klei/zand (NZ)	97.37
4 Zand (NZ)	81.17
5 Klei (NZ)	334.53
6 zandlaag 1 (NZ)	118.79
7 klei (NZ)	38.41
8 zandlaag 2 (NZ)	0.00

14.4 Invoergegevens Rechts

14.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

14.4.2 Waterniveau

Freatisch niveau: -0.10 [m]

14.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

14.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-35% wo

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	0.00	13.50	13.50	2.40	15.46	7.73
2 IJ-klei (NZ)	-0.40	13.50	13.50	2.40	15.46	7.73
5 Veen	-3.20	11.00	11.00	1.20	12.85	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-7.60	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-8.50	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	26.17	17.45
7 klei (NZ)	-16.00	17.00	17.00	4.00	19.42	12.95
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	28.47	19.01

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	15.75	15.75
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

14.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	0.00	4500.00	4500.00	2250.00	2250.00
2 IJ-klei (NZ)	-0.40	4500.00	4500.00	2250.00	2250.00
5 Veen	-3.20	2700.00	2700.00	1350.00	1350.00
3 Klei/zand (NZ)	-5.60	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-7.60	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.00	31500.00	31500.00	15750.00	15750.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-16.50	40500.00	40500.00	20250.00	20250.00

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	3375.00	3375.00
2 IJ-klei (NZ)	0.00	1125.00	1125.00
2 IJ-klei (NZ)	-0.40	1125.00	1125.00
5 Veen	-3.20	675.00	675.00
3 Klei/zand (NZ)	-5.60	2812.50	2812.50
4 Zand (NZ)	-7.60	4500.00	4500.00
5 Klei (NZ)	-8.50	2250.00	2250.00
6 zandlaag 1 (...	-13.00	7875.00	7875.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-16.50	10125.00	10125.00

14.4.6 Bovenbelastingen

Naam	Afstand [m]	Belasting [kN/m²]
Verkeer 2 - 20 kN/m²	6.30	22.00
	9.30	22.00
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00

14.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	20.5	99.8	0.44	1.09	2.15
2	-3.08	20.6	100.1	0.44	1.18	2.15
3	-3.12	20.7	100.4	0.44	1.07	2.15
4	-3.16	20.7	100.7	0.44	1.01	2.15
5	-3.20	20.8	100.9	0.44	0.98	2.15
6	-3.20	17.2	51.2	0.40	0.98	1.19
7	-3.28	17.2	51.2	0.55	1.41	1.63
8	-3.36	17.3	51.2	0.55	1.38	1.62
9	-3.44	17.3	51.2	0.55	1.35	1.62
10	-3.52	17.4	51.3	0.55	1.32	1.61
11	-3.60	17.4	51.3	0.55	1.29	1.61
12	-3.60	17.5	51.4	0.55	1.29	1.61
13	-3.72	17.6	51.5	0.55	1.24	1.60
14	-3.85	17.7	51.7	0.55	1.20	1.60
15	-3.97	17.7	51.8	0.55	1.17	1.59
16	-4.09	17.8	52.0	0.55	1.13	1.59
17	-4.21	17.9	52.2	0.55	1.09	1.59
18	-4.21	18.0	52.3	0.54	1.09	1.59
19	-4.34	18.0	52.4	0.54	1.06	1.58
20	-4.46	18.1	52.6	0.54	1.03	1.58
21	-4.58	18.2	52.9	0.54	1.00	1.58
22	-4.71	94.6	53.1	2.81	2.81	2.81
23	-4.83	85.3	53.2	2.53	2.53	2.53
24	-4.83	82.7	53.3	2.45	2.45	2.45
25	-4.86	81.1	53.4	2.40	2.40	2.40
26	-4.90	79.0	53.4	2.33	2.33	2.33
27	-4.93	77.1	53.5	2.27	2.27	2.27
28	-4.97	75.3	53.5	2.22	2.22	2.22
29	-5.00	74.3	53.6	2.18	2.18	2.18
30	-5.00	72.6	53.6	2.13	2.13	2.13
31	-5.07	70.5	53.7	2.07	2.07	2.07

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	67.5	53.8	1.98	1.98	1.98
33	-5.20	64.9	54.0	1.89	1.89	1.89
34	-5.26	57.8	54.1	1.68	1.68	1.68
35	-5.33	51.7	54.2	1.50	1.50	1.58
36	-5.33	50.9	54.2	1.48	1.48	1.58
37	-5.38	50.0	54.3	1.45	1.45	1.58
38	-5.44	48.7	54.4	1.41	1.41	1.57
39	-5.49	47.5	54.5	1.37	1.37	1.57
40	-5.55	46.4	54.6	1.34	1.34	1.58
41	-5.60	45.5	54.7	1.30	1.30	1.57
42	-5.60	36.6	235.5	0.94	0.94	6.03
43	-5.65	36.4	222.1	0.71	0.71	4.35
44	-5.69	36.0	226.5	0.70	0.70	4.41
45	-5.74	35.7	235.5	0.69	0.69	4.56
46	-5.78	35.4	245.2	0.68	0.68	4.72
47	-5.83	35.1	253.0	0.67	0.67	4.85
48	-5.83	34.9	262.8	0.66	0.66	5.01
49	-5.95	34.3	286.4	0.65	0.65	5.40
50	-6.06	33.5	323.5	0.62	0.62	6.01
51	-6.18	32.8	369.2	0.60	0.60	6.76
52	-6.30	32.1	425.8	0.58	0.58	7.69
53	-6.42	29.1	477.5	0.52	0.53	8.54
54	-6.42	23.1	517.4	0.41	0.53	9.19
55	-6.53	22.7	588.9	0.40	0.53	10.36
56	-6.65	23.0	709.5	0.40	0.52	12.31
57	-6.77	23.6	871.6	0.40	0.52	14.93
58	-6.88	22.4	646.7	0.38	0.51	10.94
59	-7.00	23.3	199.0	0.39	0.51	3.33
60	-7.00	23.4	201.2	0.39	0.51	3.35
61	-7.12	23.6	207.9	0.39	0.51	3.43
62	-7.24	23.8	211.2	0.39	0.50	3.44
63	-7.36	24.0	204.4	0.39	0.50	3.29
64	-7.48	24.2	207.3	0.38	0.50	3.29
65	-7.60	24.4	209.5	0.38	0.49	3.28
66	-7.60	24.9	241.3	0.39	0.49	3.76
67	-7.65	25.0	242.8	0.39	0.48	3.76
68	-7.69	25.1	244.7	0.39	0.48	3.76
69	-7.74	25.3	246.7	0.39	0.48	3.77
70	-7.78	25.4	248.6	0.38	0.48	3.77
71	-7.83	25.4	250.1	0.38	0.47	3.77
72	-7.83	25.5	251.4	0.38	0.47	3.77
73	-7.90	25.7	253.7	0.38	0.47	3.78
74	-7.98	25.8	256.9	0.38	0.47	3.79
75	-8.05	26.0	260.1	0.38	0.47	3.79
76	-8.13	26.2	263.2	0.38	0.47	3.80
77	-8.20	26.3	266.3	0.38	0.47	3.81
78	-8.20	26.4	273.4	0.38	0.47	3.89
79	-8.26	26.5	283.2	0.38	0.47	4.01
80	-8.32	26.7	296.7	0.37	0.47	4.16
81	-8.38	26.8	310.5	0.37	0.47	4.32
82	-8.44	26.9	323.0	0.37	0.47	4.46
83	-8.50	27.1	325.3	0.37	0.47	4.47
84	-8.50	28.0	272.2	0.38	0.47	3.73
85	-8.58	28.1	273.9	0.38	0.49	3.73
86	-8.65	28.3	276.2	0.38	0.48	3.73
87	-8.73	28.4	278.5	0.38	0.48	3.72
88	-8.80	28.6	280.7	0.38	0.48	3.72
89	-8.88	28.7	282.3	0.38	0.48	3.72
90	-8.88	28.8	283.6	0.38	0.48	3.73
91	-8.90	28.8	283.7	0.38	0.48	3.72
92	-8.93	28.8	284.4	0.38	0.48	3.72
93	-8.95	28.9	285.2	0.38	0.48	3.72
94	-8.98	28.9	285.9	0.38	0.48	3.72
95	-9.00	29.0	286.4	0.38	0.48	3.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	29.0	287.2	0.38	0.48	3.72
97	-9.08	29.1	288.9	0.37	0.48	3.72
98	-9.15	29.3	291.1	0.37	0.48	3.71
99	-9.23	29.4	293.4	0.37	0.48	3.71
100	-9.30	29.6	295.7	0.37	0.48	3.71
101	-9.38	29.7	291.6	0.37	0.48	3.64
102	-9.38	29.5	293.1	0.37	0.48	3.65
103	-9.38	29.7	293.2	0.37	0.48	3.65
104	-9.38	29.9	293.2	0.37	0.48	3.65
105	-9.39	29.8	293.3	0.37	0.48	3.65
106	-9.39	29.7	293.3	0.37	0.48	3.65
107	-9.39	29.8	293.4	0.37	0.48	3.65
108	-9.39	29.8	293.6	0.37	0.48	3.65
109	-9.41	29.8	294.1	0.37	0.48	3.65
110	-9.43	29.9	290.6	0.37	0.48	3.60
111	-9.46	29.9	254.7	0.37	0.48	3.14
112	-9.48	29.9	255.4	0.37	0.48	3.15
113	-9.50	30.0	255.9	0.37	0.48	3.15
114	-9.50	30.0	256.5	0.37	0.48	3.15
115	-9.56	30.1	257.8	0.37	0.48	3.15
116	-9.62	30.2	259.5	0.37	0.48	3.15
117	-9.67	30.3	261.3	0.37	0.48	3.15
118	-9.73	30.4	263.0	0.36	0.48	3.15
119	-9.79	30.5	264.3	0.36	0.48	3.16
120	-9.79	30.5	264.9	0.36	0.48	3.16
121	-9.81	30.6	265.3	0.36	0.48	3.16
122	-9.83	30.6	265.8	0.36	0.48	3.16
123	-9.84	30.6	266.4	0.36	0.48	3.16
124	-9.86	30.7	266.9	0.36	0.48	3.16
125	-9.88	30.7	267.3	0.36	0.48	3.16
126	-9.88	31.1	267.5	0.37	0.48	3.16
127	-9.88	30.6	267.5	0.36	0.48	3.16
128	-9.88	30.6	267.6	0.36	0.48	3.16
129	-9.89	30.6	267.6	0.36	0.48	3.16
130	-9.89	30.7	267.7	0.36	0.48	3.16
131	-9.89	31.2	267.7	0.37	0.48	3.16
132	-9.89	30.8	268.4	0.36	0.48	3.16
133	-9.97	30.9	270.2	0.36	0.48	3.16
134	-10.05	31.0	271.9	0.36	0.48	3.16
135	-10.13	31.2	289.2	0.36	0.48	3.33
136	-10.21	31.3	297.7	0.36	0.48	3.40
137	-10.29	31.4	299.2	0.36	0.48	3.40
138	-10.29	31.4	299.9	0.36	0.48	3.40
139	-10.31	31.5	300.4	0.36	0.48	3.40
140	-10.33	31.5	300.9	0.36	0.48	3.40
141	-10.34	31.6	301.4	0.36	0.48	3.40
142	-10.36	31.6	302.0	0.36	0.48	3.40
143	-10.38	31.6	302.4	0.36	0.48	3.40
144	-10.38	31.4	302.6	0.35	0.48	3.40
145	-10.38	31.7	302.6	0.36	0.48	3.40
146	-10.38	31.5	302.7	0.35	0.48	3.40
147	-10.39	31.7	302.7	0.36	0.48	3.40
148	-10.39	31.7	302.8	0.36	0.48	3.40
149	-10.39	31.5	302.8	0.35	0.48	3.40
150	-10.39	31.7	303.5	0.36	0.48	3.40
151	-10.47	31.8	305.3	0.35	0.48	3.40
152	-10.55	31.9	307.8	0.35	0.48	3.40
153	-10.64	32.1	310.3	0.35	0.48	3.40
154	-10.72	32.2	312.8	0.35	0.48	3.41
155	-10.80	32.3	314.6	0.35	0.48	3.41
156	-10.80	45.6	315.3	0.49	0.49	3.41
157	-10.81	25.7	315.4	0.28	0.48	3.41
158	-10.81	32.3	315.6	0.35	0.48	3.41
159	-10.82	43.7	315.8	0.47	0.48	3.41

