Memo

[redacted]

Aan	Gemeente Amsterdam, [redacted]
Van	[redacted]
Gecontroleerd	
Telefoon	
Kenmerk	D90-AST-KA-1702428
Projectnummer	RM005528RM005528
Onderwerp	
Datum	7 november 2017

Inleiding
Bijgaand het geotechnisch advies inzake het herstel van de kademuur nabij de Marnixstraat. Het herstel zal bestaan uit het plaatsen van een onverankerde damwandconstructie in de gracht op 3 m uit de kade. De ruimte tussen de kade en de damwand zal worden opgevuld met zand. De constructie dient een aantal jaar in dienst te blijven.

Bodemonderzoek
Ter plaatse is er beperkt onderzoek beschikbaar. Sondering 1 is ter plaatse gemaakt door [redacted]. Vanuit [redacted] loket zijn er enkele sonderingen en boringen beschikbaar. In onderstaand figuur zijn de locaties gegeven.



De in de figuur aangegeven sonderingen en boringen zijn als bijlage toegevoegd. Het betreft de sonderingen 1 / 508 / 54554 / 3178 / 3179 / 2385 en 2384 alsmede de boringen 2605 en 2606.

Memo

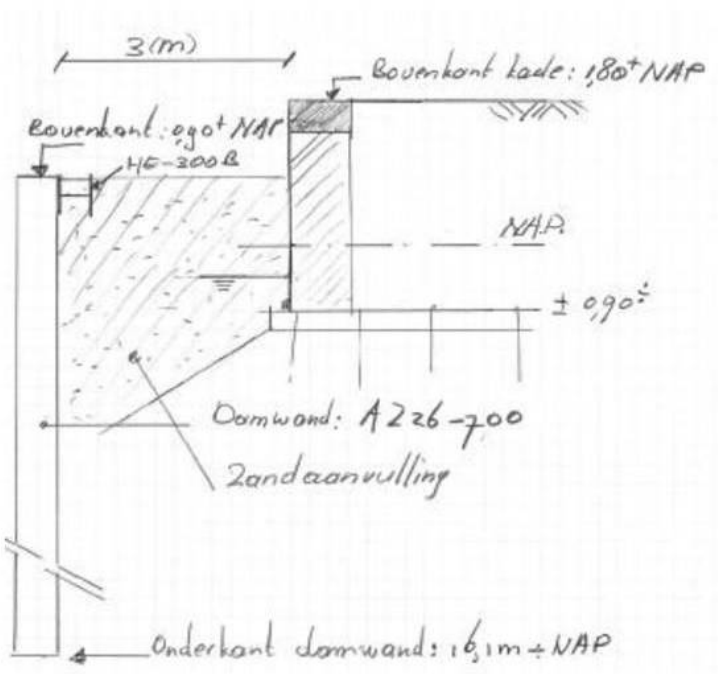
Kenmerk D90-AST-KA-1702428

Gegevens

Bij de berekening van de stalen damwand zijn de volgende gegevens gehanteerd (zie ook figuur 1):

- Bovenkant kade is aangehouden op NAP+1,8 m. Deze maat is afgeleid uit AHN2 gegevens;
- Bodemniveau van de gracht: In de berekening is NAP-3,0 m aangehouden. De diepte volgens het baggerprofiel is NAP-2,2 m. De onnauwkeurigheid bij baggeren is 0,5 m en in verband met scheepgang is nog eens 0,3 m dieper aangehouden (Opgemerkt wordt dat er vanwege deze conservatieve aanname in de D-Sheet berekening geen rekening meer is gehouden met een extra ontgraving aan de passieve zijde (grachtzijde));
- Het waterpeil in de gracht is NAP-0,4 m. De grondwaterstand achter de damwand is aangehouden op maximaal NAP-0,2 m. Vanwege de drainerende werking van het nog aan te brengen zand is de verwachting dat dit een conservatieve aanname is;
- Afstand tram en verkeer op 5 m afstand tot de damwandkering (damwand op 3 m uit kademuur);
- Damwandtype AZ26-700, lengte 17,0 m;
- Bovenkant damwand op NAP+0,9 m en onderkant op NAP-16,1 m;
- Tram- en verkeerbelasting is 20 kN/m^2 (representatieve waarde);
- Veiligheidsniveau RC2;
- Geen corrosietoeslag toegepast vanwege tijdelijk karakter;
- Achter damwand gerekend met 22,5 kN/m2 wateroverspanning in de IJ-klei laag als gevolg van aanbrengen zand tussen kade en damwand. Dit is ongeveer 50% van het totale gewicht dat wordt aangebracht (ca. 4 m zand).

Figuur 1, geometrie:



Memo

Kenmerk D90-AST-KA-1702428

Bodemopbouw

De voor dit project uitgevoerde sondering 1 [redacted] is gebruikt. Het resultaat is goed vergelijkbaar met de gegevens uit het [redacted]. Bij het bepalen van de grondparameters is gebruik gemaakt van NEN9997-1 tabel 2b in combinatie met grondparameters welke binnen [redacted] zijn gebruikt voor de aanleg NZ lijn en passage Amsterdam CS. De laagindeling en grondparameters zijn in volgende tabel gegeven.

Diepte	Grondsoort	$\Upsilon_{d;n}$	c'	Φ'	δ	k_{h1}	k_{h2}	k_{h3}
[NAP-..m]		[kN/m^3]	[kN/m^2]	[°]	[°]	[kN/m^3]	[kN/m^3]	[kN/m^3]
+1,8 /– 2,0	Aanvulzand	17,5/19,5	0	30,0	20,0	6.000	3.000	1.500
-2,0 / -5,0	IJ-klei	13,5/13,5	3	18,0	9,0	2.000	1.000	500
-5,0 / -8,2	Klei, zandig	16,5/16,5	3	27,5	18,0	5.000	2.500	1.250
-8,2 / -10,8	Zand, kleiig	18,0/20,0	0	30,0	20,0	8.000	4.000	2.000
-10,8 / -13,2	Klei	16,5/16,5	3	26,5	17,6	4.000	2.000	1.000
-13,2 / -16,0	Zand, 1e laag	18,0/20,0	0	30,0	20,0	16.000	8.000	4.000
-16,0 / -18,0	Klei	17,0/17,0	5	22,5	15,0	5.000	2.500	1.250
-18,0 / -21,0	Zand, 2e laag	18,0/20,0	0	32,5	21,6	18.000	9.000	4.500

Resultaten

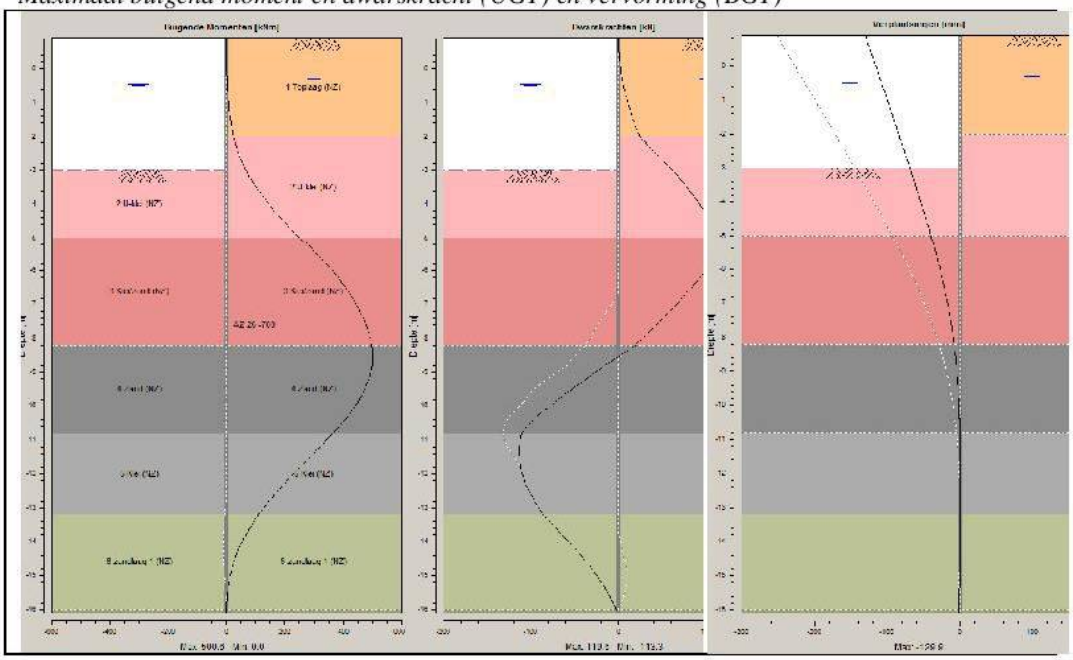
Met behulp van D-Sheet piling zijn damwandberekeningen uitgevoerd voor een stalen damwand type AZ26-700 met een lengte van 17 m.

- A.g.v. aanvullen met zand bedraagt vervorming 61 mm;
- A.g.v. hogere grondwaterstand en wateroverspanning vervormt damwand naar 112 mm;
- A.g.v. verkeersbelasting gaat vervorming naar 130 mm;
- Maximaal moment bedraagt 500 kNm/m'.

Kenmerk D90-AST-KA-1702428

In onderstaand figuur is de momentenlijn alsmede vervormingslijn gegeven in de gebruiksfase. De uitvoer van de berekening is als bijlage toegevoegd.

Maximaal buigend moment en dwarskracht (UGT) en vervorming (BGT)



Ons inziens is dit acceptabel. Indien minder vervorming gewenst is wordt geadviseerd om in de kassen van de damwand HE-A of B profielen (verticaal) te plaatsen en vast te lassen aan de damwand.

Aanbeveling

Bij het aanvullen met zand tussen damwand en kademuur en achter de kademuur is het nodig dat het zand voor en achter de kademuur geleidelijk wordt aangebracht zodat er geen asymmetrische belasting ontstaat op de kademuur. Het zand dient goed verdicht te worden in verband met de stempelfunctie tussen kademuur en damwand.

Memo

Kenmerk D90-AST-KA-1702428

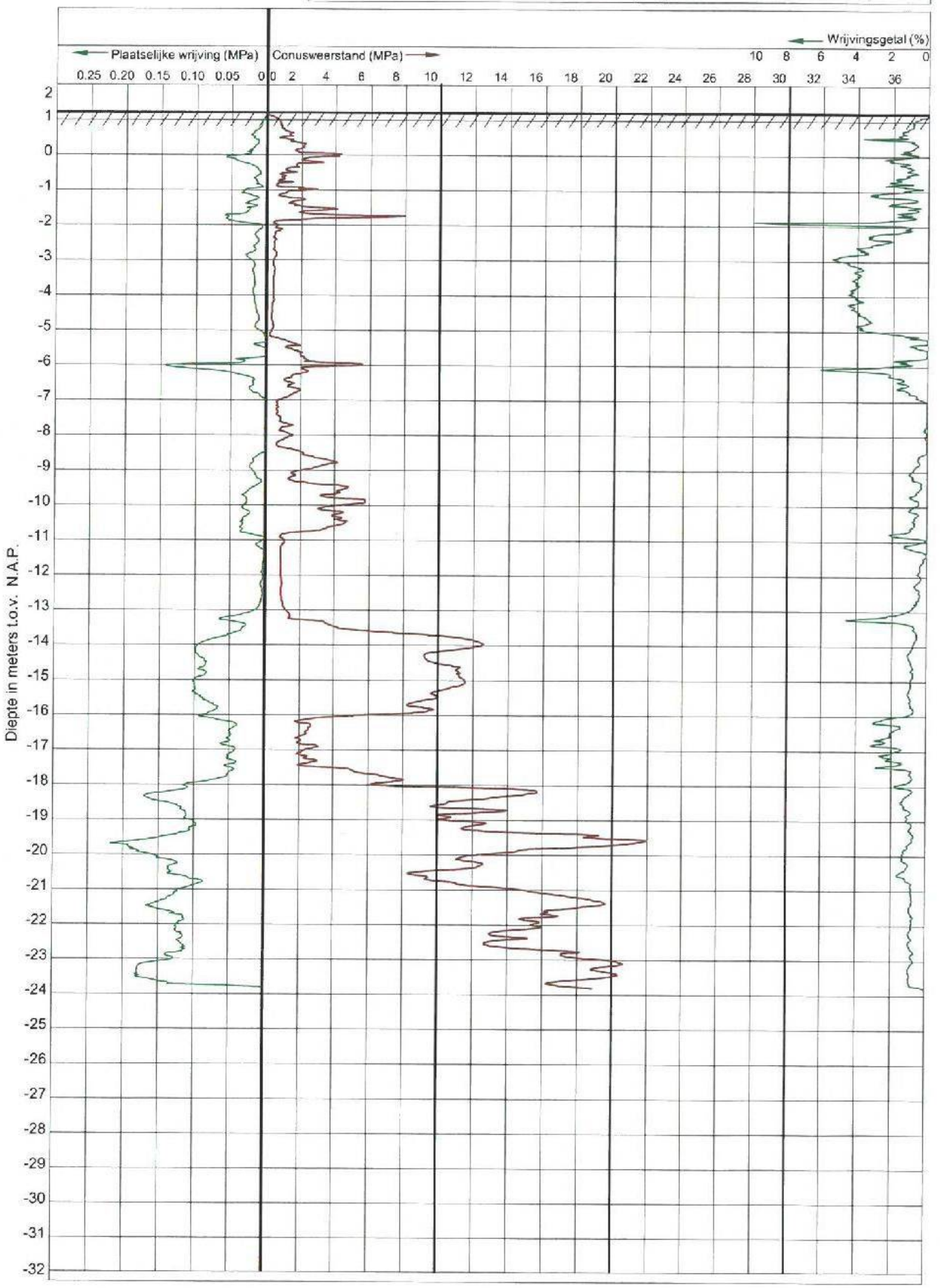
Technische risico's.
In onderstaande tabel zijn enkele risico's en aandachtspunten weergegeven.

Risico	Oorzaak	Gevolg	Maatregel
Kabels&leidingen			
Bezwijken waterleiding	Verzakking omliggende grond als gevolg van onvoldoende verdichting	Beschadiging, verzakking, zand in de leiding	Inspecteren en inmeten leiding. Aanvullen zand conform eisen Waternet onder de leiding. Geen zwaardere aanvulling toepassen. Originele situatie is zand.
Beschadigen kruisende leiding tbv straatverlichting	Inbrengen damwand	Beschadiging, uitval straatverlichting	Locatie leiding fysiek opzoeken. Damwanden staffelen of omheen zetten
Bezwijken gasleiding	Trillingen	Breuk gasleiding	Geen, locatie gasleiding is ver genoeg van de locatie van de sinkhole.
Belendingen			
Beschadiging Texaco	Trillingen	Brandstoflek, scheuren e.d.	Geen, locatie Texaco is ver genoeg van de locatie van de sinkhole.
Beschadiging brug/kades	Trillingen	Schade Bezwijken bruggen/kades	Monitoring (verplaatsingsmetingen) brug en de kades

Bijlagen: Bodemonderzoek en uitvoer D-Sheetpiling

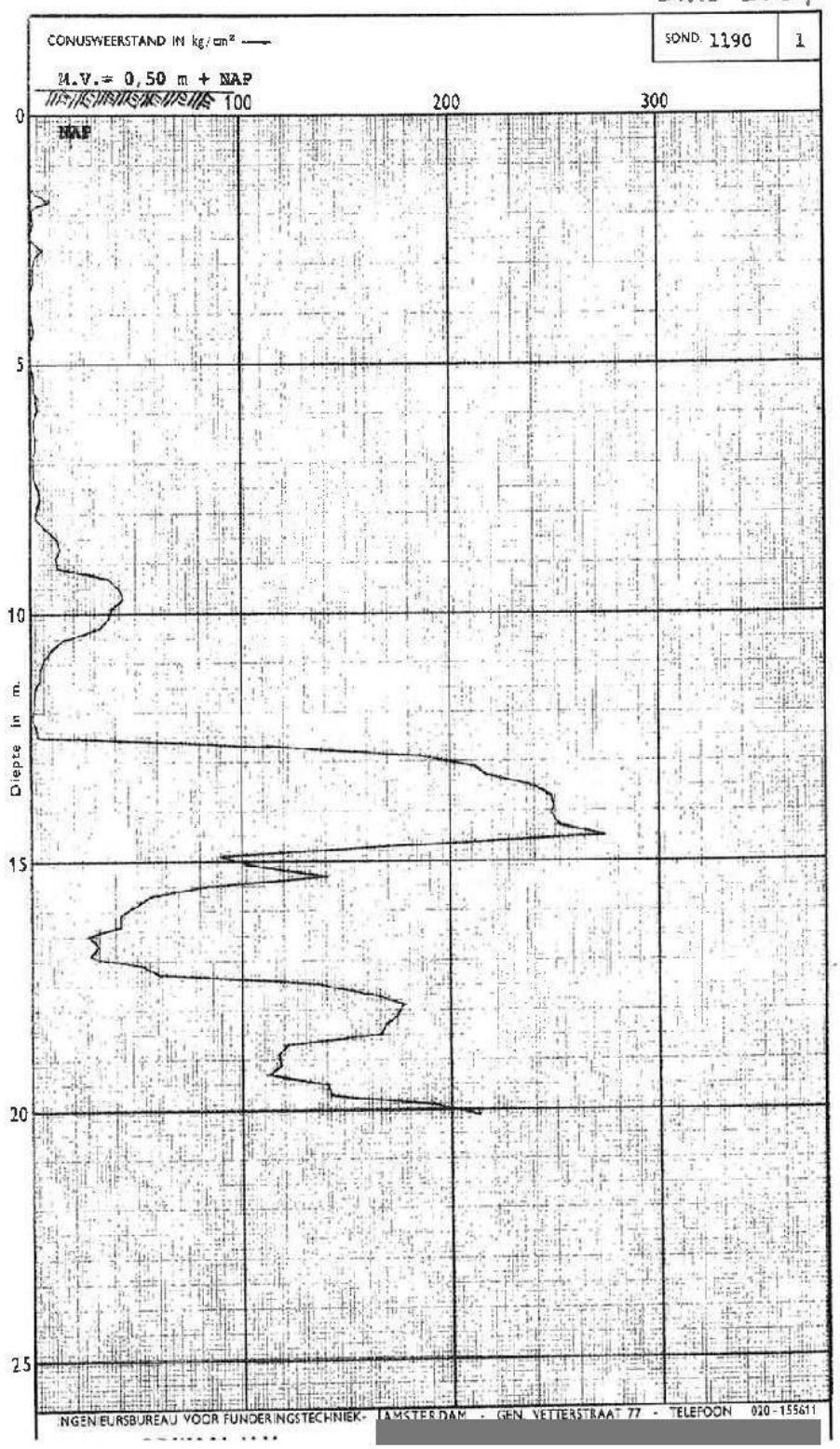
[redacted]

Werknummer	: 1719801	Plaats	: Amsterdam
Sonderingnr.	: 1	Locatie	: Marnixstraat 250
Datum	: 1-11-2017	Conustype	: S15-CFI.1621
Maaiveld:	: 1.173m. t.o.v. N.A.P.	Opdrachtgever	: [redacted]
RD-coördinaten	: X: 120270 Y: 487034	Sondering volgens NEN-EN-ISO 22476-1 klasse 2	



AMSTERDAM Laurierstraat 197

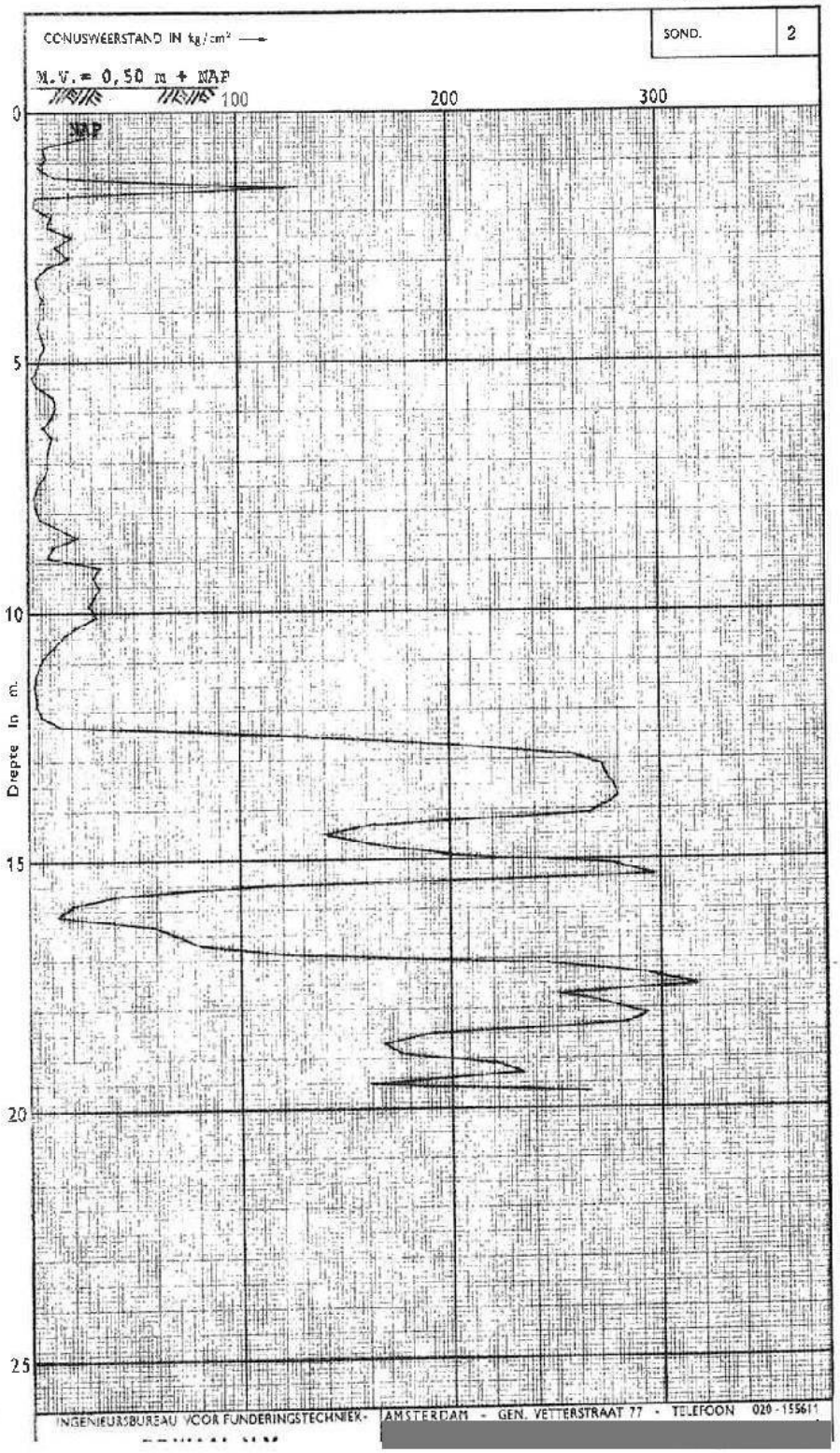
Diho 2384



INGENIEURSBUREAU VOOR FUNDERINGSTECHNIEK - AMSTERDAM - GEN. VETTERSTRAAT 77 - TELEFOON 020-155611

AMSTERDAM Laurierstraat 107

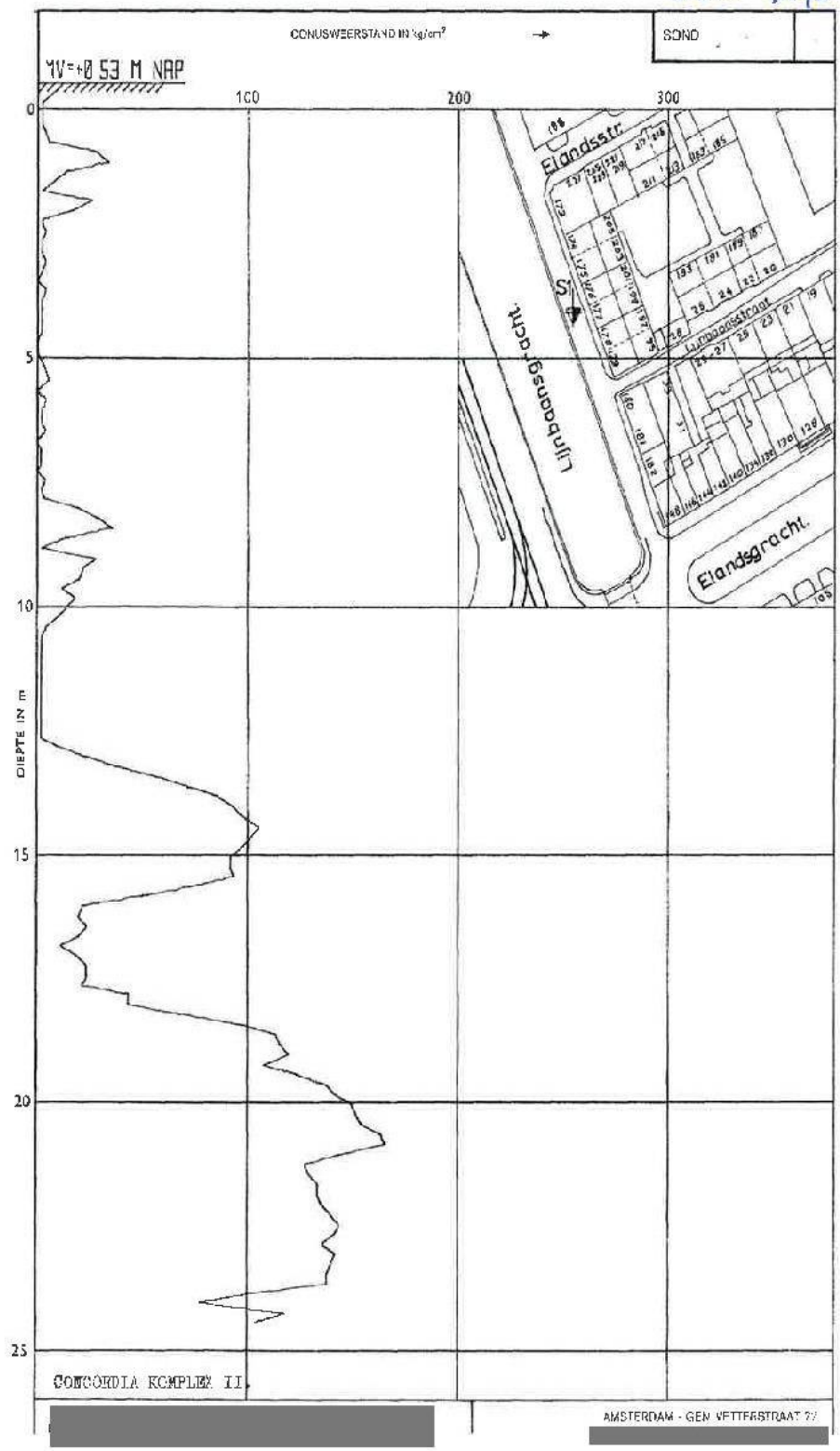
Dino 2385



[redacted]

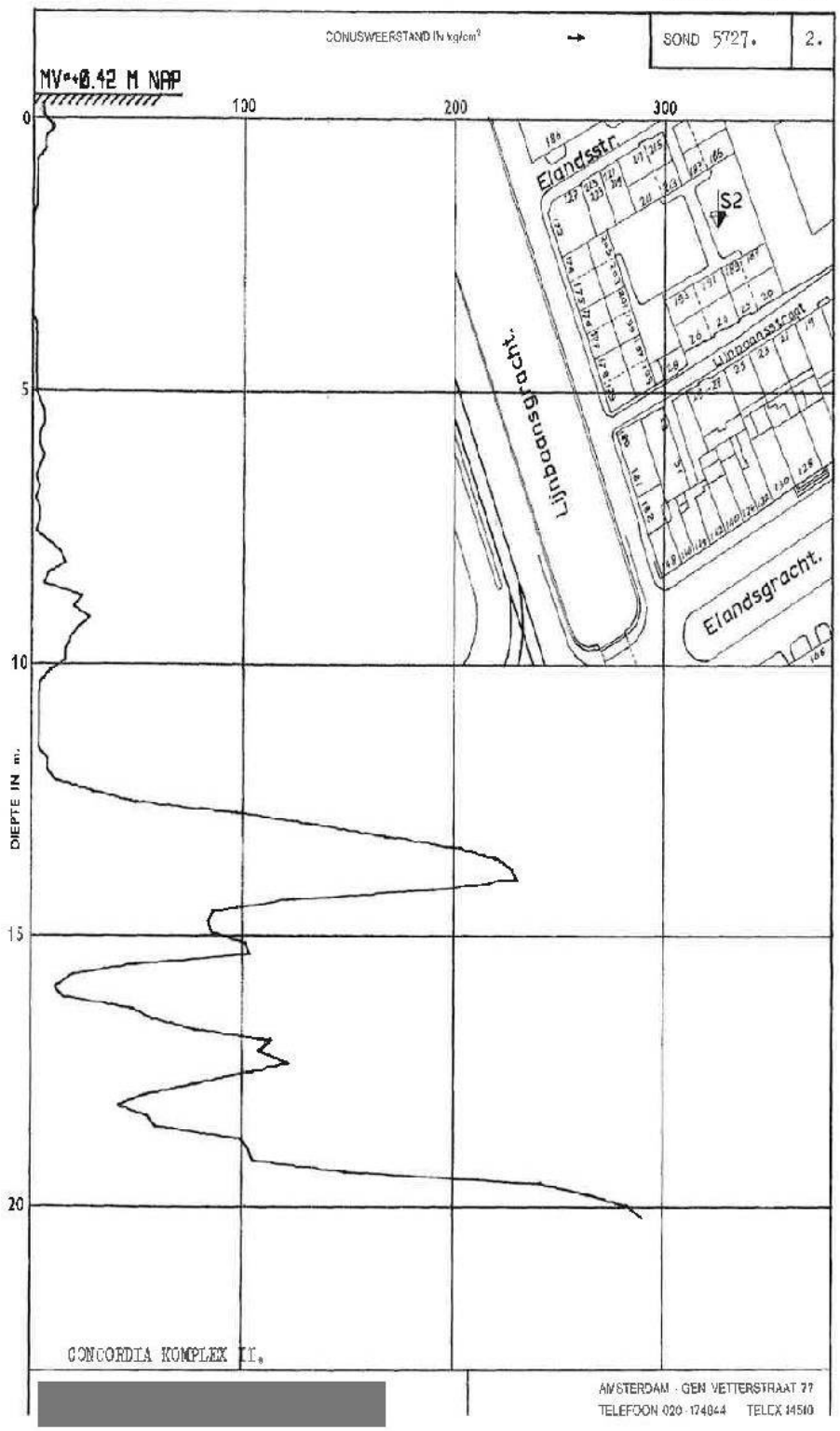
AMSTERDAM [illegible]