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	20.6	316.0	0.22	0.48	3.41
161	-10.83	33.9	316.1	0.37	0.48	3.41
162	-10.83	33.8	316.9	0.36	0.48	3.41
163	-10.92	34.0	319.0	0.36	0.48	3.41
164	-11.01	34.3	317.0	0.36	0.48	3.36
165	-11.11	36.2	306.0	0.38	0.48	3.22
166	-11.20	37.3	308.8	0.39	0.48	3.22
167	-11.29	37.5	300.8	0.39	0.48	3.12
168	-11.29	37.5	298.0	0.39	0.48	3.08
169	-11.31	37.5	298.4	0.39	0.48	3.08
170	-11.33	37.6	298.9	0.39	0.48	3.08
171	-11.34	37.6	299.5	0.39	0.48	3.08
172	-11.36	37.6	300.0	0.39	0.48	3.08
173	-11.38	37.6	300.4	0.39	0.48	3.08
174	-11.38	38.0	300.5	0.39	0.48	3.08
175	-11.38	37.6	300.6	0.38	0.48	3.08
176	-11.38	37.6	300.6	0.39	0.48	3.08
177	-11.39	37.7	300.7	0.39	0.48	3.08
178	-11.39	37.7	300.8	0.39	0.48	3.08
179	-11.39	37.6	300.8	0.39	0.48	3.08
180	-11.39	37.7	301.0	0.39	0.48	3.08
181	-11.41	37.7	301.5	0.39	0.48	3.08
182	-11.43	37.7	302.1	0.39	0.48	3.08
183	-11.46	37.8	302.8	0.38	0.48	3.08
184	-11.48	37.8	303.4	0.38	0.48	3.08
185	-11.50	37.8	303.9	0.38	0.48	3.08
186	-11.50	37.9	304.7	0.38	0.48	3.09
187	-11.58	38.0	306.4	0.38	0.48	3.09
188	-11.66	38.1	308.7	0.38	0.48	3.09
189	-11.73	38.2	311.1	0.38	0.48	3.09
190	-11.81	38.3	313.4	0.38	0.48	3.10
191	-11.89	38.4	315.1	0.38	0.48	3.10
192	-11.89	38.5	316.3	0.38	0.48	3.10
193	-11.97	38.5	318.1	0.38	0.48	3.10
194	-12.05	38.7	320.5	0.37	0.48	3.10
195	-12.13	38.8	322.5	0.37	0.48	3.10
196	-12.21	38.9	332.3	0.37	0.48	3.17
197	-12.29	39.0	343.5	0.37	0.48	3.27
198	-12.29	39.1	345.8	0.37	0.48	3.28
199	-12.31	39.0	346.2	0.37	0.48	3.28
200	-12.33	39.0	346.7	0.37	0.48	3.28
201	-12.34	39.1	347.3	0.37	0.48	3.28
202	-12.36	39.1	347.8	0.37	0.48	3.28
203	-12.38	39.1	348.2	0.37	0.48	3.28
204	-12.38	39.5	348.4	0.37	0.48	3.28
205	-12.38	39.1	348.4	0.37	0.48	3.28
206	-12.38	38.9	348.5	0.37	0.48	3.28
207	-12.39	39.4	348.6	0.37	0.48	3.28
208	-12.39	38.9	348.6	0.37	0.48	3.28
209	-12.39	39.4	348.7	0.37	0.48	3.28
210	-12.39	39.2	348.8	0.37	0.48	3.28
211	-12.41	39.2	349.3	0.37	0.48	3.28
212	-12.43	39.2	350.0	0.37	0.48	3.28
213	-12.46	39.2	350.7	0.37	0.48	3.28
214	-12.48	39.2	351.3	0.37	0.48	3.28
215	-12.50	39.3	351.8	0.37	0.48	3.28
216	-12.50	39.3	352.4	0.37	0.48	3.28
217	-12.56	39.4	353.7	0.37	0.48	3.29
218	-12.62	39.4	355.5	0.36	0.48	3.29
219	-12.67	39.5	357.3	0.36	0.48	3.29
220	-12.73	39.6	359.0	0.36	0.48	3.29
221	-12.79	39.7	360.3	0.36	0.48	3.29
222	-12.79	39.7	361.1	0.36	0.48	3.29
223	-12.83	39.7	362.0	0.36	0.48	3.29

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	39.8	363.3	0.36	0.48	3.29
225	-12.92	39.8	364.6	0.36	0.48	3.29
226	-12.96	39.9	365.8	0.36	0.48	3.29
227	-13.00	39.9	366.8	0.36	0.48	3.29
228	-13.00	37.6	452.1	0.34	0.48	4.05
229	-13.04	37.7	453.4	0.34	0.45	4.05
230	-13.08	37.7	455.1	0.34	0.45	4.05
231	-13.12	37.8	456.8	0.33	0.45	4.05
232	-13.16	37.9	458.5	0.33	0.45	4.05
233	-13.20	37.9	459.8	0.33	0.45	4.05
234	-13.20	37.9	460.5	0.33	0.45	4.05
235	-13.23	38.0	461.4	0.33	0.45	4.05
236	-13.25	38.0	462.5	0.33	0.45	4.05
237	-13.28	38.0	463.6	0.33	0.45	4.05
238	-13.30	41.0	464.7	0.36	0.45	4.05
239	-13.33	32.0	465.5	0.28	0.45	4.05
240	-13.33	38.6	467.4	0.33	0.45	4.05
241	-13.48	38.5	472.1	0.33	0.45	4.06
242	-13.62	38.9	478.3	0.33	0.45	4.06
243	-13.77	39.4	484.6	0.33	0.45	4.06
244	-13.91	39.9	490.8	0.33	0.45	4.07
245	-14.06	40.3	495.5	0.33	0.45	4.07
246	-14.06	40.5	498.7	0.33	0.45	4.07
247	-14.21	40.9	503.4	0.33	0.45	4.07
248	-14.35	41.0	509.6	0.33	0.45	4.08
249	-14.50	41.6	515.9	0.33	0.45	4.08
250	-14.64	42.0	516.7	0.33	0.45	4.04
251	-14.79	42.3	521.1	0.33	0.45	4.04
252	-14.79	42.3	522.9	0.33	0.45	4.04
253	-14.81	42.3	523.5	0.33	0.45	4.04
254	-14.83	42.3	524.2	0.33	0.45	4.04
255	-14.84	42.2	525.0	0.33	0.45	4.04
256	-14.86	42.2	525.8	0.32	0.45	4.04
257	-14.88	42.2	526.4	0.32	0.45	4.04
258	-14.88	42.2	526.8	0.32	0.45	4.04
259	-14.90	42.2	527.6	0.32	0.45	4.04
260	-14.93	42.2	528.6	0.32	0.45	4.04
261	-14.95	42.1	529.7	0.32	0.45	4.04
262	-14.98	42.1	530.7	0.32	0.45	4.04
263	-15.00	42.1	531.5	0.32	0.45	4.04
264	-15.00	42.1	532.6	0.32	0.45	4.05
265	-15.08	42.0	535.1	0.32	0.45	4.05
266	-15.16	42.0	538.5	0.32	0.46	4.05
267	-15.23	41.9	541.8	0.31	0.46	4.05
268	-15.31	41.8	545.2	0.31	0.46	4.05
269	-15.39	41.8	547.7	0.31	0.46	4.05
270	-15.39	41.8	548.8	0.31	0.46	4.05
271	-15.41	41.8	549.5	0.31	0.46	4.05
272	-15.43	41.7	550.5	0.31	0.46	4.05
273	-15.46	41.7	551.4	0.31	0.46	4.05
274	-15.48	41.7	552.4	0.31	0.46	4.06
275	-15.50	41.7	551.8	0.31	0.46	4.05
276	-15.50	41.7	566.8	0.31	0.46	4.15
277	-15.56	41.6	575.4	0.30	0.46	4.20
278	-15.62	41.6	577.5	0.30	0.46	4.20
279	-15.67	41.5	579.9	0.30	0.46	4.20
280	-15.73	41.5	582.4	0.30	0.46	4.20
281	-15.79	41.5	584.3	0.30	0.46	4.20
282	-15.79	41.5	585.0	0.30	0.46	4.20
283	-15.80	41.5	585.3	0.30	0.46	4.20
284	-15.81	41.5	585.6	0.30	0.46	4.20
285	-15.81	41.5	585.9	0.30	0.46	4.20
286	-15.82	41.5	586.3	0.30	0.46	4.20
287	-15.83	41.4	586.5	0.30	0.46	4.20

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	41.4	586.8	0.30	0.46	4.20
289	-15.84	41.4	587.1	0.30	0.46	4.20
290	-15.85	41.4	587.7	0.30	0.46	4.20
291	-15.87	41.4	588.2	0.30	0.46	4.20
292	-15.88	41.4	588.7	0.30	0.46	4.20
293	-15.89	41.1	589.1	0.29	0.46	4.20
294	-15.89	41.6	589.4	0.30	0.46	4.20
295	-15.91	41.4	590.2	0.29	0.46	4.20
296	-15.93	41.4	591.1	0.29	0.46	4.20
297	-15.96	41.3	592.0	0.29	0.46	4.20
298	-15.98	41.4	593.0	0.29	0.46	4.20
299	-16.00	41.1	593.7	0.29	0.46	4.20
300	-16.00	50.1	396.5	0.35	0.46	2.80
301	-16.06	50.0	397.4	0.35	0.54	2.80
302	-16.12	49.8	398.5	0.35	0.54	2.80
303	-16.17	49.7	399.6	0.35	0.54	2.80
304	-16.23	49.6	400.7	0.35	0.54	2.80
305	-16.29	49.5	401.5	0.35	0.54	2.80
306	-16.29	49.6	401.9	0.35	0.54	2.80
307	-16.30	49.4	402.0	0.34	0.54	2.80
308	-16.31	49.5	402.1	0.34	0.54	2.80
309	-16.31	49.5	402.3	0.34	0.54	2.80
310	-16.32	49.4	402.4	0.34	0.54	2.80
311	-16.33	49.5	402.6	0.34	0.54	2.80
312	-16.33	49.4	402.6	0.34	0.54	2.80
313	-16.34	49.4	402.8	0.34	0.54	2.80
314	-16.35	49.4	403.0	0.34	0.54	2.80
315	-16.37	49.4	403.3	0.34	0.54	2.80
316	-16.38	49.4	403.5	0.34	0.54	2.80
317	-16.39	49.4	403.7	0.34	0.54	2.80
318	-16.39	49.4	403.8	0.34	0.54	2.80
319	-16.41	49.5	404.2	0.34	0.54	2.80
320	-16.43	49.6	404.6	0.34	0.54	2.80
321	-16.46	49.7	405.0	0.34	0.54	2.80
322	-16.48	49.7	405.4	0.34	0.54	2.80
323	-16.50	49.8	405.7	0.34	0.54	2.80

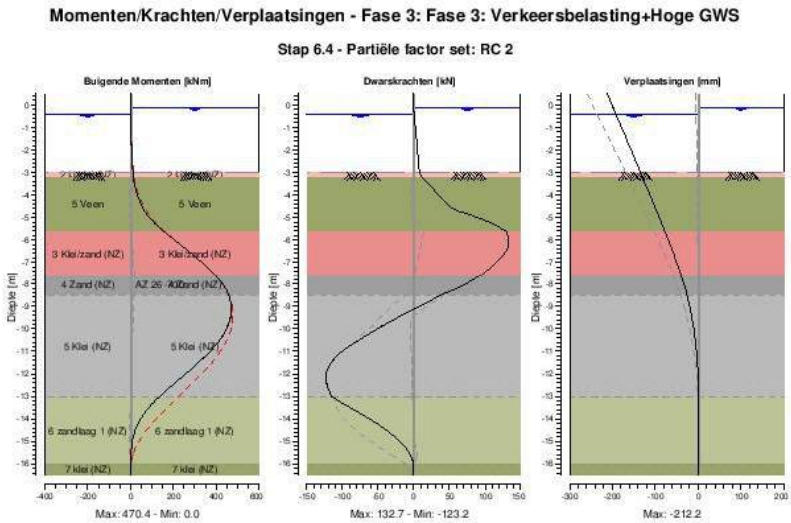
14.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.71
5 Veen	90.16
3 Klei/zand (NZ)	55.37
4 Zand (NZ)	23.20
5 Klei (NZ)	167.80
6 zandlaag 1 (NZ)	224.49
7 klei (NZ)	37.68
8 zandlaag 2 (NZ)	0.00