Dino 3178

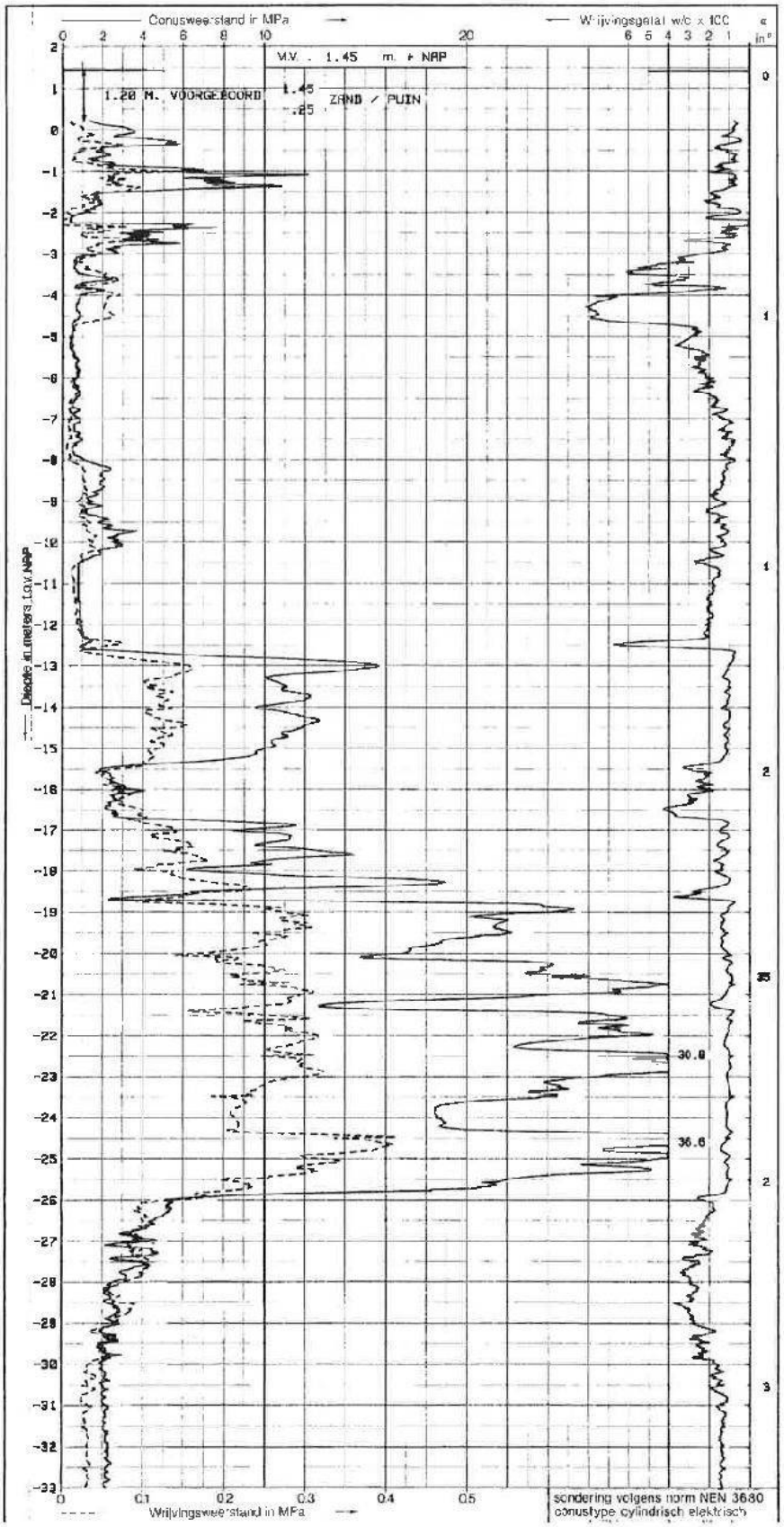


AMSTERDAM, Lijnbaansstraat, 84 & 86

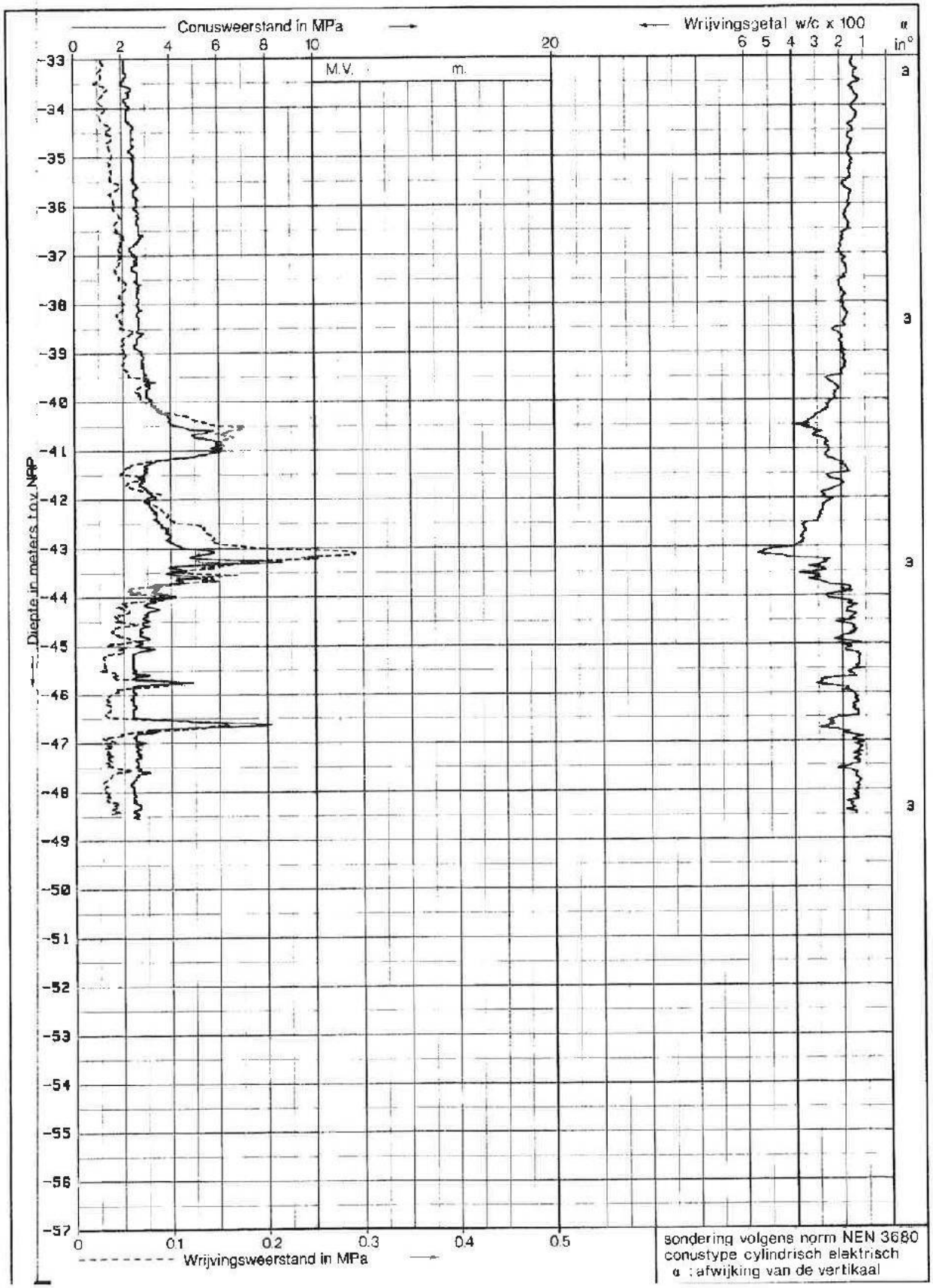
Dino 3179



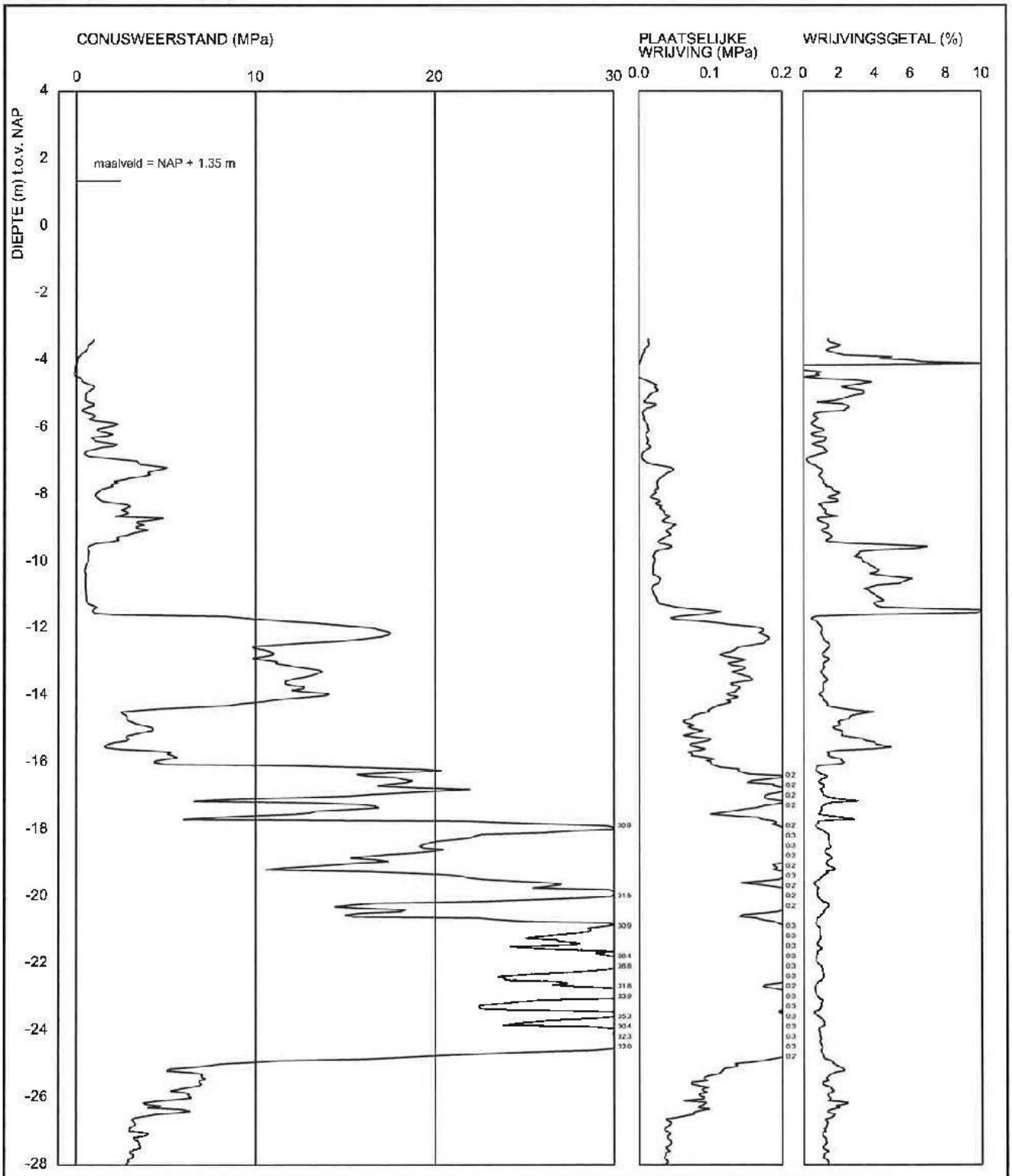
Dino 508 - 1


Conusweerstand in MPa
Wrijvingsgetal w/c x 100
α
in°
M.V. . 1.45 m. + NAP
1.20 M. VOORGEBOORD
1.45
-.25
ZAND / PUIN
Diepte in meters t.o.v. NAP
30.8
36.6
Wrijvingsweerstand in MPa
sondering volgens norm NEN 3680
conustype cylindrisch elektrisch

Dino 508-2

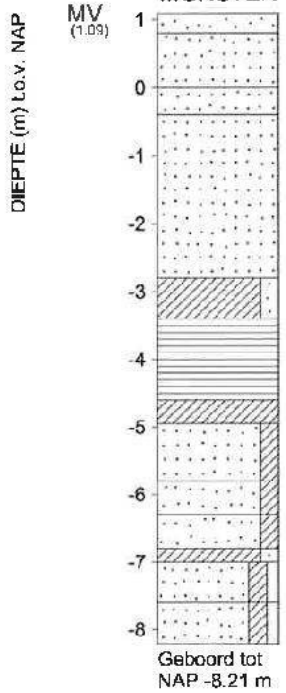

Conusweerstand in MPa
0 2 4 6 8 10 20
Wrijvingsgetal w/c x 100
6 5 4 3 2 1
α in°
M.V.
m.
-33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -47 -48 -49 -50 -51 -52 -53 -54 -55 -56 -57
Diepte in meters t.o.v. NAP
0 0.1 0.2 0.3 0.4 0.5
Wrijvingsweerstand in MPa
sondering volgens norm NEN 3680
conustype cylindrisch elektrisch
α : afwijking van de vertikaal

Dino 54554



Telefoon Telefax	datum 1994-03-14	get. -
- -	BRO-/	gsz.
Sondering CPT000000054554 [Blad 1 / 2]	BIJL. -	form. A4

Dino 2605



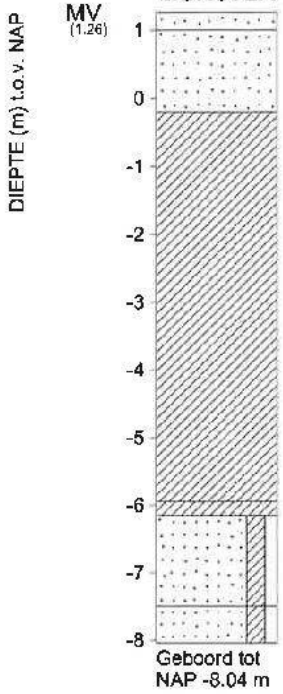
	DIEPTE NAP [m]		
LAAG	VAN	TOT	BESCHRIJVING
1	1.09	0.80	zand; bruin-, geel 'ZFC'
2	0.80	0.00	zand; bruin-, geel 'ZFC'
3	0.00	-0.40	zand; bruin 'ZFC'
4	-0.40	-2.80	zand; grijs 'ZFC'
5	-2.80	-3.40	KZ=???; bruin-, zwart 'KMST'
6	-3.40	-4.20	veen; zwart 'VMSL'
7	-4.20	-4.60	veen; donker-, bruin 'VMST'
8	-4.60	-4.95	klei; grijs 'KSLA'
9	-4.95	-5.80	zand, kleiig; grijs 'ZFC'
10	-5.80	-6.30	zand, kleiig; grijs 'ZFC'
11	-6.30	-6.80	zand, kleiig; grijs 'ZFC'
12	-6.80	-7.00	KZ=???; grijs 'ZFC'
13	-7.00	-7.60	ZK1=???; grijs 'ZFC'
14	-7.60	-8.21	ZK1=???; grijs 'ZFC'

Einde Boring B25G2605

maaiveld: NAP 1.09 m
X = 120178 m Y = 487111 m (RD)

Telefoon Telefax	datum 1957-12-09	gek.
-	DINO-BOR	dat.
-	BIJL.	form. A4

Dino 2606



MONSTER	LAAG		DIEPTE NAP [m] VAN	TOT	BESCHRIJVING
	1	1	1.26	1.00	zand; bruin 'ZMC'
	2	2	1.00	-0.20	zand; bruin 'ZMC'
	3	3	-0.20	-5.95	klei; grijs-, bruin 'KMSL'
	4	4	-5.95	-6.15	klei; grijs 'KSLA'
	5	5	-6.15	-7.50	ZK1=???; grijs 'ZFC'
	6	6	-7.50	-8.04	ZK1=???; grijs 'ZFC'
					Einde Boring B25G2606

maaiveld: NAP 1.26 m
X = 120186 m Y = 487077 m (RD)

Telefoon Telefax	datum 1957-12-09	gec.
-	DINO-BOR	gez.
-	BIJL.	form. A4

Rapport voor D-Sheet Piling 16.1

Ontwerp van Diepwanden en Damwanden
Ontwikkeld door Deltares

Datum van rapport:	11/6/2017
Tijd van rapport:	5:08:08 PM
Datum van berekening:	11/6/2017
Tijd van berekening:	4:51:28 PM
Bestandsnaam:	P:\..\Asd Marnixstraat - doorsnede t p v leidingbreuk 01V4 (NZ) 04 - 6nov2017
Projectbeschrijving:	Doorsnede t.p.v. leidingbreuk Kademuur Amsterdam Marnixstraat

Verificatie volgens NEN-EN 9997+C1:2012

1 Inhoudsopgave

1 Inhoudsopgave 2
2 Overzicht 7
2.1 Overzicht per Fase en Toets 7
2.2 Waarschuwingen 7
2.3 CUR Verificatie Stappen 8
3 Invoergegevens voor alle Bouwfasen 9
3.1 Algemene Invoergegevens 9
3.2 Damwandeigenschappen 9
3.2.1 Algemene eigenschappen 9
3.2.2 Stijfheid EI (elastisch gedrag) 9
3.2.3 Maximale toelaatbare momenten 9
3.3 Rekenopties 9
4 Overzicht Fase 1: Fase 1: Na schade kadeconstructie 11
5 Stap 6.3 Fase 1: Fase 1: Na schade kadeconstructie 12
5.1 Invoergegevens Links 12
5.1.1 Berekeningsmethode 12
5.1.2 Waterniveau 12
5.1.3 Maaiveld 12
5.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 12
5.1.5 Beddingsconstanten (Secant) 13
5.2 Berekende Gronddrukcoëfficiënten Links 13
5.3 Berekende kracht uit een laag Links 17
5.4 Invoergegevens Rechts 18
5.4.1 Berekeningsmethode 18
5.4.2 Waterniveau 18
5.4.3 Maaiveld 18
5.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 18
5.4.5 Beddingsconstanten (Secant) 19
5.5 Berekende Gronddrukcoëfficiënten Rechts 19
5.6 Berekende kracht uit een laag Rechts 23
5.7 Berekeningsresultaten 24
5.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 24
5.7.2 Momenten, Krachten en Verplaatsingen 24
5.7.3 Grafieken van Spanningen 26
5.7.4 Spanningen 27
5.7.5 Percentage gemobiliseerde weerstand 29
6 Stap 6.4 Fase 1: Fase 1: Na schade kadeconstructie 30
6.1 Invoergegevens Links 30
6.1.1 Berekeningsmethode 30
6.1.2 Waterniveau 30
6.1.3 Maaiveld 30
6.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 30
6.1.5 Beddingsconstanten (Secant) 31
6.2 Berekende Gronddrukcoëfficiënten Links 31
6.3 Berekende kracht uit een laag Links 35
6.4 Invoergegevens Rechts 36
6.4.1 Berekeningsmethode 36
6.4.2 Waterniveau 36
6.4.3 Maaiveld 36
6.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 36
6.4.5 Beddingsconstanten (Secant) 37
6.5 Berekende Gronddrukcoëfficiënten Rechts 37
6.6 Berekende kracht uit een laag Rechts 41
6.7 Berekeningsresultaten 42
6.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 42
6.7.2 Momenten, Krachten en Verplaatsingen 42
6.7.3 Grafieken van Spanningen 44
6.7.4 Spanningen 45
6.7.5 Percentage gemobiliseerde weerstand 47
7 Stap 6.5 Fase 1: Fase 1: Na schade kadeconstructie 48
7.1 Invoergegevens Links 48
7.1.1 Berekeningsmethode 48
7.1.2 Waterniveau 48
7.1.3 Maaiveld 48

7.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 48
7.1.5 Beddingsconstanten (Secant) 49
7.2 Berekende Gronddrukcoëfficiënten Links 49
7.3 Berekende kracht uit een laag Links 53
7.4 Invoergegevens Rechts 54
7.4.1 Berekeningsmethode 54
7.4.2 Waterniveau 54
7.4.3 Maaiveld 54
7.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 54
7.4.5 Beddingsconstanten (Secant) 55
7.5 Berekende Gronddrukcoëfficiënten Rechts 55
7.6 Berekende kracht uit een laag Rechts 59
7.7 Berekeningsresultaten 60
7.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 60
7.7.2 Momenten, Krachten en Verplaatsingen 60
7.7.3 Grafieken van Spanningen 62
7.7.4 Spanningen 63
7.7.5 Percentage gemobiliseerde weerstand 65
8 Overzicht Fase 2: Fase 2: Na aanvullen bouwkuip 66
9 Stap 6.3 Fase 2: Fase 2: Na aanvullen bouwkuip 67
9.1 Invoergegevens Links 67
9.1.1 Berekeningsmethode 67
9.1.2 Waterniveau 67
9.1.3 Maaiveld 67
9.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 67
9.1.5 Beddingsconstanten (Secant) 68
9.2 Berekende Gronddrukcoëfficiënten Links 68
9.3 Berekende kracht uit een laag Links 72
9.4 Invoergegevens Rechts 73
9.4.1 Berekeningsmethode 73
9.4.2 Waterniveau 73
9.4.3 Maaiveld 73
9.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 73
9.4.5 Beddingsconstanten (Secant) 73
9.5 Berekende Gronddrukcoëfficiënten Rechts 74
9.6 Berekende kracht uit een laag Rechts 80
9.7 Berekeningsresultaten 80
9.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 80
9.7.2 Momenten, Krachten en Verplaatsingen 81
9.7.3 Grafieken van Spanningen 83
9.7.4 Spanningen 83
9.7.5 Percentage gemobiliseerde weerstand 85
10 Stap 6.4 Fase 2: Fase 2: Na aanvullen bouwkuip 86
10.1 Invoergegevens Links 86
10.1.1 Berekeningsmethode 86
10.1.2 Waterniveau 86
10.1.3 Maaiveld 86
10.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 86
10.1.5 Beddingsconstanten (Secant) 87
10.2 Berekende Gronddrukcoëfficiënten Links 87
10.3 Berekende kracht uit een laag Links 91
10.4 Invoergegevens Rechts 92
10.4.1 Berekeningsmethode 92
10.4.2 Waterniveau 92
10.4.3 Maaiveld 92
10.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 92
10.4.5 Beddingsconstanten (Secant) 92
10.5 Berekende Gronddrukcoëfficiënten Rechts 93
10.6 Berekende kracht uit een laag Rechts 99
10.7 Berekeningsresultaten 99
10.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 99
10.7.2 Momenten, Krachten en Verplaatsingen 100
10.7.3 Grafieken van Spanningen 102
10.7.4 Spanningen 102
10.7.5 Percentage gemobiliseerde weerstand 104
11 Stap 6.5 Fase 2: Fase 2: Na aanvullen bouwkuip 105
11.1 Invoergegevens Links 105

11.1.1 Berekeningsmethode 105
11.1.2 Waterniveau 105
11.1.3 Maaiveld 105
11.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 105
11.1.5 Beddingsconstanten (Secant) 106
11.2 Berekende Gronddrukcoëfficiënten Links 106
11.3 Berekende kracht uit een laag Links 110
11.4 Invoergegevens Rechts 111
11.4.1 Berekeningsmethode 111
11.4.2 Waterniveau 111
11.4.3 Maaiveld 111
11.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 111
11.4.5 Beddingsconstanten (Secant) 111
11.5 Berekende Gronddrukcoëfficiënten Rechts 112
11.6 Berekende kracht uit een laag Rechts 118
11.7 Berekeningsresultaten 118
11.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 118
11.7.2 Momenten, Krachten en Verplaatsingen 119
11.7.3 Grafieken van Spanningen 121
11.7.4 Spanningen 121
11.7.5 Percentage gemobiliseerde weerstand 123
12 Overzicht Fase 3: Fase 3: GWS verhogen +WOSP 124
13 Stap 6.3 Fase 3: Fase 3: GWS verhogen +WOSP 125
13.1 Invoergegevens Links 125
13.1.1 Berekeningsmethode 125
13.1.2 Waterniveau 125
13.1.3 Maaiveld 125
13.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 125
13.1.5 Beddingsconstanten (Secant) 126
13.2 Berekende Gronddrukcoëfficiënten Links 126
13.3 Berekende kracht uit een laag Links 130
13.4 Invoergegevens Rechts 131
13.4.1 Berekeningsmethode 131
13.4.2 Waterniveau 131
13.4.3 Maaiveld 131
13.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 131
13.4.5 Beddingsconstanten (Secant) 131
13.5 Berekende Gronddrukcoëfficiënten Rechts 132
13.6 Berekende kracht uit een laag Rechts 138
13.7 Berekeningsresultaten 138
13.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 138
13.7.2 Momenten, Krachten en Verplaatsingen 139
13.7.3 Grafieken van Spanningen 141
13.7.4 Spanningen 141
13.7.5 Percentage gemobiliseerde weerstand 143
14 Stap 6.4 Fase 3: Fase 3: GWS verhogen +WOSP 144
14.1 Invoergegevens Links 144
14.1.1 Berekeningsmethode 144
14.1.2 Waterniveau 144
14.1.3 Maaiveld 144
14.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 144
14.1.5 Beddingsconstanten (Secant) 145
14.2 Berekende Gronddrukcoëfficiënten Links 145
14.3 Berekende kracht uit een laag Links 149
14.4 Invoergegevens Rechts 150
14.4.1 Berekeningsmethode 150
14.4.2 Waterniveau 150
14.4.3 Maaiveld 150
14.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 150
14.4.5 Beddingsconstanten (Secant) 150
14.5 Berekende Gronddrukcoëfficiënten Rechts 151
14.6 Berekende kracht uit een laag Rechts 157
14.7 Berekeningsresultaten 157
14.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 157
14.7.2 Momenten, Krachten en Verplaatsingen 158
14.7.3 Grafieken van Spanningen 160
14.7.4 Spanningen 160

14.7.5 Percentage gemobiliseerde weerstand 162
15 Stap 6.5 Fase 3: Fase 3: GWS verhogen +WOSP 163
15.1 Invoergegevens Links 163
15.1.1 Berekeningsmethode 163
15.1.2 Waterniveau 163
15.1.3 Maaiveld 163
15.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 163
15.1.5 Beddingsconstanten (Secant) 164
15.2 Berekende Gronddrukcoëfficiënten Links 164
15.3 Berekende kracht uit een laag Links 168
15.4 Invoergegevens Rechts 169
15.4.1 Berekeningsmethode 169
15.4.2 Waterniveau 169
15.4.3 Maaiveld 169
15.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 169
15.4.5 Beddingsconstanten (Secant) 169
15.5 Berekende Gronddrukcoëfficiënten Rechts 170
15.6 Berekende kracht uit een laag Rechts 176
15.7 Berekeningsresultaten 176
15.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 176
15.7.2 Momenten, Krachten en Verplaatsingen 177
15.7.3 Grafieken van Spanningen 179
15.7.4 Spanningen 179
15.7.5 Percentage gemobiliseerde weerstand 181
16 Overzicht Fase 4: Fase 3: Bovenbelasting 182
17 Stap 6.3 Fase 4: Fase 3: Bovenbelasting 183
17.1 Invoergegevens Links 183
17.1.1 Berekeningsmethode 183
17.1.2 Waterniveau 183
17.1.3 Maaiveld 183
17.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 183
17.1.5 Beddingsconstanten (Secant) 184
17.2 Berekende Gronddrukcoëfficiënten Links 184
17.3 Berekende kracht uit een laag Links 188
17.4 Invoergegevens Rechts 189
17.4.1 Berekeningsmethode 189
17.4.2 Waterniveau 189
17.4.3 Maaiveld 189
17.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 189
17.4.5 Beddingsconstanten (Secant) 189
17.4.6 Bovenbelastingen 190
17.5 Berekende Gronddrukcoëfficiënten Rechts 190
17.6 Berekende kracht uit een laag Rechts 196
17.7 Berekeningsresultaten 196
17.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 197
17.7.2 Momenten, Krachten en Verplaatsingen 197
17.7.3 Grafieken van Spanningen 199
17.7.4 Spanningen 200
17.7.5 Percentage gemobiliseerde weerstand 202
18 Stap 6.4 Fase 4: Fase 3: Bovenbelasting 203
18.1 Invoergegevens Links 203
18.1.1 Berekeningsmethode 203
18.1.2 Waterniveau 203
18.1.3 Maaiveld 203
18.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 203
18.1.5 Beddingsconstanten (Secant) 204
18.2 Berekende Gronddrukcoëfficiënten Links 204
18.3 Berekende kracht uit een laag Links 208
18.4 Invoergegevens Rechts 209
18.4.1 Berekeningsmethode 209
18.4.2 Waterniveau 209
18.4.3 Maaiveld 209
18.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 209
18.4.5 Beddingsconstanten (Secant) 209
18.4.6 Bovenbelastingen 210
18.5 Berekende Gronddrukcoëfficiënten Rechts 210
18.6 Berekende kracht uit een laag Rechts 216

18.7 Berekeningsresultaten 216
18.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 217
18.7.2 Momenten, Krachten en Verplaatsingen 217
18.7.3 Grafieken van Spanningen 219
18.7.4 Spanningen 220
18.7.5 Percentage gemobiliseerde weerstand 222
19 Stap 6.5 Fase 4: Fase 3: Bovenbelasting 223
19.1 Invoergegevens Links 223
19.1.1 Berekeningsmethode 223
19.1.2 Waterniveau 223
19.1.3 Maaiveld 223
19.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 223
19.1.5 Beddingsconstanten (Secant) 224
19.2 Berekende Gronddrukcoëfficiënten Links 224
19.3 Berekende kracht uit een laag Links 228
19.4 Invoergegevens Rechts 229
19.4.1 Berekeningsmethode 229
19.4.2 Waterniveau 229
19.4.3 Maaiveld 229
19.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp 229
19.4.5 Beddingsconstanten (Secant) 229
19.4.6 Bovenbelastingen 230
19.5 Berekende Gronddrukcoëfficiënten Rechts 230
19.6 Berekende kracht uit een laag Rechts 236
19.7 Berekeningsresultaten 236
19.7.1 Grafieken van Momenten, Krachten en Verplaatsingen 237
19.7.2 Momenten, Krachten en Verplaatsingen 237
19.7.3 Grafieken van Spanningen 239
19.7.4 Spanningen 240
19.7.5 Percentage gemobiliseerde weerstand 242

2 Overzicht

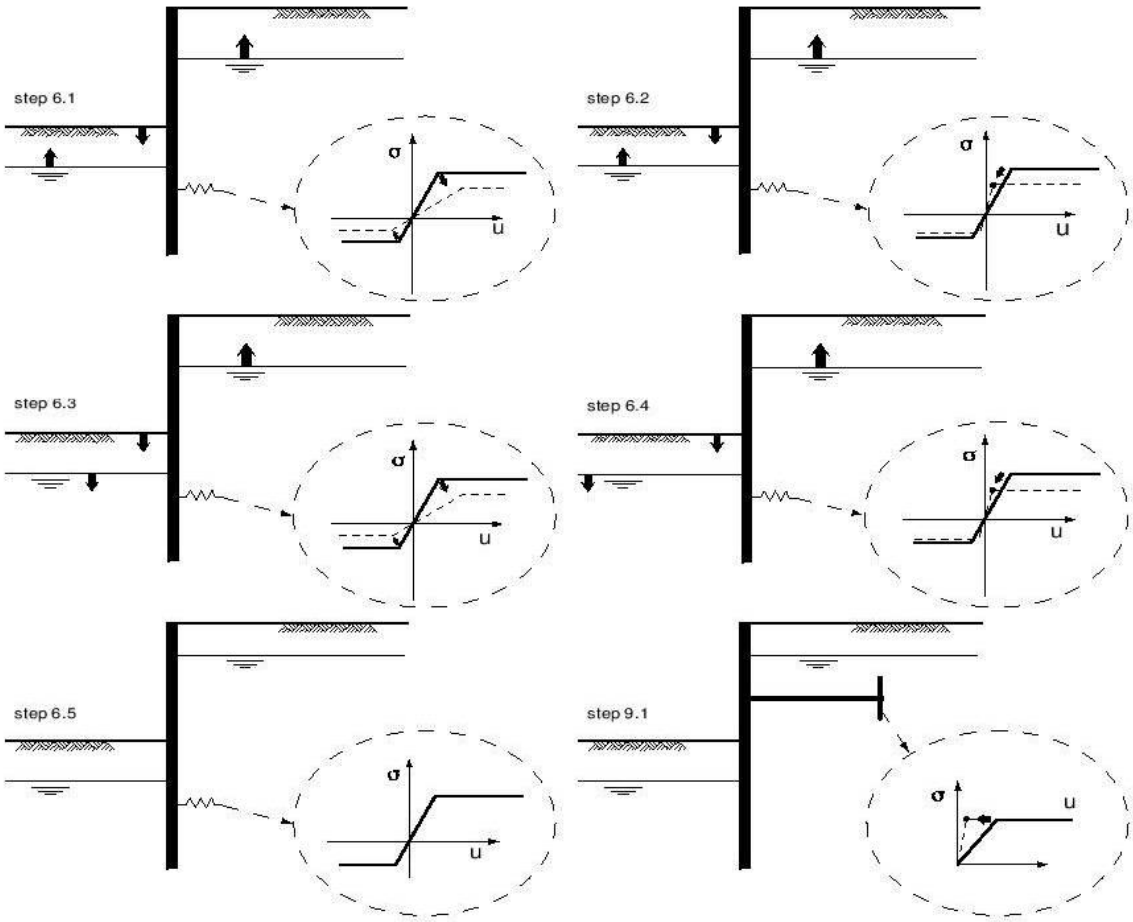
2.1 Overzicht per Fase en Toets

Fase nr.	Verificatie type	Verplaatsing [mm]	Moment [kNm]	Dwarskracht [kN]	Mob. perc. moment [%]	Mob. perc. weerstand [%]	Verticaal evenwicht
1	EC7(NL)-Stap 6.3		0.14	-0.19	**0.0**	21.4	---
1	EC7(NL)-Stap 6.4		0.11	-0.19	**0.0**	21.4	---
1	EC7(NL)-Stap 6.5	0.0	0.11	-0.16	**0.0**	16.1	---
1	EC7(NL)-Stap 6.5 * 1.20		0.13	-0.19			
2	EC7(NL)-Stap 6.3		269.88	67.84	**0.0**	28.8	---
2	EC7(NL)-Stap 6.4		251.31	-73.15	**0.0**	29.2	---
2	EC7(NL)-Stap 6.5	-61.3	175.45	48.51	**0.0**	20.2	---
2	EC7(NL)-Stap 6.5 * 1.20		210.54	58.21			
3	EC7(NL)-Stap 6.3		416.61	104.80	**0.0**	31.3	---
3	EC7(NL)-Stap 6.4		398.78	-112.58	**0.0**	31.8	---
3	EC7(NL)-Stap 6.5	-112.1	296.68	86.35	**0.0**	22.0	---
3	EC7(NL)-Stap 6.5 * 1.20		356.02	103.62			
4	EC7(NL)-Stap 6.3		**500.55**	119.61	**0.0**	34.4	---
4	EC7(NL)-Stap 6.4		482.82	**-132.38**	**0.0**	**34.9**	---
4	EC7(NL)-Stap 6.5	**-129.9**	324.98	93.83	**0.0**	23.4	---
4	EC7(NL)-Stap 6.5 * 1.20		389.98	112.60			
Max		**-129.9**	**500.55**	**-132.38**	**0.0**	**34.9**	---

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):
- 1719801_ (H)
- 1719801_ (H) 50% wosp

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	4
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	0.90 m
Aantal secties	1

3.2.1 Algemene eigenschappen

Snede naam	Van [m]	Tot [m]	Materiaal type	Werkende breedte [m]
AZ 26 -700	-16.10	0.90	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

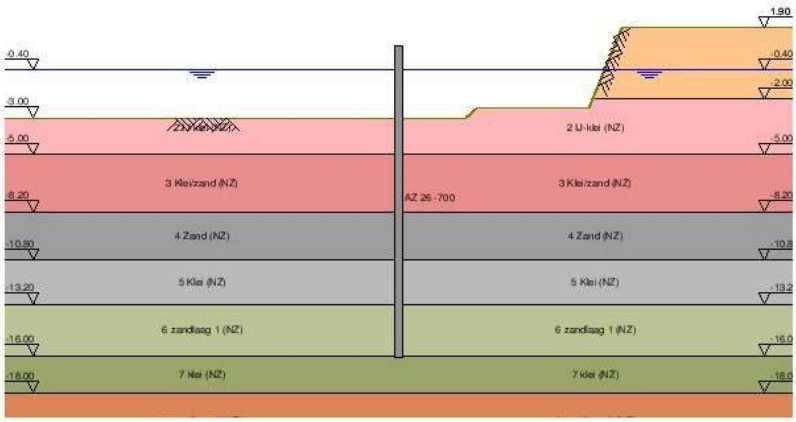
3.3 Rekenopties

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: Na schade kadeconstructie

Overzicht - Fase 1: Fase 1: Na schade kadeconstructie



5 Stap 6.3 Fase 1: Fase 1: Na schade kadeconstructie

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

5.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

5.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.55
3 Klei/zand (NZ)	68.66
4 Zand (NZ)	99.61
5 Klei (NZ)	132.04
6 zandlaag 1 (NZ)	178.22
7 klei (NZ)	7.73
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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
3.00	-3.00
3.50	-2.50
8.50	-2.50
10.00	1.90

5.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

5.4.5 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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