14.7 Berekeningsresultaten

Aantal iteraties: 5

14.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



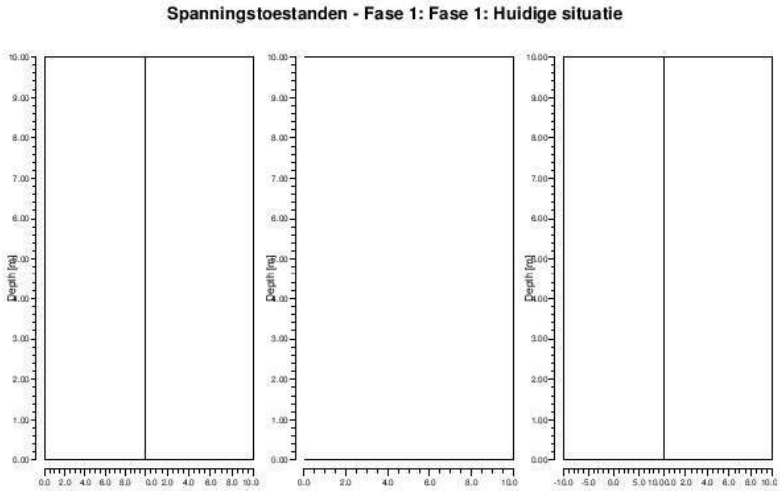
14.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-212.2**
1	0.40	0.00	0.00	-210.0
2	0.40	0.00	0.00	-210.0
2	0.20	0.00	0.00	-205.5
3	0.20	0.00	0.00	-205.5
3	0.17	0.00	0.00	-204.8
4	0.17	0.00	0.00	-204.8
4	0.00	0.00	0.00	-201.1
5	0.00	0.00	0.00	-201.1
5	-0.10	0.00	0.00	-198.8
6	-0.10	0.00	0.00	-198.8
6	-0.20	0.00	0.05	-196.6
7	-0.20	0.00	0.05	-196.6
7	-0.33	0.02	0.26	-193.7
8	-0.33	0.02	0.26	-193.7
8	-0.40	0.04	0.44	-192.2
9	-0.40	0.04	0.44	-192.2
9	-0.60	0.19	1.03	-187.7
10	-0.60	0.19	1.03	-187.7
10	-1.33	1.73	3.18	-171.5
11	-1.33	1.73	3.18	-171.5
11	-1.50	2.31	3.68	-167.7
12	-1.50	2.31	3.68	-167.7
12	-1.60	2.69	3.97	-165.5
13	-1.60	2.69	3.97	-165.5
13	-1.83	3.68	4.65	-160.4
14	-1.83	3.68	4.65	-160.4
14	-2.00	4.52	5.15	-156.6
15	-2.00	4.52	5.15	-156.6
15	-2.15	5.32	5.59	-153.2
16	-2.15	5.32	5.59	-153.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	5.61	5.74	-152.1
17	-2.20	5.61	5.74	-152.1
17	-2.33	6.38	6.12	-149.2
18	-2.33	6.38	6.12	-149.2
18	-2.60	8.14	6.92	-143.3
19	-2.60	8.14	6.92	-143.3
19	-3.00	11.14	8.09	-134.4
20	-3.00	11.14	8.09	-134.4
20	-3.20	13.02	10.86	-129.9
21	-3.20	13.02	10.86	-129.9
21	-3.60	19.77	23.05	-121.1
22	-3.60	19.77	23.05	-121.1
22	-4.21	39.74	41.85	-107.5
23	-4.21	39.74	41.85	-107.5
23	-4.83	72.49	73.82	-94.1
24	-4.83	72.49	73.82	-94.1
24	-5.00	86.36	89.02	-90.4
25	-5.00	86.36	89.02	-90.4
25	-5.33	120.03	113.89	-83.4
26	-5.33	120.03	113.89	-83.4
26	-5.60	152.94	129.64	-77.7
27	-5.60	152.94	129.64	-77.7
27	-5.83	183.05	**131.88**	-72.9
28	-5.83	183.05	131.87	-72.9
28	-6.42	260.41	130.94	-61.0
29	-6.42	260.41	130.94	-61.0
29	-7.00	333.10	116.32	-49.9
30	-7.00	333.10	116.32	-49.9
30	-7.60	396.41	93.52	-39.4
31	-7.60	396.41	93.50	-39.4
31	-7.83	416.68	82.44	-35.7
32	-7.83	416.69	82.42	-35.7
32	-8.20	443.23	60.22	-30.1
33	-8.20	443.23	60.21	-30.1
33	-8.50	458.08	38.16	-25.9
34	-8.50	458.08	38.16	-25.9
34	-8.88	468.37	15.82	-21.1
35	-8.88	468.37	15.82	-21.1
35	-9.00	**469.83**	8.49	-19.7
36	-9.00	**469.83**	8.49	-19.7
36	-9.38	468.53	-15.25	-15.5
37	-9.38	468.53	-15.25	-15.5
37	-9.39	468.38	-15.86	-15.4
38	-9.39	468.38	-15.86	-15.4
38	-9.50	466.27	-22.46	-14.3
39	-9.50	466.27	-22.46	-14.3
39	-9.79	457.31	-39.11	-11.7
40	-9.79	457.31	-39.11	-11.7
40	-9.88	453.57	-44.09	-10.9
41	-9.88	453.57	-44.09	-10.9
41	-9.89	453.13	-44.64	-10.8
42	-9.89	453.13	-44.63	-10.8
42	-10.29	430.99	-65.84	-7.8
43	-10.29	430.99	-65.83	-7.8
43	-10.38	424.85	-70.45	-7.2
44	-10.38	424.85	-70.45	-7.2
44	-10.39	424.15	-70.96	-7.1
45	-10.39	424.15	-70.98	-7.1
45	-10.80	390.81	-91.50	-4.7
46	-10.80	390.81	-91.50	-4.7
46	-10.83	388.05	-92.98	-4.6
47	-10.83	388.05	-92.97	-4.6
47	-11.29	340.95	-110.20	-2.6
48	-11.29	340.95	-110.19	-2.6
48	-11.38	330.92	-112.58	-2.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	330.92	-112.58	-2.2
49	-11.39	329.79	-112.83	-2.2
50	-11.39	329.79	-112.83	-2.2
50	-11.50	317.24	-115.41	-1.8
51	-11.50	317.24	-115.42	-1.8
51	-11.89	270.80	-121.96	-0.8
52	-11.89	270.80	-121.96	-0.8
52	-12.29	221.63	-122.99	0.0
53	-12.29	221.63	-122.98	0.0
53	-12.38	210.58	-122.55	0.1
54	-12.38	210.58	-122.55	0.1
54	-12.39	209.35	-122.49	0.1
55	-12.39	209.35	-122.49	0.1
55	-12.50	195.92	-121.67	0.3
56	-12.50	195.92	-121.67	0.3
56	-12.79	161.08	-118.42	0.6
57	-12.79	161.08	-118.41	0.6
57	-13.00	136.52	-115.33	0.7
58	-13.00	136.52	-115.33	0.7
58	-13.20	114.43	-105.46	0.8
59	-13.20	114.43	-105.46	0.8
59	-13.33	101.16	-98.62	0.8
60	-13.33	101.16	-98.60	0.8
60	-14.06	43.64	-59.27	0.8
61	-14.06	43.64	-59.24	0.8
61	-14.79	12.91	-26.72	0.5
62	-14.79	12.92	-26.72	0.5
62	-14.88	10.66	-23.51	0.5
63	-14.88	10.66	-23.51	0.5
63	-15.00	8.08	-19.54	0.5
64	-15.00	8.08	-19.54	0.5
64	-15.39	2.61	-9.14	0.3
65	-15.39	2.61	-9.14	0.3
65	-15.50	1.73	-6.91	0.3
66	-15.50	1.73	-6.91	0.3
66	-15.79	0.41	-2.54	0.1
67	-15.79	0.41	-2.54	0.1
67	-15.83	0.32	-2.11	0.1
68	-15.83	0.32	-2.11	0.1
68	-15.89	0.21	-1.54	0.1
69	-15.89	0.21	-1.54	0.1
69	-16.00	0.09	-0.74	0.0
70	-16.00	0.09	-0.74	0.0
70	-16.29	0.00	-0.03	-0.1
71	-16.29	0.00	-0.03	-0.1
71	-16.33	0.00	0.01	-0.1
72	-16.33	0.00	0.01	-0.1
72	-16.39	0.00	0.04	-0.1
73	-16.39	0.00	0.04	-0.1
73	-16.50	0.00	0.00	-0.2
Max		**469.83**	**131.88**	**-212.2**
Max incl. tussenknopen		470.40	132.66	-212.2

14.7.3 Grafieken van Spanningen



14.7.4 Spanningen

Knoop nummer	Niveau [m]	Links Eff. spanning [kN/m²]	Links Water span. [kN/m²]	Links Stat*	Links Mob* [%]	Rechts Eff. spanning [kN/m²]	Rechts Water span. [kN/m²]	Rechts Stat*	Rechts Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.15	0.00	17.17	-		0.00	20.11	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	20.11	-	
16	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-3.00	0.00	25.51	-		0.00	28.45	-	
20	-3.00	0.00	25.51	P		0.00	28.45	A	
20	-3.20	10.08	27.47	P		20.83	30.41	A	
21	-3.20	4.93	27.47	P		12.49	46.16	A	
21	-3.60	5.36	31.39	P		17.50	50.09	A	
22	-3.60	5.44	31.39	P		17.54	50.09	A	
22	-4.21	6.35	37.43	P		17.96	56.12	A	
23	-4.21	6.46	37.43	P		18.01	56.12	A	
23	-4.83	7.45	43.46	P		85.58	62.15	A	
24	-4.83	7.52	43.46	P		82.92	62.15	A	
24	-5.00	7.80	45.13	P		74.47	63.82	A	
25	-5.00	7.84	45.13	P		72.80	63.82	A	
25	-5.33	8.38	48.36	P		51.81	67.06	A	95
26	-5.33	8.44	48.36	P		51.08	67.06	A	94
26	-5.60	8.35	51.01	P		45.36	69.70	A	83
27	-5.60	30.76	51.01	P		47.44	53.95	A	16
27	-5.83	31.02	53.27	P		35.00	56.21	A	14
28	-5.83	31.75	53.27	P		34.72	56.21	A	13
28	-6.42	43.28	59.01	P		28.95	61.95	A	
29	-6.42	44.64	59.01	P		22.97	61.95	A	
29	-7.00	57.06	64.75	P		23.27	67.69	A	
30	-7.00	58.47	64.75	P		23.37	67.69	A	
30	-7.60	70.05	70.63	P		24.17	73.58	A	
31	-7.60	71.66	70.63	P		24.71	73.58	A	
31	-7.83	80.36	72.89	P		25.21	75.83	A	
32	-7.83	81.62	72.89	P		25.29	75.83	A	
32	-8.20	95.72	76.52	P		26.10	79.46	A	
33	-8.20	97.15	76.52	P		26.17	79.46	A	
33	-8.50	109.30	79.46	P		26.89	82.40	A	
34	-8.50	88.12	79.46	3	89	27.81	82.40	A	
34	-8.88	91.65	82.34	3	84	28.55	85.29	A	
35	-8.88	92.18	82.34	3	83	28.60	85.29	A	
35	-9.00	93.34	83.25	3	82	28.83	86.20	A	
36	-9.00	93.87	83.25	3	82	28.87	86.20	A	
36	-9.38	93.18	86.14	2	75	29.56	89.08	A	
37	-9.38	93.45	86.14	2	75	29.34	89.08	A	
37	-9.39	93.31	86.21	2	74	29.64	89.16	A	
38	-9.39	93.39	86.21	2	74	29.61	89.16	A	
38	-9.50	91.93	87.05	2	71	29.86	89.99	A	
39	-9.50	92.20	87.05	2	71	29.85	89.99	A	
39	-9.79	88.88	89.25	2	65	30.35	92.19	A	
40	-9.79	89.14	89.25	2	65	30.40	92.19	A	
40	-9.88	88.26	89.93	2	63	30.53	92.88	A	
41	-9.88	88.33	89.93	2	63	30.92	92.88	A	
41	-9.89	88.24	90.01	2	63	31.00	92.95	A	
42	-9.89	88.51	90.01	2	63	30.61	92.95	A	
42	-10.29	85.51	93.04	2	56	31.28	95.99	A	
43	-10.29	85.83	93.04	2	56	31.30	95.99	A	
43	-10.38	85.34	93.73	2	55	31.46	96.67	A	
44	-10.38	85.41	93.73	2	55	31.29	96.67	A	
44	-10.39	85.36	93.80	2	55	31.31	96.74	A	
45	-10.39	85.64	93.80	2	55	31.53	96.74	A	
45	-10.80	84.28	96.91	2	50	32.17	99.86	A	
46	-10.80	84.57	96.91	2	50	45.44	99.86	A	14
46	-10.83	84.18	97.14	1	50	33.75	100.08	A	
47	-10.83	84.38	97.14	1	50	33.67	100.08	A	
47	-11.29	67.99	100.63	1	37	37.32	103.57	A	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
48	-11.29	68.20	100.63	1	37	37.36	103.57	A	
48	-11.38	65.62	101.31	1	35	37.49	104.26	A	
49	-11.38	65.66	101.31	1	35	37.86	104.26	A	
49	-11.39	65.39	101.39	1	35	37.44	104.33	A	
50	-11.39	65.44	101.39	1	35	37.53	104.33	A	
50	-11.50	62.57	102.22	1	33	37.64	105.17	A	
51	-11.50	62.76	102.22	1	33	37.71	105.17	A	
51	-11.89	54.74	105.18	1	27	42.13	108.13	1	
52	-11.89	55.04	105.18	1	27	42.30	108.13	1	
52	-12.29	49.87	108.22	1		50.68	111.16	1	15
53	-12.29	50.05	108.22	1		50.78	111.16	1	15
53	-12.38	49.26	108.90	1		52.30	111.84	1	15
54	-12.38	49.30	108.90	1		52.32	111.84	1	15
54	-12.39	49.22	108.98	1		52.48	111.92	1	15
55	-12.39	49.26	108.98	1		52.50	111.92	1	15
55	-12.50	48.47	109.81	1		54.18	112.76	1	15
56	-12.50	48.62	109.81	1		54.26	112.76	1	15
56	-12.79	47.33	112.01	1		57.89	114.96	1	16
57	-12.79	47.51	112.01	1		57.99	114.96	1	16
57	-13.00	47.07	113.61	1		59.94	116.55	1	16
58	-13.00	31.77	113.61	1		75.49	116.55	1	17
58	-13.20	26.58	115.57	1		75.26	118.51	1	16
59	-13.20	26.70	115.57	1		75.33	118.51	1	16
59	-13.33	26.26	116.84	1		76.86	119.79	1	17
60	-13.33	26.58	116.84	1		77.05	119.79	1	17
60	-14.06	30.67	124.00	1		79.07	126.95	1	16
61	-14.06	31.20	124.00	1		79.40	126.95	1	16
61	-14.79	41.43	131.17	1		75.29	134.11	1	15
62	-14.79	41.72	131.17	1		75.48	134.11	1	14
62	-14.88	43.17	132.05	1		74.79	134.99	1	14
63	-14.88	43.24	132.05	1		74.83	134.99	1	14
63	-15.00	45.21	133.23	1		73.88	136.17	1	14
64	-15.00	45.39	133.23	1		73.99	136.17	1	14
64	-15.39	51.94	137.05	1		70.73	139.99	1	13
65	-15.39	52.11	137.05	1		70.84	139.99	1	13
65	-15.50	53.99	138.13	1		69.89	141.07	1	13
66	-15.50	54.12	138.13	1		69.99	141.07	1	12
66	-15.79	59.08	140.98	1		67.47	143.92	1	12
67	-15.79	59.20	140.98	1		67.55	143.92	1	12
67	-15.83	59.88	141.37	1		67.20	144.31	1	12
68	-15.83	59.92	141.37	1		67.22	144.31	1	12
68	-15.89	60.94	141.96	1		66.70	144.90	1	11
69	-15.89	61.00	141.96	1		66.74	144.90	1	11
69	-16.00	62.93	143.04	1		65.81	145.98	1	11
70	-16.00	64.04	143.04	1		64.88	145.98	1	16
70	-16.29	77.75	145.88	1	27	75.94	148.82	1	
71	-16.29	77.84	145.88	1	27	76.00	148.82	1	
71	-16.33	78.17	146.27	1	27	75.96	149.22	1	
72	-16.33	78.20	146.27	1	27	75.98	149.22	1	
72	-16.39	78.69	146.86	1	27	75.93	149.80	1	
73	-16.39	78.74	146.86	1	27	75.96	149.80	1	
73	-16.50	79.60	147.94	1	27	75.82	150.88	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

14.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links	Rechts
	[kN]	[kN]
Effectief	688.1	602.4
Water	1213.9	1299.5
Totaal	1902.0	1902.0

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2126.99 kN
Gemobiliseerde passieve eff. weerstand	688.06 kN
Percentage gemobiliseerde weerstand	32.4 %

15 Stap 6.5 Fase 3: Fase 3: Verkeersbelasting+Hoge GWS

15.1 Invoergegevens Links

15.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

15.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

15.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

15.1.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

15.1.5 Beddingsconstanten (Secant)

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

15.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.04	0.0	10.7	0.00	2.38	72.28
2	-3.08	0.0	11.0	0.00	2.38	37.31
3	-3.12	0.0	11.4	0.00	2.38	25.66
4	-3.16	0.0	11.7	0.00	2.38	19.83
5	-3.20	0.0	12.0	0.00	2.75	19.11
6	-3.20	0.0	5.3	0.00	2.75	8.06
7	-3.28	0.0	5.4	0.00	3.22	7.42
8	-3.36	0.0	5.6	0.00	3.53	6.73
9	-3.44	0.0	5.7	0.00	3.77	6.20
10	-3.52	0.0	5.9	0.00	3.96	5.77
11	-3.60	0.0	6.0	0.00	4.12	5.49
12	-3.60	0.0	6.1	0.00	4.12	5.29
13	-3.72	0.0	6.3	0.00	4.30	4.97
14	-3.85	0.0	6.5	0.00	4.44	4.63
15	-3.97	0.0	6.7	0.00	4.35	4.35
16	-4.09	0.0	7.0	0.00	4.11	4.11
17	-4.21	0.0	7.2	0.00	3.97	3.97
18	-4.21	0.0	7.3	0.00	3.88	3.88
19	-4.34	0.0	7.5	0.00	3.76	3.76
20	-4.46	0.0	7.7	0.00	3.61	3.61
21	-4.58	0.0	8.0	0.00	3.49	3.49
22	-4.71	0.0	8.2	0.00	3.38	3.38
23	-4.83	0.0	8.4	0.00	3.31	3.31
24	-4.83	0.0	8.5	0.00	3.28	3.28
25	-4.86	0.0	8.5	0.00	3.26	3.26
26	-4.90	0.0	8.6	0.00	3.24	3.24
27	-4.93	0.0	8.7	0.00	3.21	3.21
28	-4.97	0.0	8.7	0.00	3.19	3.19
29	-5.00	0.0	8.8	0.00	3.18	3.18
30	-5.00	0.0	8.8	0.00	3.16	3.16
31	-5.07	0.0	8.9	0.00	3.13	3.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	0.0	9.1	0.00	3.09	3.09
33	-5.20	0.0	9.2	0.00	3.05	3.05
34	-5.26	0.0	9.3	0.00	3.02	3.02
35	-5.33	0.0	9.4	0.00	3.00	3.00
36	-5.33	0.0	9.5	0.00	2.98	2.98
37	-5.38	0.0	9.6	0.00	2.96	2.96
38	-5.44	0.0	9.7	0.00	2.94	2.94
39	-5.49	0.0	9.8	0.00	2.91	2.91
40	-5.55	0.0	9.9	0.00	2.89	2.89
41	-5.60	0.0	10.0	0.00	2.70	2.70
42	-5.60	0.0	52.9	0.00	4.06	13.67
43	-5.65	0.0	46.7	0.00	3.65	11.40
44	-5.69	0.0	44.7	0.00	3.47	10.13
45	-5.74	0.0	44.4	0.00	3.30	9.41
46	-5.78	0.0	44.7	0.00	3.16	8.91
47	-5.83	0.0	45.2	0.00	3.03	8.61
48	-5.83	0.0	46.0	0.00	3.03	8.32
49	-5.95	0.0	47.9	0.00	2.76	7.84
50	-6.06	0.0	50.9	0.00	2.55	7.38
51	-6.18	0.0	54.1	0.00	2.38	7.05
52	-6.30	0.0	57.5	0.00	2.24	6.79
53	-6.42	0.0	60.0	0.00	2.12	6.63
54	-6.42	0.0	61.7	0.00	2.12	6.54
55	-6.53	0.0	64.4	0.00	2.01	6.42
56	-6.65	0.0	67.9	0.00	1.93	6.28
57	-6.77	0.0	71.4	0.00	1.85	6.16
58	-6.88	0.0	75.0	0.00	1.78	6.06
59	-7.00	0.0	77.6	0.00	1.72	5.99
60	-7.00	0.0	79.5	0.00	1.72	5.95
61	-7.12	0.0	82.2	0.00	1.66	5.89
62	-7.24	0.0	85.9	0.00	1.61	5.82
63	-7.36	0.0	89.6	0.00	1.56	5.76
64	-7.48	0.0	93.3	0.00	1.52	5.70
65	-7.60	0.0	96.1	0.00	1.45	5.56
66	-7.60	0.0	101.1	0.00	1.45	5.71
67	-7.65	0.0	103.0	0.00	1.39	5.70
68	-7.69	0.0	105.5	0.00	1.37	5.70
69	-7.74	0.0	108.1	0.00	1.35	5.69
70	-7.78	0.0	110.7	0.00	1.33	5.69
71	-7.83	0.0	112.6	0.00	1.31	5.68
72	-7.83	0.0	114.3	0.00	1.31	5.68
73	-7.90	0.0	117.4	0.00	1.28	5.67
74	-7.98	0.0	121.6	0.00	1.26	5.67
75	-8.05	0.0	125.8	0.00	1.24	5.67
76	-8.13	0.9	130.0	0.04	1.21	5.66
77	-8.20	6.4	133.1	0.27	1.19	5.66
78	-8.20	6.5	135.0	0.27	1.19	5.66
79	-8.26	6.6	137.6	0.27	1.18	5.66
80	-8.32	6.8	141.0	0.27	1.16	5.66
81	-8.38	7.0	144.4	0.27	1.15	5.66
82	-8.44	7.1	147.9	0.27	1.13	5.65
83	-8.50	7.3	150.5	0.27	1.13	5.69
84	-8.50	5.4	131.5	0.20	1.13	4.92
85	-8.58	5.5	133.7	0.20	1.17	4.91
86	-8.65	5.7	136.7	0.21	1.15	4.90
87	-8.73	6.0	139.6	0.21	1.14	4.88
88	-8.80	6.2	142.5	0.21	1.13	4.87
89	-8.88	6.3	144.7	0.21	1.12	4.86
90	-8.88	6.4	145.7	0.21	1.12	4.86
91	-8.90	6.5	146.4	0.21	1.11	4.86
92	-8.93	6.5	147.3	0.22	1.11	4.85
93	-8.95	6.6	148.3	0.22	1.11	4.85
94	-8.98	6.7	149.2	0.22	1.10	4.84
95	-9.00	6.7	149.9	0.22	1.10	4.84