5.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.58
3	-3.36	0.0	10.3	0.00	1.72	7.73
4	-3.48	0.0	11.2	0.00	1.72	6.30
5	-3.60	0.0	11.9	0.00	1.71	5.62
6	-3.60	0.0	12.3	0.00	1.71	5.27
7	-3.72	0.0	13.0	0.00	1.71	4.85
8	-3.85	0.0	14.0	0.00	1.70	4.43
9	-3.97	0.0	14.9	0.00	1.69	4.11
10	-4.09	0.0	15.8	0.00	1.68	3.87
11	-4.21	0.0	16.5	0.00	1.68	3.71
12	-4.21	0.0	17.0	0.00	1.68	3.62
13	-4.34	0.0	17.7	0.00	1.67	3.50
14	-4.46	0.0	18.6	0.00	1.65	3.36
15	-4.58	0.0	19.5	0.00	1.64	3.24
16	-4.71	0.0	20.5	0.00	1.63	3.14
17	-4.83	0.0	21.2	0.00	1.62	3.07
18	-4.83	0.0	21.5	0.00	1.62	3.04
19	-4.86	0.0	21.7	0.00	1.62	3.02
20	-4.90	0.0	22.0	0.00	1.61	3.01
21	-4.93	0.0	22.5	0.00	1.61	3.02
22	-4.97	0.0	23.1	0.00	1.61	3.04
23	-5.00	0.0	23.5	0.00	1.58	3.03
24	-5.00	0.0	46.5	0.00	1.58	5.85
25	-5.07	0.0	50.4	0.00	1.41	6.07
26	-5.13	0.0	56.2	0.00	1.39	6.40
27	-5.20	0.0	62.8	0.00	1.36	6.78
28	-5.26	0.0	70.3	0.00	1.34	7.22
29	-5.33	0.0	76.6	0.00	1.32	7.59
30	-5.33	0.0	81.3	0.00	1.32	7.82
31	-5.43	0.0	55.8	0.00	1.30	5.10
32	-5.53	0.0	57.6	0.00	1.27	4.93
33	-5.63	0.0	59.6	0.00	1.25	4.80

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	61.7	0.00	1.23	4.69
35	-5.83	0.0	63.3	0.00	1.21	4.61
36	-5.83	0.0	64.5	0.00	1.21	4.56
37	-5.96	0.0	66.7	0.00	1.19	4.48
38	-6.10	0.0	69.7	0.00	1.17	4.38
39	-6.23	0.0	72.8	0.00	1.15	4.30
40	-6.36	0.0	75.8	0.00	1.13	4.23
41	-6.50	0.0	78.2	0.00	1.11	4.18
42	-6.50	2.9	80.4	0.15	1.11	4.19
43	-6.63	3.9	84.1	0.20	1.10	4.21
44	-6.76	4.3	89.6	0.20	1.08	4.26
45	-6.90	4.6	95.7	0.21	1.07	4.33
46	-7.03	4.9	102.1	0.21	1.05	4.42
47	-7.16	5.1	107.3	0.22	1.04	4.49
48	-7.16	5.3	110.8	0.22	1.04	4.54
49	-7.30	5.5	116.5	0.22	1.03	4.62
50	-7.43	7.1	124.5	0.27	1.02	4.73
51	-7.56	21.5	133.1	0.78	1.01	4.86
52	-7.70	20.8	142.3	0.73	0.99	5.00
53	-7.83	20.3	149.8	0.69	0.98	5.12
54	-7.83	23.8	153.7	0.80	0.98	5.18
55	-7.90	25.8	158.3	0.85	0.98	5.25
56	-7.98	26.0	164.4	0.85	0.97	5.35
57	-8.05	26.3	170.9	0.84	0.97	5.45
58	-8.13	26.6	177.6	0.83	0.96	5.56
59	-8.20	26.7	183.1	0.82	0.95	5.61
60	-8.20	29.3	218.3	0.88	0.95	6.57
61	-8.34	29.6	236.5	0.86	0.90	6.87
62	-8.47	30.1	263.4	0.84	0.88	7.31
63	-8.61	30.6	293.9	0.81	0.87	7.81
64	-8.74	31.1	329.1	0.79	0.86	8.38
65	-8.88	31.4	358.4	0.78	0.85	8.86
66	-8.88	31.6	377.2	0.77	0.85	9.17
67	-8.98	31.9	402.9	0.76	0.84	9.58
68	-9.08	32.3	441.2	0.75	0.83	10.20
69	-9.18	32.7	483.6	0.73	0.82	10.88
70	-9.28	33.0	532.5	0.72	0.82	11.67
71	-9.38	33.3	574.1	0.72	0.81	12.34
72	-9.38	33.4	583.9	0.71	0.81	12.46
73	-9.38	33.4	584.8	0.71	0.81	12.48
74	-9.38	33.4	586.0	0.71	0.81	12.50
75	-9.39	33.4	587.2	0.71	0.81	12.52
76	-9.39	33.4	588.5	0.71	0.81	12.54
77	-9.39	33.4	589.4	0.71	0.81	12.55
78	-9.39	33.5	598.6	0.71	0.81	12.73
79	-9.41	33.5	606.5	0.71	0.81	12.84
80	-9.43	33.6	621.0	0.71	0.81	13.08
81	-9.46	33.7	636.0	0.71	0.80	13.32
82	-9.48	33.8	651.6	0.70	0.80	13.57
83	-9.50	33.8	660.4	0.70	0.80	13.70
84	-9.50	33.9	675.3	0.70	0.80	13.94
85	-9.56	34.1	709.4	0.70	0.80	14.49
86	-9.62	34.3	755.8	0.69	0.79	15.22
87	-9.67	34.5	806.4	0.69	0.79	16.01
88	-9.73	34.7	863.9	0.68	0.79	16.92
89	-9.79	34.9	906.2	0.68	0.78	17.57
90	-9.79	35.0	931.5	0.68	0.78	17.97
91	-9.81	35.0	947.9	0.67	0.78	18.23
92	-9.83	35.1	970.4	0.67	0.78	18.59
93	-9.84	35.2	986.4	0.67	0.78	18.82
94	-9.86	35.3	1017.7	0.67	0.78	19.33
95	-9.88	35.3	1020.9	0.67	0.78	19.34
96	-9.88	35.3	1058.6	0.67	0.78	20.03
97	-9.88	35.3	1060.8	0.67	0.78	20.06

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	35.3	993.8	0.67	0.78	18.79
99	-9.89	35.3	1066.5	0.67	0.78	20.15
100	-9.89	35.4	1069.5	0.67	0.78	20.20
101	-9.89	35.4	1071.7	0.67	0.78	20.23
102	-9.89	35.4	1076.8	0.67	0.78	20.24
103	-9.97	35.7	1167.4	0.66	0.77	21.64
104	-10.05	36.0	1304.7	0.66	0.77	23.76
105	-10.13	36.3	2730.7	0.65	0.76	48.87
106	-10.21	36.6	393.6	0.64	0.76	6.92
107	-10.29	36.8	402.6	0.64	0.76	6.99
108	-10.29	36.9	406.4	0.64	0.76	7.02
109	-10.31	37.0	408.6	0.64	0.75	7.04
110	-10.33	37.0	411.4	0.64	0.75	7.06
111	-10.34	37.1	414.2	0.63	0.75	7.08
112	-10.36	37.2	417.1	0.63	0.75	7.11
113	-10.38	37.2	419.2	0.63	0.75	7.12
114	-10.38	37.2	420.0	0.63	0.75	7.13
115	-10.38	37.2	420.2	0.63	0.75	7.13
116	-10.38	37.2	420.6	0.63	0.75	7.13
117	-10.39	37.2	420.9	0.63	0.75	7.14
118	-10.39	37.3	421.2	0.63	0.75	7.14
119	-10.39	37.3	421.4	0.63	0.75	7.14
120	-10.39	37.3	424.8	0.63	0.75	7.17
121	-10.47	37.6	434.7	0.63	0.75	7.24
122	-10.55	37.9	448.0	0.62	0.74	7.34
123	-10.64	38.2	461.6	0.62	0.74	7.44
124	-10.72	38.5	475.3	0.61	0.73	7.54
125	-10.80	38.8	485.8	0.61	0.73	7.64
126	-10.80	39.3	428.1	0.62	0.73	6.72
127	-10.81	39.3	428.6	0.62	0.78	6.72
128	-10.81	39.3	429.4	0.62	0.78	6.73
129	-10.82	39.3	430.1	0.62	0.78	6.73
130	-10.82	39.4	430.9	0.62	0.78	6.74
131	-10.83	39.4	431.4	0.62	0.78	6.74
132	-10.83	39.4	434.5	0.61	0.78	6.77
133	-10.92	39.6	443.3	0.61	0.78	6.84
134	-11.01	39.7	454.3	0.60	0.77	6.93
135	-11.11	39.7	457.3	0.60	0.77	6.89
136	-11.20	39.8	458.1	0.59	0.77	6.82
137	-11.29	39.8	458.7	0.59	0.77	6.77
138	-11.29	39.9	459.0	0.59	0.77	6.75
139	-11.31	39.9	459.1	0.59	0.76	6.74
140	-11.33	39.9	459.3	0.58	0.76	6.72
141	-11.34	39.9	459.4	0.58	0.76	6.71
142	-11.36	39.9	459.6	0.58	0.76	6.70
143	-11.38	39.9	459.8	0.58	0.76	6.69
144	-11.38	39.9	459.8	0.58	0.76	6.69
145	-11.38	39.9	459.8	0.58	0.76	6.68
146	-11.38	39.9	459.9	0.58	0.76	6.68
147	-11.39	39.9	459.9	0.58	0.76	6.68
148	-11.39	39.9	459.9	0.58	0.76	6.68
149	-11.39	39.9	459.9	0.58	0.76	6.68
150	-11.39	39.9	460.0	0.58	0.76	6.68
151	-11.41	39.9	460.1	0.58	0.76	6.66
152	-11.43	40.0	460.4	0.58	0.76	6.65
153	-11.46	40.0	460.6	0.58	0.76	6.63
154	-11.48	40.0	460.8	0.57	0.76	6.62
155	-11.50	40.0	461.0	0.57	0.76	6.61
156	-11.50	40.0	461.3	0.57	0.76	6.59
157	-11.58	40.1	462.0	0.57	0.76	6.55
158	-11.66	40.2	462.9	0.56	0.75	6.50
159	-11.73	40.2	463.8	0.56	0.75	6.46
160	-11.81	40.3	464.8	0.56	0.75	6.41
161	-11.89	40.3	465.6	0.55	0.75	6.37

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	40.2	466.1	0.55	0.75	6.35
163	-11.97	40.2	466.9	0.54	0.74	6.32
164	-12.05	40.2	468.0	0.54	0.74	6.27
165	-12.13	40.2	469.1	0.53	0.74	6.23
166	-12.21	40.3	470.2	0.53	0.74	6.19
167	-12.29	40.3	471.1	0.53	0.74	6.16
168	-12.29	40.3	471.5	0.52	0.74	6.15
169	-12.31	40.3	471.7	0.52	0.73	6.14
170	-12.33	40.3	472.0	0.52	0.73	6.13
171	-12.34	40.3	472.2	0.52	0.73	6.12
172	-12.36	40.3	472.5	0.52	0.73	6.11
173	-12.38	40.3	472.7	0.52	0.73	6.10
174	-12.38	40.3	472.8	0.52	0.73	6.10
175	-12.38	40.3	472.8	0.52	0.73	6.10
176	-12.38	40.3	472.8	0.52	0.73	6.10
177	-12.39	40.3	472.9	0.52	0.73	6.10
178	-12.39	40.3	472.9	0.52	0.73	6.10
179	-12.39	40.3	472.9	0.52	0.73	6.10
180	-12.39	40.3	473.0	0.52	0.73	6.09
181	-12.41	40.3	473.3	0.52	0.73	6.09
182	-12.43	40.3	473.6	0.52	0.73	6.08
183	-12.46	40.3	473.9	0.52	0.73	6.07
184	-12.48	40.3	474.2	0.51	0.73	6.05
185	-12.50	40.3	474.3	0.51	0.73	6.04
186	-12.50	40.3	474.4	0.51	0.73	6.03
187	-12.56	40.3	474.7	0.51	0.73	6.01
188	-12.62	40.3	475.1	0.51	0.73	5.97
189	-12.67	40.4	475.5	0.50	0.73	5.94
190	-12.73	40.4	476.1	0.50	0.72	5.91
191	-12.79	40.4	476.8	0.50	0.72	5.89
192	-12.79	40.4	477.3	0.50	0.72	5.88
193	-12.87	40.4	478.9	0.49	0.72	5.86
194	-12.95	40.5	483.8	0.49	0.72	5.87
195	-13.04	40.5	489.3	0.49	0.72	5.88
196	-13.12	40.6	495.1	0.48	0.71	5.90
197	-13.20	40.6	499.4	0.48	0.71	5.90
198	-13.20	39.3	572.5	0.46	0.71	6.74
199	-13.23	39.4	574.3	0.46	0.66	6.74
200	-13.25	39.4	577.5	0.46	0.66	6.75
201	-13.28	39.4	580.9	0.46	0.66	6.77
202	-13.30	39.5	584.3	0.46	0.66	6.78
203	-13.33	39.5	586.9	0.46	0.66	6.79
204	-13.33	39.6	592.6	0.46	0.66	6.82
205	-13.48	40.4	607.1	0.46	0.66	6.88
206	-13.62	39.6	626.6	0.44	0.65	6.96
207	-13.77	40.8	637.8	0.44	0.65	6.95
208	-13.91	41.4	639.7	0.44	0.64	6.84
209	-14.06	41.9	641.5	0.44	0.64	6.76
210	-14.06	42.2	642.8	0.44	0.64	6.71
211	-14.21	42.6	645.1	0.44	0.64	6.64
212	-14.35	43.2	648.4	0.44	0.63	6.56
213	-14.50	43.8	652.0	0.43	0.63	6.48
214	-14.64	44.3	655.9	0.43	0.63	6.40
215	-14.79	44.8	659.2	0.43	0.62	6.36
216	-14.79	44.9	660.7	0.43	0.62	6.34
217	-14.81	45.0	661.3	0.43	0.62	6.33
218	-14.83	45.1	661.9	0.43	0.62	6.33
219	-14.84	45.1	662.6	0.43	0.62	6.32
220	-14.86	45.2	663.3	0.43	0.62	6.32
221	-14.88	45.3	663.8	0.43	0.62	6.31
222	-14.88	45.3	664.2	0.43	0.62	6.31
223	-14.90	45.4	664.9	0.43	0.62	6.30
224	-14.93	45.5	665.9	0.43	0.62	6.29
225	-14.95	45.6	666.8	0.43	0.62	6.28

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	45.7	667.6	0.43	0.62	6.27
227	-15.00	45.7	668.1	0.43	0.62	6.27
228	-15.00	45.8	668.9	0.43	0.62	6.26
229	-15.08	46.1	669.3	0.43	0.62	6.22
230	-15.16	46.4	666.3	0.43	0.62	6.14
231	-15.23	46.7	660.3	0.43	0.61	6.03
232	-15.31	47.0	651.3	0.43	0.61	5.90
233	-15.39	47.2	639.9	0.42	0.61	5.76
234	-15.39	47.3	635.0	0.42	0.61	5.70
235	-15.41	47.4	631.9	0.42	0.61	5.66
236	-15.43	47.5	627.8	0.42	0.61	5.61
237	-15.46	47.5	623.7	0.42	0.61	5.56
238	-15.48	47.6	613.1	0.42	0.61	5.45
239	-15.50	47.7	633.1	0.42	0.61	5.62
240	-15.50	47.8	620.2	0.42	0.61	5.49
241	-15.56	47.9	622.0	0.42	0.61	5.48
242	-15.62	48.2	624.3	0.42	0.61	5.47
243	-15.67	48.4	626.7	0.42	0.61	5.46
244	-15.73	48.6	629.1	0.42	0.60	5.45
245	-15.79	48.8	630.9	0.42	0.60	5.44
246	-15.79	48.8	631.6	0.42	0.60	5.43
247	-15.80	48.9	631.8	0.42	0.60	5.43
248	-15.81	48.9	632.1	0.42	0.60	5.43
249	-15.81	48.9	632.5	0.42	0.60	5.43
250	-15.82	49.0	632.8	0.42	0.60	5.43
251	-15.83	49.0	633.0	0.42	0.60	5.43
252	-15.83	49.0	633.2	0.42	0.60	5.43
253	-15.84	49.0	633.6	0.42	0.60	5.42
254	-15.85	49.1	634.1	0.42	0.60	5.42
255	-15.87	49.1	634.6	0.42	0.60	5.42
256	-15.88	49.2	635.1	0.42	0.60	5.42
257	-15.89	49.2	635.5	0.42	0.60	5.41
258	-15.89	49.3	635.8	0.42	0.60	5.41
259	-15.91	49.3	636.5	0.42	0.60	5.41
260	-15.93	49.4	637.4	0.42	0.60	5.41
261	-15.96	49.5	638.3	0.42	0.60	5.40
262	-15.98	49.6	639.2	0.42	0.60	5.40
263	-16.00	49.6	639.9	0.42	0.60	5.40
264	-16.00	57.1	491.9	0.48	0.60	4.14
265	-16.02	57.2	492.2	0.48	0.70	4.14
266	-16.04	57.2	492.6	0.48	0.70	4.14
267	-16.06	57.3	492.9	0.48	0.70	4.14
268	-16.08	57.4	493.3	0.48	0.70	4.13
269	-16.10	57.4	493.6	0.48	0.48	4.13

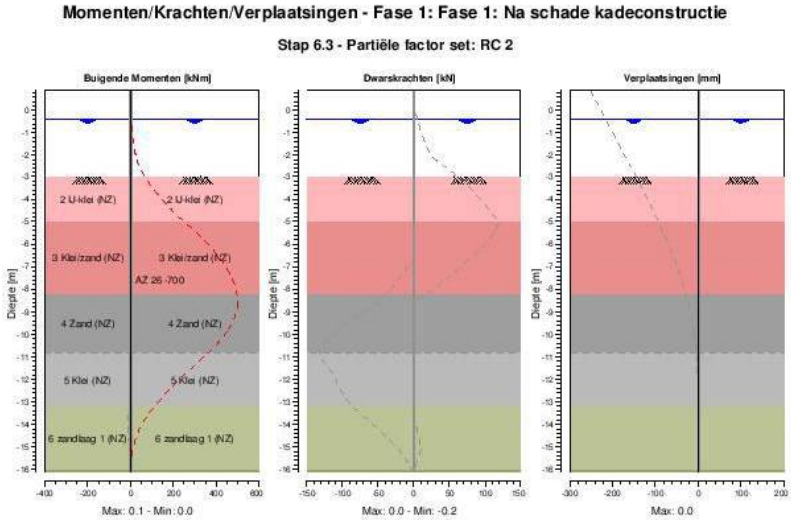
5.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.54
3 Klei/zand (NZ)	68.66
4 Zand (NZ)	99.66
5 Klei (NZ)	132.04
6 zandlaag 1 (NZ)	178.00
7 klei (NZ)	7.91
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

5.7 Berekeningsresultaten

Aantal iteraties: 2

5.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



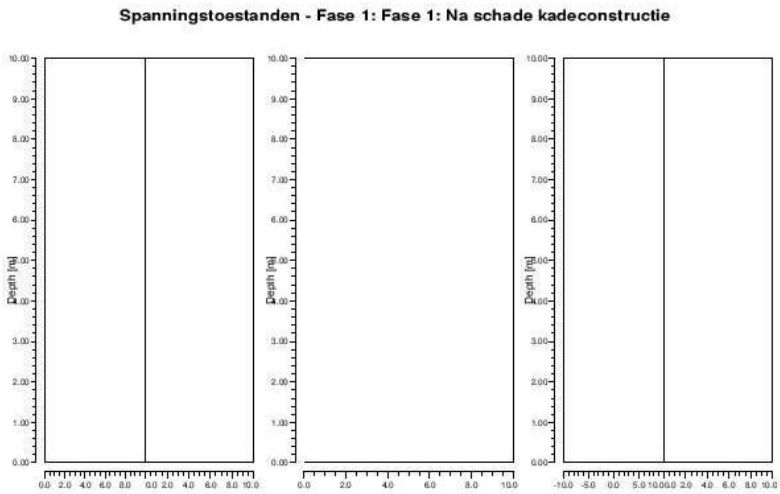
5.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**0.0**
1	0.60	0.00	0.00	**0.0**
2	0.60	0.00	0.00	**0.0**
2	0.40	0.00	0.00	**0.0**
3	0.40	0.00	0.00	**0.0**
3	0.20	0.00	0.00	**0.0**
4	0.20	0.00	0.00	**0.0**
4	0.17	0.00	0.00	**0.0**
5	0.17	0.00	0.00	**0.0**
5	-0.20	0.00	0.00	**0.0**
6	-0.20	0.00	0.00	**0.0**
6	-0.33	0.00	0.00	**0.0**
7	-0.33	0.00	0.00	**0.0**
7	-0.40	0.00	0.00	**0.0**
8	-0.40	0.00	0.00	**0.0**
8	-0.60	0.00	0.00	**0.0**
9	-0.60	0.00	0.00	**0.0**
9	-1.33	0.00	0.00	**0.0**
10	-1.33	0.00	0.00	**0.0**
10	-1.60	0.00	0.00	**0.0**
11	-1.60	0.00	0.00	**0.0**
11	-1.83	0.00	0.00	**0.0**
12	-1.83	0.00	0.00	**0.0**
12	-2.00	0.00	0.00	**0.0**
13	-2.00	0.00	0.00	**0.0**
13	-2.15	0.00	0.00	**0.0**
14	-2.15	0.00	0.00	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
14	-2.20	0.00	0.00	**0.0**
15	-2.20	0.00	0.00	**0.0**
15	-2.33	0.00	0.00	**0.0**
16	-2.33	0.00	0.00	**0.0**
16	-2.60	0.00	0.00	**0.0**
17	-2.60	0.00	0.00	**0.0**
17	-3.00	0.00	0.00	**0.0**
18	-3.00	0.00	0.00	**0.0**
18	-3.60	0.00	0.00	**0.0**
19	-3.60	0.00	0.00	**0.0**
19	-4.21	0.00	0.00	**0.0**
20	-4.21	0.00	0.00	**0.0**
20	-4.83	0.00	0.00	**0.0**
21	-4.83	0.00	0.00	**0.0**
21	-5.00	0.00	0.00	**0.0**
22	-5.00	0.00	0.00	**0.0**
22	-5.33	0.00	0.00	**0.0**
23	-5.33	0.00	0.00	**0.0**
23	-5.83	-0.01	0.00	**0.0**
24	-5.83	-0.01	0.00	**0.0**
24	-6.50	-0.01	-0.01	**0.0**
25	-6.50	-0.01	-0.01	**0.0**
25	-7.16	-0.01	-0.01	**0.0**
26	-7.16	-0.01	-0.01	**0.0**
26	-7.83	-0.02	-0.01	**0.0**
27	-7.83	-0.02	-0.01	**0.0**
27	-8.20	-0.02	-0.01	**0.0**
28	-8.20	-0.02	-0.01	**0.0**
28	-8.88	-0.02	0.00	**0.0**
29	-8.88	-0.02	0.00	**0.0**
29	-9.38	-0.02	0.01	**0.0**
30	-9.38	-0.02	0.01	**0.0**
30	-9.39	-0.02	0.01	**0.0**
31	-9.39	-0.02	0.01	**0.0**
31	-9.50	-0.02	0.01	**0.0**
32	-9.50	-0.02	0.01	**0.0**
32	-9.79	-0.01	0.02	**0.0**
33	-9.79	-0.01	0.02	**0.0**
33	-9.88	-0.01	0.02	**0.0**
34	-9.88	-0.01	0.02	**0.0**
34	-9.89	-0.01	0.02	**0.0**
35	-9.89	-0.01	0.02	**0.0**
35	-10.29	0.00	0.03	**0.0**
36	-10.29	0.00	0.03	**0.0**
36	-10.38	0.00	0.03	**0.0**
37	-10.38	0.00	0.03	**0.0**
37	-10.39	0.00	0.03	**0.0**
38	-10.39	0.00	0.03	**0.0**
38	-10.80	0.02	0.04	**0.0**
39	-10.80	0.02	0.04	**0.0**
39	-10.83	0.02	0.04	**0.0**
40	-10.83	0.02	0.04	**0.0**
40	-11.29	0.03	0.04	**0.0**
41	-11.29	0.03	0.04	**0.0**
41	-11.38	0.04	0.04	**0.0**
42	-11.38	0.04	0.04	**0.0**
42	-11.39	0.04	0.04	**0.0**
43	-11.39	0.04	0.04	**0.0**
43	-11.50	0.04	0.04	**0.0**
44	-11.50	0.04	0.04	**0.0**
44	-11.89	0.06	0.04	**0.0**
45	-11.89	0.06	0.04	**0.0**
45	-12.29	0.07	0.04	**0.0**
46	-12.29	0.07	0.04	**0.0**
46	-12.38	0.08	0.04	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
47	-12.38	0.08	0.04	**0.0**
47	-12.39	0.08	0.04	**0.0**
48	-12.39	0.08	0.04	**0.0**
48	-12.50	0.08	0.04	**0.0**
49	-12.50	0.08	0.04	**0.0**
49	-12.79	0.09	0.04	**0.0**
50	-12.79	0.09	0.04	**0.0**
50	-13.20	0.11	0.04	**0.0**
51	-13.20	0.11	0.04	**0.0**
51	-13.33	0.11	0.04	**0.0**
52	-13.33	0.11	0.04	**0.0**
52	-14.06	**0.13**	0.02	**0.0**
53	-14.06	**0.13**	0.02	**0.0**
53	-14.79	**0.13**	-0.03	**0.0**
54	-14.79	**0.13**	-0.03	**0.0**
54	-14.88	**0.13**	-0.03	**0.0**
55	-14.88	**0.13**	-0.03	**0.0**
55	-15.00	**0.13**	-0.05	**0.0**
56	-15.00	**0.13**	-0.05	**0.0**
56	-15.39	0.10	-0.09	**0.0**
57	-15.39	0.10	-0.09	**0.0**
57	-15.50	0.09	-0.10	**0.0**
58	-15.50	0.09	-0.10	**0.0**
58	-15.79	0.05	-0.15	**0.0**
59	-15.79	0.05	-0.15	**0.0**
59	-15.83	0.05	-0.15	**0.0**
60	-15.83	0.05	-0.15	**0.0**
60	-15.89	0.04	-0.16	**0.0**
61	-15.89	0.04	-0.16	**0.0**
61	-16.00	0.02	**-0.18**	**0.0**
62	-16.00	0.02	**-0.18**	**0.0**
62	-16.10	0.00	0.00	**0.0**
Max		**0.13**	**-0.18**	**0.0**
Max incl. tussenknopen		0.14	-0.19	0.0

5.7.3 Grafieken van Spanningen



5.7.4 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	0.90	0.00	0.00	-		0.00	0.00	-	
1	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
5	0.17	0.00	0.00	-		0.00	0.00	-	
5	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-3.00	0.00	25.51	-		0.00	25.51	-	
18	-3.00	0.00	25.51	P		0.00	25.51	3	
18	-3.60	3.62	31.39	1	31	3.62	31.39	1	
19	-3.60	4.01	31.39	1	33	4.01	31.39	1	
19	-4.21	7.47	37.43	1	45	7.46	37.43	1	
20	-4.21	7.85	37.43	1	46	7.86	37.43	1	
20	-4.83	11.19	43.46	2	53	11.18	43.46	2	
21	-4.83	11.44	43.46	2	53	11.44	43.46	2	
21	-5.00	12.17	45.13	2	54	12.17	45.13	2	
22	-5.00	12.40	45.13	1	30	12.41	45.13	1	
22	-5.33	13.23	48.36	1	28	13.22	48.36	1	
23	-5.33	13.62	48.36	1	29	13.62	48.36	1	
23	-5.83	16.51	53.27	1	29	16.50	53.27	1	
24	-5.83	17.02	53.27	1	29	17.03	53.27	1	
24	-6.50	20.73	59.81	1	28	20.72	59.81	1	
25	-6.50	21.27	59.81	1	28	21.29	59.81	1	
25	-7.16	24.81	66.35	1	28	24.79	66.35	1	
26	-7.16	25.33	66.35	1	28	25.34	66.35	1	
26	-7.83	28.69	72.89	1	27	28.66	72.89	1	
27	-7.83	29.07	72.89	1	27	29.08	72.89	1	
27	-8.20	30.58	76.52	1	27	30.60	76.52	1	
28	-8.20	31.09	76.52	1	25	31.12	76.52	1	
28	-8.88	33.96	83.19	1	23	33.97	83.19	1	
29	-8.88	34.54	83.19	1	23	34.56	83.19	1	
29	-9.38	37.37	88.09	1	22	37.38	88.09	1	
30	-9.38	37.61	88.09	1	22	37.62	88.09	1	
30	-9.39	37.66	88.19	1	22	37.68	88.19	1	
31	-9.39	37.72	88.19	1	22	37.74	88.19	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* [%]
31	-9.50	38.33	89.27	1	22	38.35	89.27	1	
32	-9.50	38.52	89.27	1	22	38.54	89.27	1	
32	-9.79	40.11	92.12	1	21	40.13	92.12	1	
33	-9.79	40.29	92.12	1	21	40.30	92.12	1	
33	-9.88	40.78	93.00	1	21	40.79	93.00	1	
34	-9.88	40.82	93.00	1	21	40.84	93.00	1	
34	-9.89	40.88	93.10	1	21	40.89	93.10	1	
35	-9.89	41.06	93.10	1	21	41.09	93.10	1	
35	-10.29	43.21	97.02	1	20	43.22	97.02	1	
36	-10.29	43.43	97.02	1	20	43.45	97.02	1	
36	-10.38	43.90	97.90	1	20	43.92	97.90	1	
37	-10.38	43.95	97.90	1	20	43.97	97.90	1	
37	-10.39	44.00	98.00	1	20	44.02	98.00	1	
38	-10.39	44.19	98.00	1	20	44.21	98.00	1	
38	-10.80	46.57	102.02	1	20	46.56	102.02	1	
39	-10.80	46.75	102.02	1	23	46.75	102.02	1	
39	-10.83	49.83	102.32	1	25	49.83	102.32	1	
40	-10.83	49.97	102.32	1	25	49.99	102.32	1	
40	-11.29	51.80	106.83	1	25	51.79	106.83	1	
41	-11.29	51.97	106.83	1	25	51.97	106.83	1	
41	-11.38	52.32	107.71	1	25	52.32	107.71	1	
42	-11.38	52.35	107.71	1	25	52.35	107.71	1	
42	-11.39	52.39	107.81	1	25	52.39	107.81	1	
43	-11.39	52.42	107.81	1	25	52.43	107.81	1	
43	-11.50	52.85	108.89	1	25	52.85	108.89	1	
44	-11.50	52.99	108.89	1	25	53.01	108.89	1	
44	-11.89	54.48	112.72	1	24	54.47	112.72	1	
45	-11.89	54.72	112.72	1	24	54.73	112.72	1	
45	-12.29	56.21	116.64	1	24	56.20	116.64	1	
46	-12.29	56.35	116.64	1	24	56.36	116.64	1	
46	-12.38	56.68	117.52	1	24	56.68	117.52	1	
47	-12.38	56.71	117.52	1	24	56.71	117.52	1	
47	-12.39	56.75	117.62	1	24	56.75	117.62	1	
48	-12.39	56.78	117.62	1	24	56.79	117.62	1	
48	-12.50	57.19	118.70	1	24	57.18	118.70	1	
49	-12.50	57.30	118.70	1	24	57.31	118.70	1	
49	-12.79	58.35	121.55	1	24	58.35	121.55	1	
50	-12.79	58.55	121.55	1	24	58.57	121.55	1	
50	-13.20	59.78	125.57	1	24	59.80	125.57	1	
51	-13.20	59.97	125.57	1	20	59.96	125.57	1	
51	-13.33	56.76	126.84	1	18	56.75	126.84	1	
52	-13.33	57.10	126.84	1	18	57.09	126.84	1	
52	-14.06	60.50	134.00	1	18	60.46	134.00	1	
53	-14.06	61.06	134.00	1	18	61.02	134.00	1	
53	-14.79	64.41	141.17	1	17	64.32	141.17	1	
54	-14.79	64.71	141.17	1	17	64.63	141.17	1	
54	-14.88	65.12	142.05	1	17	65.03	142.05	1	
55	-14.88	65.20	142.05	1	17	65.11	142.05	1	
55	-15.00	65.75	143.23	1	17	65.65	143.23	1	
56	-15.00	65.94	143.23	1	17	65.84	143.23	1	
56	-15.39	67.70	147.05	1	17	67.57	147.05	1	
57	-15.39	67.88	147.05	1	17	67.75	147.05	1	
57	-15.50	68.38	148.13	1	17	68.24	148.13	1	
58	-15.50	68.52	148.13	1	17	68.38	148.13	1	
58	-15.79	69.82	150.98	1	17	69.66	150.98	1	
59	-15.79	69.94	150.98	1	17	69.78	150.98	1	
59	-15.83	70.12	151.37	1	17	69.96	151.37	1	
60	-15.83	70.16	151.37	1	17	69.99	151.37	1	
60	-15.89	70.43	151.96	1	17	70.26	151.96	1	
61	-15.89	70.49	151.96	1	17	70.32	151.96	1	
61	-16.00	71.03	153.04	1	17	70.84	153.04	1	
62	-16.00	71.01	153.04	1	24	70.98	153.04	1	
62	-16.10	38.58	154.02	1	13	57.26	154.02	A	12

*

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 [kN]	Rechts [kN]
Effectief	498.8	498.8
Water	1209.0	1209.0
Totaal	1707.8	1707.8

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	498.81 kN
Percentage gemobiliseerde weerstand	21.4 %

6 Stap 6.4 Fase 1: Fase 1: Na schade kadeconstructie

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau	Schelpfactor	OCR	Korreltype
	[m]	[-]	[-]	
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

6.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

6.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.55
3 Klei/zand (NZ)	68.66
4 Zand (NZ)	99.62
5 Klei (NZ)	132.03
6 zandlaag 1 (NZ)	178.22
7 klei (NZ)	7.73
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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
3.00	-3.00
3.50	-2.50
8.50	-2.50
10.00	1.90

6.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

6.4.5 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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

6.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.58
3	-3.36	0.0	10.3	0.00	1.72	7.73
4	-3.48	0.0	11.2	0.00	1.72	6.30
5	-3.60	0.0	11.9	0.00	1.71	5.62
6	-3.60	0.0	12.3	0.00	1.71	5.27
7	-3.72	0.0	13.0	0.00	1.71	4.85
8	-3.85	0.0	14.0	0.00	1.70	4.43
9	-3.97	0.0	14.9	0.00	1.69	4.11
10	-4.09	0.0	15.8	0.00	1.68	3.87
11	-4.21	0.0	16.5	0.00	1.68	3.71
12	-4.21	0.0	17.0	0.00	1.68	3.62
13	-4.34	0.0	17.7	0.00	1.67	3.50
14	-4.46	0.0	18.6	0.00	1.65	3.36
15	-4.58	0.0	19.5	0.00	1.64	3.24
16	-4.71	0.0	20.5	0.00	1.63	3.14
17	-4.83	0.0	21.2	0.00	1.62	3.07
18	-4.83	0.0	21.5	0.00	1.62	3.04
19	-4.86	0.0	21.7	0.00	1.62	3.02
20	-4.90	0.0	22.0	0.00	1.61	3.01
21	-4.93	0.0	22.5	0.00	1.61	3.02
22	-4.97	0.0	23.1	0.00	1.61	3.04
23	-5.00	0.0	23.5	0.00	1.58	3.03
24	-5.00	0.0	46.5	0.00	1.58	5.85
25	-5.07	0.0	50.4	0.00	1.41	6.07
26	-5.13	0.0	56.2	0.00	1.39	6.40
27	-5.20	0.0	62.8	0.00	1.36	6.78
28	-5.26	0.0	70.3	0.00	1.34	7.22
29	-5.33	0.0	76.6	0.00	1.32	7.59
30	-5.33	0.0	81.3	0.00	1.32	7.82
31	-5.43	0.0	55.8	0.00	1.30	5.10
32	-5.53	0.0	57.6	0.00	1.27	4.93
33	-5.63	0.0	59.6	0.00	1.25	4.80

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	61.7	0.00	1.23	4.69
35	-5.83	0.0	63.3	0.00	1.21	4.61
36	-5.83	0.0	64.5	0.00	1.21	4.56
37	-5.96	0.0	66.7	0.00	1.19	4.48
38	-6.10	0.0	69.7	0.00	1.17	4.38
39	-6.23	0.0	72.8	0.00	1.15	4.30
40	-6.36	0.0	75.8	0.00	1.13	4.23
41	-6.50	0.0	78.2	0.00	1.11	4.18
42	-6.50	2.9	80.4	0.15	1.11	4.19
43	-6.63	3.9	84.1	0.20	1.10	4.21
44	-6.76	4.3	89.6	0.20	1.08	4.26
45	-6.90	4.6	95.7	0.21	1.07	4.33
46	-7.03	4.9	102.1	0.21	1.05	4.42
47	-7.16	5.1	107.3	0.22	1.04	4.49
48	-7.16	5.3	110.8	0.22	1.04	4.54
49	-7.30	5.5	116.5	0.22	1.03	4.62
50	-7.43	7.1	124.5	0.27	1.02	4.73
51	-7.56	21.5	133.1	0.78	1.01	4.86
52	-7.70	20.8	142.3	0.73	0.99	5.00
53	-7.83	20.3	149.8	0.69	0.98	5.12
54	-7.83	23.8	153.7	0.80	0.98	5.18
55	-7.90	25.8	158.3	0.85	0.98	5.25
56	-7.98	26.0	164.4	0.85	0.97	5.35
57	-8.05	26.3	170.9	0.84	0.97	5.45
58	-8.13	26.6	177.6	0.83	0.96	5.56
59	-8.20	26.7	183.1	0.82	0.95	5.61
60	-8.20	29.3	218.3	0.88	0.95	6.57
61	-8.34	29.6	236.5	0.86	0.90	6.87
62	-8.47	30.1	263.4	0.84	0.88	7.31
63	-8.61	30.6	293.9	0.81	0.87	7.81
64	-8.74	31.1	329.1	0.79	0.86	8.38
65	-8.88	31.4	358.4	0.78	0.85	8.86
66	-8.88	31.6	377.2	0.77	0.85	9.17
67	-8.98	31.9	402.9	0.76	0.84	9.58
68	-9.08	32.3	441.2	0.75	0.83	10.20
69	-9.18	32.7	483.6	0.73	0.82	10.88
70	-9.28	33.0	532.5	0.72	0.82	11.67
71	-9.38	33.3	574.1	0.72	0.81	12.34
72	-9.38	33.4	583.9	0.71	0.81	12.46
73	-9.38	33.4	584.8	0.71	0.81	12.48
74	-9.38	33.4	586.0	0.71	0.81	12.50
75	-9.39	33.4	587.2	0.71	0.81	12.52
76	-9.39	33.4	588.5	0.71	0.81	12.54
77	-9.39	33.4	589.4	0.71	0.81	12.55
78	-9.39	33.5	598.6	0.71	0.81	12.73
79	-9.41	33.5	606.5	0.71	0.81	12.84
80	-9.43	33.6	621.0	0.71	0.81	13.08
81	-9.46	33.7	636.0	0.71	0.80	13.32
82	-9.48	33.8	651.6	0.70	0.80	13.57
83	-9.50	33.8	660.4	0.70	0.80	13.70
84	-9.50	33.9	675.3	0.70	0.80	13.94
85	-9.56	34.1	709.4	0.70	0.80	14.49
86	-9.62	34.3	755.8	0.69	0.79	15.22
87	-9.67	34.5	806.4	0.69	0.79	16.01
88	-9.73	34.7	863.9	0.68	0.79	16.92
89	-9.79	34.9	906.2	0.68	0.78	17.57
90	-9.79	35.0	931.5	0.68	0.78	17.97
91	-9.81	35.0	947.9	0.67	0.78	18.23
92	-9.83	35.1	970.4	0.67	0.78	18.59
93	-9.84	35.2	986.4	0.67	0.78	18.82
94	-9.86	35.3	1017.7	0.67	0.78	19.33
95	-9.88	35.3	1020.9	0.67	0.78	19.34
96	-9.88	35.3	1058.6	0.67	0.78	20.03
97	-9.88	35.3	1060.8	0.67	0.78	20.06

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	35.3	993.8	0.67	0.78	18.79
99	-9.89	35.3	1066.5	0.67	0.78	20.15
100	-9.89	35.4	1069.5	0.67	0.78	20.20
101	-9.89	35.4	1071.7	0.67	0.78	20.23
102	-9.89	35.4	1076.8	0.67	0.78	20.24
103	-9.97	35.7	1167.4	0.66	0.77	21.64
104	-10.05	36.0	1304.7	0.66	0.77	23.76
105	-10.13	36.3	2730.7	0.65	0.76	48.87
106	-10.21	36.6	393.6	0.64	0.76	6.92
107	-10.29	36.8	402.6	0.64	0.76	6.99
108	-10.29	36.9	406.4	0.64	0.76	7.02
109	-10.31	37.0	408.6	0.64	0.75	7.04
110	-10.33	37.0	411.4	0.64	0.75	7.06
111	-10.34	37.1	414.2	0.63	0.75	7.08
112	-10.36	37.2	417.1	0.63	0.75	7.11
113	-10.38	37.2	419.2	0.63	0.75	7.12
114	-10.38	37.2	420.0	0.63	0.75	7.13
115	-10.38	37.2	420.2	0.63	0.75	7.13
116	-10.38	37.2	420.6	0.63	0.75	7.13
117	-10.39	37.2	420.9	0.63	0.75	7.14
118	-10.39	37.3	421.2	0.63	0.75	7.14
119	-10.39	37.3	421.4	0.63	0.75	7.14
120	-10.39	37.3	424.8	0.63	0.75	7.17
121	-10.47	37.6	434.7	0.63	0.75	7.24
122	-10.55	37.9	448.0	0.62	0.74	7.34
123	-10.64	38.2	461.6	0.62	0.74	7.44
124	-10.72	38.5	475.3	0.61	0.73	7.54
125	-10.80	38.8	485.8	0.61	0.73	7.64
126	-10.80	39.3	428.1	0.62	0.73	6.72
127	-10.81	39.3	428.6	0.62	0.78	6.72
128	-10.81	39.3	429.4	0.62	0.78	6.73
129	-10.82	39.3	430.1	0.62	0.78	6.73
130	-10.82	39.4	430.9	0.62	0.78	6.74
131	-10.83	39.4	431.4	0.62	0.78	6.74
132	-10.83	39.4	434.5	0.61	0.78	6.77
133	-10.92	39.6	443.3	0.61	0.78	6.84
134	-11.01	39.7	454.3	0.60	0.77	6.93
135	-11.11	39.7	457.3	0.60	0.77	6.89
136	-11.20	39.8	458.1	0.59	0.77	6.82
137	-11.29	39.8	458.7	0.59	0.77	6.77
138	-11.29	39.9	459.0	0.59	0.77	6.75
139	-11.31	39.9	459.1	0.59	0.76	6.74
140	-11.33	39.9	459.3	0.58	0.76	6.72
141	-11.34	39.9	459.4	0.58	0.76	6.71
142	-11.36	39.9	459.6	0.58	0.76	6.70
143	-11.38	39.9	459.8	0.58	0.76	6.69
144	-11.38	39.9	459.8	0.58	0.76	6.69
145	-11.38	39.9	459.8	0.58	0.76	6.68
146	-11.38	39.9	459.9	0.58	0.76	6.68
147	-11.39	39.9	459.9	0.58	0.76	6.68
148	-11.39	39.9	459.9	0.58	0.76	6.68
149	-11.39	39.9	459.9	0.58	0.76	6.68
150	-11.39	39.9	460.0	0.58	0.76	6.68
151	-11.41	39.9	460.1	0.58	0.76	6.66
152	-11.43	40.0	460.4	0.58	0.76	6.65
153	-11.46	40.0	460.6	0.58	0.76	6.63
154	-11.48	40.0	460.8	0.57	0.76	6.62
155	-11.50	40.0	461.0	0.57	0.76	6.61
156	-11.50	40.0	461.3	0.57	0.76	6.59
157	-11.58	40.1	462.0	0.57	0.76	6.55
158	-11.66	40.2	462.9	0.56	0.75	6.50
159	-11.73	40.2	463.8	0.56	0.75	6.46
160	-11.81	40.3	464.8	0.56	0.75	6.41
161	-11.89	40.3	465.6	0.55	0.75	6.37

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	40.2	466.1	0.55	0.75	6.35
163	-11.97	40.2	466.9	0.54	0.74	6.32
164	-12.05	40.2	468.0	0.54	0.74	6.27
165	-12.13	40.2	469.1	0.53	0.74	6.23
166	-12.21	40.3	470.2	0.53	0.74	6.19
167	-12.29	40.3	471.1	0.53	0.74	6.16
168	-12.29	40.3	471.5	0.52	0.74	6.15
169	-12.31	40.3	471.7	0.52	0.73	6.14
170	-12.33	40.3	472.0	0.52	0.73	6.13
171	-12.34	40.3	472.2	0.52	0.73	6.12
172	-12.36	40.3	472.5	0.52	0.73	6.11
173	-12.38	40.3	472.7	0.52	0.73	6.10
174	-12.38	40.3	472.8	0.52	0.73	6.10
175	-12.38	40.3	472.8	0.52	0.73	6.10
176	-12.38	40.3	472.8	0.52	0.73	6.10
177	-12.39	40.3	472.9	0.52	0.73	6.10
178	-12.39	40.3	472.9	0.52	0.73	6.10
179	-12.39	40.3	472.9	0.52	0.73	6.10
180	-12.39	40.3	473.0	0.52	0.73	6.09
181	-12.41	40.3	473.3	0.52	0.73	6.09
182	-12.43	40.3	473.6	0.52	0.73	6.08
183	-12.46	40.3	473.9	0.52	0.73	6.07
184	-12.48	40.3	474.2	0.51	0.73	6.05
185	-12.50	40.3	474.3	0.51	0.73	6.04
186	-12.50	40.3	474.4	0.51	0.73	6.03
187	-12.56	40.3	474.7	0.51	0.73	6.01
188	-12.62	40.3	475.1	0.51	0.73	5.97
189	-12.67	40.4	475.5	0.50	0.73	5.94
190	-12.73	40.4	476.1	0.50	0.72	5.91
191	-12.79	40.4	476.8	0.50	0.72	5.89
192	-12.79	40.4	477.3	0.50	0.72	5.88
193	-12.87	40.4	478.9	0.49	0.72	5.86
194	-12.95	40.5	483.8	0.49	0.72	5.87
195	-13.04	40.5	489.3	0.49	0.72	5.88
196	-13.12	40.6	495.1	0.48	0.71	5.90
197	-13.20	40.6	499.4	0.48	0.71	5.90
198	-13.20	39.3	572.5	0.46	0.71	6.74
199	-13.23	39.4	574.3	0.46	0.66	6.74
200	-13.25	39.4	577.5	0.46	0.66	6.75
201	-13.28	39.4	580.9	0.46	0.66	6.77
202	-13.30	39.5	584.3	0.46	0.66	6.78
203	-13.33	39.5	586.9	0.46	0.66	6.79
204	-13.33	39.6	592.6	0.46	0.66	6.82
205	-13.48	40.4	607.1	0.46	0.66	6.88
206	-13.62	39.6	626.6	0.44	0.65	6.96
207	-13.77	40.8	637.8	0.44	0.65	6.95
208	-13.91	41.4	639.7	0.44	0.64	6.84
209	-14.06	41.9	641.5	0.44	0.64	6.76
210	-14.06	42.2	642.8	0.44	0.64	6.71
211	-14.21	42.6	645.1	0.44	0.64	6.64
212	-14.35	43.2	648.4	0.44	0.63	6.56
213	-14.50	43.8	652.0	0.43	0.63	6.48
214	-14.64	44.3	655.9	0.43	0.63	6.40
215	-14.79	44.8	659.2	0.43	0.62	6.36
216	-14.79	44.9	660.7	0.43	0.62	6.34
217	-14.81	45.0	661.3	0.43	0.62	6.33
218	-14.83	45.1	661.9	0.43	0.62	6.33
219	-14.84	45.1	662.6	0.43	0.62	6.32
220	-14.86	45.2	663.3	0.43	0.62	6.32
221	-14.88	45.3	663.8	0.43	0.62	6.31
222	-14.88	45.3	664.2	0.43	0.62	6.31
223	-14.90	45.4	664.9	0.43	0.62	6.30
224	-14.93	45.5	665.9	0.43	0.62	6.29
225	-14.95	45.6	666.8	0.43	0.62	6.28

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	45.7	667.6	0.43	0.62	6.27
227	-15.00	45.7	668.1	0.43	0.62	6.27
228	-15.00	45.8	668.9	0.43	0.62	6.26
229	-15.08	46.1	669.3	0.43	0.62	6.22
230	-15.16	46.4	666.3	0.43	0.62	6.14
231	-15.23	46.7	660.3	0.43	0.61	6.03
232	-15.31	47.0	651.3	0.43	0.61	5.90
233	-15.39	47.2	639.9	0.42	0.61	5.76
234	-15.39	47.3	635.0	0.42	0.61	5.70
235	-15.41	47.4	631.9	0.42	0.61	5.66
236	-15.43	47.5	627.8	0.42	0.61	5.61
237	-15.46	47.5	623.7	0.42	0.61	5.56
238	-15.48	47.6	613.1	0.42	0.61	5.45
239	-15.50	47.7	633.1	0.42	0.61	5.62
240	-15.50	47.8	620.2	0.42	0.61	5.49
241	-15.56	47.9	622.0	0.42	0.61	5.48
242	-15.62	48.2	624.3	0.42	0.61	5.47
243	-15.67	48.4	626.7	0.42	0.61	5.46
244	-15.73	48.6	629.1	0.42	0.60	5.45
245	-15.79	48.8	630.9	0.42	0.60	5.44
246	-15.79	48.8	631.6	0.42	0.60	5.43
247	-15.80	48.9	631.8	0.42	0.60	5.43
248	-15.81	48.9	632.1	0.42	0.60	5.43
249	-15.81	48.9	632.5	0.42	0.60	5.43
250	-15.82	49.0	632.8	0.42	0.60	5.43
251	-15.83	49.0	633.0	0.42	0.60	5.43
252	-15.83	49.0	633.2	0.42	0.60	5.43
253	-15.84	49.0	633.6	0.42	0.60	5.42
254	-15.85	49.1	634.1	0.42	0.60	5.42
255	-15.87	49.1	634.6	0.42	0.60	5.42
256	-15.88	49.2	635.1	0.42	0.60	5.42
257	-15.89	49.2	635.5	0.42	0.60	5.41
258	-15.89	49.3	635.8	0.42	0.60	5.41
259	-15.91	49.3	636.5	0.42	0.60	5.41
260	-15.93	49.4	637.4	0.42	0.60	5.41
261	-15.96	49.5	638.3	0.42	0.60	5.40
262	-15.98	49.6	639.2	0.42	0.60	5.40
263	-16.00	49.6	639.9	0.42	0.60	5.40
264	-16.00	57.1	491.9	0.48	0.60	4.14
265	-16.02	57.2	492.2	0.48	0.70	4.14
266	-16.04	57.2	492.6	0.48	0.70	4.14
267	-16.06	57.3	492.9	0.48	0.70	4.14
268	-16.08	57.4	493.3	0.48	0.70	4.13
269	-16.10	57.4	493.6	0.48	0.48	4.13

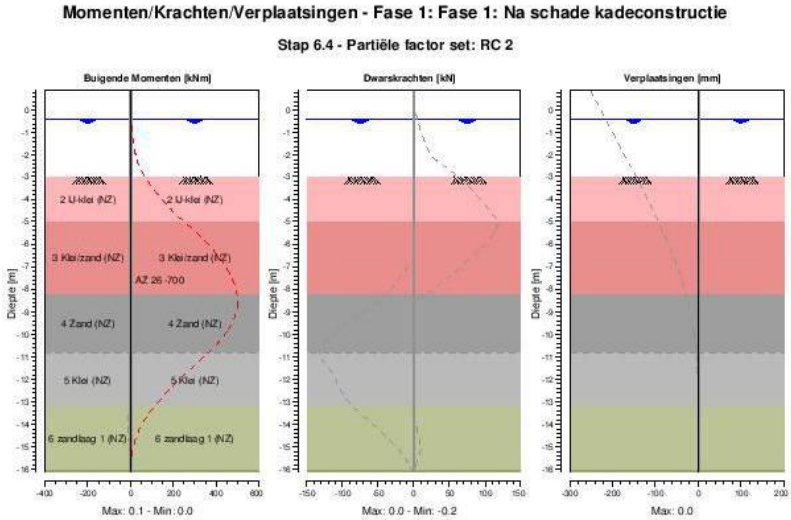
6.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.55
3 Klei/zand (NZ)	68.65
4 Zand (NZ)	99.65
5 Klei (NZ)	132.05
6 zandlaag 1 (NZ)	178.00
7 klei (NZ)	7.91
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

6.7 Berekeningsresultaten

Aantal iteraties: 2

6.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



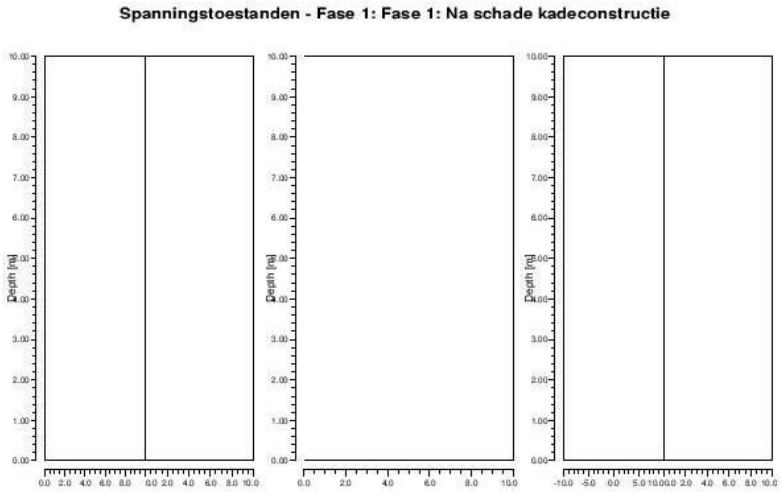
6.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**0.0**
1	0.60	0.00	0.00	**0.0**
2	0.60	0.00	0.00	**0.0**
2	0.40	0.00	0.00	**0.0**
3	0.40	0.00	0.00	**0.0**
3	0.20	0.00	0.00	**0.0**
4	0.20	0.00	0.00	**0.0**
4	0.17	0.00	0.00	**0.0**
5	0.17	0.00	0.00	**0.0**
5	-0.20	0.00	0.00	**0.0**
6	-0.20	0.00	0.00	**0.0**
6	-0.33	0.00	0.00	**0.0**
7	-0.33	0.00	0.00	**0.0**
7	-0.40	0.00	0.00	**0.0**
8	-0.40	0.00	0.00	**0.0**
8	-0.60	0.00	0.00	**0.0**
9	-0.60	0.00	0.00	**0.0**
9	-1.33	0.00	0.00	**0.0**
10	-1.33	0.00	0.00	**0.0**
10	-1.60	0.00	0.00	**0.0**
11	-1.60	0.00	0.00	**0.0**
11	-1.83	0.00	0.00	**0.0**
12	-1.83	0.00	0.00	**0.0**
12	-2.00	0.00	0.00	**0.0**
13	-2.00	0.00	0.00	**0.0**
13	-2.15	0.00	0.00	**0.0**
14	-2.15	0.00	0.00	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
14	-2.20	0.00	0.00	**0.0**
15	-2.20	0.00	0.00	**0.0**
15	-2.33	0.00	0.00	**0.0**
16	-2.33	0.00	0.00	**0.0**
16	-2.60	0.00	0.00	**0.0**
17	-2.60	0.00	0.00	**0.0**
17	-3.00	0.00	0.00	**0.0**
18	-3.00	0.00	0.00	**0.0**
18	-3.60	0.00	0.00	**0.0**
19	-3.60	0.00	0.00	**0.0**
19	-4.21	0.00	0.00	**0.0**
20	-4.21	0.00	0.00	**0.0**
20	-4.83	0.00	0.00	**0.0**
21	-4.83	0.00	0.00	**0.0**
21	-5.00	0.00	0.00	**0.0**
22	-5.00	0.00	0.00	**0.0**
22	-5.33	0.00	0.00	**0.0**
23	-5.33	0.00	0.00	**0.0**
23	-5.83	0.00	0.00	**0.0**
24	-5.83	0.00	0.00	**0.0**
24	-6.50	0.00	0.00	**0.0**
25	-6.50	0.00	0.00	**0.0**
25	-7.16	-0.01	-0.01	**0.0**
26	-7.16	-0.01	-0.01	**0.0**
26	-7.83	-0.01	-0.01	**0.0**
27	-7.83	-0.01	-0.01	**0.0**
27	-8.20	-0.01	-0.01	**0.0**
28	-8.20	-0.01	-0.01	**0.0**
28	-8.88	-0.02	0.00	**0.0**
29	-8.88	-0.02	0.00	**0.0**
29	-9.38	-0.02	0.00	**0.0**
30	-9.38	-0.02	0.00	**0.0**
30	-9.39	-0.02	0.00	**0.0**
31	-9.39	-0.02	0.00	**0.0**
31	-9.50	-0.02	0.00	**0.0**
32	-9.50	-0.02	0.00	**0.0**
32	-9.79	-0.02	0.01	**0.0**
33	-9.79	-0.02	0.01	**0.0**
33	-9.88	-0.02	0.01	**0.0**
34	-9.88	-0.02	0.01	**0.0**
34	-9.89	-0.02	0.01	**0.0**
35	-9.89	-0.02	0.01	**0.0**
35	-10.29	-0.01	0.01	**0.0**
36	-10.29	-0.01	0.01	**0.0**
36	-10.38	-0.01	0.01	**0.0**
37	-10.38	-0.01	0.01	**0.0**
37	-10.39	-0.01	0.02	**0.0**
38	-10.39	-0.01	0.02	**0.0**
38	-10.80	0.00	0.02	**0.0**
39	-10.80	0.00	0.02	**0.0**
39	-10.83	0.00	0.02	**0.0**
40	-10.83	0.00	0.02	**0.0**
40	-11.29	0.01	0.02	**0.0**
41	-11.29	0.01	0.02	**0.0**
41	-11.38	0.01	0.02	**0.0**
42	-11.38	0.01	0.02	**0.0**
42	-11.39	0.01	0.02	**0.0**
43	-11.39	0.01	0.02	**0.0**
43	-11.50	0.01	0.02	**0.0**
44	-11.50	0.01	0.02	**0.0**
44	-11.89	0.02	0.02	**0.0**
45	-11.89	0.02	0.02	**0.0**
45	-12.29	0.03	0.03	**0.0**
46	-12.29	0.03	0.03	**0.0**
46	-12.38	0.04	0.03	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
47	-12.38	0.04	0.03	**0.0**
47	-12.39	0.04	0.03	**0.0**
48	-12.39	0.04	0.03	**0.0**
48	-12.50	0.04	0.03	**0.0**
49	-12.50	0.04	0.03	**0.0**
49	-12.79	0.05	0.03	**0.0**
50	-12.79	0.05	0.03	**0.0**
50	-13.20	0.06	0.03	**0.0**
51	-13.20	0.06	0.03	**0.0**
51	-13.33	0.06	0.04	**0.0**
52	-13.33	0.06	0.04	**0.0**
52	-14.06	0.09	0.03	**0.0**
53	-14.06	0.09	0.03	**0.0**
53	-14.79	**0.11**	0.00	**0.0**
54	-14.79	**0.11**	0.00	**0.0**
54	-14.88	**0.11**	-0.01	**0.0**
55	-14.88	**0.11**	-0.01	**0.0**
55	-15.00	**0.11**	-0.02	**0.0**
56	-15.00	**0.11**	-0.02	**0.0**
56	-15.39	0.09	-0.06	**0.0**
57	-15.39	0.09	-0.06	**0.0**
57	-15.50	0.08	-0.08	**0.0**
58	-15.50	0.08	-0.08	**0.0**
58	-15.79	0.05	-0.14	**0.0**
59	-15.79	0.05	-0.14	**0.0**
59	-15.83	0.04	-0.14	**0.0**
60	-15.83	0.04	-0.14	**0.0**
60	-15.89	0.04	-0.16	**0.0**
61	-15.89	0.04	-0.16	**0.0**
61	-16.00	0.02	**-0.18**	**0.0**
62	-16.00	0.02	**-0.18**	**0.0**
62	-16.10	0.00	0.00	**0.0**
Max		**0.11**	**-0.18**	**0.0**
Max incl. tussenknopen		0.11	-0.19	0.0

6.7.3 Grafieken van Spanningen



6.7.4 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	0.90	0.00	0.00	-		0.00	0.00	-	
1	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
5	0.17	0.00	0.00	-		0.00	0.00	-	
5	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-3.00	0.00	25.51	-		0.00	25.51	-	
18	-3.00	0.00	25.51	3		0.00	25.51	P	
18	-3.60	3.62	31.39	1	31	3.62	31.39	1	
19	-3.60	4.01	31.39	1	33	4.01	31.39	1	
19	-4.21	7.46	37.43	1	45	7.46	37.43	1	
20	-4.21	7.85	37.43	1	46	7.86	37.43	1	
20	-4.83	11.19	43.46	2	53	11.18	43.46	2	
21	-4.83	11.44	43.46	2	53	11.44	43.46	2	
21	-5.00	12.17	45.13	2	54	12.17	45.13	2	
22	-5.00	12.40	45.13	1	30	12.41	45.13	1	
22	-5.33	13.23	48.36	1	28	13.22	48.36	1	
23	-5.33	13.61	48.36	1	29	13.62	48.36	1	
23	-5.83	16.51	53.27	1	29	16.50	53.27	1	
24	-5.83	17.02	53.27	1	29	17.03	53.27	1	
24	-6.50	20.73	59.81	1	28	20.72	59.81	1	
25	-6.50	21.27	59.81	1	28	21.29	59.81	1	
25	-7.16	24.82	66.35	1	28	24.79	66.35	1	
26	-7.16	25.33	66.35	1	28	25.34	66.35	1	
26	-7.83	28.69	72.89	1	27	28.66	72.89	1	
27	-7.83	29.07	72.89	1	27	29.08	72.89	1	
27	-8.20	30.58	76.52	1	27	30.59	76.52	1	
28	-8.20	31.09	76.52	1	25	31.11	76.52	1	
28	-8.88	33.97	83.19	1	23	33.97	83.19	1	
29	-8.88	34.54	83.19	1	23	34.56	83.19	1	
29	-9.38	37.37	88.09	1	22	37.37	88.09	1	
30	-9.38	37.61	88.09	1	22	37.62	88.09	1	
30	-9.39	37.67	88.19	1	22	37.68	88.19	1	
31	-9.39	37.72	88.19	1	22	37.74	88.19	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]		[%]
31	-9.50	38.33	89.27	1	22	38.34	89.27	1	
32	-9.50	38.52	89.27	1	22	38.54	89.27	1	
32	-9.79	40.12	92.12	1	21	40.12	92.12	1	
33	-9.79	40.29	92.12	1	21	40.30	92.12	1	
33	-9.88	40.78	93.00	1	21	40.79	93.00	1	
34	-9.88	40.82	93.00	1	21	40.84	93.00	1	
34	-9.89	40.88	93.10	1	21	40.89	93.10	1	
35	-9.89	41.06	93.10	1	21	41.08	93.10	1	
35	-10.29	43.21	97.02	1	20	43.22	97.02	1	
36	-10.29	43.43	97.02	1	20	43.45	97.02	1	
36	-10.38	43.91	97.90	1	20	43.92	97.90	1	
37	-10.38	43.95	97.90	1	20	43.97	97.90	1	
37	-10.39	44.00	98.00	1	20	44.02	98.00	1	
38	-10.39	44.19	98.00	1	20	44.21	98.00	1	
38	-10.80	46.57	102.02	1	20	46.56	102.02	1	
39	-10.80	46.75	102.02	1	23	46.75	102.02	1	
39	-10.83	49.83	102.32	1	25	49.83	102.32	1	
40	-10.83	49.97	102.32	1	25	49.99	102.32	1	
40	-11.29	51.80	106.83	1	25	51.79	106.83	1	
41	-11.29	51.96	106.83	1	25	51.97	106.83	1	
41	-11.38	52.32	107.71	1	25	52.32	107.71	1	
42	-11.38	52.35	107.71	1	25	52.35	107.71	1	
42	-11.39	52.38	107.81	1	25	52.39	107.81	1	
43	-11.39	52.42	107.81	1	25	52.43	107.81	1	
43	-11.50	52.85	108.89	1	25	52.85	108.89	1	
44	-11.50	52.99	108.89	1	25	53.01	108.89	1	
44	-11.89	54.48	112.72	1	24	54.48	112.72	1	
45	-11.89	54.71	112.72	1	24	54.73	112.72	1	
45	-12.29	56.21	116.64	1	24	56.20	116.64	1	
46	-12.29	56.35	116.64	1	24	56.36	116.64	1	
46	-12.38	56.68	117.52	1	24	56.68	117.52	1	
47	-12.38	56.71	117.52	1	24	56.72	117.52	1	
47	-12.39	56.75	117.62	1	24	56.75	117.62	1	
48	-12.39	56.78	117.62	1	24	56.79	117.62	1	
48	-12.50	57.18	118.70	1	24	57.19	118.70	1	
49	-12.50	57.30	118.70	1	24	57.31	118.70	1	
49	-12.79	58.35	121.55	1	24	58.35	121.55	1	
50	-12.79	58.55	121.55	1	24	58.57	121.55	1	
50	-13.20	59.77	125.57	1	24	59.81	125.57	1	
51	-13.20	59.96	125.57	1	20	59.98	125.57	1	
51	-13.33	56.75	126.84	1	18	56.76	126.84	1	
52	-13.33	57.09	126.84	1	18	57.10	126.84	1	
52	-14.06	60.49	134.00	1	18	60.47	134.00	1	
53	-14.06	61.05	134.00	1	18	61.03	134.00	1	
53	-14.79	64.40	141.17	1	17	64.32	141.17	1	
54	-14.79	64.71	141.17	1	17	64.63	141.17	1	
54	-14.88	65.12	142.05	1	17	65.03	142.05	1	
55	-14.88	65.20	142.05	1	17	65.11	142.05	1	
55	-15.00	65.75	143.23	1	17	65.65	143.23	1	
56	-15.00	65.94	143.23	1	17	65.84	143.23	1	
56	-15.39	67.71	147.05	1	17	67.56	147.05	1	
57	-15.39	67.89	147.05	1	17	67.74	147.05	1	
57	-15.50	68.39	148.13	1	17	68.23	148.13	1	
58	-15.50	68.54	148.13	1	17	68.37	148.13	1	
58	-15.79	69.84	150.98	1	17	69.64	150.98	1	
59	-15.79	69.96	150.98	1	17	69.76	150.98	1	
59	-15.83	70.15	151.37	1	17	69.93	151.37	1	
60	-15.83	70.18	151.37	1	17	69.97	151.37	1	
60	-15.89	70.45	151.96	1	17	70.23	151.96	1	
61	-15.89	70.51	151.96	1	17	70.29	151.96	1	
61	-16.00	71.05	153.04	1	17	70.81	153.04	1	
62	-16.00	71.02	153.04	1	24	70.97	153.04	1	
62	-16.10	38.59	154.02	1	13	57.26	154.02	A	12

*

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 [kN]	Rechts [kN]
Effectief	498.8	498.8
Water	1209.0	1209.0
Totaal	1707.8	1707.8

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	498.81 kN
Percentage gemobiliseerde weerstand	21.4 %

7 Stap 6.5 Fase 1: Fase 1: Na schade kadeconstructie

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

7.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	11.4	0.00	1.73	25.66
2	-3.24	0.0	12.4	0.00	1.73	14.00
3	-3.36	0.0	13.4	0.00	1.73	10.11
4	-3.48	0.0	14.5	0.00	1.72	8.17
5	-3.60	0.0	15.2	0.00	1.72	7.25
6	-3.60	0.0	15.8	0.00	1.72	6.78
7	-3.72	0.0	16.6	0.00	1.72	6.21
8	-3.85	0.0	17.6	0.00	1.72	5.65
9	-3.97	0.0	18.7	0.00	1.72	5.23
10	-4.09	0.0	19.8	0.00	1.71	4.90
11	-4.21	0.0	20.6	0.00	1.71	4.70
12	-4.21	0.0	21.1	0.00	1.71	4.59
13	-4.34	0.0	21.9	0.00	1.70	4.43
14	-4.46	0.0	22.9	0.00	1.70	4.25
15	-4.58	0.0	24.0	0.00	1.70	4.11
16	-4.71	0.0	25.1	0.00	1.69	3.98
17	-4.83	0.0	25.9	0.00	1.69	3.89
18	-4.83	0.0	26.2	0.00	1.69	3.86
19	-4.86	0.0	26.4	0.00	1.68	3.84
20	-4.90	0.0	26.7	0.00	1.68	3.81
21	-4.93	0.0	27.0	0.00	1.68	3.79
22	-4.97	0.0	27.3	0.00	1.68	3.76
23	-5.00	0.0	27.5	0.00	1.66	3.70
24	-5.00	0.0	61.6	0.00	1.66	8.11
25	-5.07	0.0	60.8	0.00	1.48	7.68
26	-5.13	0.0	61.2	0.00	1.45	7.31
27	-5.20	0.0	62.2	0.00	1.43	7.06
28	-5.26	0.0	63.6	0.00	1.41	6.87
29	-5.33	0.0	64.7	0.00	1.40	6.75
30	-5.33	0.0	65.7	0.00	1.40	6.67
31	-5.43	0.0	67.7	0.00	1.37	6.53
32	-5.53	0.0	70.4	0.00	1.35	6.38
33	-5.63	0.0	73.2	0.00	1.33	6.26