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	6.8	150.9	0.22	1.10	4.84
97	-9.08	7.0	153.1	0.22	1.09	4.83
98	-9.15	7.2	156.0	0.22	1.08	4.82
99	-9.23	7.4	158.9	0.22	1.07	4.81
100	-9.30	7.6	161.9	0.23	1.06	4.80
101	-9.38	7.8	164.1	0.23	1.05	4.79
102	-9.38	7.8	164.8	0.23	1.05	4.79
103	-9.38	7.8	164.9	0.23	1.05	4.79
104	-9.38	7.9	165.0	0.23	1.05	4.79
105	-9.39	7.9	165.1	0.23	1.05	4.79
106	-9.39	7.9	165.1	0.23	1.05	4.79
107	-9.39	7.9	165.2	0.23	1.05	4.79
108	-9.39	7.9	165.4	0.23	1.05	4.79
109	-9.41	7.9	166.1	0.23	1.04	4.79
110	-9.43	8.0	166.9	0.23	1.04	4.79
111	-9.46	8.1	167.8	0.23	1.04	4.78
112	-9.48	8.1	168.6	0.23	1.04	4.78
113	-9.50	8.2	169.2	0.23	1.03	4.78
114	-9.50	8.2	170.0	0.23	1.03	4.78
115	-9.56	8.4	171.7	0.23	1.03	4.77
116	-9.62	8.5	174.0	0.23	1.02	4.77
117	-9.67	8.7	176.2	0.23	1.01	4.76
118	-9.73	8.9	178.4	0.24	1.01	4.75
119	-9.79	9.0	180.1	0.24	1.00	4.75
120	-9.79	9.0	180.9	0.24	1.00	4.75
121	-9.81	9.1	181.4	0.24	1.00	4.75
122	-9.83	9.1	182.1	0.24	1.00	4.75
123	-9.84	9.2	182.8	0.24	1.00	4.74
124	-9.86	9.2	183.5	0.24	0.99	4.74
125	-9.88	9.3	184.0	0.24	0.99	4.74
126	-9.88	9.3	184.2	0.24	0.99	4.74
127	-9.88	9.3	184.2	0.24	0.99	4.74
128	-9.88	9.3	184.3	0.24	0.99	4.74
129	-9.89	9.3	184.4	0.24	0.99	4.74
130	-9.89	9.3	184.5	0.24	0.99	4.74
131	-9.89	9.3	184.5	0.24	0.99	4.74
132	-9.89	9.4	185.3	0.24	0.99	4.74
133	-9.97	9.5	187.7	0.24	0.98	4.73
134	-10.05	9.8	190.7	0.24	0.98	4.73
135	-10.13	10.0	193.8	0.24	0.97	4.72
136	-10.21	10.2	196.9	0.24	0.96	4.71
137	-10.29	10.4	199.3	0.25	0.96	4.71
138	-10.29	10.5	200.2	0.25	0.96	4.71
139	-10.31	10.5	200.7	0.25	0.95	4.70
140	-10.33	10.6	201.4	0.25	0.95	4.70
141	-10.34	10.6	202.1	0.25	0.95	4.70
142	-10.36	10.7	202.8	0.25	0.95	4.70
143	-10.38	10.7	203.3	0.25	0.95	4.70
144	-10.38	10.7	203.5	0.25	0.95	4.70
145	-10.38	10.7	203.6	0.25	0.95	4.70
146	-10.38	10.7	203.7	0.25	0.95	4.70
147	-10.39	10.7	203.8	0.25	0.95	4.70
148	-10.39	10.7	203.8	0.25	0.95	4.70
149	-10.39	10.8	203.9	0.25	0.95	4.70
150	-10.39	10.8	204.7	0.25	0.95	4.70
151	-10.47	11.0	207.1	0.25	0.94	4.69
152	-10.55	11.2	210.3	0.25	0.94	4.69
153	-10.64	11.5	213.4	0.25	0.93	4.68
154	-10.72	11.7	216.6	0.25	0.92	4.68
155	-10.80	11.9	219.0	0.25	0.92	4.67
156	-10.80	11.9	219.8	0.25	0.92	4.67
157	-10.81	12.0	220.0	0.25	0.92	4.67
158	-10.81	12.0	220.3	0.25	0.92	4.67
159	-10.82	12.0	220.5	0.25	0.92	4.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	12.0	220.7	0.25	0.92	4.67
161	-10.83	12.0	220.9	0.25	0.92	4.67
162	-10.83	12.1	221.8	0.25	0.92	4.67
163	-10.92	12.3	224.5	0.26	0.91	4.66
164	-11.01	12.6	228.1	0.26	0.90	4.66
165	-11.11	12.8	231.6	0.26	0.90	4.65
166	-11.20	13.1	235.2	0.26	0.89	4.65
167	-11.29	13.3	237.9	0.26	0.89	4.64
168	-11.29	13.4	238.9	0.26	0.89	4.64
169	-11.31	13.4	239.5	0.26	0.89	4.64
170	-11.33	13.5	240.2	0.26	0.88	4.64
171	-11.34	13.5	240.9	0.26	0.88	4.64
172	-11.36	13.6	241.6	0.26	0.88	4.64
173	-11.38	13.6	242.1	0.26	0.88	4.64
174	-11.38	13.6	242.3	0.26	0.88	4.64
175	-11.38	13.6	242.3	0.26	0.88	4.64
176	-11.38	13.6	242.4	0.26	0.88	4.64
177	-11.39	13.6	242.5	0.26	0.88	4.64
178	-11.39	13.6	242.6	0.26	0.88	4.64
179	-11.39	13.6	242.6	0.26	0.88	4.64
180	-11.39	13.7	242.8	0.26	0.88	4.64
181	-11.41	13.7	243.5	0.26	0.88	4.64
182	-11.43	13.8	244.3	0.26	0.88	4.64
183	-11.46	13.8	245.2	0.26	0.88	4.64
184	-11.48	13.9	246.0	0.26	0.88	4.63
185	-11.50	13.9	246.7	0.26	0.87	4.63
186	-11.50	14.0	247.7	0.26	0.87	4.63
187	-11.58	14.2	249.9	0.26	0.87	4.63
188	-11.66	14.4	252.9	0.26	0.87	4.63
189	-11.73	14.6	256.0	0.26	0.86	4.62
190	-11.81	14.9	259.0	0.27	0.86	4.62
191	-11.89	15.0	261.2	0.27	0.85	4.62
192	-11.89	15.1	262.8	0.27	0.85	4.61
193	-11.97	15.3	265.1	0.27	0.85	4.61
194	-12.05	15.6	268.2	0.27	0.85	4.61
195	-12.13	15.8	271.3	0.27	0.84	4.61
196	-12.21	16.0	274.4	0.27	0.84	4.60
197	-12.29	16.2	276.7	0.27	0.84	4.60
198	-12.29	16.3	277.7	0.27	0.84	4.60
199	-12.31	16.3	278.2	0.27	0.83	4.60
200	-12.33	16.3	278.9	0.27	0.83	4.60
201	-12.34	16.4	279.6	0.27	0.83	4.60
202	-12.36	16.5	280.3	0.27	0.83	4.60
203	-12.38	16.5	280.8	0.27	0.83	4.60
204	-12.38	16.5	281.0	0.27	0.83	4.60
205	-12.38	16.5	281.1	0.27	0.83	4.60
206	-12.38	16.5	281.1	0.27	0.83	4.60
207	-12.39	16.5	281.2	0.27	0.83	4.60
208	-12.39	16.5	281.3	0.27	0.83	4.60
209	-12.39	16.5	281.3	0.27	0.83	4.60
210	-12.39	16.6	281.6	0.27	0.83	4.60
211	-12.41	16.6	282.2	0.27	0.83	4.60
212	-12.43	16.7	283.1	0.27	0.83	4.59
213	-12.46	16.7	283.9	0.27	0.83	4.59
214	-12.48	16.8	284.8	0.27	0.83	4.59
215	-12.50	16.8	285.4	0.27	0.83	4.59
216	-12.50	16.9	286.2	0.27	0.83	4.59
217	-12.56	17.0	287.9	0.27	0.82	4.59
218	-12.62	17.2	290.1	0.27	0.82	4.59
219	-12.67	17.4	292.4	0.27	0.82	4.59
220	-12.73	17.5	294.6	0.27	0.82	4.58
221	-12.79	17.6	296.3	0.27	0.81	4.58
222	-12.79	17.7	297.3	0.27	0.81	4.58
223	-12.83	17.8	298.5	0.27	0.81	4.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	17.9	300.1	0.27	0.81	4.58
225	-12.92	18.1	301.7	0.27	0.81	4.58
226	-12.96	18.2	303.4	0.27	0.81	4.58
227	-13.00	18.3	304.6	0.27	0.81	4.57
228	-13.00	18.5	385.9	0.28	0.81	5.77
229	-13.04	18.6	387.6	0.28	0.75	5.77
230	-13.08	18.7	389.8	0.28	0.75	5.76
231	-13.12	18.8	392.0	0.28	0.75	5.76
232	-13.16	19.0	394.2	0.28	0.75	5.76
233	-13.20	19.0	395.9	0.28	0.74	5.76
234	-13.20	19.1	396.8	0.28	0.74	5.76
235	-13.23	19.1	397.9	0.28	0.74	5.76
236	-13.25	19.2	399.3	0.28	0.74	5.76
237	-13.28	19.3	400.8	0.28	0.74	5.76
238	-13.30	19.4	402.3	0.28	0.74	5.75
239	-13.33	19.4	403.3	0.28	0.74	5.75
240	-13.33	19.5	405.8	0.28	0.74	5.75
241	-13.48	19.9	411.9	0.28	0.73	5.75
242	-13.62	20.3	420.1	0.28	0.73	5.74
243	-13.77	20.7	428.4	0.28	0.72	5.74
244	-13.91	21.1	436.7	0.28	0.72	5.74
245	-14.06	21.4	442.9	0.28	0.71	5.73
246	-14.06	21.6	447.1	0.28	0.71	5.73
247	-14.21	21.9	453.3	0.28	0.71	5.73
248	-14.35	22.4	461.7	0.28	0.71	5.73
249	-14.50	22.8	470.1	0.28	0.70	5.73
250	-14.64	23.2	478.5	0.28	0.70	5.73
251	-14.79	23.5	484.8	0.28	0.69	5.73
252	-14.79	23.6	487.1	0.28	0.69	5.72
253	-14.81	23.7	487.9	0.28	0.69	5.72
254	-14.83	23.7	488.9	0.28	0.69	5.72
255	-14.84	23.8	490.0	0.28	0.69	5.72
256	-14.86	23.8	491.0	0.28	0.69	5.72
257	-14.88	23.8	491.8	0.28	0.69	5.72
258	-14.88	23.9	492.4	0.28	0.69	5.72
259	-14.90	23.9	493.4	0.28	0.69	5.72
260	-14.93	24.0	494.8	0.28	0.69	5.72
261	-14.95	24.1	496.2	0.28	0.69	5.72
262	-14.98	24.1	497.6	0.28	0.69	5.72
263	-15.00	24.2	498.6	0.28	0.69	5.72
264	-15.00	24.3	500.1	0.28	0.69	5.72
265	-15.08	24.4	503.5	0.28	0.69	5.72
266	-15.16	24.6	508.0	0.28	0.68	5.72
267	-15.23	24.9	512.5	0.28	0.68	5.72
268	-15.31	25.1	517.0	0.28	0.68	5.72
269	-15.39	25.3	520.4	0.28	0.68	5.72
270	-15.39	25.3	521.8	0.28	0.68	5.72
271	-15.41	25.4	522.7	0.28	0.68	5.72
272	-15.43	25.4	524.0	0.28	0.68	5.72
273	-15.46	25.5	525.3	0.28	0.68	5.72
274	-15.48	25.6	526.6	0.28	0.68	5.72
275	-15.50	25.6	527.5	0.28	0.68	5.72
276	-15.50	25.7	528.7	0.28	0.68	5.72
277	-15.56	25.8	531.2	0.28	0.68	5.72
278	-15.62	26.0	534.6	0.28	0.67	5.72
279	-15.67	26.1	537.9	0.28	0.67	5.72
280	-15.73	26.3	541.3	0.28	0.67	5.72
281	-15.79	26.4	543.8	0.28	0.67	5.72
282	-15.79	26.5	544.7	0.28	0.67	5.72
283	-15.80	26.5	545.1	0.28	0.67	5.72
284	-15.81	26.5	545.6	0.28	0.67	5.72
285	-15.81	26.5	546.0	0.28	0.67	5.72
286	-15.82	26.5	546.5	0.28	0.67	5.72
287	-15.83	26.6	546.8	0.28	0.67	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	26.6	547.1	0.28	0.67	5.72
289	-15.84	26.6	547.6	0.28	0.67	5.72
290	-15.85	26.6	548.3	0.28	0.67	5.72
291	-15.87	26.7	549.0	0.28	0.67	5.72
292	-15.88	26.7	549.7	0.28	0.67	5.72
293	-15.89	26.7	550.3	0.28	0.67	5.72
294	-15.89	26.8	550.7	0.28	0.67	5.72
295	-15.91	26.8	551.7	0.28	0.67	5.72
296	-15.93	26.9	553.0	0.28	0.67	5.72
297	-15.96	26.9	554.3	0.28	0.67	5.72
298	-15.98	27.0	555.5	0.28	0.67	5.72
299	-16.00	27.0	556.5	0.28	0.67	5.72
300	-16.00	31.1	350.6	0.32	0.67	3.60
301	-16.06	31.3	351.6	0.32	0.78	3.60
302	-16.12	31.4	353.0	0.32	0.78	3.60
303	-16.17	31.6	354.3	0.32	0.78	3.59
304	-16.23	31.7	355.6	0.32	0.78	3.59
305	-16.29	31.9	356.6	0.32	0.78	3.59
306	-16.29	31.9	357.0	0.32	0.78	3.59
307	-16.30	31.9	357.1	0.32	0.78	3.59
308	-16.31	31.9	357.3	0.32	0.78	3.59
309	-16.31	32.0	357.5	0.32	0.78	3.59
310	-16.32	32.0	357.6	0.32	0.78	3.59
311	-16.33	32.0	357.8	0.32	0.78	3.59
312	-16.33	32.0	357.9	0.32	0.78	3.59
313	-16.34	32.0	358.1	0.32	0.78	3.59
314	-16.35	32.1	358.4	0.32	0.78	3.59
315	-16.37	32.1	358.7	0.32	0.78	3.59
316	-16.38	32.2	358.9	0.32	0.78	3.59
317	-16.39	32.2	359.1	0.32	0.78	3.59
318	-16.39	32.2	359.3	0.32	0.78	3.59
319	-16.41	32.2	359.7	0.32	0.78	3.59
320	-16.43	32.3	360.2	0.32	0.78	3.59
321	-16.46	32.4	360.7	0.32	0.78	3.59
322	-16.48	32.4	361.2	0.32	0.78	3.59
323	-16.50	32.5	361.6	0.32	0.78	3.58

15.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	2.06
5 Veen	19.27
3 Klei/zand (NZ)	114.97
4 Zand (NZ)	77.27
5 Klei (NZ)	238.54
6 zandlaag 1 (NZ)	147.76
7 klei (NZ)	38.40
8 zandlaag 2 (NZ)	0.00

15.4 Invoergegevens Rechts

15.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

15.4.2 Waterniveau

Freatisch niveau: -0.10 [m]

15.4.3 Maaiveld

X [m]	Y [m]
0.00	-3.00
4.00	-3.00
4.01	1.50
20.00	1.50

15.4.4 Eigenschappen van de grondmaterialen in Profiel: Geldersekade 2331-35% wo

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.50	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	0.00	13.50	13.50	3.00	18.00	9.00
2 IJ-klei (NZ)	-0.40	13.50	13.50	3.00	18.00	9.00
5 Veen	-3.20	11.00	11.00	1.50	15.00	0.00
3 Klei/zand (NZ)	-5.60	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-7.60	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-8.50	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.00	18.00	20.00	0.00	30.00	20.00
7 klei (NZ)	-16.00	17.00	17.00	5.00	22.50	15.00
8 zandlaag 2 (...	-16.50	18.00	20.00	0.00	32.50	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.50	1.00	1.00	Fijn
2 IJ-klei (NZ)	0.00	1.00	1.00	Fijn
2 IJ-klei (NZ)	-0.40	1.00	1.00	Fijn
5 Veen	-3.20	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.60	1.00	1.00	Fijn
4 Zand (NZ)	-7.60	1.00	1.00	Fijn
5 Klei (NZ)	-8.50	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.00	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-16.50	1.00	1.00	Fijn

Laag naam	Niveau [m]	Gronddrukcoëfficiënten Actief [-]	Gronddrukcoëfficiënten Neutraal [-]	Gronddrukcoëfficiënten Passief [-]	Wateroverspanning Boven [kN/m²]	Wateroverspanning Onder [kN/m²]
1 Toplaag (NZ)	1.50	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	0.00	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-0.40	n.a.	n.a.	n.a.	0.00	0.00
5 Veen	-3.20	n.a.	n.a.	n.a.	15.75	15.75
3 Klei/zand (NZ)	-5.60	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-7.60	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-8.50	n.a.	n.a.	n.a.	0.00	-10.00
6 zandlaag 1 (...	-13.00	n.a.	n.a.	n.a.	-10.00	-10.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	-10.00	-10.00
8 zandlaag 2 (...	-16.50	n.a.	n.a.	n.a.	-10.00	-10.00

15.4.5 Beddingsconstanten (Secant)

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
1 Toplaag (NZ)	1.50	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	0.00	2000.00	2000.00	1000.00	1000.00
2 IJ-klei (NZ)	-0.40	2000.00	2000.00	1000.00	1000.00
5 Veen	-3.20	1200.00	1200.00	600.00	600.00
3 Klei/zand (NZ)	-5.60	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-7.60	8000.00	8000.00	4000.00	4000.00

Laag naam	Niveau [m]	Tak 1 Boven [kN/m³]	Tak 1 Onder [kN/m³]	Tak 2 Boven [kN/m³]	Tak 2 Onder [kN/m³]
5 Klei (NZ)	-8.50	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.00	14000.00	14000.00	7000.00	7000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-16.50	18000.00	18000.00	9000.00	9000.00

Laag naam	Niveau [m]	Tak 3 Boven [kN/m³]	Tak 3 Onder [kN/m³]
1 Toplaag (NZ)	1.50	1500.00	1500.00
2 IJ-klei (NZ)	0.00	500.00	500.00
2 IJ-klei (NZ)	-0.40	500.00	500.00
5 Veen	-3.20	300.00	300.00
3 Klei/zand (NZ)	-5.60	1250.00	1250.00
4 Zand (NZ)	-7.60	2000.00	2000.00
5 Klei (NZ)	-8.50	1000.00	1000.00
6 zandlaag 1 (...	-13.00	3500.00	3500.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-16.50	4500.00	4500.00

15.4.6 Bovenbelastingen

Naam	Afstand [m]	Belasting [kN/m²]
Verkeer 2 - 20 kN/m²	6.30	20.00
	9.30	20.00
Zandaanvulling achter DW	0.00	45.00
	4.00	45.00