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	76.1	0.00	1.31	6.15
35	-5.83	0.0	78.3	0.00	1.29	6.08
36	-5.83	0.0	80.0	0.00	1.29	6.03
37	-5.96	0.0	83.0	0.00	1.27	5.96
38	-6.10	0.0	87.0	0.00	1.25	5.87
39	-6.23	0.0	91.0	0.00	1.24	5.79
40	-6.36	0.0	95.1	0.00	1.22	5.73
41	-6.50	0.0	98.1	0.00	1.21	5.68
42	-6.50	0.0	100.2	0.00	1.21	5.65
43	-6.63	0.0	103.2	0.00	1.19	5.62
44	-6.76	0.0	107.3	0.00	1.18	5.57
45	-6.90	0.0	111.4	0.00	1.17	5.52
46	-7.03	0.0	115.5	0.00	1.16	5.49
47	-7.16	0.0	118.6	0.00	1.15	5.46
48	-7.16	0.0	120.7	0.00	1.15	5.44
49	-7.30	0.0	123.8	0.00	1.14	5.42
50	-7.43	1.4	127.9	0.06	1.13	5.39
51	-7.56	4.5	132.0	0.18	1.12	5.36
52	-7.70	4.8	136.1	0.19	1.11	5.33
53	-7.83	5.0	139.2	0.19	1.10	5.32
54	-7.83	5.1	140.8	0.19	1.10	5.31
55	-7.90	5.2	142.6	0.19	1.09	5.30
56	-7.98	5.4	144.9	0.20	1.09	5.29
57	-8.05	5.5	147.2	0.20	1.09	5.27
58	-8.13	5.7	149.4	0.20	1.08	5.26
59	-8.20	5.8	151.2	0.20	1.07	5.22
60	-8.20	8.1	170.5	0.28	1.07	5.78
61	-8.34	8.4	176.2	0.28	1.01	5.77
62	-8.47	8.8	183.8	0.28	1.00	5.76
63	-8.61	9.2	191.5	0.28	0.98	5.75
64	-8.74	9.6	199.2	0.28	0.97	5.74
65	-8.88	9.9	205.0	0.28	0.96	5.74
66	-8.88	10.0	208.4	0.28	0.96	5.74
67	-8.98	10.3	212.7	0.28	0.95	5.73
68	-9.08	10.5	218.4	0.28	0.94	5.73
69	-9.18	10.8	224.1	0.28	0.94	5.73
70	-9.28	11.1	229.9	0.28	0.93	5.73
71	-9.38	11.3	234.2	0.28	0.92	5.72
72	-9.38	11.4	235.7	0.28	0.92	5.72
73	-9.38	11.4	235.8	0.28	0.92	5.72
74	-9.38	11.4	235.9	0.28	0.92	5.72
75	-9.39	11.4	236.0	0.28	0.92	5.72
76	-9.39	11.4	236.1	0.28	0.92	5.72
77	-9.39	11.4	236.2	0.28	0.92	5.72
78	-9.39	11.4	236.5	0.28	0.92	5.72
79	-9.41	11.5	237.5	0.28	0.92	5.72
80	-9.43	11.6	238.7	0.28	0.92	5.72
81	-9.46	11.6	240.0	0.28	0.92	5.72
82	-9.48	11.7	241.3	0.28	0.91	5.72
83	-9.50	11.7	242.2	0.28	0.91	5.72
84	-9.50	11.8	243.4	0.28	0.91	5.72
85	-9.56	11.9	245.9	0.28	0.91	5.72
86	-9.62	12.1	249.2	0.28	0.91	5.72
87	-9.67	12.2	252.6	0.28	0.90	5.72
88	-9.73	12.4	255.9	0.28	0.90	5.72
89	-9.79	12.5	258.4	0.28	0.89	5.72
90	-9.79	12.6	259.5	0.28	0.89	5.72
91	-9.81	12.6	260.3	0.28	0.89	5.72
92	-9.83	12.7	261.4	0.28	0.89	5.72
93	-9.84	12.7	262.4	0.28	0.89	5.72
94	-9.86	12.8	263.4	0.28	0.89	5.72
95	-9.88	12.8	264.2	0.28	0.89	5.72
96	-9.88	12.8	264.5	0.28	0.89	5.72
97	-9.88	12.8	264.6	0.28	0.89	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	12.8	264.7	0.28	0.89	5.72
99	-9.89	12.8	264.8	0.28	0.89	5.72
100	-9.89	12.8	264.9	0.28	0.89	5.72
101	-9.89	12.8	265.0	0.28	0.89	5.72
102	-9.89	12.9	266.2	0.28	0.89	5.72
103	-9.97	13.1	269.7	0.28	0.88	5.72
104	-10.05	13.3	274.3	0.28	0.88	5.72
105	-10.13	13.5	279.0	0.28	0.87	5.71
106	-10.21	13.8	283.6	0.28	0.87	5.71
107	-10.29	13.9	287.1	0.28	0.87	5.71
108	-10.29	14.0	288.5	0.28	0.87	5.71
109	-10.31	14.0	289.3	0.28	0.87	5.71
110	-10.33	14.1	290.3	0.28	0.86	5.71
111	-10.34	14.1	291.4	0.28	0.86	5.71
112	-10.36	14.2	292.4	0.28	0.86	5.71
113	-10.38	14.2	293.2	0.28	0.86	5.71
114	-10.38	14.2	293.5	0.28	0.86	5.71
115	-10.38	14.3	293.6	0.28	0.86	5.71
116	-10.38	14.3	293.7	0.28	0.86	5.71
117	-10.39	14.3	293.8	0.28	0.86	5.71
118	-10.39	14.3	293.9	0.28	0.86	5.71
119	-10.39	14.3	294.0	0.28	0.86	5.71
120	-10.39	14.3	295.2	0.28	0.86	5.71
121	-10.47	14.5	298.8	0.28	0.86	5.71
122	-10.55	14.7	303.6	0.28	0.85	5.71
123	-10.64	15.0	308.3	0.28	0.85	5.71
124	-10.72	15.2	313.1	0.28	0.84	5.71
125	-10.80	15.4	316.7	0.28	0.85	5.73
126	-10.80	14.7	258.5	0.27	0.85	4.67
127	-10.81	14.7	258.7	0.27	0.90	4.67
128	-10.81	14.7	258.8	0.27	0.90	4.67
129	-10.82	14.8	259.0	0.27	0.90	4.67
130	-10.82	14.8	259.2	0.27	0.90	4.67
131	-10.83	14.8	259.3	0.27	0.90	4.67
132	-10.83	14.8	260.0	0.27	0.90	4.67
133	-10.92	15.0	262.0	0.27	0.90	4.66
134	-11.01	15.2	264.6	0.27	0.89	4.66
135	-11.11	15.4	267.3	0.27	0.89	4.65
136	-11.20	15.6	269.9	0.27	0.89	4.65
137	-11.29	15.7	271.9	0.27	0.89	4.65
138	-11.29	15.8	272.7	0.27	0.89	4.65
139	-11.31	15.8	273.1	0.27	0.89	4.65
140	-11.33	15.9	273.6	0.27	0.89	4.65
141	-11.34	15.9	274.1	0.27	0.89	4.64
142	-11.36	15.9	274.6	0.27	0.89	4.64
143	-11.38	16.0	275.0	0.27	0.88	4.64
144	-11.38	16.0	275.2	0.27	0.88	4.64
145	-11.38	16.0	275.2	0.27	0.88	4.64
146	-11.38	16.0	275.3	0.27	0.88	4.64
147	-11.39	16.0	275.3	0.27	0.88	4.64
148	-11.39	16.0	275.4	0.27	0.88	4.64
149	-11.39	16.0	275.4	0.27	0.88	4.64
150	-11.39	16.0	275.6	0.27	0.88	4.64
151	-11.41	16.1	276.1	0.27	0.88	4.64
152	-11.43	16.1	276.7	0.27	0.88	4.64
153	-11.46	16.1	277.3	0.27	0.88	4.64
154	-11.48	16.2	278.0	0.27	0.88	4.64
155	-11.50	16.2	278.4	0.27	0.88	4.64
156	-11.50	16.3	279.2	0.27	0.88	4.64
157	-11.58	16.4	280.9	0.27	0.88	4.64
158	-11.66	16.6	283.1	0.27	0.88	4.63
159	-11.73	16.8	285.3	0.27	0.88	4.63
160	-11.81	16.9	287.6	0.27	0.87	4.63
161	-11.89	17.0	289.3	0.27	0.87	4.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	17.1	290.4	0.27	0.87	4.62
163	-11.97	17.3	292.1	0.27	0.87	4.62
164	-12.05	17.4	294.5	0.27	0.87	4.62
165	-12.13	17.6	296.8	0.27	0.87	4.62
166	-12.21	17.8	299.1	0.27	0.86	4.61
167	-12.29	17.9	300.8	0.27	0.86	4.61
168	-12.29	18.0	301.5	0.27	0.86	4.61
169	-12.31	18.0	301.9	0.27	0.86	4.61
170	-12.33	18.0	302.4	0.28	0.86	4.61
171	-12.34	18.1	302.9	0.28	0.86	4.61
172	-12.36	18.1	303.5	0.28	0.86	4.61
173	-12.38	18.1	303.8	0.28	0.86	4.61
174	-12.38	18.2	304.0	0.28	0.86	4.61
175	-12.38	18.2	304.0	0.28	0.86	4.61
176	-12.38	18.2	304.1	0.28	0.86	4.61
177	-12.39	18.2	304.2	0.28	0.86	4.61
178	-12.39	18.2	304.2	0.28	0.86	4.61
179	-12.39	18.2	304.3	0.28	0.86	4.61
180	-12.39	18.2	304.4	0.28	0.86	4.61
181	-12.41	18.2	304.9	0.28	0.86	4.61
182	-12.43	18.3	305.5	0.28	0.86	4.61
183	-12.46	18.3	306.2	0.28	0.86	4.61
184	-12.48	18.4	306.8	0.28	0.86	4.61
185	-12.50	18.4	307.3	0.28	0.86	4.61
186	-12.50	18.4	307.9	0.28	0.86	4.61
187	-12.56	18.5	309.1	0.28	0.86	4.60
188	-12.62	18.7	310.8	0.28	0.86	4.60
189	-12.67	18.8	312.5	0.28	0.85	4.60
190	-12.73	18.9	314.1	0.28	0.85	4.60
191	-12.79	19.0	315.4	0.28	0.85	4.60
192	-12.79	19.1	316.4	0.28	0.85	4.60
193	-12.87	19.2	318.2	0.28	0.85	4.60
194	-12.95	19.4	320.6	0.28	0.85	4.59
195	-13.04	19.6	322.9	0.28	0.85	4.59
196	-13.12	19.8	325.3	0.28	0.84	4.59
197	-13.20	19.9	327.1	0.28	0.84	4.57
198	-13.20	19.9	411.9	0.28	0.84	5.74
199	-13.23	20.0	413.0	0.28	0.79	5.74
200	-13.25	20.1	414.5	0.28	0.78	5.74
201	-13.28	20.2	416.0	0.28	0.78	5.74
202	-13.30	20.2	417.5	0.28	0.78	5.74
203	-13.33	20.3	418.6	0.28	0.78	5.74
204	-13.33	20.4	421.1	0.28	0.78	5.74
205	-13.48	20.7	427.4	0.28	0.78	5.73
206	-13.62	21.1	435.8	0.28	0.77	5.73
207	-13.77	21.5	444.3	0.28	0.77	5.73
208	-13.91	22.0	452.7	0.28	0.76	5.73
209	-14.06	22.3	459.1	0.28	0.76	5.73
210	-14.06	22.5	463.3	0.28	0.76	5.73
211	-14.21	22.8	469.6	0.28	0.75	5.73
212	-14.35	23.2	478.1	0.28	0.75	5.73
213	-14.50	23.6	486.5	0.28	0.75	5.73
214	-14.64	24.0	495.0	0.28	0.74	5.73
215	-14.79	24.4	501.4	0.28	0.74	5.73
216	-14.79	24.5	503.7	0.28	0.74	5.73
217	-14.81	24.5	504.5	0.28	0.74	5.73
218	-14.83	24.6	505.6	0.28	0.74	5.73
219	-14.84	24.6	506.6	0.28	0.74	5.73
220	-14.86	24.7	507.7	0.28	0.74	5.73
221	-14.88	24.7	508.4	0.28	0.74	5.73
222	-14.88	24.7	509.1	0.28	0.74	5.73
223	-14.90	24.8	510.1	0.28	0.74	5.73
224	-14.93	24.8	511.5	0.28	0.73	5.73
225	-14.95	24.9	512.9	0.28	0.73	5.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	25.0	514.3	0.28	0.73	5.73
227	-15.00	25.0	515.3	0.28	0.73	5.73
228	-15.00	25.1	516.8	0.28	0.73	5.73
229	-15.08	25.3	520.2	0.28	0.73	5.73
230	-15.16	25.5	524.7	0.28	0.73	5.73
231	-15.23	25.7	529.3	0.28	0.73	5.73
232	-15.31	25.9	533.8	0.28	0.73	5.72
233	-15.39	26.1	537.2	0.28	0.72	5.72
234	-15.39	26.2	538.7	0.28	0.72	5.72
235	-15.41	26.2	539.6	0.28	0.72	5.72
236	-15.43	26.3	540.9	0.28	0.72	5.72
237	-15.46	26.4	542.2	0.28	0.72	5.72
238	-15.48	26.4	543.5	0.28	0.72	5.72
239	-15.50	26.5	544.4	0.28	0.72	5.72
240	-15.50	26.5	545.6	0.28	0.72	5.72
241	-15.56	26.6	548.1	0.28	0.72	5.72
242	-15.62	26.8	551.5	0.28	0.72	5.72
243	-15.67	27.0	554.9	0.28	0.72	5.72
244	-15.73	27.1	558.2	0.28	0.72	5.72
245	-15.79	27.3	560.8	0.28	0.71	5.72
246	-15.79	27.3	561.7	0.28	0.71	5.72
247	-15.80	27.3	562.1	0.28	0.71	5.72
248	-15.81	27.3	562.5	0.28	0.71	5.72
249	-15.81	27.4	563.0	0.28	0.71	5.72
250	-15.82	27.4	563.5	0.28	0.71	5.72
251	-15.83	27.4	563.8	0.28	0.71	5.72
252	-15.83	27.4	564.1	0.28	0.71	5.72
253	-15.84	27.5	564.6	0.28	0.71	5.72
254	-15.85	27.5	565.3	0.28	0.71	5.72
255	-15.87	27.5	566.0	0.28	0.71	5.72
256	-15.88	27.6	566.7	0.28	0.71	5.72
257	-15.89	27.6	567.2	0.28	0.71	5.72
258	-15.89	27.6	567.7	0.28	0.71	5.72
259	-15.91	27.7	568.7	0.28	0.71	5.72
260	-15.93	27.7	570.0	0.28	0.71	5.72
261	-15.96	27.8	571.3	0.28	0.71	5.72
262	-15.98	27.8	572.5	0.28	0.71	5.72
263	-16.00	27.9	573.5	0.28	0.71	5.73
264	-16.00	32.2	361.6	0.32	0.71	3.61
265	-16.02	32.3	361.9	0.32	0.83	3.61
266	-16.04	32.3	362.4	0.32	0.83	3.61
267	-16.06	32.4	362.9	0.32	0.83	3.61
268	-16.08	32.5	363.3	0.32	0.83	3.61
269	-16.10	32.5	363.7	0.32	0.32	3.61

7.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.55
3 Klei/zand (NZ)	68.66
4 Zand (NZ)	99.61
5 Klei (NZ)	132.04
6 zandlaag 1 (NZ)	178.21
7 klei (NZ)	7.67
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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
3.00	-3.00
3.50	-2.50
8.50	-2.50
10.00	1.90

7.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

7.4.5 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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

7.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	11.4	0.00	1.73	25.65
2	-3.24	0.0	12.4	0.00	1.73	13.99
3	-3.36	0.0	13.4	0.00	1.72	10.10
4	-3.48	0.0	14.5	0.00	1.72	8.14
5	-3.60	0.0	15.2	0.00	1.71	7.22
6	-3.60	0.0	15.8	0.00	1.71	6.74
7	-3.72	0.0	16.6	0.00	1.71	6.17
8	-3.85	0.0	17.6	0.00	1.70	5.59
9	-3.97	0.0	18.7	0.00	1.69	5.16
10	-4.09	0.0	19.8	0.00	1.68	4.83
11	-4.21	0.0	20.6	0.00	1.68	4.62
12	-4.21	0.0	21.1	0.00	1.68	4.49
13	-4.34	0.0	21.9	0.00	1.67	4.33
14	-4.46	0.0	22.9	0.00	1.65	4.14
15	-4.58	0.0	24.0	0.00	1.64	3.98
16	-4.71	0.0	25.1	0.00	1.63	3.84
17	-4.83	0.0	26.2	0.00	1.62	3.80
18	-4.83	0.0	27.1	0.00	1.62	3.84
19	-4.86	0.0	27.7	0.00	1.62	3.86
20	-4.90	0.0	28.4	0.00	1.61	3.89
21	-4.93	0.0	29.2	0.00	1.61	3.93
22	-4.97	0.0	30.0	0.00	1.61	3.96
23	-5.00	0.0	30.7	0.00	1.58	3.95
24	-5.00	0.0	79.6	0.00	1.58	10.01
25	-5.07	0.0	89.9	0.00	1.41	10.82
26	-5.13	0.0	106.4	0.00	1.39	12.12
27	-5.20	0.0	103.6	0.00	1.36	11.19
28	-5.26	0.0	71.5	0.00	1.34	7.35
29	-5.33	0.0	72.2	0.00	1.32	7.15
30	-5.33	0.0	73.0	0.00	1.32	7.02
31	-5.43	0.0	74.5	0.00	1.30	6.81
32	-5.53	0.0	76.8	0.00	1.27	6.58
33	-5.63	0.0	79.3	0.00	1.25	6.39

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	82.0	0.00	1.23	6.23
35	-5.83	0.0	84.0	0.00	1.21	6.13
36	-5.83	0.0	85.7	0.00	1.21	6.05
37	-5.96	0.0	88.5	0.00	1.19	5.94
38	-6.10	0.0	92.4	0.00	1.17	5.81
39	-6.23	0.0	96.8	0.00	1.15	5.72
40	-6.36	0.0	104.5	0.00	1.13	5.83
41	-6.50	0.0	111.7	0.00	1.11	5.97
42	-6.50	0.0	116.8	0.00	1.11	6.08
43	-6.63	0.0	125.0	0.00	1.10	6.25
44	-6.76	0.0	136.5	0.00	1.08	6.49
45	-6.90	0.0	148.4	0.00	1.07	6.72
46	-7.03	0.0	161.4	0.00	1.05	6.98
47	-7.16	0.0	172.2	0.00	1.04	7.20
48	-7.16	0.0	179.7	0.00	1.04	7.35
49	-7.30	0.0	192.1	0.00	1.03	7.61
50	-7.43	1.4	210.1	0.05	1.02	7.99
51	-7.56	4.5	230.5	0.17	1.01	8.42
52	-7.70	4.7	253.3	0.17	0.99	8.90
53	-7.83	4.8	272.5	0.16	0.98	9.31
54	-7.83	4.8	282.8	0.16	0.98	9.52
55	-7.90	4.9	295.4	0.16	0.98	9.80
56	-7.98	4.9	312.3	0.16	0.97	10.16
57	-8.05	5.0	331.1	0.16	0.97	10.56
58	-8.13	5.0	350.7	0.16	0.96	10.98
59	-8.20	5.1	367.7	0.16	0.95	11.28
60	-8.20	7.3	515.9	0.22	0.95	15.53
61	-8.34	7.5	597.5	0.22	0.90	17.36
62	-8.47	7.7	737.0	0.21	0.88	20.46
63	-8.61	7.9	929.9	0.21	0.87	24.71
64	-8.74	20.5	1212.3	0.52	0.86	30.89
65	-8.88	26.9	1510.9	0.66	0.85	37.34
66	-8.88	27.1	1744.3	0.66	0.85	42.38
67	-8.98	27.3	2140.0	0.65	0.84	50.89
68	-9.08	27.6	2924.0	0.64	0.83	67.61
69	-9.18	27.9	793.2	0.63	0.82	17.85
70	-9.28	28.3	440.4	0.62	0.82	9.65
71	-9.38	28.5	457.2	0.61	0.81	9.82
72	-9.38	28.6	463.2	0.61	0.81	9.89
73	-9.38	28.6	463.5	0.61	0.81	9.89
74	-9.38	28.6	464.0	0.61	0.81	9.90
75	-9.39	28.6	464.5	0.61	0.81	9.90
76	-9.39	28.6	464.9	0.61	0.81	9.91
77	-9.39	28.6	465.3	0.61	0.81	9.91
78	-9.39	28.6	466.7	0.61	0.81	9.92
79	-9.41	28.7	470.6	0.61	0.81	9.97
80	-9.43	28.8	475.9	0.61	0.81	10.02
81	-9.46	28.8	481.1	0.60	0.80	10.08
82	-9.48	28.9	486.4	0.60	0.80	10.13
83	-9.50	29.0	490.4	0.60	0.80	10.17
84	-9.50	29.0	495.2	0.60	0.80	10.22
85	-9.56	29.2	505.9	0.60	0.80	10.33
86	-9.62	29.4	520.2	0.59	0.79	10.47
87	-9.67	29.5	534.9	0.59	0.79	10.62
88	-9.73	29.7	550.2	0.58	0.79	10.77
89	-9.79	29.9	561.7	0.58	0.78	10.89
90	-9.79	29.9	566.8	0.58	0.78	10.94
91	-9.81	30.0	570.4	0.58	0.78	10.97
92	-9.83	30.1	575.3	0.58	0.78	11.02
93	-9.84	30.1	580.2	0.57	0.78	11.07
94	-9.86	30.2	585.0	0.57	0.78	11.11
95	-9.88	30.2	588.7	0.57	0.78	11.15
96	-9.88	30.2	590.1	0.57	0.78	11.16
97	-9.88	30.2	590.5	0.57	0.78	11.17

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	30.2	591.0	0.57	0.78	11.17
99	-9.89	30.3	591.6	0.57	0.78	11.18
100	-9.89	30.3	592.1	0.57	0.78	11.18
101	-9.89	30.3	592.6	0.57	0.78	11.19
102	-9.89	30.3	598.2	0.57	0.78	11.24
103	-9.97	30.5	611.4	0.57	0.77	11.33
104	-10.05	30.8	615.4	0.56	0.77	11.21
105	-10.13	31.1	617.7	0.56	0.76	11.06
106	-10.21	31.4	620.2	0.55	0.76	10.91
107	-10.29	31.6	622.1	0.55	0.76	10.81
108	-10.29	31.6	622.9	0.55	0.76	10.76
109	-10.31	31.7	623.4	0.55	0.75	10.74
110	-10.33	31.8	624.0	0.55	0.75	10.71
111	-10.34	31.8	624.6	0.54	0.75	10.68
112	-10.36	31.9	625.2	0.54	0.75	10.65
113	-10.38	31.9	625.7	0.54	0.75	10.63
114	-10.38	31.9	625.8	0.54	0.75	10.62
115	-10.38	31.9	625.9	0.54	0.75	10.62
116	-10.38	32.0	626.0	0.54	0.75	10.62
117	-10.39	32.0	626.0	0.54	0.75	10.61
118	-10.39	32.0	626.1	0.54	0.75	10.61
119	-10.39	32.0	626.1	0.54	0.75	10.61
120	-10.39	32.0	626.9	0.54	0.75	10.58
121	-10.47	32.2	629.1	0.54	0.75	10.48
122	-10.55	32.5	632.1	0.53	0.74	10.36
123	-10.64	32.8	635.1	0.53	0.74	10.24
124	-10.72	33.0	638.3	0.52	0.73	10.13
125	-10.80	33.2	640.8	0.52	0.73	10.08
126	-10.80	33.3	554.8	0.52	0.73	8.71
127	-10.81	33.3	554.9	0.52	0.78	8.70
128	-10.81	33.3	555.1	0.52	0.78	8.69
129	-10.82	33.3	555.2	0.52	0.78	8.69
130	-10.82	33.3	555.3	0.52	0.78	8.68
131	-10.83	33.4	555.4	0.52	0.78	8.68
132	-10.83	33.4	556.0	0.52	0.78	8.66
133	-10.92	33.7	557.6	0.52	0.78	8.61
134	-11.01	34.0	559.8	0.52	0.77	8.53
135	-11.11	34.3	561.9	0.52	0.77	8.46
136	-11.20	34.6	564.1	0.51	0.77	8.40
137	-11.29	34.8	565.8	0.51	0.77	8.35
138	-11.29	34.9	566.4	0.51	0.77	8.33
139	-11.31	34.9	566.8	0.51	0.76	8.32
140	-11.33	35.0	567.2	0.51	0.76	8.30
141	-11.34	35.1	567.6	0.51	0.76	8.29
142	-11.36	35.1	568.1	0.51	0.76	8.28
143	-11.38	35.2	568.4	0.51	0.76	8.27
144	-11.38	35.2	568.5	0.51	0.76	8.27
145	-11.38	35.2	568.6	0.51	0.76	8.27
146	-11.38	35.2	568.6	0.51	0.76	8.26
147	-11.39	35.2	568.7	0.51	0.76	8.26
148	-11.39	35.2	568.7	0.51	0.76	8.26
149	-11.39	35.2	568.7	0.51	0.76	8.26
150	-11.39	35.2	568.9	0.51	0.76	8.26
151	-11.41	35.3	569.3	0.51	0.76	8.24
152	-11.43	35.3	569.8	0.51	0.76	8.23
153	-11.46	35.4	570.4	0.51	0.76	8.21
154	-11.48	35.5	570.9	0.51	0.76	8.20
155	-11.50	35.5	571.3	0.51	0.76	8.19
156	-11.50	35.6	571.9	0.51	0.76	8.17
157	-11.58	35.7	573.4	0.51	0.76	8.13
158	-11.66	35.9	575.3	0.50	0.75	8.08
159	-11.73	36.0	577.2	0.50	0.75	8.03
160	-11.81	36.1	579.2	0.50	0.75	7.99
161	-11.89	36.1	580.6	0.49	0.75	7.95

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	36.2	581.6	0.49	0.75	7.93
163	-11.97	36.2	583.2	0.49	0.74	7.89
164	-12.05	36.2	587.6	0.49	0.74	7.88
165	-12.13	36.3	595.7	0.48	0.74	7.91
166	-12.21	36.4	604.1	0.48	0.74	7.95
167	-12.29	36.4	610.2	0.48	0.74	7.98
168	-12.29	36.4	612.7	0.47	0.74	7.99
169	-12.31	36.4	614.1	0.47	0.73	7.99
170	-12.33	36.4	616.0	0.47	0.73	8.00
171	-12.34	36.4	618.2	0.47	0.73	8.01
172	-12.36	36.5	621.0	0.47	0.73	8.03
173	-12.38	36.5	623.1	0.47	0.73	8.05
174	-12.38	36.5	623.9	0.47	0.73	8.05
175	-12.38	36.5	624.2	0.47	0.73	8.06
176	-12.38	36.5	624.5	0.47	0.73	8.06
177	-12.39	36.5	624.8	0.47	0.73	8.06
178	-12.39	36.5	625.2	0.47	0.73	8.06
179	-12.39	36.5	625.4	0.47	0.73	8.06
180	-12.39	36.5	626.4	0.47	0.73	8.07
181	-12.41	36.5	629.2	0.47	0.73	8.09
182	-12.43	36.5	632.9	0.47	0.73	8.12
183	-12.46	36.5	636.6	0.47	0.73	8.15
184	-12.48	36.5	640.3	0.47	0.73	8.18
185	-12.50	36.6	643.1	0.47	0.73	8.20
186	-12.50	36.6	646.5	0.47	0.73	8.22
187	-12.56	36.6	653.9	0.46	0.73	8.28
188	-12.62	36.7	663.9	0.46	0.73	8.35
189	-12.67	36.7	673.9	0.46	0.73	8.42
190	-12.73	36.7	684.0	0.46	0.72	8.49
191	-12.79	36.7	691.6	0.45	0.72	8.55
192	-12.79	36.7	695.7	0.45	0.72	8.57
193	-12.87	36.7	696.5	0.45	0.72	8.52
194	-12.95	36.7	697.5	0.45	0.72	8.46
195	-13.04	36.7	698.6	0.44	0.72	8.40
196	-13.12	36.7	699.7	0.44	0.71	8.34
197	-13.20	36.7	700.6	0.43	0.71	8.28
198	-13.20	35.9	812.1	0.42	0.71	9.56
199	-13.23	35.9	812.6	0.42	0.66	9.54
200	-13.25	35.9	813.3	0.42	0.66	9.51
201	-13.28	36.0	814.0	0.42	0.66	9.48
202	-13.30	36.0	814.7	0.42	0.66	9.46
203	-13.33	36.0	815.3	0.42	0.66	9.44
204	-13.33	36.0	816.5	0.41	0.66	9.40
205	-13.48	36.1	820.0	0.41	0.66	9.29
206	-13.62	36.3	824.9	0.40	0.65	9.16
207	-13.77	36.5	830.2	0.40	0.65	9.04
208	-13.91	36.6	835.8	0.39	0.64	8.93
209	-14.06	36.8	840.2	0.39	0.64	8.85
210	-14.06	36.9	843.2	0.38	0.64	8.80
211	-14.21	37.0	847.8	0.38	0.64	8.73
212	-14.35	37.2	853.3	0.38	0.63	8.63
213	-14.50	37.3	843.5	0.37	0.63	8.38
214	-14.64	38.1	811.1	0.37	0.63	7.92
215	-14.79	37.7	778.1	0.36	0.62	7.50
216	-14.79	37.5	777.3	0.36	0.62	7.46
217	-14.81	37.8	778.1	0.36	0.62	7.45
218	-14.83	33.1	779.1	0.32	0.62	7.45
219	-14.84	38.0	780.1	0.36	0.62	7.44
220	-14.86	38.0	781.1	0.36	0.62	7.44
221	-14.88	38.1	781.9	0.36	0.62	7.43
222	-14.88	43.1	782.5	0.41	0.62	7.43
223	-14.90	35.6	783.5	0.34	0.62	7.42
224	-14.93	38.2	784.8	0.36	0.62	7.42
225	-14.95	38.3	786.2	0.36	0.62	7.41

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	38.4	787.5	0.36	0.62	7.40
227	-15.00	38.5	788.5	0.36	0.62	7.40
228	-15.00	38.6	790.0	0.36	0.62	7.39
229	-15.08	38.8	793.3	0.36	0.62	7.37
230	-15.16	39.0	797.7	0.36	0.62	7.35
231	-15.23	39.3	802.1	0.36	0.61	7.32
232	-15.31	39.6	806.5	0.36	0.61	7.30
233	-15.39	39.8	809.8	0.36	0.61	7.29
234	-15.39	39.8	811.3	0.36	0.61	7.28
235	-15.41	39.9	812.2	0.36	0.61	7.27
236	-15.43	40.0	813.4	0.36	0.61	7.27
237	-15.46	40.0	814.7	0.36	0.61	7.26
238	-15.48	40.1	815.9	0.36	0.61	7.26
239	-15.50	40.2	816.9	0.36	0.61	7.25
240	-15.50	40.2	818.0	0.36	0.61	7.25
241	-15.56	40.4	820.5	0.36	0.61	7.23
242	-15.62	40.6	823.8	0.36	0.61	7.22
243	-15.67	40.8	827.1	0.36	0.61	7.20
244	-15.73	41.0	830.3	0.35	0.60	7.19
245	-15.79	41.1	832.8	0.35	0.60	7.18
246	-15.79	41.2	833.8	0.35	0.60	7.17
247	-15.80	41.2	834.1	0.35	0.60	7.17
248	-15.81	41.2	834.5	0.35	0.60	7.17
249	-15.81	41.3	835.0	0.35	0.60	7.17
250	-15.82	41.3	835.5	0.35	0.60	7.17
251	-15.83	41.3	835.8	0.35	0.60	7.16
252	-15.83	41.3	836.1	0.35	0.60	7.16
253	-15.84	41.4	836.6	0.35	0.60	7.16
254	-15.85	41.4	837.3	0.35	0.60	7.16
255	-15.87	41.4	838.0	0.35	0.60	7.16
256	-15.88	41.5	838.6	0.35	0.60	7.15
257	-15.89	41.5	839.2	0.35	0.60	7.15
258	-15.89	41.5	839.6	0.35	0.60	7.15
259	-15.91	41.6	840.6	0.35	0.60	7.14
260	-15.93	41.7	841.8	0.35	0.60	7.14
261	-15.96	41.7	843.1	0.35	0.60	7.13
262	-15.98	41.8	844.3	0.35	0.60	7.13
263	-16.00	41.9	845.3	0.35	0.60	7.13
264	-16.00	48.3	616.1	0.41	0.60	5.19
265	-16.02	48.3	616.5	0.41	0.70	5.19
266	-16.04	48.4	616.9	0.41	0.70	5.18
267	-16.06	48.4	617.4	0.41	0.70	5.18
268	-16.08	48.5	617.9	0.41	0.70	5.18
269	-16.10	48.6	618.2	0.41	0.41	5.17