15.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau [m]	Horizontale druk Actief [kN/m²]	Horizontale druk Passief [kN/m²]	Fictieve gronddrukcoëfficiënten Ka [-]	Ko [-]	Kp [-]
1	-3.04	17.6	115.6	0.38	1.09	2.50
2	-3.08	17.6	115.9	0.38	1.17	2.50
3	-3.12	17.7	116.3	0.38	1.07	2.49
4	-3.16	17.8	116.6	0.38	1.00	2.49
5	-3.20	17.8	116.9	0.38	0.98	2.50
6	-3.20	15.4	56.5	0.36	0.98	1.31
7	-3.28	15.4	56.3	0.49	1.41	1.80
8	-3.36	15.5	56.3	0.49	1.38	1.79
9	-3.44	15.5	56.3	0.49	1.35	1.79
10	-3.52	15.6	56.3	0.49	1.32	1.78
11	-3.60	15.6	56.3	0.49	1.29	1.77
12	-3.60	15.7	56.4	0.49	1.29	1.77
13	-3.72	15.7	56.5	0.49	1.24	1.77
14	-3.85	15.8	56.6	0.49	1.20	1.76
15	-3.97	15.9	56.8	0.49	1.17	1.76
16	-4.09	16.0	57.0	0.49	1.13	1.75
17	-4.21	16.0	57.1	0.49	1.09	1.75
18	-4.21	16.1	57.3	0.49	1.09	1.75
19	-4.34	16.2	57.4	0.49	1.06	1.74
20	-4.46	16.2	57.6	0.49	1.03	1.74
21	-4.58	16.3	57.9	0.49	1.00	1.74
22	-4.71	16.4	58.1	0.49	0.97	1.74
23	-4.83	16.5	58.3	0.49	0.94	1.74
24	-4.83	16.5	58.3	0.49	0.94	1.74
25	-4.86	16.5	58.4	0.49	0.94	1.74
26	-4.90	16.5	58.4	0.49	0.93	1.74
27	-4.93	16.6	58.5	0.49	0.92	1.74
28	-4.97	16.6	58.6	0.49	0.92	1.74
29	-5.00	16.6	58.6	0.49	0.91	1.73
30	-5.00	16.6	58.7	0.49	0.91	1.73
31	-5.07	142.4	58.8	4.20	4.20	4.20

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-5.13	71.9	58.9	2.12	2.12	2.12
33	-5.20	68.8	59.0	2.02	2.02	2.02
34	-5.26	61.2	59.1	1.79	1.79	1.79
35	-5.33	54.7	59.2	1.60	1.60	1.73
36	-5.33	53.8	59.3	1.57	1.57	1.73
37	-5.38	52.6	59.4	1.54	1.54	1.73
38	-5.44	51.1	59.5	1.49	1.49	1.73
39	-5.49	49.7	59.6	1.45	1.45	1.73
40	-5.55	48.4	59.7	1.41	1.41	1.73
41	-5.60	47.3	59.8	1.36	1.36	1.72
42	-5.60	35.6	352.9	0.92	0.92	9.10
43	-5.65	35.4	353.0	0.70	0.70	6.94
44	-5.69	34.9	377.4	0.68	0.68	7.38
45	-5.74	34.6	404.8	0.67	0.67	7.87
46	-5.78	34.2	435.7	0.66	0.66	8.42
47	-5.83	33.9	461.4	0.65	0.65	8.88
48	-5.83	33.6	495.4	0.64	0.64	9.48
49	-5.95	33.0	585.3	0.62	0.62	11.08
50	-6.06	32.1	748.7	0.60	0.60	13.97
51	-6.18	31.2	996.3	0.57	0.57	18.33
52	-6.30	30.4	1394.9	0.55	0.55	25.32
53	-6.42	28.1	1388.0	0.51	0.53	24.94
54	-6.42	23.9	246.7	0.43	0.53	4.40
55	-6.53	22.9	249.4	0.41	0.53	4.41
56	-6.65	21.8	253.0	0.38	0.52	4.41
57	-6.77	20.7	261.0	0.36	0.52	4.49
58	-6.88	19.8	271.5	0.34	0.51	4.61
59	-7.00	19.2	274.2	0.32	0.51	4.62
60	-7.00	19.3	276.1	0.32	0.51	4.62
61	-7.12	19.5	269.0	0.32	0.50	4.45
62	-7.24	20.1	263.6	0.33	0.50	4.31
63	-7.36	18.7	267.3	0.30	0.50	4.32
64	-7.48	19.8	271.0	0.32	0.50	4.32
65	-7.60	20.0	273.8	0.32	0.49	4.31
66	-7.60	21.2	330.3	0.33	0.49	5.16
67	-7.65	21.3	332.2	0.33	0.48	5.17
68	-7.69	21.4	334.7	0.33	0.48	5.17
69	-7.74	21.5	337.2	0.33	0.48	5.17
70	-7.78	21.7	339.8	0.33	0.48	5.17
71	-7.83	21.8	341.7	0.33	0.47	5.18
72	-7.83	21.9	343.3	0.33	0.47	5.18
73	-7.90	22.1	346.3	0.33	0.47	5.18
74	-7.98	22.3	364.0	0.33	0.47	5.39
75	-8.05	22.5	392.6	0.33	0.47	5.75
76	-8.13	22.7	420.0	0.33	0.47	6.08
77	-8.20	22.9	425.8	0.33	0.47	6.12
78	-8.20	23.0	427.3	0.33	0.47	6.11
79	-8.26	23.1	429.5	0.33	0.47	6.10
80	-8.32	23.3	432.4	0.33	0.47	6.09
81	-8.38	23.5	435.3	0.33	0.47	6.09
82	-8.44	23.7	438.3	0.33	0.47	6.08
83	-8.50	23.8	440.6	0.33	0.47	6.08
84	-8.50	24.3	351.4	0.33	0.47	4.84
85	-8.58	24.4	353.6	0.33	0.49	4.83
86	-8.65	24.6	356.5	0.33	0.48	4.83
87	-8.73	24.7	359.4	0.33	0.48	4.83
88	-8.80	24.8	362.3	0.33	0.48	4.82
89	-8.88	24.9	364.5	0.33	0.48	4.82
90	-8.88	25.0	365.5	0.33	0.48	4.82
91	-8.90	25.0	366.2	0.33	0.48	4.82
92	-8.93	25.1	367.1	0.33	0.48	4.82
93	-8.95	25.1	368.0	0.33	0.48	4.82
94	-8.98	25.2	368.9	0.33	0.48	4.82
95	-9.00	25.2	369.6	0.33	0.48	4.82

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-9.00	25.2	333.5	0.33	0.48	4.33
97	-9.08	25.3	311.3	0.33	0.48	4.02
98	-9.15	25.5	314.2	0.33	0.48	4.02
99	-9.23	25.6	317.1	0.32	0.48	4.03
100	-9.30	25.7	320.0	0.32	0.48	4.03
101	-9.38	25.8	322.2	0.32	0.48	4.03
102	-9.38	25.6	322.9	0.32	0.48	4.03
103	-9.38	25.9	323.0	0.32	0.48	4.03
104	-9.38	25.9	323.1	0.32	0.48	4.03
105	-9.39	25.9	323.1	0.32	0.48	4.03
106	-9.39	25.7	323.2	0.32	0.48	4.03
107	-9.39	26.1	323.3	0.33	0.48	4.03
108	-9.39	25.9	323.5	0.32	0.48	4.03
109	-9.41	25.9	324.1	0.32	0.48	4.04
110	-9.43	25.9	325.0	0.32	0.48	4.04
111	-9.46	26.0	325.8	0.32	0.48	4.04
112	-9.48	26.0	326.7	0.32	0.48	4.04
113	-9.50	26.1	327.3	0.32	0.48	4.04
114	-9.50	26.1	328.1	0.32	0.48	4.04
115	-9.56	26.1	329.7	0.32	0.48	4.04
116	-9.62	26.2	332.0	0.32	0.48	4.04
117	-9.67	26.3	334.2	0.32	0.48	4.05
118	-9.73	26.4	336.4	0.32	0.48	4.05
119	-9.79	26.5	338.1	0.32	0.48	4.05
120	-9.79	26.6	338.8	0.32	0.48	4.05
121	-9.81	26.5	339.3	0.32	0.48	4.05
122	-9.83	26.6	339.3	0.32	0.48	4.05
123	-9.84	26.6	348.9	0.32	0.48	4.15
124	-9.86	26.6	356.6	0.32	0.48	4.24
125	-9.88	26.7	365.9	0.32	0.48	4.34
126	-9.88	27.1	364.1	0.32	0.48	4.32
127	-9.88	26.6	364.1	0.32	0.48	4.32
128	-9.88	26.6	364.2	0.32	0.48	4.32
129	-9.89	26.7	352.9	0.32	0.48	4.18
130	-9.89	26.7	375.8	0.32	0.48	4.45
131	-9.89	26.8	364.4	0.32	0.48	4.32
132	-9.89	26.7	365.2	0.32	0.48	4.32
133	-9.97	26.8	376.8	0.32	0.48	4.43
134	-10.05	26.9	380.2	0.31	0.48	4.43
135	-10.13	27.1	383.3	0.31	0.48	4.43
136	-10.21	27.2	386.4	0.31	0.48	4.43
137	-10.29	27.3	388.7	0.31	0.48	4.43
138	-10.29	27.3	389.7	0.31	0.48	4.43
139	-10.31	27.4	390.2	0.31	0.48	4.43
140	-10.33	27.4	390.9	0.31	0.48	4.43
141	-10.34	27.4	391.6	0.31	0.48	4.43
142	-10.36	27.4	392.3	0.31	0.48	4.43
143	-10.38	27.4	392.8	0.31	0.48	4.43
144	-10.38	27.1	393.0	0.31	0.48	4.43
145	-10.38	27.6	393.1	0.31	0.48	4.43
146	-10.38	27.4	393.2	0.31	0.48	4.43
147	-10.39	27.3	393.2	0.31	0.48	4.43
148	-10.39	27.6	393.3	0.31	0.48	4.43
149	-10.39	27.2	393.4	0.31	0.48	4.43
150	-10.39	27.5	394.2	0.31	0.48	4.43
151	-10.47	27.6	396.6	0.31	0.48	4.44
152	-10.55	27.7	399.8	0.31	0.48	4.44
153	-10.64	27.8	402.9	0.31	0.48	4.44
154	-10.72	28.0	406.1	0.31	0.48	4.44
155	-10.80	28.0	383.0	0.30	0.48	4.16
156	-10.80	28.1	381.3	0.30	0.48	4.13
157	-10.81	28.1	381.5	0.30	0.48	4.13
158	-10.81	28.1	381.7	0.30	0.48	4.13
159	-10.82	28.2	381.9	0.30	0.48	4.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-10.82	28.1	382.1	0.30	0.48	4.13
161	-10.83	28.2	382.3	0.30	0.48	4.13
162	-10.83	28.2	375.7	0.30	0.48	4.05
163	-10.92	30.4	364.9	0.33	0.48	3.91
164	-11.01	28.7	368.3	0.31	0.48	3.92
165	-11.11	29.6	371.8	0.31	0.48	3.92
166	-11.20	29.7	375.3	0.31	0.48	3.92
167	-11.29	29.8	377.9	0.31	0.48	3.93
168	-11.29	29.8	379.0	0.31	0.48	3.93
169	-11.31	29.9	379.5	0.31	0.48	3.93
170	-11.33	29.9	380.2	0.31	0.48	3.93
171	-11.34	29.9	380.8	0.31	0.48	3.93
172	-11.36	30.0	381.5	0.31	0.48	3.93
173	-11.38	30.0	382.0	0.31	0.48	3.93
174	-11.38	30.0	382.2	0.31	0.48	3.93
175	-11.38	30.0	382.3	0.31	0.48	3.93
176	-11.38	30.0	382.4	0.31	0.48	3.93
177	-11.39	30.0	382.4	0.31	0.48	3.93
178	-11.39	30.0	382.5	0.31	0.48	3.93
179	-11.39	30.1	382.6	0.31	0.48	3.93
180	-11.39	30.1	382.8	0.31	0.48	3.93
181	-11.41	30.1	383.4	0.31	0.48	3.93
182	-11.43	30.2	384.3	0.31	0.48	3.93
183	-11.46	30.2	385.1	0.31	0.48	3.93
184	-11.48	30.3	385.9	0.31	0.48	3.94
185	-11.50	30.4	386.6	0.31	0.48	3.94
186	-11.50	30.4	387.5	0.31	0.48	3.94
187	-11.58	32.1	389.7	0.32	0.48	3.94
188	-11.66	33.1	392.7	0.33	0.48	3.94
189	-11.73	33.3	395.3	0.33	0.48	3.94
190	-11.81	33.5	409.8	0.33	0.48	4.06
191	-11.89	33.7	427.2	0.33	0.48	4.21
192	-11.89	33.8	429.6	0.33	0.48	4.22
193	-11.97	33.9	432.0	0.33	0.48	4.22
194	-12.05	34.0	435.0	0.33	0.48	4.22
195	-12.13	34.1	438.1	0.33	0.48	4.23
196	-12.21	34.2	441.2	0.33	0.48	4.23
197	-12.29	34.3	443.6	0.33	0.48	4.23
198	-12.29	34.4	444.5	0.33	0.48	4.23
199	-12.31	34.3	445.0	0.33	0.48	4.23
200	-12.33	34.3	445.7	0.33	0.48	4.23
201	-12.34	34.4	446.4	0.33	0.48	4.23
202	-12.36	34.4	447.1	0.33	0.48	4.23
203	-12.38	34.4	447.6	0.33	0.48	4.23
204	-12.38	34.2	447.8	0.32	0.48	4.23
205	-12.38	34.7	447.9	0.33	0.48	4.23
206	-12.38	34.4	448.0	0.32	0.48	4.23
207	-12.39	34.5	448.0	0.33	0.48	4.23
208	-12.39	34.2	448.1	0.32	0.48	4.23
209	-12.39	34.2	448.2	0.32	0.48	4.23
210	-12.39	34.5	448.4	0.33	0.48	4.23
211	-12.41	34.5	449.0	0.32	0.48	4.23
212	-12.43	34.4	449.9	0.32	0.48	4.23
213	-12.46	34.5	450.7	0.32	0.48	4.23
214	-12.48	34.6	451.6	0.32	0.48	4.23
215	-12.50	34.5	452.2	0.32	0.48	4.23
216	-12.50	34.6	453.0	0.32	0.48	4.23
217	-12.56	34.6	454.7	0.32	0.48	4.24
218	-12.62	34.7	456.9	0.32	0.48	4.24
219	-12.67	34.7	459.2	0.32	0.48	4.24
220	-12.73	34.8	461.4	0.32	0.49	4.24
221	-12.79	34.8	463.1	0.32	0.49	4.24
222	-12.79	34.8	464.1	0.32	0.49	4.24
223	-12.83	34.9	465.3	0.32	0.49	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-12.87	35.0	466.1	0.32	0.49	4.23
225	-12.92	35.0	469.3	0.32	0.49	4.25
226	-12.96	35.0	470.2	0.32	0.49	4.24
227	-13.00	35.1	471.4	0.32	0.49	4.24
228	-13.00	33.2	615.0	0.30	0.49	5.52
229	-13.04	33.2	616.7	0.30	0.45	5.52
230	-13.08	33.3	618.9	0.30	0.45	5.52
231	-13.12	33.3	621.2	0.30	0.45	5.52
232	-13.16	33.4	623.4	0.30	0.45	5.52
233	-13.20	33.4	625.1	0.30	0.45	5.52
234	-13.20	33.5	626.1	0.30	0.45	5.52
235	-13.23	33.5	627.2	0.29	0.45	5.52
236	-13.25	33.5	628.6	0.29	0.45	5.52
237	-13.28	33.5	630.1	0.29	0.45	5.52
238	-13.30	33.6	631.6	0.29	0.45	5.52
239	-13.33	37.3	632.7	0.33	0.45	5.52
240	-13.33	33.4	635.1	0.29	0.45	5.53
241	-13.48	33.9	641.3	0.29	0.45	5.53
242	-13.62	34.1	649.6	0.29	0.45	5.53
243	-13.77	34.3	657.9	0.29	0.45	5.53
244	-13.91	34.5	666.2	0.29	0.45	5.53
245	-14.06	34.6	672.5	0.29	0.45	5.54
246	-14.06	34.7	676.7	0.28	0.45	5.54
247	-14.21	35.0	682.9	0.28	0.45	5.54
248	-14.35	35.4	689.4	0.28	0.45	5.53
249	-14.50	35.8	690.1	0.28	0.45	5.47
250	-14.64	36.0	698.5	0.28	0.46	5.47
251	-14.79	35.9	704.8	0.28	0.46	5.48
252	-14.79	36.4	707.2	0.28	0.46	5.48
253	-14.81	36.4	707.9	0.28	0.46	5.48
254	-14.83	36.5	709.0	0.28	0.46	5.48
255	-14.84	36.5	710.0	0.28	0.46	5.48
256	-14.86	36.6	711.1	0.28	0.46	5.48
257	-14.88	36.6	711.8	0.28	0.46	5.48
258	-14.88	36.6	712.5	0.28	0.46	5.48
259	-14.90	36.7	713.5	0.28	0.46	5.48
260	-14.93	36.8	714.9	0.28	0.46	5.48
261	-14.95	36.8	716.3	0.28	0.46	5.48
262	-14.98	36.9	717.7	0.28	0.46	5.48
263	-15.00	36.9	718.7	0.28	0.46	5.48
264	-15.00	37.0	720.2	0.28	0.46	5.48
265	-15.08	37.2	723.6	0.28	0.46	5.48
266	-15.16	37.4	728.1	0.28	0.46	5.49
267	-15.23	37.5	754.5	0.28	0.46	5.65
268	-15.31	37.4	765.9	0.28	0.46	5.70
269	-15.39	37.4	769.2	0.28	0.46	5.70
270	-15.39	37.3	770.7	0.28	0.46	5.70
271	-15.41	37.3	771.6	0.28	0.46	5.71
272	-15.43	37.3	772.9	0.28	0.46	5.71
273	-15.46	37.3	774.1	0.27	0.46	5.71
274	-15.48	37.3	775.4	0.27	0.46	5.71
275	-15.50	37.2	776.3	0.27	0.46	5.71
276	-15.50	37.2	777.4	0.27	0.46	5.70
277	-15.56	37.2	780.0	0.27	0.46	5.71
278	-15.62	37.1	783.3	0.27	0.46	5.71
279	-15.67	37.0	786.6	0.27	0.46	5.71
280	-15.73	37.0	789.9	0.27	0.46	5.71
281	-15.79	36.9	792.4	0.27	0.46	5.71
282	-15.79	36.9	793.4	0.27	0.46	5.71
283	-15.80	36.9	793.7	0.27	0.46	5.71
284	-15.81	36.9	794.2	0.27	0.46	5.71
285	-15.81	36.9	794.6	0.27	0.46	5.71
286	-15.82	36.9	795.1	0.26	0.46	5.71
287	-15.83	36.9	795.5	0.26	0.46	5.71

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-15.83	36.9	795.7	0.26	0.46	5.71
289	-15.84	36.9	796.3	0.26	0.46	5.71
290	-15.85	36.9	796.9	0.26	0.46	5.71
291	-15.87	36.8	797.6	0.26	0.46	5.71
292	-15.88	36.8	798.3	0.26	0.46	5.71
293	-15.89	36.9	798.8	0.26	0.46	5.71
294	-15.89	36.8	799.3	0.26	0.46	5.71
295	-15.91	36.8	800.3	0.26	0.46	5.71
296	-15.93	36.8	801.5	0.26	0.46	5.71
297	-15.96	36.8	802.8	0.26	0.46	5.71
298	-15.98	36.8	804.1	0.26	0.46	5.71
299	-16.00	36.7	805.0	0.26	0.46	5.71
300	-16.00	44.5	490.8	0.32	0.46	3.48
301	-16.06	44.4	491.8	0.31	0.54	3.48
302	-16.12	44.2	493.1	0.31	0.54	3.48
303	-16.17	44.1	494.5	0.31	0.54	3.48
304	-16.23	44.0	483.6	0.31	0.54	3.39
305	-16.29	43.9	470.2	0.31	0.54	3.29
306	-16.29	44.0	470.6	0.31	0.54	3.29
307	-16.30	43.8	470.7	0.31	0.54	3.29
308	-16.31	43.8	470.9	0.31	0.54	3.29
309	-16.31	43.6	471.1	0.30	0.54	3.29
310	-16.32	44.1	471.3	0.31	0.54	3.29
311	-16.33	43.8	471.4	0.31	0.54	3.29
312	-16.33	43.8	471.5	0.31	0.54	3.29
313	-16.34	43.6	471.7	0.30	0.54	3.29
314	-16.35	43.9	472.0	0.31	0.54	3.29
315	-16.37	43.7	472.3	0.30	0.54	3.29
316	-16.38	43.7	472.5	0.30	0.54	3.29
317	-16.39	43.6	472.8	0.30	0.54	3.29
318	-16.39	43.7	472.9	0.30	0.54	3.29
319	-16.41	43.6	473.3	0.30	0.54	3.29
320	-16.43	43.6	473.8	0.30	0.54	3.29
321	-16.46	43.5	474.3	0.30	0.54	3.29
322	-16.48	43.5	474.8	0.30	0.54	3.29
323	-16.50	43.4	475.2	0.30	0.54	3.29

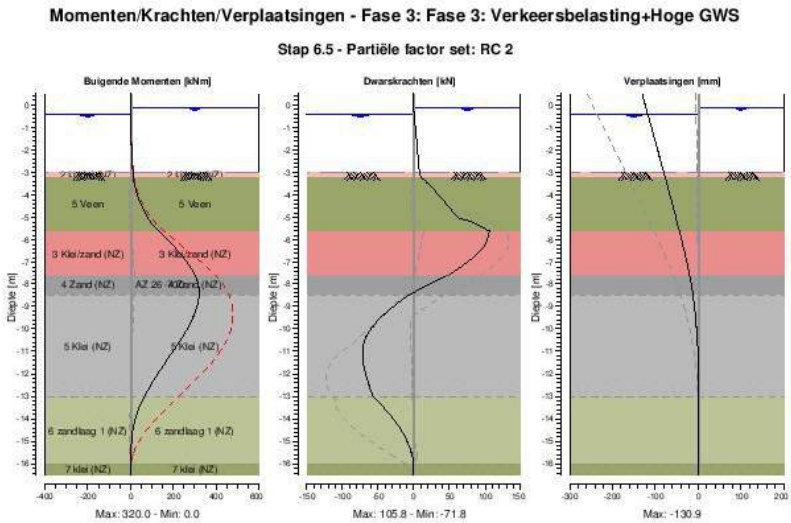
15.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	0.00
2 IJ-klei (NZ)	3.18
5 Veen	70.39
3 Klei/zand (NZ)	50.73
4 Zand (NZ)	20.07
5 Klei (NZ)	175.26
6 zandlaag 1 (NZ)	195.35
7 klei (NZ)	37.67
8 zandlaag 2 (NZ)	0.00

15.7 Berekeningsresultaten

Aantal iteraties: 4

15.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



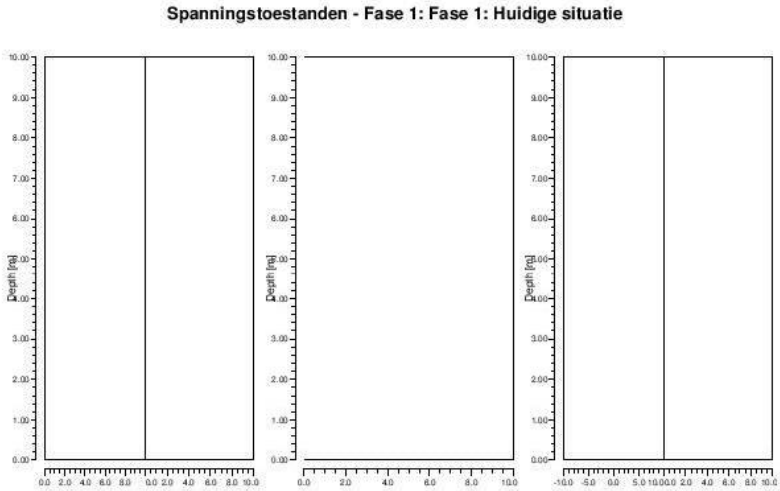
15.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.50	0.00	0.00	**-130.9**
1	0.40	0.00	0.00	-129.4
2	0.40	0.00	0.00	-129.4
2	0.20	0.00	0.00	-126.5
3	0.20	0.00	0.00	-126.5
3	0.17	0.00	0.00	-126.1
4	0.17	0.00	0.00	-126.1
4	0.00	0.00	0.00	-123.6
5	0.00	0.00	0.00	-123.6
5	-0.10	0.00	0.00	-122.2
6	-0.10	0.00	0.00	-122.2
6	-0.20	0.00	0.05	-120.7
7	-0.20	0.00	0.05	-120.7
7	-0.33	0.02	0.26	-118.8
8	-0.33	0.02	0.26	-118.8
8	-0.40	0.04	0.44	-117.8
9	-0.40	0.04	0.44	-117.8
9	-0.60	0.19	1.03	-114.9
10	-0.60	0.19	1.03	-114.9
10	-1.33	1.73	3.18	-104.3
11	-1.33	1.73	3.18	-104.3
11	-1.50	2.31	3.68	-101.9
12	-1.50	2.31	3.68	-101.9
12	-1.60	2.69	3.97	-100.4
13	-1.60	2.69	3.97	-100.4
13	-1.83	3.68	4.65	-97.1
14	-1.83	3.68	4.65	-97.1
14	-2.00	4.52	5.15	-94.6
15	-2.00	4.52	5.15	-94.6
15	-2.15	5.32	5.59	-92.4
16	-2.15	5.32	5.59	-92.4

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.20	5.61	5.74	-91.7
17	-2.20	5.61	5.74	-91.7
17	-2.33	6.38	6.12	-89.8
18	-2.33	6.38	6.12	-89.8
18	-2.60	8.14	6.92	-85.9
19	-2.60	8.14	6.92	-85.9
19	-3.00	11.14	8.09	-80.1
20	-3.00	11.14	8.09	-80.1
20	-3.20	12.92	9.81	-77.3
21	-3.20	12.92	9.80	-77.3
21	-3.60	19.56	23.55	-71.5
22	-3.60	19.56	23.55	-71.5
22	-4.21	39.34	40.60	-62.7
23	-4.21	39.34	40.62	-62.7
23	-4.83	69.41	57.11	-54.0
24	-4.83	69.41	57.11	-54.0
24	-5.00	79.50	61.58	-51.7
25	-5.00	79.50	61.58	-51.7
25	-5.33	104.85	89.79	-47.2
26	-5.33	104.85	89.79	-47.2
26	-5.60	131.29	**105.81**	-43.5
27	-5.60	131.29	**105.81**	-43.5
27	-5.83	155.50	104.61	-40.5
28	-5.83	155.51	104.59	-40.5
28	-6.42	214.45	95.41	-33.0
29	-6.42	214.45	95.41	-33.0
29	-7.00	264.59	74.68	-26.2
30	-7.00	264.59	74.65	-26.2
30	-7.60	301.31	47.42	-19.9
31	-7.60	301.31	47.41	-19.9
31	-7.83	310.67	33.82	-17.8
32	-7.83	310.67	33.82	-17.8
32	-8.20	319.01	11.26	-14.5
33	-8.20	319.01	11.26	-14.5
33	-8.50	**319.63**	-7.14	-12.2
34	-8.50	**319.63**	-7.15	-12.2
34	-8.88	313.87	-23.30	-9.5
35	-8.88	313.87	-23.30	-9.5
35	-9.00	310.77	-28.32	-8.7
36	-9.00	310.77	-28.32	-8.7
36	-9.38	297.26	-42.28	-6.5
37	-9.38	297.26	-42.28	-6.5
37	-9.39	296.84	-42.61	-6.5
38	-9.39	296.84	-42.61	-6.5
38	-9.50	291.96	-46.13	-5.9
39	-9.50	291.96	-46.13	-5.9
39	-9.79	277.34	-54.48	-4.6
40	-9.79	277.34	-54.49	-4.6
40	-9.88	272.33	-56.83	-4.2
41	-9.88	272.33	-56.83	-4.2
41	-9.89	271.76	-57.08	-4.1
42	-9.89	271.76	-57.08	-4.1
42	-10.29	247.08	-65.68	-2.6
43	-10.29	247.08	-65.67	-2.6
43	-10.38	241.10	-67.05	-2.4
44	-10.38	241.10	-67.05	-2.4
44	-10.39	240.43	-67.19	-2.3
45	-10.39	240.43	-67.19	-2.3
45	-10.80	211.97	-71.03	-1.2
46	-10.80	211.98	-71.03	-1.2
46	-10.83	209.84	-71.18	-1.1
47	-10.83	209.84	-71.18	-1.1
47	-11.29	176.87	-71.63	-0.2
48	-11.29	176.87	-71.63	-0.2
48	-11.38	170.44	-71.37	-0.1