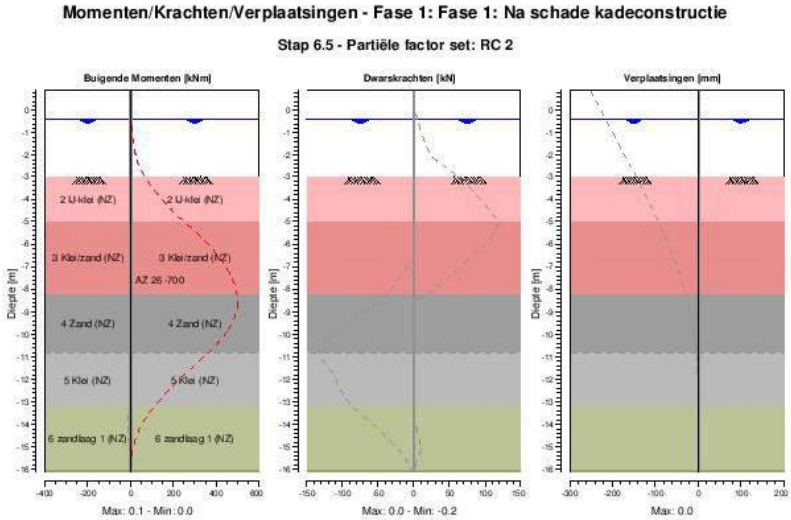
7.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	12.54
3 Klei/zand (NZ)	68.65
4 Zand (NZ)	99.65
5 Klei (NZ)	132.04
6 zandlaag 1 (NZ)	178.02
7 klei (NZ)	7.82
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

7.7 Berekeningsresultaten

Aantal iteraties: 2

7.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



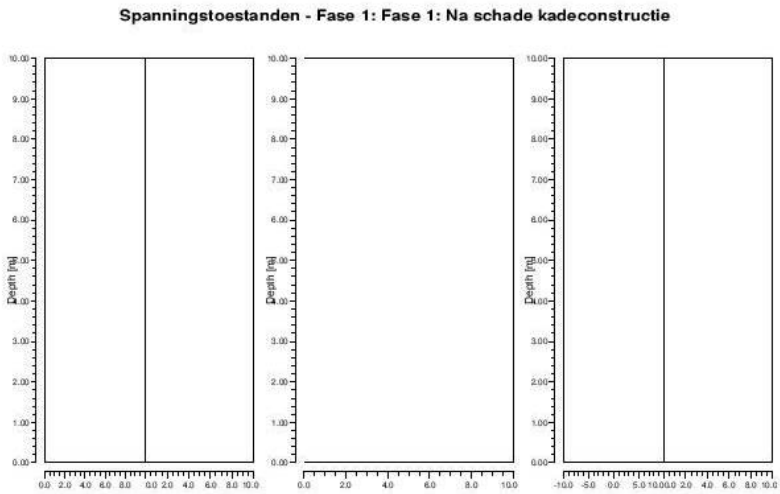
7.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**0.0**
1	0.60	0.00	0.00	**0.0**
2	0.60	0.00	0.00	**0.0**
2	0.40	0.00	0.00	**0.0**
3	0.40	0.00	0.00	**0.0**
3	0.20	0.00	0.00	**0.0**
4	0.20	0.00	0.00	**0.0**
4	0.17	0.00	0.00	**0.0**
5	0.17	0.00	0.00	**0.0**
5	-0.20	0.00	0.00	**0.0**
6	-0.20	0.00	0.00	**0.0**
6	-0.33	0.00	0.00	**0.0**
7	-0.33	0.00	0.00	**0.0**
7	-0.40	0.00	0.00	**0.0**
8	-0.40	0.00	0.00	**0.0**
8	-0.60	0.00	0.00	**0.0**
9	-0.60	0.00	0.00	**0.0**
9	-1.33	0.00	0.00	**0.0**
10	-1.33	0.00	0.00	**0.0**
10	-1.60	0.00	0.00	**0.0**
11	-1.60	0.00	0.00	**0.0**
11	-1.83	0.00	0.00	**0.0**
12	-1.83	0.00	0.00	**0.0**
12	-2.00	0.00	0.00	**0.0**
13	-2.00	0.00	0.00	**0.0**
13	-2.15	0.00	0.00	**0.0**
14	-2.15	0.00	0.00	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
14	-2.20	0.00	0.00	**0.0**
15	-2.20	0.00	0.00	**0.0**
15	-2.33	0.00	0.00	**0.0**
16	-2.33	0.00	0.00	**0.0**
16	-2.60	0.00	0.00	**0.0**
17	-2.60	0.00	0.00	**0.0**
17	-3.00	0.00	0.00	**0.0**
18	-3.00	0.00	0.00	**0.0**
18	-3.60	0.00	0.00	**0.0**
19	-3.60	0.00	0.00	**0.0**
19	-4.21	0.00	0.00	**0.0**
20	-4.21	0.00	0.00	**0.0**
20	-4.83	0.00	0.00	**0.0**
21	-4.83	0.00	0.00	**0.0**
21	-5.00	0.00	0.00	**0.0**
22	-5.00	0.00	0.00	**0.0**
22	-5.33	0.00	0.00	**0.0**
23	-5.33	0.00	0.00	**0.0**
23	-5.83	0.00	0.00	**0.0**
24	-5.83	0.00	0.00	**0.0**
24	-6.50	-0.01	-0.01	**0.0**
25	-6.50	-0.01	-0.01	**0.0**
25	-7.16	-0.01	-0.01	**0.0**
26	-7.16	-0.01	-0.01	**0.0**
26	-7.83	-0.02	-0.01	**0.0**
27	-7.83	-0.02	-0.01	**0.0**
27	-8.20	-0.02	-0.01	**0.0**
28	-8.20	-0.02	-0.01	**0.0**
28	-8.88	-0.02	0.00	**0.0**
29	-8.88	-0.02	0.00	**0.0**
29	-9.38	-0.02	0.01	**0.0**
30	-9.38	-0.02	0.01	**0.0**
30	-9.39	-0.02	0.01	**0.0**
31	-9.39	-0.02	0.01	**0.0**
31	-9.50	-0.02	0.01	**0.0**
32	-9.50	-0.02	0.01	**0.0**
32	-9.79	-0.02	0.01	**0.0**
33	-9.79	-0.02	0.01	**0.0**
33	-9.88	-0.01	0.02	**0.0**
34	-9.88	-0.01	0.02	**0.0**
34	-9.89	-0.01	0.02	**0.0**
35	-9.89	-0.01	0.02	**0.0**
35	-10.29	-0.01	0.02	**0.0**
36	-10.29	-0.01	0.02	**0.0**
36	-10.38	0.00	0.02	**0.0**
37	-10.38	0.00	0.02	**0.0**
37	-10.39	0.00	0.02	**0.0**
38	-10.39	0.00	0.02	**0.0**
38	-10.80	0.01	0.03	**0.0**
39	-10.80	0.01	0.03	**0.0**
39	-10.83	0.01	0.03	**0.0**
40	-10.83	0.01	0.03	**0.0**
40	-11.29	0.02	0.03	**0.0**
41	-11.29	0.02	0.03	**0.0**
41	-11.38	0.02	0.03	**0.0**
42	-11.38	0.02	0.03	**0.0**
42	-11.39	0.02	0.03	**0.0**
43	-11.39	0.02	0.03	**0.0**
43	-11.50	0.03	0.03	**0.0**
44	-11.50	0.03	0.03	**0.0**
44	-11.89	0.04	0.03	**0.0**
45	-11.89	0.04	0.03	**0.0**
45	-12.29	0.05	0.03	**0.0**
46	-12.29	0.05	0.03	**0.0**
46	-12.38	0.06	0.03	**0.0**

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
47	-12.38	0.06	0.03	**0.0**
47	-12.39	0.06	0.03	**0.0**
48	-12.39	0.06	0.03	**0.0**
48	-12.50	0.06	0.03	**0.0**
49	-12.50	0.06	0.03	**0.0**
49	-12.79	0.07	0.03	**0.0**
50	-12.79	0.07	0.03	**0.0**
50	-13.20	0.08	0.03	**0.0**
51	-13.20	0.08	0.03	**0.0**
51	-13.33	0.09	0.03	**0.0**
52	-13.33	0.09	0.03	**0.0**
52	-14.06	**0.11**	0.02	**0.0**
53	-14.06	**0.11**	0.02	**0.0**
53	-14.79	**0.11**	-0.02	**0.0**
54	-14.79	**0.11**	-0.02	**0.0**
54	-14.88	**0.11**	-0.02	**0.0**
55	-14.88	**0.11**	-0.02	**0.0**
55	-15.00	0.10	-0.03	**0.0**
56	-15.00	0.10	-0.03	**0.0**
56	-15.39	0.08	-0.07	**0.0**
57	-15.39	0.08	-0.07	**0.0**
57	-15.50	0.07	-0.09	**0.0**
58	-15.50	0.07	-0.09	**0.0**
58	-15.79	0.04	-0.12	**0.0**
59	-15.79	0.04	-0.12	**0.0**
59	-15.83	0.04	-0.13	**0.0**
60	-15.83	0.04	-0.13	**0.0**
60	-15.89	0.03	-0.14	**0.0**
61	-15.89	0.03	-0.14	**0.0**
61	-16.00	0.01	**-0.16**	**0.0**
62	-16.00	0.01	**-0.16**	**0.0**
62	-16.10	0.00	0.00	**0.0**
Max		**0.11**	**-0.16**	**0.0**
Max incl. tussenknopen		0.11	-0.16	0.0

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	0.90	0.00	0.00	-		0.00	0.00	-	
1	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.60	0.00	0.00	-		0.00	0.00	-	
2	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.40	0.00	0.00	-		0.00	0.00	-	
3	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.20	0.00	0.00	-		0.00	0.00	-	
4	0.17	0.00	0.00	-		0.00	0.00	-	
5	0.17	0.00	0.00	-		0.00	0.00	-	
5	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.20	0.00	0.00	-		0.00	0.00	-	
6	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.33	0.00	0.00	-		0.00	0.00	-	
7	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.40	0.00	0.00	-		0.00	0.00	-	
8	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-0.60	0.00	1.96	-		0.00	1.96	-	
9	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.33	0.00	9.12	-		0.00	9.12	-	
10	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.60	0.00	11.77	-		0.00	11.77	-	
11	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-1.83	0.00	14.03	-		0.00	14.03	-	
12	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.00	0.00	15.70	-		0.00	15.70	-	
13	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.15	0.00	17.17	-		0.00	17.17	-	
14	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.20	0.00	17.66	-		0.00	17.66	-	
15	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.33	0.00	18.93	-		0.00	18.93	-	
16	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-2.60	0.00	21.58	-		0.00	21.58	-	
17	-3.00	0.00	25.51	-		0.00	25.51	-	
18	-3.00	0.00	25.51	P		0.00	25.51	3	
18	-3.60	3.62	31.39	1	24	3.62	31.39	1	
19	-3.60	4.01	31.39	1	25	4.01	31.39	1	
19	-4.21	7.46	37.43	1	36	7.46	37.43	1	
20	-4.21	7.85	37.43	1	37	7.86	37.43	1	
20	-4.83	11.19	43.46	1	43	11.18	43.46	1	
21	-4.83	11.44	43.46	1	44	11.44	43.46	1	
21	-5.00	12.17	45.13	1	45	12.17	45.13	1	
22	-5.00	12.40	45.13	1	20	12.41	45.13	1	
22	-5.33	13.23	48.36	1	21	13.22	48.36	1	
23	-5.33	13.61	48.36	1	21	13.62	48.36	1	
23	-5.83	16.51	53.27	1	21	16.50	53.27	1	
24	-5.83	17.02	53.27	1	21	17.03	53.27	1	
24	-6.50	20.73	59.81	1	21	20.72	59.81	1	
25	-6.50	21.27	59.81	1	21	21.29	59.81	1	
25	-7.16	24.81	66.35	1	21	24.79	66.35	1	
26	-7.16	25.33	66.35	1	21	25.34	66.35	1	
26	-7.83	28.69	72.89	1	21	28.66	72.89	1	
27	-7.83	29.07	72.89	1	21	29.08	72.89	1	
27	-8.20	30.58	76.52	1	20	30.60	76.52	1	
28	-8.20	31.09	76.52	1	18	31.11	76.52	1	
28	-8.88	33.96	83.19	1	17	33.97	83.19	1	
29	-8.88	34.54	83.19	1	17	34.56	83.19	1	
29	-9.38	37.37	88.09	1	16	37.38	88.09	1	
30	-9.38	37.61	88.09	1	16	37.62	88.09	1	
30	-9.39	37.66	88.19	1	16	37.68	88.19	1	
31	-9.39	37.72	88.19	1	16	37.74	88.19	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]		[%]
31	-9.50	38.33	89.27	1	16	38.35	89.27	1	
32	-9.50	38.52	89.27	1	16	38.54	89.27	1	
32	-9.79	40.11	92.12	1	16	40.12	92.12	1	
33	-9.79	40.29	92.12	1	16	40.30	92.12	1	
33	-9.88	40.78	93.00	1	16	40.79	93.00	1	
34	-9.88	40.82	93.00	1	16	40.84	93.00	1	
34	-9.89	40.88	93.10	1	16	40.89	93.10	1	
35	-9.89	41.06	93.10	1	16	41.08	93.10	1	
35	-10.29	43.21	97.02	1	15	43.22	97.02	1	
36	-10.29	43.43	97.02	1	15	43.45	97.02	1	
36	-10.38	43.91	97.90	1	15	43.92	97.90	1	
37	-10.38	43.95	97.90	1	15	43.97	97.90	1	
37	-10.39	44.00	98.00	1	15	44.02	98.00	1	
38	-10.39	44.19	98.00	1	15	44.21	98.00	1	
38	-10.80	46.58	102.02	1	15	46.55	102.02	1	
39	-10.80	46.75	102.02	1	18	46.75	102.02	1	
39	-10.83	49.83	102.32	1	19	49.83	102.32	1	
40	-10.83	49.98	102.32	1	19	49.99	102.32	1	
40	-11.29	51.80	106.83	1	19	51.79	106.83	1	
41	-11.29	51.97	106.83	1	19	51.97	106.83	1	
41	-11.38	52.32	107.71	1	19	52.32	107.71	1	
42	-11.38	52.35	107.71	1	19	52.35	107.71	1	
42	-11.39	52.39	107.81	1	19	52.39	107.81	1	
43	-11.39	52.42	107.81	1	19	52.43	107.81	1	
43	-11.50	52.85	108.89	1	19	52.85	108.89	1	
44	-11.50	52.99	108.89	1	19	53.01	108.89	1	
44	-11.89	54.48	112.72	1	19	54.47	112.72	1	
45	-11.89	54.72	112.72	1	19	54.73	112.72	1	
45	-12.29	56.21	116.64	1	19	56.20	116.64	1	
46	-12.29	56.35	116.64	1	19	56.36	116.64	1	
46	-12.38	56.68	117.52	1	19	56.68	117.52	1	
47	-12.38	56.71	117.52	1	19	56.71	117.52	1	
47	-12.39	56.75	117.62	1	19	56.75	117.62	1	
48	-12.39	56.78	117.62	1	19	56.79	117.62	1	
48	-12.50	57.19	118.70	1	19	57.18	118.70	1	
49	-12.50	57.30	118.70	1	19	57.31	118.70	1	
49	-12.79	58.35	121.55	1	19	58.35	121.55	1	
50	-12.79	58.55	121.55	1	19	58.57	121.55	1	
50	-13.20	59.78	125.57	1	18	59.80	125.57	1	
51	-13.20	59.97	125.57	1	15	59.97	125.57	1	
51	-13.33	56.76	126.84	1	14	56.75	126.84	1	
52	-13.33	57.10	126.84	1	14	57.09	126.84	1	
52	-14.06	60.49	134.00	1	13	60.46	134.00	1	
53	-14.06	61.06	134.00	1	13	61.03	134.00	1	
53	-14.79	64.40	141.17	1	13	64.33	141.17	1	
54	-14.79	64.71	141.17	1	13	64.64	141.17	1	
54	-14.88	65.12	142.05	1	13	65.04	142.05	1	
55	-14.88	65.19	142.05	1	13	65.12	142.05	1	
55	-15.00	65.74	143.23	1	13	65.65	143.23	1	
56	-15.00	65.93	143.23	1	13	65.84	143.23	1	
56	-15.39	67.69	147.05	1	13	67.58	147.05	1	
57	-15.39	67.87	147.05	1	13	67.76	147.05	1	
57	-15.50	68.37	148.13	1	13	68.25	148.13	1	
58	-15.50	68.52	148.13	1	13	68.39	148.13	1	
58	-15.79	69.82	150.98	1	12	69.67	150.98	1	
59	-15.79	69.94	150.98	1	12	69.79	150.98	1	
59	-15.83	70.11	151.37	1	12	69.96	151.37	1	
60	-15.83	70.15	151.37	1	12	70.00	151.37	1	
60	-15.89	70.42	151.96	1	12	70.26	151.96	1	
61	-15.89	70.48	151.96	1	12	70.32	151.96	1	
61	-16.00	71.02	153.04	1	12	70.85	153.04	1	
62	-16.00	71.01	153.04	1	20	70.98	153.04	1	
62	-16.10	32.42	154.02	1	9	48.43	154.02	A	8

*

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

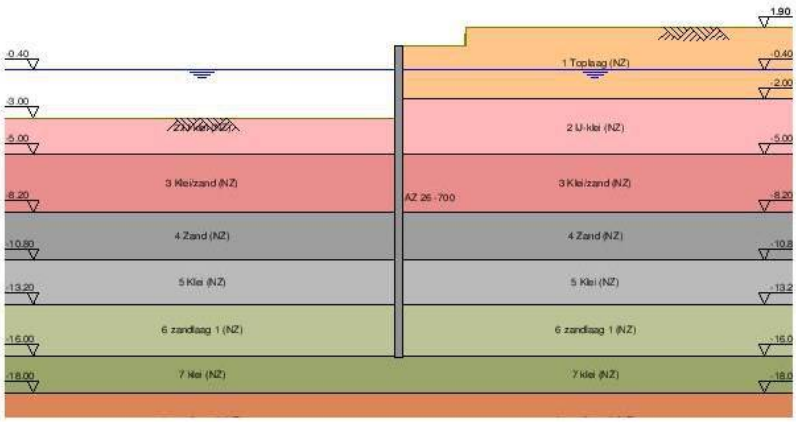
7.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	498.7	498.7
Water	1209.0	1209.0
Totaal	1707.8	1707.8

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	3101.84 kN
Gemobiliseerde passieve eff. weerstand	498.73 kN
Percentage gemobiliseerde weerstand	16.1 %

8 Overzicht Fase 2: Fase 2: Na aanvullen bouwkuip

Overzicht - Fase 2: Fase 2: Na aanvullen bouwkuip



9 Stap 6.3 Fase 2: Fase 2: Na aanvullen bouwkuip

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

9.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

9.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.38
3 Klei/zand (NZ)	168.09
4 Zand (NZ)	149.92
5 Klei (NZ)	129.59
6 zandlaag 1 (NZ)	185.59
7 klei (NZ)	8.04
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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	0.90
3.00	0.90
3.01	1.90
8.50	1.90

9.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

9.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.33	0.78	4.25
2	0.78	0.7	8.9	0.33	0.78	4.25
3	0.72	1.0	13.4	0.33	0.78	4.25
4	0.66	1.4	17.9	0.33	0.78	4.25
5	0.60	1.6	21.2	0.33	0.78	4.25
6	0.60	1.8	23.1	0.33	0.78	4.24
7	0.56	2.0	25.3	0.33	0.77	4.24
8	0.52	2.2	28.3	0.33	0.77	4.24
9	0.48	2.4	31.2	0.33	0.76	4.24
10	0.44	2.6	34.2	0.33	0.76	4.24
11	0.40	2.8	36.4	0.33	0.76	4.24
12	0.40	2.9	37.9	0.33	0.76	4.23
13	0.36	3.1	40.2	0.33	0.75	4.23
14	0.32	3.3	43.1	0.33	0.75	4.23
15	0.28	3.6	46.1	0.33	0.75	4.23
16	0.24	3.8	49.1	0.33	0.75	4.22
17	0.20	4.0	51.3	0.33	0.74	4.22
18	0.20	4.0	52.2	0.33	0.74	4.22
19	0.19	4.1	52.5	0.33	0.74	4.22
20	0.19	4.1	53.0	0.33	0.74	4.22
21	0.18	4.1	53.4	0.33	0.74	4.22
22	0.18	4.2	53.9	0.33	0.74	4.22
23	0.17	4.2	54.2	0.33	0.73	4.22
24	0.17	4.3	55.7	0.33	0.73	4.22
25	0.10	4.6	59.8	0.33	0.73	4.21
26	0.02	5.1	65.3	0.33	0.73	4.20
27	-0.05	5.5	70.8	0.32	0.73	4.20
28	-0.13	5.9	76.3	0.32	0.73	4.19
29	-0.20	6.2	80.4	0.32	0.73	4.18
30	-0.20	6.4	82.3	0.32	0.73	4.18
31	-0.23	6.5	83.8	0.32	0.73	4.18
32	-0.25	6.6	86.4	0.32	0.73	4.21
33	-0.28	6.8	89.5	0.32	0.72	4.27
34	-0.30	6.9	92.8	0.32	0.72	4.32
35	-0.33	7.0	95.4	0.32	0.72	4.37
36	-0.33	7.1	96.7	0.32	0.72	4.39
37	-0.34	7.2	98.2	0.32	0.71	4.42
38	-0.36	7.2	100.1	0.32	0.71	4.45

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	7.3	102.1	0.32	0.71	4.49
40	-0.39	7.4	104.1	0.32	0.70	4.53
41	-0.40	7.5	105.6	0.32	0.70	4.56
42	-0.40	7.5	107.4	0.32	0.70	4.60
43	-0.44	7.6	111.0	0.32	0.70	4.69
44	-0.48	7.7	116.3	0.32	0.70	4.83
45	-0.52	7.9	122.0	0.32	0.70	4.97
46	-0.56	8.0	128.1	0.32	0.70	5.13
47	-0.60	8.1	133.0	0.32	0.69	5.26
48	-0.60	8.2	141.3	0.32	0.69	5.48
49	-0.75	8.6	164.3	0.32	0.70	6.09
50	-0.89	9.1	204.2	0.32	0.70	7.14
51	-1.04	9.5	259.8	0.31	0.69	8.59
52	-1.18	10.0	340.3	0.31	0.69	10.67
53	-1.33	10.3	502.9	0.31	0.69	15.18
54	-1.33	10.5	221.7	0.31	0.69	6.58
55	-1.38	10.6	222.6	0.31	0.69	6.52
56	-1.44	10.8	223.9	0.31	0.68	6.44
57	-1.49	11.0	225.3	0.31	0.68	6.37
58	-1.55	11.1	226.8	0.31	0.68	6.30
59	-1.60	11.3	228.0	0.31	0.67	6.25
60	-1.60	11.3	228.8	0.31	0.67	6.22
61	-1.65	11.5	229.8	0.31	0.67	6.18
62	-1.69	11.6	231.3	0.31	0.66	6.14
63	-1.74	14.3	232.8	0.38	0.66	6.09
64	-1.78	15.6	234.3	0.40	0.66	6.05
65	-1.83	15.7	235.5	0.40	0.65	6.02
66	-1.83	15.8	236.2	0.40	0.65	6.00
67	-1.86	15.9	237.1	0.40	0.65	5.98
68	-1.90	16.0	238.2	0.40	0.65	5.95
69	-1.93	16.2	239.4	0.40	0.65	5.92
70	-1.97	16.3	240.6	0.40	0.64	5.89
71	-2.00	16.4	241.6	0.40	0.64	5.89
72	-2.00	21.6	163.6	0.53	0.64	3.98
73	-2.03	21.6	163.8	0.52	0.80	3.97
74	-2.06	21.7	164.0	0.52	0.80	3.96
75	-2.09	21.8	164.2	0.52	0.80	3.95
76	-2.12	21.9	164.5	0.52	0.80	3.94
77	-2.15	21.9	164.6	0.52	0.80	3.94
78	-2.15	21.9	164.7	0.52	0.80	3.93
79	-2.16	22.0	164.8	0.52	0.80	3.93
80	-2.17	22.0	164.9	0.52	0.80	3.93
81	-2.18	22.0	164.9	0.52	0.80	3.92
82	-2.19	22.0	165.0	0.52	0.80	3.92
83	-2.20	22.1	165.1	0.52	0.80	3.92
84	-2.20	22.1	165.1	0.52	0.80	3.91
85	-2.23	22.1	165.3	0.52	0.80	3.91
86	-2.25	22.2	165.5	0.52	0.79	3.90
87	-2.28	22.3	165.7	0.52	0.79	3.89
88	-2.30	22.3	165.9	0.52	0.79	3.88
89	-2.33	22.4	166.0	0.52	0.79	3.88
90	-2.33	22.4	166.2	0.52	0.79	3.87
91	-2.38	22.5	166.5	0.52	0.79	3.86
92	-2.44	22.6	166.9	0.52	0.79	3.84
93	-2.49	22.8	167.3	0.52	0.79	3.82
94	-2.55	22.9	167.7	0.52	0.78	3.81
95	-2.60	23.0	168.0	0.52	0.78	3.79
96	-2.60	23.1	168.3	0.52	0.78	3.78
97	-2.68	23.2	168.8	0.52	0.78	3.77
98	-2.76	23.4	169.4	0.52	0.78	3.74
99	-2.84	23.6	170.0	0.52	0.78	3.72
100	-2.92	23.8	170.6	0.52	0.77	3.70
101	-3.00	23.9	171.0	0.51	0.77	3.68
102	-3.00	24.0	171.4	0.51	0.77	3.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	24.2	172.1	0.51	0.77	3.65
104	-3.24	24.5	173.0	0.51	0.76	3.62
105	-3.36	24.7	139.6	0.51	0.76	2.88
106	-3.48	25.0	136.8	0.51	0.75	2.79
107	-3.60	25.2	137.4	0.51	0.75	2.77
108	-3.60	25.3	137.9	0.51	0.75	2.76
109	-3.72	25.5	138.5	0.51	0.75	2.75
110	-3.85	25.8	139.4	0.51	0.74	2.73
111	-3.97	26.0	140.2	0.50	0.74	2.71
112	-4.09	26.3	141.1	0.50	0.74	2.70
113	-4.21	26.5	141.7	0.50	0.73	2.68
114	-4.21	26.6	142.1	0.50	0.73	2.68
115	-4.34	26.8	142.8	0.50	0.73	2.67
116	-4.46	27.1	143.7	0.50	0.73	2.65
117	-4.58	27.3	144.5	0.50	0.73	2.64
118	-4.71	27.6	145.4	0.50	0.72	2.62
119	-4.83	27.8	146.0	0.50	0.72	2.61
120	-4.83	27.8	146.3	0.50	0.72	2.61
121	-4.86	27.9	146.5	0.50	0.72	2.61
122	-4.90	28.0	146.7	0.50	0.72	2.60
123	-4.93	28.0	147.0	0.50	0.72	2.60
124	-4.97	28.1	147.2	0.50	0.71	2.60
125	-5.00	28.2	147.4	0.49	0.72	2.59
126	-5.00	20.2	226.1	0.35	0.72	3.96
127	-5.07	20.3	227.2	0.35	0.60	3.95
128	-5.13	22.8	228.8	0.39	0.60	3.94
129	-5.20	23.9	230.4	0.41	0.60	3.94
130	-5.26	24.1	232.0	0.41	0.59	3.93
131	-5.33	24.2	233.2	0.41	0.59	3.92
132	-5.33	24.3	234.2	0.41	0.59	3.92
133	-5.43	24.5	236.0	0.41	0.59	3.91
134	-5.53	24.8	238.4	0.41	0.59	3.90
135	-5.63	25.1	240.8	0.40	0.59	3.89
136	-5.73	25.3	243.2	0.40	0.59	3.88
137	-5.83	25.5	245.0	0.40	0.58	3.87
138	-5.83	25.7	246.4	0.40	0.58	3.87
139	-5.96	25.9	248.8	0.40	0.58	3.86
140	-6.10	26.3	252.0	0.40	0.58	3.85
141	-6.23	26.6	255.2	0.40	0.58	3.84
142	-6.36	27.0	276.8	0.40	0.58	4.10
143	-6.50	27.2	287.8	0.40	0.58	4.21
144	-6.50	27.4	289.4	0.40	0.58	4.21
145	-6.63	27.7	291.8	0.40	0.57	4.19
146	-6.76	28.0	294.9	0.40	0.57	4.18
147	-6.90	28.4	298.1	0.40	0.57	4.16
148	-7.03	28.7	301.2	0.40	0.57	4.15
149	-7.16	29.0	303.6	0.40	0.57	4.14
150	-7.16	29.1	305.2	0.39	0.57	4.13
151	-7.30	29.4	307.6	0.39	0.57	4.12
152	-7.43	29.7	310.7	0.39	0.57	4.11
153	-7.56	30.1	313.9	0.39	0.57	4.10
154	-7.70	30.4	317.1	0.39	0.57	4.09
155	-7.83	30.7	319.5	0.39	0.56	4.08
156	-7.83	30.8	320.7	0.39	0.56	4.08
157	-7.90	30.9	322.0	0.39	0.56	4.07
158	-7.98	31.1	323.8	0.39	0.56	4.07
159	-8.05	31.3	325.6	0.39	0.56	4.06
160	-8.13	31.5	327.3	0.39	0.56	4.06
161	-8.20	31.6	328.6	0.39	0.56	4.04
162	-8.20	32.0	369.2	0.39	0.56	4.51
163	-8.34	32.1	373.5	0.39	0.53	4.50
164	-8.47	30.5	379.2	0.36	0.53	4.49
165	-8.61	30.6	384.9	0.36	0.53	4.48
166	-8.74	31.0	390.6	0.36	0.53	4.47

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	31.4	394.9	0.35	0.53	4.46
168	-8.88	31.6	397.4	0.35	0.53	4.46
169	-8.98	31.8	400.6	0.35	0.53	4.45
170	-9.08	32.2	404.8	0.35	0.53	4.45
171	-9.18	32.5	409.1	0.35	0.53	4.44
172	-9.28	32.9	413.3	0.35	0.53	4.44
173	-9.38	33.1	416.5	0.35	0.53	4.43
174	-9.38	33.2	417.6	0.35	0.53	4.43
175	-9.38	33.2	417.7	0.35	0.53	4.43
176	-9.38	33.2	417.7	0.35	0.53	4.43
177	-9.39	33.2	417.8	0.35	0.52	4.43
178	-9.39	33.2	417.9	0.35	0.52	4.43
179	-9.39	33.2	418.0	0.35	0.52	4.43
180	-9.39	33.3	418.2	0.35	0.52	4.43
181	-9.41	33.3	418.9	0.35	0.52	4.43
182	-9.43	33.4	419.9	0.35	0.52	4.43
183	-9.46	33.5	420.8	0.35	0.52	4.43
184	-9.48	33.5	426.2	0.35	0.52	4.47
185	-9.50	33.6	435.0	0.35	0.52	4.56
186	-9.50	33.7	435.8	0.35	0.52	4.56
187	-9.56	33.8	437.6	0.35	0.52	4.55
188	-9.62	34.0	440.1	0.35	0.52	4.55
189	-9.67	34.2	442.5	0.35	0.52	4.54
190	-9.73	34.4	444.9	0.35	0.52	4.54
191	-9.79	34.6	446.8	0.35	0.52	4.54
192	-9.79	34.6	447.6	0.35	0.52	4.54
193	-9.81	34.7	448.1	0.35	0.52	4.54
194	-9.83	34.7	448.9	0.35	0.52	4.53
195	-9.84	34.8	449.7	0.35	0.52	4.53
196	-9.86	34.9	450.4	0.35	0.52	4.53
197	-9.88	34.9	451.0	0.35	0.52	4.53
198	-9.88	34.9	451.2	0.35	0.52	4.53
199	-9.88	34.9	451.3	0.35	0.52	4.53
200	-9.88	34.9	451.3	0.35	0.52	4.53
201	-9.89	34.9	451.4	0.35	0.52	4.53
202	-9.89	34.9	451.5	0.35	0.52	4.53
203	-9.89	35.0	451.6	0.35	0.52	4.53
204	-9.89	35.0	452.4	0.35	0.52	4.53
205	-9.97	35.2	455.0	0.35	0.52	4.53
206	-10.05	35.5	458.4	0.35	0.52	4.52
207	-10.13	35.8	461.7	0.35	0.52	4.52
208	-10.21	36.0	465.1	0.35	0.51	4.51
209	-10.29	36.3	467.7	0.35	0.51	4.51
210	-10.29	36.3	468.7	0.35	0.51	4.51
211	-10.31	36.4	469.3	0.35	0.51	4.51
212	-10.33	36.4	470.0	0.35	0.51	4.50
213	-10.34	36.5	470.8	0.35	0.51	4.50
214	-10.36	36.6	471.6	0.35	0.51	4.50
215	-10.38	36.6	472.1	0.35	0.51	4.50
216	-10.38	36.6	472.4	0.35	0.51	4.50
217	-10.38	36.6	472.4	0.35	0.51	4.50
218	-10.38	36.6	472.5	0.35	0.51	4.50
219	-10.39	36.6	472.6	0.35	0.51	4.50
220	-10.39	36.7	472.7	0.35	0.51	4.50
221	-10.39	36.7	472.7	0.35	0.51	4.50
222	-10.39	36.7	473.6	0.35	0.51	4.50
223	-10.47	36.9	476.2	0.35	0.51	4.50
224	-10.55	37.2	479.7	0.35	0.51	4.49
225	-10.64	37.5	483.2	0.35	0.51	4.49
226	-10.72	37.8	486.7	0.35	0.51	4.49
227	-10.80	38.0	489.3	0.35	0.51	4.49
228	-10.80	40.0	416.8	0.37	0.51	3.82
229	-10.81	40.1	416.9	0.37	0.55	3.82
230	-10.81	40.1	417.0	0.37	0.55	3.82

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	40.1	417.2	0.37	0.55	3.82
232	-10.82	40.1	417.3	0.37	0.55	3.82
233	-10.83	40.1	417.4	0.37	0.55	3.82
234	-10.83	40.2	418.0	0.37	0.55	3.82
235	-10.92	40.4	419.5	0.37	0.55	3.81
236	-11.01	40.6	421.6	0.37	0.55	3.81
237	-11.11	40.8	423.7	0.37	0.55	3.81
238	-11.20	41.1	425.8	0.37	0.55	3.80
239	-11.29	41.2	427.4	0.37	0.55	3.80
240	-11.29	41.3	428.0	0.37	0.55	3.80
241	-11.31	41.3	428.3	0.37	0.55	3.80
242	-11.33	41.4	428.7	0.37	0.55	3.80
243	-11.34	41.4	429.1	0.37	0.55	3.80
244	-11.36	41.5	429.6	0.37	0.55	3.80
245	-11.38	41.5	429.9	0.37	0.55	3.80
246	-11.38	41.5	430.0	0.37	0.55	3.80
247	-11.38	41.5	430.0	0.37	0.55	3.80
248	-11.38	41.5	430.1	0.37	0.55	3.80
249	-11.39	41.5	430.1	0.37	0.55	3.80
250	-11.39	41.5	430.1	0.37	0.55	3.80
251	-11.39	41.5	430.2	0.37	0.55	3.80
252	-11.39	41.6	430.3	0.37	0.55	3.80
253	-11.41	41.6	430.7	0.37	0.55	3.80
254	-11.43	41.7	431.2	0.37	0.55	3.80
255	-11.46	41.7	431.7	0.37	0.55	3.79
256	-11.48	41.8	432.2	0.37	0.55	3.79
257	-11.50	41.8	432.6	0.37	0.55	3.79
258	-11.50	41.9	433.1	0.37	0.55	3.79
259	-11.58	42.0	434.5	0.37	0.55	3.79
260	-11.66	42.2	436.2	0.37	0.55	3.79
261	-11.73	42.4	438.0	0.37	0.55	3.78
262	-11.81	42.6	439.8	0.37	0.55	3.78
263	-11.89	42.8	441.1	0.37	0.55	3.78
264	-11.89	42.0	442.0	0.36	0.55	3.78
265	-11.97	42.4	443.4	0.36	0.56	3.78
266	-12.05	42.6	436.8	0.36	0.56	3.70
267	-12.13	42.8	431.8	0.36	0.56	3.64
268	-12.21	43.0	433.6	0.36	0.56	3.64
269	-12.29	43.2	435.0	0.36	0.36	3.64
270	-12.29	43.2	435.6	0.36	0.61	3.64
271	-12.31	43.3	435.9	0.36	0.61	3.64
272	-12.33	43.3	436.3	0.36	0.61	3.64
273	-12.34	43.4	436.7	0.36	0.61	3.64
274	-12.36	43.4	437.1	0.36	0.61	3.64
275	-12.38	61.7	437.4	0.51	0.61	3.64
276	-12.38	36.0	437.5	0.30	0.61	3.64
277	-12.38	47.0	437.5	0.39	0.61	3.64
278	-12.38	-38.8	437.6	0.00	0.61	3.64
279	-12.39	43.5	437.6	0.36	0.61	3.64
280	-12.39	43.5	437.7	0.36	0.61	3.64
281	-12.39	43.5	437.7	0.36	0.61	3.64
282	-12.39	43.5	437.8	0.36	0.61	3.64
283	-12.41	51.5	438.2	0.43	0.61	3.64
284	-12.43	43.7	438.7	0.36	0.61	3.64
285	-12.46	43.7	439.2	0.36	0.61	3.64
286	-12.48	43.8	439.7	0.36	0.61	3.63
287	-12.50	43.3	440.1	0.36	0.61	3.63
288	-12.50	43.6	440.6	0.36	0.61	3.63
289	-12.56	41.0	441.5	0.34	0.61	3.63
290	-12.62	46.3	442.9	0.38	0.61	3.63
291	-12.67	41.9	444.2	0.34	0.61	3.63
292	-12.73	44.3	445.5	0.36	0.61	3.63
293	-12.79	44.5	446.5	0.36	0.61	3.63
294	-12.79	44.5	447.3	0.36	0.61	3.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	44.7	448.7	0.36	0.61	3.63
296	-12.95	44.9	450.5	0.36	0.61	3.62
297	-13.04	45.1	452.4	0.36	0.61	3.62
298	-13.12	45.3	454.3	0.36	0.61	3.62
299	-13.20	45.5	455.7	0.36	0.61	3.61
300	-13.20	42.8	543.7	0.34	0.61	4.30
301	-13.23	42.9	544.5	0.34	0.56	4.30
302	-13.25	43.0	545.6	0.34	0.56	4.30
303	-13.28	43.1	546.8	0.34	0.56	4.30
304	-13.30	43.2	547.9	0.34	0.56	4.30
305	-13.33	43.2	548.7	0.34	0.56	4.30
306	-13.33	43.4	550.6	0.34	0.56	4.30
307	-13.48	43.7	555.3	0.34	0.56	4.30
308	-13.62	44.2	561.5	0.34	0.56	4.29
309	-13.77	44.7	567.8	0.34	0.56	4.29
310	-13.91	45.2	574.1	0.34	0.56	4.29
311	-14.06	45.6	578.8	0.34	0.56	4.29
312	-14.06	45.8	581.9	0.34	0.56	4.29
313	-14.21	46.2	586.6	0.34	0.56	4.29
314	-14.35	46.7	592.7	0.34	0.56	4.28
315	-14.50	47.3	613.9	0.34	0.56	4.39
316	-14.64	48.5	620.7	0.34	0.56	4.39
317	-14.79	48.9	625.4	0.34	0.56	4.39
318	-14.79	49.0	627.2	0.34	0.56	4.39
319	-14.81	49.1	627.8	0.34	0.56	4.39
320	-14.83	49.1	628.5	0.34	0.56	4.39
321	-14.84	49.2	629.3	0.34	0.56	4.38
322	-14.86	49.2	630.1	0.34	0.56	4.38
323	-14.88	49.3	630.7	0.34	0.56	4.38
324	-14.88	49.3	631.1	0.34	0.56	4.38
325	-14.90	49.4	631.9	0.34	0.56	4.38
326	-14.93	49.5	632.9	0.34	0.56	4.38
327	-14.95	49.5	633.9	0.34	0.56	4.38
328	-14.98	49.6	635.0	0.34	0.56	4.38
329	-15.00	49.7	635.7	0.34	0.56	4.38
330	-15.00	49.8	636.8	0.34	0.56	4.38
331	-15.08	50.0	639.3	0.34	0.56	4.38
332	-15.16	50.2	642.7	0.34	0.56	4.38
333	-15.23	50.5	646.0	0.34	0.56	4.38
334	-15.31	50.8	649.4	0.34	0.56	4.38
335	-15.39	51.0	651.9	0.34	0.56	4.37
336	-15.39	51.0	652.9	0.34	0.56	4.37
337	-15.41	51.1	653.7	0.34	0.56	4.37
338	-15.43	51.2	654.6	0.34	0.56	4.37
339	-15.46	51.2	655.5	0.34	0.56	4.37
340	-15.48	51.3	656.5	0.34	0.56	4.37
341	-15.50	51.4	657.2	0.34	0.56	4.37
342	-15.50	54.3	658.0	0.36	0.56	4.37
343	-15.56	50.1	659.9	0.33	0.56	4.37
344	-15.62	54.3	662.4	0.36	0.56	4.37
345	-15.67	52.0	664.9	0.34	0.56	4.37
346	-15.73	52.1	667.4	0.34	0.56	4.37
347	-15.79	47.6	669.3	0.31	0.56	4.37
348	-15.79	52.4	670.0	0.34	0.56	4.37
349	-15.80	52.4	670.2	0.34	0.56	4.37
350	-15.81	52.4	670.6	0.34	0.56	4.37
351	-15.81	52.5	670.9	0.34	0.56	4.37
352	-15.82	52.5	671.3	0.34	0.56	4.37
353	-15.83	52.5	671.5	0.34	0.56	4.37
354	-15.83	69.1	671.7	0.45	0.56	4.37
355	-15.84	44.2	672.1	0.29	0.56	4.37
356	-15.85	52.6	672.6	0.34	0.56	4.37
357	-15.87	52.6	673.1	0.34	0.56	4.37
358	-15.88	52.7	673.7	0.34	0.56	4.37

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	52.7	674.0	0.34	0.56	4.37
360	-15.89	52.7	674.4	0.34	0.56	4.37
361	-15.91	52.8	675.1	0.34	0.56	4.37
362	-15.93	52.9	676.1	0.34	0.56	4.37
363	-15.96	52.9	677.0	0.34	0.56	4.37
364	-15.98	53.0	678.0	0.34	0.56	4.36
365	-16.00	53.1	678.7	0.34	0.56	4.37
366	-16.00	63.4	479.9	0.41	0.56	3.09
367	-16.02	63.5	480.2	0.41	0.65	3.09
368	-16.04	63.5	480.6	0.41	0.65	3.08
369	-16.06	63.6	480.9	0.41	0.65	3.08
370	-16.08	63.7	481.3	0.41	0.65	3.08
371	-16.10	63.7	481.6	0.41	0.65	3.08

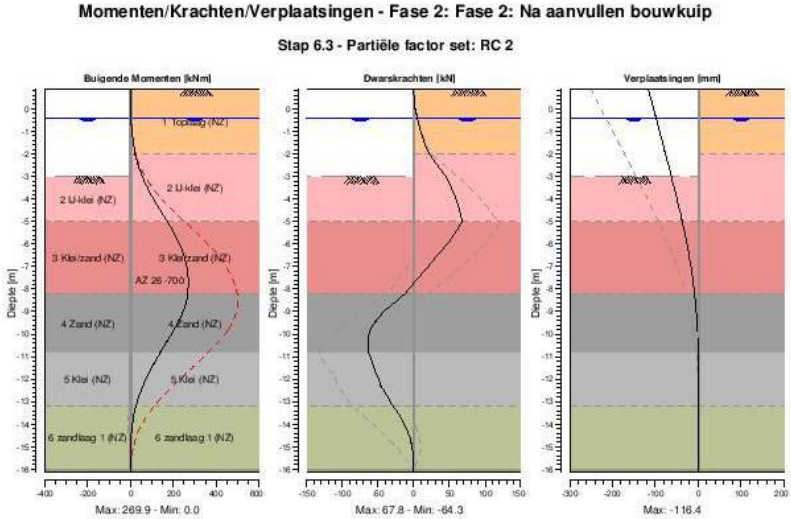
9.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	75.28
3 Klei/zand (NZ)	87.98
4 Zand (NZ)	99.17
5 Klei (NZ)	163.86
6 zandlaag 1 (NZ)	212.72
7 klei (NZ)	9.72
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

9.7 Berekeningsresultaten

Aantal iteraties: 6

9.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



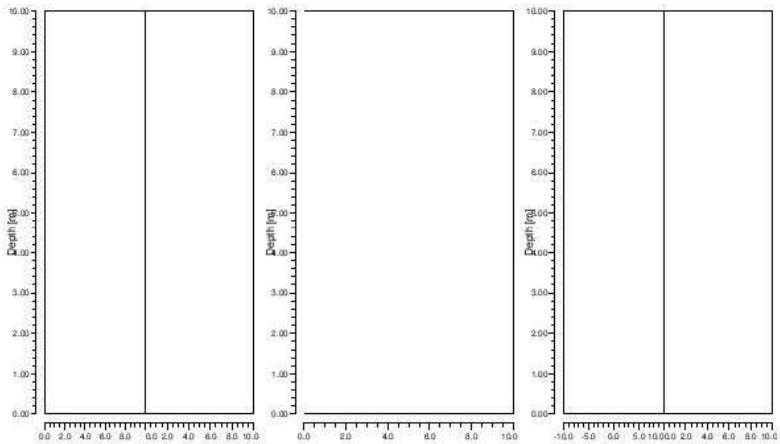
9.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-116.4**
1	0.60	0.03	0.26	-112.2
2	0.60	0.03	0.26	-112.2
2	0.40	0.12	0.72	-109.4
3	0.40	0.12	0.72	-109.4
3	0.20	0.33	1.41	-106.7
4	0.20	0.33	1.41	-106.7
4	0.17	0.37	1.53	-106.2
5	0.17	0.37	1.53	-106.2
5	-0.20	1.28	3.48	-101.1
6	-0.20	1.28	3.48	-101.1
6	-0.33	1.79	4.35	-99.3
7	-0.33	1.79	4.35	-99.3
7	-0.40	2.11	4.86	-98.3
8	-0.40	2.11	4.86	-98.3
8	-0.60	3.23	6.42	-95.5
9	-0.60	3.23	6.42	-95.5
9	-1.33	10.30	13.20	-85.4
10	-1.33	10.30	13.20	-85.4
10	-1.60	14.26	16.14	-81.6
11	-1.60	14.26	16.14	-81.6
11	-1.83	18.29	19.20	-78.5
12	-1.83	18.29	19.20	-78.5
12	-2.00	21.79	21.94	-76.1
13	-2.00	21.79	21.94	-76.1
13	-2.15	25.33	25.22	-74.0
14	-2.15	25.33	25.22	-74.0
14	-2.20	26.61	26.32	-73.3
15	-2.20	26.61	26.32	-73.3
15	-2.33	30.22	29.23	-71.6
16	-2.33	30.22	29.23	-71.6
16	-2.60	38.94	35.39	-67.9
17	-2.60	38.94	35.39	-67.9
17	-3.00	54.97	44.83	-62.4
18	-3.00	54.97	44.83	-62.4
18	-3.60	84.90	54.22	-54.4
19	-3.60	84.90	54.22	-54.4
19	-4.21	120.54	61.35	-46.5
20	-4.21	120.54	61.34	-46.5
20	-4.83	159.94	66.58	-38.9
21	-4.83	159.94	66.58	-38.9
21	-5.00	171.37	**67.84**	-36.9
22	-5.00	171.37	**67.84**	-36.9
22	-5.33	192.70	61.58	-33.1
23	-5.33	192.70	61.58	-33.1
23	-5.83	220.93	51.01	-27.6
24	-5.83	220.93	51.00	-27.6
24	-6.50	249.21	33.39	-21.1
25	-6.50	249.21	33.38	-21.1
25	-7.16	265.44	15.43	-15.4
26	-7.16	265.44	15.44	-15.4
26	-7.83	**269.81**	-2.30	-10.6
27	-7.83	**269.81**	-2.30	-10.6
27	-8.20	267.12	-12.29	-8.4
28	-8.20	267.12	-12.30	-8.4
28	-8.88	250.16	-37.62	-5.1
29	-8.88	250.16	-37.67	-5.1
29	-9.38	227.49	-52.17	-3.2
30	-9.38	227.49	-52.16	-3.2
30	-9.39	226.97	-52.41	-3.2
31	-9.39	226.97	-52.41	-3.2
31	-9.50	221.06	-54.96	-2.9

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	221.06	-54.97	-2.9
32	-9.79	204.28	-60.33	-2.0
33	-9.79	204.28	-60.33	-2.0
33	-9.88	198.79	-61.47	-1.8
34	-9.88	198.79	-61.47	-1.8
34	-9.89	198.18	-61.59	-1.8
35	-9.89	198.18	-61.59	-1.8
35	-10.29	172.89	-64.23	-1.0
36	-10.29	172.89	-64.23	-1.0
36	-10.38	167.10	-64.34	-0.8
37	-10.38	167.10	-64.34	-0.8
37	-10.39	166.46	-64.35	-0.8
38	-10.39	166.46	-64.35	-0.8
38	-10.80	140.24	-63.09	-0.2
39	-10.80	140.24	-63.08	-0.2
39	-10.83	138.35	-62.81	-0.2
40	-10.83	138.35	-62.81	-0.2
40	-11.29	110.54	-57.96	0.2
41	-11.29	110.54	-57.96	0.2
41	-11.38	105.37	-56.92	0.3
42	-11.38	105.37	-56.92	0.3
42	-11.39	104.80	-56.81	0.3
43	-11.39	104.80	-56.81	0.3
43	-11.50	98.62	-55.52	0.3
44	-11.50	98.62	-55.52	0.3
44	-11.89	77.89	-50.76	0.5
45	-11.89	77.89	-50.76	0.5
45	-12.29	58.62	-46.38	0.5
46	-12.29	58.62	-46.38	0.5
46	-12.38	54.52	-44.60	0.5
47	-12.38	54.52	-44.60	0.5
47	-12.39	54.08	-44.41	0.5
48	-12.39	54.08	-44.41	0.5
48	-12.50	49.31	-42.24	0.5
49	-12.50	49.31	-42.24	0.5
49	-12.79	37.89	-36.58	0.4
50	-12.79	37.89	-36.58	0.4
50	-13.20	24.49	-28.81	0.3
51	-13.20	24.49	-28.81	0.3
51	-13.33	20.94	-25.87	0.3
52	-13.33	20.94	-25.87	0.3
52	-14.06	7.33	-12.21	0.0
53	-14.06	7.33	-12.21	0.0
53	-14.79	1.84	-3.71	-0.3
54	-14.79	1.84	-3.71	-0.3
54	-14.88	1.54	-3.04	-0.3
55	-14.88	1.54	-3.04	-0.3
55	-15.00	1.22	-2.28	-0.4
56	-15.00	1.22	-2.28	-0.4
56	-15.39	0.67	-0.81	-0.5
57	-15.39	0.67	-0.81	-0.5
57	-15.50	0.59	-0.69	-0.6
58	-15.50	0.59	-0.69	-0.6
58	-15.79	0.37	-0.95	-0.7
59	-15.79	0.37	-0.95	-0.7
59	-15.83	0.33	-1.05	-0.7
60	-15.83	0.33	-1.05	-0.7
60	-15.89	0.26	-1.24	-0.8
61	-15.89	0.26	-1.24	-0.8
61	-16.00	0.10	-1.68	-0.8
62	-16.00	0.10	-1.68	-0.8
62	-16.10	0.00	0.00	-0.9
Max		**269.81**	**67.84**	**-116.4**
Max incl. tussenknopen		269.88	67.84	-116.4

9.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



9.7.4 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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.23	0.00	A	
6	-0.20	0.00	0.00	-		6.37	0.00	A	
6	-0.33	0.00	0.00	-		7.04	0.00	A	
7	-0.33	0.00	0.00	-		7.10	0.00	A	
7	-0.40	0.00	0.00	-		7.47	0.00	A	
8	-0.40	0.00	0.00	-		7.52	0.00	A	
8	-0.60	0.00	1.96	-		8.09	1.96	A	
9	-0.60	0.00	1.96	-		8.24	1.96	A	
9	-1.33	0.00	9.12	-		10.33	9.12	A	
10	-1.33	0.00	9.12	-		10.49	9.12	A	
10	-1.60	0.00	11.77	-		11.27	11.77	A	
11	-1.60	0.00	11.77	-		11.35	11.77	A	
11	-1.83	0.00	14.03	-		15.67	14.03	A	
12	-1.83	0.00	14.03	-		15.76	14.03	A	
12	-2.00	0.00	15.70	-		16.49	15.70	A	
13	-2.00	0.00	15.70	-		21.68	15.70	A	
13	-2.15	0.00	17.17	-		22.03	17.17	A	
14	-2.15	0.00	17.17	-		22.05	17.17	A	
14	-2.20	0.00	17.66	-		22.17	17.66	A	
15	-2.20	0.00	17.66	-		22.19	17.66	A	
15	-2.33	0.00	18.93	-		22.48	18.93	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]		[%]
16	-2.33	0.00	18.93	-		22.53	18.93	A	
16	-2.60	0.00	21.58	-		23.11	21.58	A	
17	-2.60	0.00	21.58	-		23.18	21.58	A	
17	-3.00	0.00	25.51	-		24.01	25.51	A	
18	-3.00	0.00	25.51	P		24.12	25.51	A	
18	-3.60	11.88	31.39	P		25.30	31.39	A	
19	-3.60	12.34	31.39	P		25.43	31.39	A	
19	-4.21	16.52	37.43	P		26.60	37.43	A	
20	-4.21	16.99	37.43	P		26.73	37.43	A	
20	-4.83	20.16	43.46	3	95	27.87	43.46	A	
21	-4.83	20.40	43.46	3	95	27.95	43.46	A	
21	-5.00	20.88	45.13	3	93	28.22	45.13	A	
22	-5.00	40.85	45.13	3	97	20.23	45.13	A	
22	-5.33	42.92	48.36	3	92	24.25	48.36	A	
23	-5.33	43.54	48.36	3	91	24.36	48.36	A	
23	-5.83	48.77	53.27	3	84	25.56	53.27	A	
24	-5.83	49.71	53.27	3	84	25.71	53.27	A	
24	-6.50	54.40	59.81	2	74	27.28	59.81	A	
25	-6.50	55.12	59.81	2	74	27.46	59.81	A	
25	-7.16	55.33	66.35	2	62	29.01	66.35	A	
26	-7.16	56.05	66.35	2	62	29.18	66.35	A	
26	-7.83	57.21	72.89	2	54	30.71	72.89	A	
27	-7.83	57.77	72.89	2	54	30.84	72.89	A	
27	-8.20	58.48	76.52	2	51	31.61	76.52	A	
28	-8.20	67.66	76.52	2	55	31.96	76.52	A	
28	-8.88	65.25	83.19	1	44	31.33	83.19	A	
29	-8.88	65.82	83.19	1	43	31.53	83.19	A	
29	-9.38	57.24	88.09	1	33	33.07	88.09	A	
30	-9.38	57.48	88.09	1	33	33.16	88.09	A	
30	-9.39	57.33	88.19	1	33	33.19	88.19	A	
31	-9.39	57.39	88.19	1	33	33.21	88.19	A	
31	-9.50	55.89	89.27	1	31	33.55	89.27	A	
32	-9.50	56.07	89.27	1	31	33.62	89.27	A	
32	-9.79	52.72	92.12	1	28	38.82	92.12	1	
33	-9.79	52.89	92.12	1	28	38.92	92.12	1	
33	-9.88	52.02	93.00	1	27	40.45	93.00	1	
34	-9.88	52.06	93.00	1	27	40.48	93.00	1	
34	-9.89	51.97	93.10	1	27	40.38	93.10	1	
35	-9.89	52.15	93.10	1	27	40.50	93.10	1	
35	-10.29	49.21	97.02	1	23	47.20	97.02	1	
36	-10.29	49.42	97.02	1	23	47.34	97.02	1	
36	-10.38	48.95	97.90	1	23	48.38	97.90	1	
37	-10.38	48.99	97.90	1	23	48.41	97.90	1	
37	-10.39	48.94	98.00	1	23	48.52	98.00	1	
38	-10.39	49.13	98.00	1	23	48.63	98.00	1	
38	-10.80	48.02	102.02	1	21	54.07	102.02	1	
39	-10.80	47.48	102.02	1	24	54.91	102.02	1	
39	-10.83	50.44	102.32	1	25	59.83	102.32	1	
40	-10.83	50.59	102.32	1	25	59.93	102.32	1	
40	-11.29	51.18	106.83	1		62.70	106.83	1	15
41	-11.29	51.34	106.83	1		62.80	106.83	1	15
41	-11.38	51.52	107.71	1		63.15	107.71	1	15
42	-11.38	51.55	107.71	1		63.17	107.71	1	15
42	-11.39	51.58	107.81	1		63.20	107.81	1	15
43	-11.39	51.61	107.81	1		63.22	107.81	1	15
43	-11.50	51.86	108.89	1		63.75	108.89	1	15
44	-11.50	52.01	108.89	1		63.85	108.89	1	15
44	-11.89	53.09	112.72	1		65.58	112.72	1	15
45	-11.89	53.32	112.72	1		65.74	112.72	1	15
45	-12.29	54.70	116.64	1		44.72	116.64	1	10
46	-12.29	54.84	116.64	1		74.66	116.64	1	17
46	-12.38	55.18	117.52	1		74.96	117.52	1	17
47	-12.38	55.21	117.52	1		74.98	117.52	1	17
47	-12.39	55.25	117.62	1		75.01	117.62	1	17

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	-12.39	55.29	117.62	1		75.04	117.62	1	17
48	-12.50	55.72	118.70	1		75.39	118.70	1	17
49	-12.50	55.83	118.70	1		75.47	118.70	1	17
49	-12.79	57.02	121.55	1		76.33	121.55	1	17
50	-12.79	57.22	121.55	1		76.48	121.55	1	17
50	-13.20	58.76	125.57	1		77.57	125.57	1	17
51	-13.20	55.92	125.57	1		80.72	125.57	1	15
51	-13.33	53.21	126.84	1		75.14	126.84	1	14
52	-13.33	53.55	126.84	1		75.39	126.84	1	14
52	-14.06	60.27	134.00	1		75.64	134.00	1	13
53	-14.06	60.83	134.00	1		76.06	134.00	1	13
53	-14.79	67.91	141.17	1	18	75.90	141.17	1	
54	-14.79	68.22	141.17	1	18	76.14	141.17	1	
54	-14.88	69.10	142.05	1	18	76.11	142.05	1	
55	-14.88	69.18	142.05	1	18	76.17	142.05	1	
55	-15.00	70.35	143.23	1	19	76.12	143.23	1	
56	-15.00	70.54	143.23	1	19	76.27	143.23	1	
56	-15.39	74.36	147.05	1	19	76.12	147.05	1	
57	-15.39	74.54	147.05	1	19	76.27	147.05	1	
57	-15.50	75.62	148.13	1	19	76.23	148.13	1	
58	-15.50	75.77	148.13	1	19	76.34	148.13	1	
58	-15.79	78.60	150.98	1	19	76.23	150.98	1	
59	-15.79	78.72	150.98	1	19	76.32	150.98	1	
59	-15.83	79.11	151.37	1	19	76.30	151.37	1	
60	-15.83	79.15	151.37	1	19	76.33	151.37	1	
60	-15.89	79.73	151.96	1	19	76.31	151.96	1	
61	-15.89	79.80	151.96	1	19	76.36	151.96	1	
61	-16.00	80.92	153.04	1	19	76.31	153.04	1	
62	-16.00	74.11	153.04	1	26	83.24	153.04	1	
62	-16.10	41.83	154.02	1	14	98.92	154.02	1	

*

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	670.6	670.7
Water	1209.0	1209.0
Totaal	1879.6	1879.7

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	670.61 kN
Percentage gemobiliseerde weerstand	28.8 %

10 Stap 6.4 Fase 2: Fase 2: Na aanvullen bouwkuip

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

10.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

10.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.78
3 Klei/zand (NZ)	188.80
4 Zand (NZ)	134.43
5 Klei (NZ)	124.25
6 zandlaag 1 (NZ)	194.88
7 klei (NZ)	8.17
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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	0.90
3.00	0.90
3.01	1.90
8.50	1.90

10.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

10.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.33	0.78	4.25
2	0.78	0.7	8.9	0.33	0.78	4.25
3	0.72	1.0	13.4	0.33	0.78	4.25
4	0.66	1.4	17.9	0.33	0.78	4.25
5	0.60	1.6	21.2	0.33	0.78	4.25
6	0.60	1.8	23.1	0.33	0.78	4.24
7	0.56	2.0	25.3	0.33	0.77	4.24
8	0.52	2.2	28.3	0.33	0.77	4.24
9	0.48	2.4	31.2	0.33	0.76	4.24
10	0.44	2.6	34.2	0.33	0.76	4.24
11	0.40	2.8	36.4	0.33	0.76	4.24
12	0.40	2.9	37.9	0.33	0.76	4.23
13	0.36	3.1	40.2	0.33	0.75	4.23
14	0.32	3.3	43.1	0.33	0.75	4.23
15	0.28	3.6	46.1	0.33	0.75	4.23
16	0.24	3.8	49.1	0.33	0.75	4.22
17	0.20	4.0	51.3	0.33	0.74	4.22
18	0.20	4.0	52.2	0.33	0.74	4.22
19	0.19	4.1	52.5	0.33	0.74	4.22
20	0.19	4.1	53.0	0.33	0.74	4.22
21	0.18	4.1	53.4	0.33	0.74	4.22
22	0.18	4.2	53.9	0.33	0.74	4.22
23	0.17	4.2	54.2	0.33	0.73	4.22
24	0.17	4.3	55.7	0.33	0.73	4.22
25	0.10	4.6	59.8	0.33	0.73	4.21
26	0.02	5.1	65.3	0.33	0.73	4.20
27	-0.05	5.5	70.8	0.32	0.73	4.20
28	-0.13	5.9	76.3	0.32	0.73	4.19
29	-0.20	6.2	80.4	0.32	0.73	4.18
30	-0.20	6.4	82.3	0.32	0.73	4.18
31	-0.23	6.5	83.8	0.32	0.73	4.18
32	-0.25	6.6	86.4	0.32	0.73	4.21
33	-0.28	6.8	89.5	0.32	0.72	4.27
34	-0.30	6.9	92.8	0.32	0.72	4.32
35	-0.33	7.0	95.4	0.32	0.72	4.37
36	-0.33	7.1	96.7	0.32	0.72	4.39
37	-0.34	7.2	98.2	0.32	0.71	4.42
38	-0.36	7.2	100.1	0.32	0.71	4.45

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	7.3	102.1	0.32	0.71	4.49
40	-0.39	7.4	104.1	0.32	0.70	4.53
41	-0.40	7.5	105.6	0.32	0.70	4.56
42	-0.40	7.5	107.4	0.32	0.70	4.60
43	-0.44	7.6	111.0	0.32	0.70	4.69
44	-0.48	7.7	116.3	0.32	0.70	4.83
45	-0.52	7.9	122.0	0.32	0.70	4.97
46	-0.56	8.0	128.1	0.32	0.70	5.13
47	-0.60	8.1	133.0	0.32	0.69	5.26
48	-0.60	8.2	141.3	0.32	0.69	5.48
49	-0.75	8.6	164.3	0.32	0.70	6.09
50	-0.89	9.1	204.2	0.32	0.70	7.14
51	-1.04	9.5	259.8	0.31	0.69	8.59
52	-1.18	10.0	340.3	0.31	0.69	10.67
53	-1.33	10.3	502.9	0.31	0.69	15.18
54	-1.33	10.5	221.7	0.31	0.69	6.58
55	-1.38	10.6	222.6	0.31	0.69	6.52
56	-1.44	10.8	223.9	0.31	0.68	6.44
57	-1.49	11.0	225.3	0.31	0.68	6.37
58	-1.55	11.1	226.8	0.31	0.68	6.30
59	-1.60	11.3	228.0	0.31	0.67	6.25
60	-1.60	11.3	228.8	0.31	0.67	6.22
61	-1.65	11.5	229.8	0.31	0.67	6.18
62	-1.69	11.6	231.3	0.31	0.66	6.14
63	-1.74	14.3	232.8	0.38	0.66	6.09
64	-1.78	15.6	234.3	0.40	0.66	6.05
65	-1.83	15.7	235.5	0.40	0.65	6.02
66	-1.83	15.8	236.2	0.40	0.65	6.00
67	-1.86	15.9	237.1	0.40	0.65	5.98
68	-1.90	16.0	238.2	0.40	0.65	5.95
69	-1.93	16.2	239.4	0.40	0.65	5.92
70	-1.97	16.3	240.6	0.40	0.64	5.89
71	-2.00	16.4	241.6	0.40	0.64	5.89
72	-2.00	21.6	163.6	0.53	0.64	3.98
73	-2.03	21.6	163.8	0.52	0.80	3.97
74	-2.06	21.7	164.0	0.52	0.80	3.96
75	-2.09	21.8	164.2	0.52	0.80	3.95
76	-2.12	21.9	164.5	0.52	0.80	3.94
77	-2.15	21.9	164.6	0.52	0.80	3.94
78	-2.15	21.9	164.7	0.52	0.80	3.93
79	-2.16	22.0	164.8	0.52	0.80	3.93
80	-2.17	22.0	164.9	0.52	0.80	3.93
81	-2.18	22.0	164.9	0.52	0.80	3.92
82	-2.19	22.0	165.0	0.52	0.80	3.92
83	-2.20	22.1	165.1	0.52	0.80	3.92
84	-2.20	22.1	165.1	0.52	0.80	3.91
85	-2.23	22.1	165.3	0.52	0.80	3.91
86	-2.25	22.2	165.5	0.52	0.79	3.90
87	-2.28	22.3	165.7	0.52	0.79	3.89
88	-2.30	22.3	165.9	0.52	0.79	3.88
89	-2.33	22.4	166.0	0.52	0.79	3.88
90	-2.33	22.4	166.2	0.52	0.79	3.87
91	-2.38	22.5	166.5	0.52	0.79	3.86
92	-2.44	22.6	166.9	0.52	0.79	3.84
93	-2.49	22.8	167.3	0.52	0.79	3.82
94	-2.55	22.9	167.7	0.52	0.78	3.81
95	-2.60	23.0	168.0	0.52	0.78	3.79
96	-2.60	23.1	168.3	0.52	0.78	3.78
97	-2.68	23.2	168.8	0.52	0.78	3.77
98	-2.76	23.4	169.4	0.52	0.78	3.74
99	-2.84	23.6	170.0	0.52	0.78	3.72
100	-2.92	23.8	170.6	0.52	0.77	3.70
101	-3.00	23.9	171.0	0.51	0.77	3.68
102	-3.00	24.0	171.4	0.51	0.77	3.67