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-11.38	170.44	-71.37	-0.1
49	-11.39	169.72	-71.34	-0.1
50	-11.39	169.72	-71.34	-0.1
50	-11.50	161.90	-70.89	0.1
51	-11.50	161.90	-70.89	0.1
51	-11.89	134.70	-68.39	0.5
52	-11.89	134.70	-68.39	0.5
52	-12.29	108.04	-64.78	0.8
53	-12.29	108.04	-64.78	0.8
53	-12.38	102.25	-63.87	0.8
54	-12.38	102.25	-63.87	0.8
54	-12.39	101.61	-63.77	0.8
55	-12.39	101.61	-63.77	0.8
55	-12.50	94.66	-62.62	0.9
56	-12.50	94.66	-62.62	0.9
56	-12.79	76.95	-59.50	0.9
57	-12.79	76.95	-59.50	0.9
57	-13.00	64.69	-57.19	1.0
58	-13.00	64.69	-57.19	1.0
58	-13.20	53.86	-51.15	1.0
59	-13.20	53.86	-51.15	1.0
59	-13.33	47.46	-47.28	0.9
60	-13.33	47.46	-47.27	0.9
60	-14.06	20.45	-27.37	0.8
61	-14.06	20.45	-27.36	0.8
61	-14.79	6.31	-12.32	0.5
62	-14.79	6.31	-12.31	0.5
62	-14.88	5.26	-10.86	0.5
63	-14.88	5.26	-10.86	0.5
63	-15.00	4.07	-9.07	0.4
64	-15.00	4.07	-9.07	0.4
64	-15.39	1.49	-4.42	0.2
65	-15.39	1.49	-4.42	0.2
65	-15.50	1.06	-3.43	0.2
66	-15.50	1.06	-3.43	0.2
66	-15.79	0.37	-1.51	0.1
67	-15.79	0.37	-1.51	0.1
67	-15.83	0.31	-1.33	0.1
68	-15.83	0.31	-1.33	0.1
68	-15.89	0.24	-1.08	0.0
69	-15.89	0.24	-1.08	0.0
69	-16.00	0.14	-0.75	0.0
70	-16.00	0.14	-0.75	0.0
70	-16.29	0.02	-0.18	-0.1
71	-16.29	0.02	-0.18	-0.1
71	-16.33	0.01	-0.13	-0.1
72	-16.33	0.01	-0.13	-0.1
72	-16.39	0.00	-0.07	-0.2
73	-16.39	0.00	-0.07	-0.2
73	-16.50	0.00	0.00	-0.2
Max		**319.63**	**105.81**	**-130.9**
Max incl. tussenknopen		320.04	105.81	-130.9

15.7.3 Grafieken van Spanningen



15.7.4 Spanningen

Knoop nummer	Niveau	Links				Rechts			
	[m]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]	Eff. spanning [kN/m²]	Water span. [kN/m²]	Stat*	Mob* [%]
1	0.50	0.00	0.00	-		0.00	0.00	-	
1	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
2	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
3	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
4	0.00	0.00	0.00	-		0.00	0.00	-	
5	0.00	0.00	0.00	-		0.00	0.00	-	
5	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.10	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.20	0.00	0.00	-		0.00	0.98	-	
7	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.33	0.00	0.00	-		0.00	2.26	-	
8	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.40	0.00	0.00	-		0.00	2.94	-	
9	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-0.60	0.00	1.96	-		0.00	4.91	-	
10	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.33	0.00	9.12	-		0.00	12.07	-	
11	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.50	0.00	10.79	-		0.00	13.73	-	
12	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.60	0.00	11.77	-		0.00	14.71	-	
13	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-1.83	0.00	14.03	-		0.00	16.97	-	
14	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.00	0.00	15.70	-		0.00	18.64	-	
15	-2.15	0.00	17.17	-		0.00	20.11	-	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
16	-2.15	0.00	17.17	-		0.00	20.11	-	
16	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.20	0.00	17.66	-		0.00	20.60	-	
17	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.33	0.00	18.93	-		0.00	21.88	-	
18	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-2.60	0.00	21.58	-		0.00	24.52	-	
19	-3.00	0.00	25.51	-		0.00	28.45	-	
20	-3.00	0.00	25.51	P		0.00	28.45	A	
20	-3.20	13.40	27.47	P		17.85	30.41	A	
21	-3.20	6.14	27.47	P		11.17	46.16	A	
21	-3.60	6.54	31.39	P		16.90	50.09	1	
22	-3.60	6.62	31.39	P		17.84	50.09	1	
22	-4.21	7.57	37.43	P		16.09	56.12	A	
23	-4.21	7.69	37.43	P		16.14	56.12	A	
23	-4.83	8.74	43.46	P		16.52	62.15	A	
24	-4.83	8.82	43.46	P		16.55	62.15	A	
24	-5.00	9.11	45.13	P		16.66	63.82	A	
25	-5.00	9.16	45.13	P		16.68	63.82	A	
25	-5.33	9.74	48.36	P		54.85	67.06	A	92
26	-5.33	9.80	48.36	P		53.97	67.06	A	91
26	-5.60	9.66	51.01	P		47.16	69.70	A	79
27	-5.60	50.19	51.01	P		46.27	53.95	A	10
27	-5.83	43.52	53.27	P		33.80	56.21	A	7
28	-5.83	44.33	53.27	P		33.47	56.21	A	7
28	-6.42	54.47	59.01	3	93	28.03	61.95	A	
29	-6.42	55.70	59.01	3	92	23.79	61.95	A	
29	-7.00	63.72	64.75	3	83	19.14	67.69	A	
30	-7.00	64.99	64.75	3	83	19.21	67.69	A	
30	-7.60	67.69	70.63	2	73	19.89	73.58	A	
31	-7.60	80.38	70.63	3	82	20.95	73.58	A	
31	-7.83	85.29	72.89	2	78	21.58	75.83	A	
32	-7.83	86.01	72.89	2	78	21.68	75.83	A	
32	-8.20	86.29	76.52	2	67	22.70	79.46	A	
33	-8.20	87.10	76.52	2	66	22.80	79.46	A	
33	-8.50	88.31	79.46	2	60	23.68	82.40	A	
34	-8.50	68.48	79.46	2	53	24.19	82.40	A	
34	-8.88	70.79	82.34	1	50	24.81	85.29	A	
35	-8.88	71.04	82.34	1	49	24.87	85.29	A	
35	-9.00	68.50	83.25	1	46	25.04	86.20	A	
36	-9.00	68.75	83.25	1	46	25.10	86.20	A	
36	-9.38	61.61	86.14	1	38	25.69	89.08	A	
37	-9.38	61.80	86.14	1	38	25.47	89.08	A	
37	-9.39	61.63	86.21	1	38	26.01	89.16	A	
38	-9.39	61.68	86.21	1	38	25.72	89.16	A	
38	-9.50	59.88	87.05	1	36	25.93	89.99	A	
39	-9.50	60.07	87.05	1	36	25.93	89.99	A	
39	-9.79	55.85	89.25	1	31	26.36	92.19	A	
40	-9.79	56.02	89.25	1	31	26.45	92.19	A	
40	-9.88	54.86	89.93	1	30	26.52	92.88	A	
41	-9.88	54.90	89.93	1	30	27.01	92.88	A	
41	-9.89	54.78	90.01	1	30	26.66	92.95	A	
42	-9.89	54.96	90.01	1	30	26.59	92.95	A	
42	-10.29	50.67	93.04	1	26	31.40	95.99	1	
43	-10.29	50.87	93.04	1	26	31.50	95.99	1	
43	-10.38	50.08	93.73	1	25	33.00	96.67	1	
44	-10.38	50.13	93.73	1	25	33.02	96.67	1	
44	-10.39	50.04	93.80	1	25	33.18	96.74	1	
45	-10.39	50.22	93.80	1	25	33.27	96.74	1	
45	-10.80	47.41	96.91	1	22	39.33	99.86	1	
46	-10.80	47.59	96.91	1	22	39.43	99.86	1	
46	-10.83	47.43	97.14	1	22	39.82	100.08	1	
47	-10.83	47.63	97.14	1	22	39.92	100.08	1	
47	-11.29	45.89	100.63	1	19	45.33	103.57	1	

Knoop nummer	Niveau	Links				Rechts			
		Eff. spanning	Water span.	Stat*	Mob*	Eff. spanning	Water span.	Stat*	Mob*
	[m]	[kN/m²]	[kN/m²]		[%]	[kN/m²]	[kN/m²]		[%]
48	-11.29	46.11	100.63	1	19	45.44	103.57	1	
48	-11.38	45.91	101.31	1	19	46.36	104.26	1	
49	-11.38	45.95	101.31	1	19	46.38	104.26	1	
49	-11.39	45.94	101.39	1	19	46.48	104.33	1	
50	-11.39	45.98	101.39	1	19	46.50	104.33	1	
50	-11.50	45.81	102.22	1		47.55	105.17	1	12
51	-11.50	46.00	102.22	1		47.66	105.17	1	12
51	-11.89	45.87	105.18	1		50.92	108.13	1	12
52	-11.89	46.17	105.18	1		51.08	108.13	1	12
52	-12.29	46.71	108.22	1		53.76	111.16	1	12
53	-12.29	46.89	108.22	1		53.86	111.16	1	12
53	-12.38	47.09	108.90	1		54.39	111.84	1	12
54	-12.38	47.13	108.90	1		54.41	111.84	1	12
54	-12.39	47.15	108.98	1		54.47	111.92	1	12
55	-12.39	47.20	108.98	1		54.49	111.92	1	12
55	-12.50	47.48	109.81	1		55.09	112.76	1	12
56	-12.50	47.63	109.81	1		55.18	112.76	1	12
56	-12.79	48.55	112.01	1		56.60	114.96	1	12
57	-12.79	48.73	112.01	1		56.70	114.96	1	12
57	-13.00	49.41	113.61	1		57.53	116.55	1	12
58	-13.00	39.94	113.61	1		67.25	116.55	1	11
58	-13.20	37.34	115.57	1		64.43	118.51	1	10
59	-13.20	37.46	115.57	1		64.50	118.51	1	10
59	-13.33	38.21	116.84	1		64.84	119.79	1	10
60	-13.33	38.53	116.84	1		65.04	119.79	1	10
60	-14.06	44.08	124.00	1		65.60	126.95	1	10
61	-14.06	44.61	124.00	1		65.93	126.95	1	10
61	-14.79	51.44	131.17	1		65.23	134.11	1	9
62	-14.79	51.73	131.17	1		65.41	134.11	1	9
62	-14.88	52.62	132.05	1		65.29	134.99	1	9
63	-14.88	52.69	132.05	1		65.33	134.99	1	9
63	-15.00	53.87	133.23	1		65.16	136.17	1	9
64	-15.00	54.05	133.23	1		65.28	136.17	1	9
64	-15.39	57.94	137.05	1		64.68	139.99	1	8
65	-15.39	58.11	137.05	1		64.79	139.99	1	8
65	-15.50	59.21	138.13	1		64.62	141.07	1	8
66	-15.50	59.35	138.13	1		64.71	141.07	1	8
66	-15.79	62.26	140.98	1		64.25	143.92	1	8
67	-15.79	62.37	140.98	1		64.32	143.92	1	8
67	-15.83	62.78	141.37	1		64.26	144.31	1	8
68	-15.83	62.81	141.37	1		64.28	144.31	1	8
68	-15.89	63.41	141.96	1		64.18	144.90	1	8
69	-15.89	63.47	141.96	1		64.22	144.90	1	8
69	-16.00	64.62	143.04	1	12	64.08	145.98	1	
70	-16.00	64.64	143.04	1	19	64.23	145.98	1	
70	-16.29	77.62	145.88	1	22	76.02	148.82	1	
71	-16.29	77.71	145.88	1	22	76.09	148.82	1	
71	-16.33	77.94	146.27	1	22	76.15	149.22	1	
72	-16.33	77.97	146.27	1	22	76.17	149.22	1	
72	-16.39	78.31	146.86	1	22	76.27	149.80	1	
73	-16.39	78.36	146.86	1	22	76.30	149.80	1	
73	-16.50	78.94	147.94	1	22	76.44	150.88	1	

*

Stat Status (A=actief, P=passief, Nummer is tak, 0 is ontlasting)
Mob Percentage passief gemobiliseerd

15.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links	Rechts
	[kN]	[kN]
Effectief	638.3	552.7
Water	1213.9	1299.5
Totaal	1852.2	1852.2

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2814.08 kN
Gemobiliseerde passieve eff. weerstand	638.25 kN
Percentage gemobiliseerde weerstand	22.7 %

Einde Rapport