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	24.2	172.1	0.51	0.77	3.65
104	-3.24	24.5	173.0	0.51	0.76	3.62
105	-3.36	24.7	139.6	0.51	0.76	2.88
106	-3.48	25.0	136.8	0.51	0.75	2.79
107	-3.60	25.2	137.4	0.51	0.75	2.77
108	-3.60	25.3	137.9	0.51	0.75	2.76
109	-3.72	25.5	138.5	0.51	0.75	2.75
110	-3.85	25.8	139.4	0.51	0.74	2.73
111	-3.97	26.0	140.2	0.50	0.74	2.71
112	-4.09	26.3	141.1	0.50	0.74	2.70
113	-4.21	26.5	141.7	0.50	0.73	2.68
114	-4.21	26.6	142.1	0.50	0.73	2.68
115	-4.34	26.8	142.8	0.50	0.73	2.67
116	-4.46	27.1	143.7	0.50	0.73	2.65
117	-4.58	27.3	144.5	0.50	0.73	2.64
118	-4.71	27.6	145.4	0.50	0.72	2.62
119	-4.83	27.8	146.0	0.50	0.72	2.61
120	-4.83	27.8	146.3	0.50	0.72	2.61
121	-4.86	27.9	146.5	0.50	0.72	2.61
122	-4.90	28.0	146.7	0.50	0.72	2.60
123	-4.93	28.0	147.0	0.50	0.72	2.60
124	-4.97	28.1	147.2	0.50	0.71	2.60
125	-5.00	28.2	147.4	0.49	0.72	2.59
126	-5.00	20.2	226.1	0.35	0.72	3.96
127	-5.07	20.3	227.2	0.35	0.60	3.95
128	-5.13	22.8	228.8	0.39	0.60	3.94
129	-5.20	23.9	230.4	0.41	0.60	3.94
130	-5.26	24.1	232.0	0.41	0.59	3.93
131	-5.33	24.2	233.2	0.41	0.59	3.92
132	-5.33	24.3	234.2	0.41	0.59	3.92
133	-5.43	24.5	236.0	0.41	0.59	3.91
134	-5.53	24.8	238.4	0.41	0.59	3.90
135	-5.63	25.1	240.8	0.40	0.59	3.89
136	-5.73	25.3	243.2	0.40	0.59	3.88
137	-5.83	25.5	245.0	0.40	0.58	3.87
138	-5.83	25.7	246.4	0.40	0.58	3.87
139	-5.96	25.9	248.8	0.40	0.58	3.86
140	-6.10	26.3	252.0	0.40	0.58	3.85
141	-6.23	26.6	255.2	0.40	0.58	3.84
142	-6.36	27.0	276.8	0.40	0.58	4.10
143	-6.50	27.2	287.8	0.40	0.58	4.21
144	-6.50	27.4	289.4	0.40	0.58	4.21
145	-6.63	27.7	291.8	0.40	0.57	4.19
146	-6.76	28.0	294.9	0.40	0.57	4.18
147	-6.90	28.4	298.1	0.40	0.57	4.16
148	-7.03	28.7	301.2	0.40	0.57	4.15
149	-7.16	29.0	303.6	0.40	0.57	4.14
150	-7.16	29.1	305.2	0.39	0.57	4.13
151	-7.30	29.4	307.6	0.39	0.57	4.12
152	-7.43	29.7	310.7	0.39	0.57	4.11
153	-7.56	30.1	313.9	0.39	0.57	4.10
154	-7.70	30.4	317.1	0.39	0.57	4.09
155	-7.83	30.7	319.5	0.39	0.56	4.08
156	-7.83	30.8	320.7	0.39	0.56	4.08
157	-7.90	30.9	322.0	0.39	0.56	4.07
158	-7.98	31.1	323.8	0.39	0.56	4.07
159	-8.05	31.3	325.6	0.39	0.56	4.06
160	-8.13	31.5	327.3	0.39	0.56	4.06
161	-8.20	31.6	328.6	0.39	0.56	4.04
162	-8.20	32.0	369.2	0.39	0.56	4.51
163	-8.34	32.1	373.5	0.39	0.53	4.50
164	-8.47	30.5	379.2	0.36	0.53	4.49
165	-8.61	30.6	384.9	0.36	0.53	4.48
166	-8.74	31.0	390.6	0.36	0.53	4.47

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	31.4	394.9	0.35	0.53	4.46
168	-8.88	31.6	397.4	0.35	0.53	4.46
169	-8.98	31.8	400.6	0.35	0.53	4.45
170	-9.08	32.2	404.8	0.35	0.53	4.45
171	-9.18	32.5	409.1	0.35	0.53	4.44
172	-9.28	32.9	413.3	0.35	0.53	4.44
173	-9.38	33.1	416.5	0.35	0.53	4.43
174	-9.38	33.2	417.6	0.35	0.53	4.43
175	-9.38	33.2	417.7	0.35	0.53	4.43
176	-9.38	33.2	417.7	0.35	0.53	4.43
177	-9.39	33.2	417.8	0.35	0.52	4.43
178	-9.39	33.2	417.9	0.35	0.52	4.43
179	-9.39	33.2	418.0	0.35	0.52	4.43
180	-9.39	33.3	418.2	0.35	0.52	4.43
181	-9.41	33.3	418.9	0.35	0.52	4.43
182	-9.43	33.4	419.9	0.35	0.52	4.43
183	-9.46	33.5	420.8	0.35	0.52	4.43
184	-9.48	33.5	426.2	0.35	0.52	4.47
185	-9.50	33.6	435.0	0.35	0.52	4.56
186	-9.50	33.7	435.8	0.35	0.52	4.56
187	-9.56	33.8	437.6	0.35	0.52	4.55
188	-9.62	34.0	440.1	0.35	0.52	4.55
189	-9.67	34.2	442.5	0.35	0.52	4.54
190	-9.73	34.4	444.9	0.35	0.52	4.54
191	-9.79	34.6	446.8	0.35	0.52	4.54
192	-9.79	34.6	447.6	0.35	0.52	4.54
193	-9.81	34.7	448.1	0.35	0.52	4.54
194	-9.83	34.7	448.9	0.35	0.52	4.53
195	-9.84	34.8	449.7	0.35	0.52	4.53
196	-9.86	34.9	450.4	0.35	0.52	4.53
197	-9.88	34.9	451.0	0.35	0.52	4.53
198	-9.88	34.9	451.2	0.35	0.52	4.53
199	-9.88	34.9	451.3	0.35	0.52	4.53
200	-9.88	34.9	451.3	0.35	0.52	4.53
201	-9.89	34.9	451.4	0.35	0.52	4.53
202	-9.89	34.9	451.5	0.35	0.52	4.53
203	-9.89	35.0	451.6	0.35	0.52	4.53
204	-9.89	35.0	452.4	0.35	0.52	4.53
205	-9.97	35.2	455.0	0.35	0.52	4.53
206	-10.05	35.5	458.4	0.35	0.52	4.52
207	-10.13	35.8	461.7	0.35	0.52	4.52
208	-10.21	36.0	465.1	0.35	0.51	4.51
209	-10.29	36.3	467.7	0.35	0.51	4.51
210	-10.29	36.3	468.7	0.35	0.51	4.51
211	-10.31	36.4	469.3	0.35	0.51	4.51
212	-10.33	36.4	470.0	0.35	0.51	4.50
213	-10.34	36.5	470.8	0.35	0.51	4.50
214	-10.36	36.6	471.6	0.35	0.51	4.50
215	-10.38	36.6	472.1	0.35	0.51	4.50
216	-10.38	36.6	472.4	0.35	0.51	4.50
217	-10.38	36.6	472.4	0.35	0.51	4.50
218	-10.38	36.6	472.5	0.35	0.51	4.50
219	-10.39	36.6	472.6	0.35	0.51	4.50
220	-10.39	36.7	472.7	0.35	0.51	4.50
221	-10.39	36.7	472.7	0.35	0.51	4.50
222	-10.39	36.7	473.6	0.35	0.51	4.50
223	-10.47	36.9	476.2	0.35	0.51	4.50
224	-10.55	37.2	479.7	0.35	0.51	4.49
225	-10.64	37.5	483.2	0.35	0.51	4.49
226	-10.72	37.8	486.7	0.35	0.51	4.49
227	-10.80	38.0	489.3	0.35	0.51	4.49
228	-10.80	40.0	416.8	0.37	0.51	3.82
229	-10.81	40.1	416.9	0.37	0.55	3.82
230	-10.81	40.1	417.0	0.37	0.55	3.82

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	40.1	417.2	0.37	0.55	3.82
232	-10.82	40.1	417.3	0.37	0.55	3.82
233	-10.83	40.1	417.4	0.37	0.55	3.82
234	-10.83	40.2	418.0	0.37	0.55	3.82
235	-10.92	40.4	419.5	0.37	0.55	3.81
236	-11.01	40.6	421.6	0.37	0.55	3.81
237	-11.11	40.8	423.7	0.37	0.55	3.81
238	-11.20	41.1	425.8	0.37	0.55	3.80
239	-11.29	41.2	427.4	0.37	0.55	3.80
240	-11.29	41.3	428.0	0.37	0.55	3.80
241	-11.31	41.3	428.3	0.37	0.55	3.80
242	-11.33	41.4	428.7	0.37	0.55	3.80
243	-11.34	41.4	429.1	0.37	0.55	3.80
244	-11.36	41.5	429.6	0.37	0.55	3.80
245	-11.38	41.5	429.9	0.37	0.55	3.80
246	-11.38	41.5	430.0	0.37	0.55	3.80
247	-11.38	41.5	430.0	0.37	0.55	3.80
248	-11.38	41.5	430.1	0.37	0.55	3.80
249	-11.39	41.5	430.1	0.37	0.55	3.80
250	-11.39	41.5	430.1	0.37	0.55	3.80
251	-11.39	41.5	430.2	0.37	0.55	3.80
252	-11.39	41.6	430.3	0.37	0.55	3.80
253	-11.41	41.6	430.7	0.37	0.55	3.80
254	-11.43	41.7	431.2	0.37	0.55	3.80
255	-11.46	41.7	431.7	0.37	0.55	3.79
256	-11.48	41.8	432.2	0.37	0.55	3.79
257	-11.50	41.8	432.6	0.37	0.55	3.79
258	-11.50	41.9	433.1	0.37	0.55	3.79
259	-11.58	42.0	434.5	0.37	0.55	3.79
260	-11.66	42.2	436.2	0.37	0.55	3.79
261	-11.73	42.4	438.0	0.37	0.55	3.78
262	-11.81	42.6	439.8	0.37	0.55	3.78
263	-11.89	42.8	441.1	0.37	0.55	3.78
264	-11.89	42.0	442.0	0.36	0.55	3.78
265	-11.97	42.4	443.4	0.36	0.56	3.78
266	-12.05	42.6	436.8	0.36	0.56	3.70
267	-12.13	42.8	431.8	0.36	0.56	3.64
268	-12.21	43.0	433.6	0.36	0.56	3.64
269	-12.29	43.2	435.0	0.36	0.36	3.64
270	-12.29	43.2	435.6	0.36	0.61	3.64
271	-12.31	43.3	435.9	0.36	0.61	3.64
272	-12.33	43.3	436.3	0.36	0.61	3.64
273	-12.34	43.4	436.7	0.36	0.61	3.64
274	-12.36	43.4	437.1	0.36	0.61	3.64
275	-12.38	61.7	437.4	0.51	0.61	3.64
276	-12.38	36.0	437.5	0.30	0.61	3.64
277	-12.38	47.0	437.5	0.39	0.61	3.64
278	-12.38	-38.8	437.6	0.00	0.61	3.64
279	-12.39	43.5	437.6	0.36	0.61	3.64
280	-12.39	43.5	437.7	0.36	0.61	3.64
281	-12.39	43.5	437.7	0.36	0.61	3.64
282	-12.39	43.5	437.8	0.36	0.61	3.64
283	-12.41	51.5	438.2	0.43	0.61	3.64
284	-12.43	43.7	438.7	0.36	0.61	3.64
285	-12.46	43.7	439.2	0.36	0.61	3.64
286	-12.48	43.8	439.7	0.36	0.61	3.63
287	-12.50	43.3	440.1	0.36	0.61	3.63
288	-12.50	43.6	440.6	0.36	0.61	3.63
289	-12.56	41.0	441.5	0.34	0.61	3.63
290	-12.62	46.3	442.9	0.38	0.61	3.63
291	-12.67	41.9	444.2	0.34	0.61	3.63
292	-12.73	44.3	445.5	0.36	0.61	3.63
293	-12.79	44.5	446.5	0.36	0.61	3.63
294	-12.79	44.5	447.3	0.36	0.61	3.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	44.7	448.7	0.36	0.61	3.63
296	-12.95	44.9	450.5	0.36	0.61	3.62
297	-13.04	45.1	452.4	0.36	0.61	3.62
298	-13.12	45.3	454.3	0.36	0.61	3.62
299	-13.20	45.5	455.7	0.36	0.61	3.61
300	-13.20	42.8	543.7	0.34	0.61	4.30
301	-13.23	42.9	544.5	0.34	0.56	4.30
302	-13.25	43.0	545.6	0.34	0.56	4.30
303	-13.28	43.1	546.8	0.34	0.56	4.30
304	-13.30	43.2	547.9	0.34	0.56	4.30
305	-13.33	43.2	548.7	0.34	0.56	4.30
306	-13.33	43.4	550.6	0.34	0.56	4.30
307	-13.48	43.7	555.3	0.34	0.56	4.30
308	-13.62	44.2	561.5	0.34	0.56	4.29
309	-13.77	44.7	567.8	0.34	0.56	4.29
310	-13.91	45.2	574.1	0.34	0.56	4.29
311	-14.06	45.6	578.8	0.34	0.56	4.29
312	-14.06	45.8	581.9	0.34	0.56	4.29
313	-14.21	46.2	586.6	0.34	0.56	4.29
314	-14.35	46.7	592.7	0.34	0.56	4.28
315	-14.50	47.3	613.9	0.34	0.56	4.39
316	-14.64	48.5	620.7	0.34	0.56	4.39
317	-14.79	48.9	625.4	0.34	0.56	4.39
318	-14.79	49.0	627.2	0.34	0.56	4.39
319	-14.81	49.1	627.8	0.34	0.56	4.39
320	-14.83	49.1	628.5	0.34	0.56	4.39
321	-14.84	49.2	629.3	0.34	0.56	4.38
322	-14.86	49.2	630.1	0.34	0.56	4.38
323	-14.88	49.3	630.7	0.34	0.56	4.38
324	-14.88	49.3	631.1	0.34	0.56	4.38
325	-14.90	49.4	631.9	0.34	0.56	4.38
326	-14.93	49.5	632.9	0.34	0.56	4.38
327	-14.95	49.5	633.9	0.34	0.56	4.38
328	-14.98	49.6	635.0	0.34	0.56	4.38
329	-15.00	49.7	635.7	0.34	0.56	4.38
330	-15.00	49.8	636.8	0.34	0.56	4.38
331	-15.08	50.0	639.3	0.34	0.56	4.38
332	-15.16	50.2	642.7	0.34	0.56	4.38
333	-15.23	50.5	646.0	0.34	0.56	4.38
334	-15.31	50.8	649.4	0.34	0.56	4.38
335	-15.39	51.0	651.9	0.34	0.56	4.37
336	-15.39	51.0	652.9	0.34	0.56	4.37
337	-15.41	51.1	653.7	0.34	0.56	4.37
338	-15.43	51.2	654.6	0.34	0.56	4.37
339	-15.46	51.2	655.5	0.34	0.56	4.37
340	-15.48	51.3	656.5	0.34	0.56	4.37
341	-15.50	51.4	657.2	0.34	0.56	4.37
342	-15.50	54.3	658.0	0.36	0.56	4.37
343	-15.56	50.1	659.9	0.33	0.56	4.37
344	-15.62	54.3	662.4	0.36	0.56	4.37
345	-15.67	52.0	664.9	0.34	0.56	4.37
346	-15.73	52.1	667.4	0.34	0.56	4.37
347	-15.79	47.6	669.3	0.31	0.56	4.37
348	-15.79	52.4	670.0	0.34	0.56	4.37
349	-15.80	52.4	670.2	0.34	0.56	4.37
350	-15.81	52.4	670.6	0.34	0.56	4.37
351	-15.81	52.5	670.9	0.34	0.56	4.37
352	-15.82	52.5	671.3	0.34	0.56	4.37
353	-15.83	52.5	671.5	0.34	0.56	4.37
354	-15.83	69.1	671.7	0.45	0.56	4.37
355	-15.84	44.2	672.1	0.29	0.56	4.37
356	-15.85	52.6	672.6	0.34	0.56	4.37
357	-15.87	52.6	673.1	0.34	0.56	4.37
358	-15.88	52.7	673.7	0.34	0.56	4.37

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	52.7	674.0	0.34	0.56	4.37
360	-15.89	52.7	674.4	0.34	0.56	4.37
361	-15.91	52.8	675.1	0.34	0.56	4.37
362	-15.93	52.9	676.1	0.34	0.56	4.37
363	-15.96	52.9	677.0	0.34	0.56	4.37
364	-15.98	53.0	678.0	0.34	0.56	4.36
365	-16.00	53.1	678.7	0.34	0.56	4.37
366	-16.00	63.4	479.9	0.41	0.56	3.09
367	-16.02	63.5	480.2	0.41	0.65	3.09
368	-16.04	63.5	480.6	0.41	0.65	3.08
369	-16.06	63.6	480.9	0.41	0.65	3.08
370	-16.08	63.7	481.3	0.41	0.65	3.08
371	-16.10	63.7	481.6	0.41	0.65	3.08

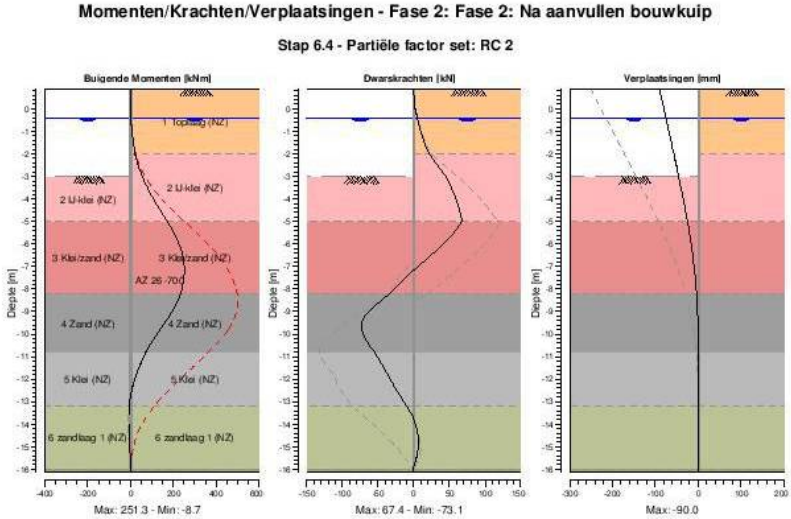
10.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	75.28
3 Klei/zand (NZ)	87.98
4 Zand (NZ)	113.03
5 Klei (NZ)	169.20
6 zandlaag 1 (NZ)	203.43
7 klei (NZ)	9.60
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

10.7 Berekeningsresultaten

Aantal iteraties: 6

10.7.1 Grafieken van Momenten, Krachten en Verplaatsingen

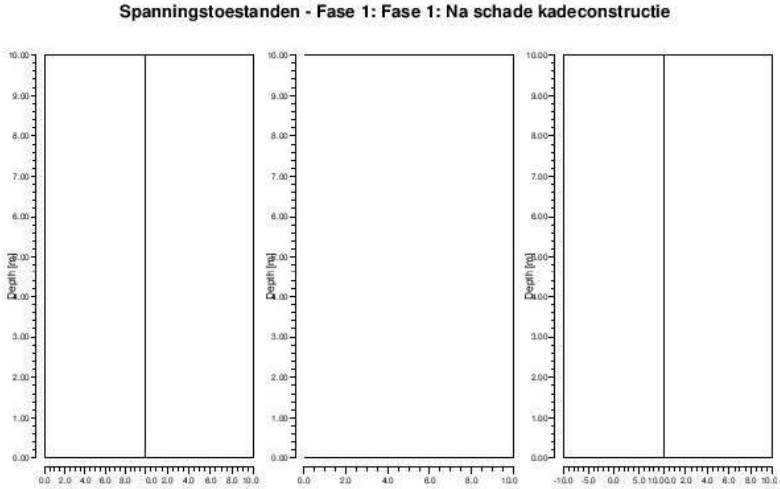


10.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-90.0**
1	0.60	0.03	0.26	-86.6
2	0.60	0.03	0.26	-86.6
2	0.40	0.12	0.72	-84.3
3	0.40	0.12	0.72	-84.3
3	0.20	0.33	1.41	-82.0
4	0.20	0.33	1.41	-82.0
4	0.17	0.37	1.53	-81.6
5	0.17	0.37	1.53	-81.6
5	-0.20	1.28	3.48	-77.4
6	-0.20	1.28	3.48	-77.4
6	-0.33	1.79	4.35	-75.9
7	-0.33	1.79	4.35	-75.9
7	-0.40	2.11	4.86	-75.0
8	-0.40	2.11	4.86	-75.0
8	-0.60	3.23	6.42	-72.7
9	-0.60	3.23	6.42	-72.7
9	-1.33	10.30	13.20	-64.3
10	-1.33	10.30	13.20	-64.3
10	-1.60	14.26	16.14	-61.2
11	-1.60	14.26	16.14	-61.2
11	-1.83	18.29	19.20	-58.6
12	-1.83	18.29	19.20	-58.6
12	-2.00	21.79	21.94	-56.7
13	-2.00	21.79	21.94	-56.7
13	-2.15	25.33	25.22	-55.0
14	-2.15	25.33	25.22	-55.0
14	-2.20	26.61	26.32	-54.4
15	-2.20	26.61	26.32	-54.4
15	-2.33	30.22	29.23	-52.9
16	-2.33	30.22	29.23	-52.9
16	-2.60	38.94	35.39	-49.9
17	-2.60	38.94	35.39	-49.9
17	-3.00	54.97	44.83	-45.4
18	-3.00	54.97	44.83	-45.4
18	-3.60	84.90	54.22	-38.8
19	-3.60	84.90	54.22	-38.8
19	-4.21	120.54	61.35	-32.3
20	-4.21	120.54	61.35	-32.3
20	-4.83	159.92	66.40	-26.2
21	-4.83	159.92	66.40	-26.2
21	-5.00	171.30	67.44	-24.6
22	-5.00	171.30	67.44	-24.6
22	-5.33	192.39	60.36	-21.6
23	-5.33	192.39	60.36	-21.6
23	-5.83	219.30	46.60	-17.3
24	-5.83	219.30	46.59	-17.3
24	-6.50	243.16	24.54	-12.4
25	-6.50	243.16	24.52	-12.4
25	-7.16	**251.31**	-0.13	-8.2
26	-7.16	**251.31**	-0.14	-8.2
26	-7.83	243.66	-22.26	-5.0
27	-7.83	243.66	-22.26	-5.0
27	-8.20	233.34	-33.42	-3.6
28	-8.20	233.34	-33.44	-3.6
28	-8.88	201.54	-59.65	-1.6
29	-8.88	201.53	-59.72	-1.6
29	-9.38	168.35	-71.49	-0.7
30	-9.38	168.34	-71.52	-0.7
30	-9.39	167.63	-71.65	-0.7
31	-9.39	167.63	-71.65	-0.7
31	-9.50	159.68	-72.69	-0.5

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	159.68	-72.69	-0.5
32	-9.79	138.51	**-72.74**	-0.2
33	-9.79	138.51	**-72.74**	-0.2
33	-9.88	131.99	-72.08	-0.1
34	-9.88	131.99	-72.08	-0.1
34	-9.89	131.27	-72.00	-0.1
35	-9.89	131.27	-71.99	-0.1
35	-10.29	103.47	-66.32	0.2
36	-10.29	103.47	-66.32	0.2
36	-10.38	97.58	-64.56	0.3
37	-10.38	97.58	-64.56	0.3
37	-10.39	96.94	-64.36	0.3
38	-10.39	96.94	-64.36	0.3
38	-10.80	72.42	-54.93	0.4
39	-10.80	72.42	-54.93	0.4
39	-10.83	70.78	-54.37	0.4
40	-10.83	70.78	-54.37	0.4
40	-11.29	47.77	-45.63	0.5
41	-11.29	47.77	-45.63	0.5
41	-11.38	43.74	-43.92	0.5
42	-11.38	43.74	-43.92	0.5
42	-11.39	43.30	-43.74	0.5
43	-11.39	43.30	-43.74	0.5
43	-11.50	38.61	-41.69	0.5
44	-11.50	38.61	-41.69	0.5
44	-11.89	23.73	-34.70	0.4
45	-11.89	23.73	-34.70	0.4
45	-12.29	11.22	-28.75	0.3
46	-12.29	11.22	-28.75	0.3
46	-12.38	8.72	-26.72	0.3
47	-12.38	8.72	-26.72	0.3
47	-12.39	8.45	-26.49	0.3
48	-12.39	8.45	-26.49	0.3
48	-12.50	5.67	-24.06	0.3
49	-12.50	5.67	-24.06	0.3
49	-12.79	-0.40	-17.93	0.2
50	-12.79	-0.40	-17.93	0.2
50	-13.20	-6.10	-9.97	0.1
51	-13.20	-6.10	-9.97	0.1
51	-13.33	-7.21	-7.18	0.1
52	-13.33	-7.21	-7.18	0.1
52	-14.06	-8.15	3.22	-0.1
53	-14.06	-8.15	3.21	-0.1
53	-14.79	-4.31	6.25	-0.2
54	-14.79	-4.31	6.25	-0.2
54	-14.88	-3.75	6.19	-0.2
55	-14.88	-3.75	6.19	-0.2
55	-15.00	-3.01	5.99	-0.2
56	-15.00	-3.01	5.99	-0.2
56	-15.39	-0.96	4.28	-0.3
57	-15.39	-0.96	4.28	-0.3
57	-15.50	-0.53	3.52	-0.3
58	-15.50	-0.53	3.52	-0.3
58	-15.79	0.14	0.95	-0.4
59	-15.79	0.14	0.95	-0.4
59	-15.83	0.17	0.53	-0.4
60	-15.83	0.17	0.53	-0.4
60	-15.89	0.18	-0.13	-0.4
61	-15.89	0.18	-0.13	-0.4
61	-16.00	0.09	-1.43	-0.4
62	-16.00	0.09	-1.43	-0.4
62	-16.10	0.00	0.00	-0.4
Max		**251.31**	**-72.74**	**-90.0**
Max incl. tussenknopen		251.31	-73.15	-90.0

10.7.3 Grafieken van Spanningen



10.7.4 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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.23	0.00	A	
6	-0.20	0.00	0.00	-		6.37	0.00	A	
6	-0.33	0.00	0.00	-		7.04	0.00	A	
7	-0.33	0.00	0.00	-		7.10	0.00	A	
7	-0.40	0.00	0.00	-		7.47	0.00	A	
8	-0.40	0.00	0.00	-		7.52	0.00	A	
8	-0.60	0.00	1.96	-		8.09	1.96	A	
9	-0.60	0.00	1.96	-		8.24	1.96	A	
9	-1.33	0.00	9.12	-		10.33	9.12	A	
10	-1.33	0.00	9.12	-		10.49	9.12	A	
10	-1.60	0.00	11.77	-		11.27	11.77	A	
11	-1.60	0.00	11.77	-		11.35	11.77	A	
11	-1.83	0.00	14.03	-		15.67	14.03	A	
12	-1.83	0.00	14.03	-		15.76	14.03	A	
12	-2.00	0.00	15.70	-		16.49	15.70	A	
13	-2.00	0.00	15.70	-		21.68	15.70	A	
13	-2.15	0.00	17.17	-		22.03	17.17	A	
14	-2.15	0.00	17.17	-		22.05	17.17	A	
14	-2.20	0.00	17.66	-		22.17	17.66	A	
15	-2.20	0.00	17.66	-		22.19	17.66	A	
15	-2.33	0.00	18.93	-		22.48	18.93	A	

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* [%]
16	-2.33	0.00	18.93	-		22.53	18.93	A	
16	-2.60	0.00	21.58	-		23.11	21.58	A	
17	-2.60	0.00	21.58	-		23.18	21.58	A	
17	-3.00	0.00	25.51	-		24.01	25.51	A	
18	-3.00	0.00	25.51	P		24.12	25.51	A	
18	-3.60	11.88	31.39	P		25.30	31.39	A	
19	-3.60	12.34	31.39	P		25.43	31.39	A	
19	-4.21	16.52	37.43	P		26.60	37.43	A	
20	-4.21	16.99	37.43	P		26.73	37.43	A	
20	-4.83	21.17	43.46	P		27.87	43.46	A	
21	-4.83	21.46	43.46	P		27.95	43.46	A	
21	-5.00	22.39	45.13	P		28.22	45.13	A	
22	-5.00	42.01	45.13	P		20.23	45.13	A	
22	-5.33	46.84	48.36	P		24.25	48.36	A	
23	-5.33	47.71	48.36	P		24.36	48.36	A	
23	-5.83	56.17	53.27	3	97	25.56	53.27	A	
24	-5.83	57.11	53.27	3	97	25.71	53.27	A	
24	-6.50	62.19	59.81	3	85	27.28	59.81	A	
25	-6.50	63.29	59.81	3	85	27.46	59.81	A	
25	-7.16	64.50	66.35	2	72	29.01	66.35	A	
26	-7.16	65.22	66.35	2	72	29.18	66.35	A	
26	-7.83	61.45	72.89	2	58	30.71	72.89	A	
27	-7.83	62.00	72.89	2	58	30.84	72.89	A	
27	-8.20	60.69	76.52	2	53	31.61	76.52	A	
28	-8.20	71.20	76.52	2	57	31.96	76.52	A	
28	-8.88	63.52	83.19	1	42	31.33	83.19	A	
29	-8.88	64.10	83.19	1	42	31.53	83.19	A	
29	-9.38	49.70	88.09	1	29	36.91	88.09	1	
30	-9.38	49.94	88.09	1	29	37.05	88.09	1	
30	-9.39	49.72	88.19	1	29	37.38	88.19	1	
31	-9.39	49.77	88.19	1	29	37.41	88.19	1	
31	-9.50	47.47	89.27	1	27	40.83	89.27	1	
32	-9.50	47.66	89.27	1	27	40.94	89.27	1	
32	-9.79	42.87	92.12	1	23	48.66	92.12	1	
33	-9.79	43.05	92.12	1	23	48.76	92.12	1	
33	-9.88	41.91	93.00	1	22	50.56	93.00	1	
34	-9.88	41.95	93.00	1	22	50.58	93.00	1	
34	-9.89	41.84	93.10	1	21	50.52	93.10	1	
35	-9.89	42.02	93.10	1	21	50.63	93.10	1	
35	-10.29	38.76	97.02	1		57.65	97.02	1	12
36	-10.29	38.97	97.02	1		57.79	97.02	1	12
36	-10.38	38.58	97.90	1		58.75	97.90	1	12
37	-10.38	38.62	97.90	1		58.78	97.90	1	12
37	-10.39	38.59	98.00	1		58.87	98.00	1	12
38	-10.39	38.77	98.00	1		58.99	98.00	1	12
38	-10.80	38.59	102.02	1		63.50	102.02	1	13
39	-10.80	42.76	102.02	1		59.63	102.02	1	14
39	-10.83	45.78	102.32	1		64.50	102.32	1	15
40	-10.83	45.93	102.32	1		64.59	102.32	1	15
40	-11.29	47.40	106.83	1		66.48	106.83	1	16
41	-11.29	47.57	106.83	1		66.58	106.83	1	16
41	-11.38	47.94	107.71	1		66.73	107.71	1	16
42	-11.38	47.97	107.71	1		66.75	107.71	1	16
42	-11.39	48.02	107.81	1		66.76	107.81	1	16
43	-11.39	48.05	107.81	1		66.78	107.81	1	16
43	-11.50	48.55	108.89	1		67.06	108.89	1	15
44	-11.50	48.70	108.89	1		67.16	108.89	1	15
44	-11.89	50.68	112.72	1		68.00	112.72	1	15
45	-11.89	50.91	112.72	1		68.15	112.72	1	15
45	-12.29	53.18	116.64	1		46.24	116.64	1	11
46	-12.29	53.32	116.64	1		76.18	116.64	1	17
46	-12.38	53.85	117.52	1		76.29	117.52	1	17
47	-12.38	53.88	117.52	1		76.32	117.52	1	17
47	-12.39	53.94	117.62	1		76.33	117.62	1	17

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	-12.39	53.97	117.62	1		76.35	117.62	1	17
48	-12.50	54.62	118.70	1		76.48	118.70	1	17
49	-12.50	54.74	118.70	1		76.57	118.70	1	17
49	-12.79	56.46	121.55	1		76.89	121.55	1	17
50	-12.79	56.66	121.55	1		77.04	121.55	1	17
50	-13.20	58.83	125.57	1		77.51	125.57	1	17
51	-13.20	56.17	125.57	1		80.47	125.57	1	15
51	-13.33	54.10	126.84	1		74.25	126.84	1	14
52	-13.33	54.44	126.84	1		74.50	126.84	1	14
52	-14.06	63.53	134.00	1	19	72.38	134.00	1	
53	-14.06	64.09	134.00	1	19	72.80	134.00	1	
53	-14.79	71.94	141.17	1	19	71.87	141.17	1	
54	-14.79	72.24	141.17	1	19	72.11	141.17	1	
54	-14.88	73.15	142.05	1	20	72.06	142.05	1	
55	-14.88	73.23	142.05	1	20	72.12	142.05	1	
55	-15.00	74.42	143.23	1	20	72.06	143.23	1	
56	-15.00	74.61	143.23	1	20	72.21	143.23	1	
56	-15.39	78.40	147.05	1	20	72.08	147.05	1	
57	-15.39	78.58	147.05	1	20	72.23	147.05	1	
57	-15.50	79.64	148.13	1	20	72.21	148.13	1	
58	-15.50	79.78	148.13	1	20	72.32	148.13	1	
58	-15.79	82.56	150.98	1	20	72.27	150.98	1	
59	-15.79	82.68	150.98	1	20	72.37	150.98	1	
59	-15.83	83.06	151.37	1	20	72.36	151.37	1	
60	-15.83	83.09	151.37	1	20	72.39	151.37	1	
60	-15.89	83.67	151.96	1	20	72.38	151.96	1	
61	-15.89	83.73	151.96	1	20	72.43	151.96	1	
61	-16.00	84.83	153.04	1	20	72.41	153.04	1	
62	-16.00	75.33	153.04	1	26	82.02	153.04	1	
62	-16.10	43.05	154.02	1	15	97.72	154.02	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	680.3	680.5
Water	1209.0	1209.0
Totaal	1889.3	1889.5

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	680.31 kN
Percentage gemobiliseerde weerstand	29.2 %

11 Stap 6.5 Fase 2: Fase 2: Na aanvullen bouwkuip

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau	Schelpfactor	OCR	Korreltype
	[m]	[-]	[-]	
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

11.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	11.4	0.00	1.73	25.66
2	-3.24	0.0	12.4	0.00	1.73	14.00
3	-3.36	0.0	13.4	0.00	1.73	10.11
4	-3.48	0.0	14.5	0.00	1.72	8.17
5	-3.60	0.0	15.2	0.00	1.72	7.25
6	-3.60	0.0	15.8	0.00	1.72	6.78
7	-3.72	0.0	16.6	0.00	1.72	6.21
8	-3.85	0.0	17.6	0.00	1.72	5.65
9	-3.97	0.0	18.7	0.00	1.72	5.23
10	-4.09	0.0	19.8	0.00	1.71	4.90
11	-4.21	0.0	20.6	0.00	1.71	4.70
12	-4.21	0.0	21.1	0.00	1.71	4.59
13	-4.34	0.0	21.9	0.00	1.70	4.43
14	-4.46	0.0	22.9	0.00	1.70	4.25
15	-4.58	0.0	24.0	0.00	1.70	4.11
16	-4.71	0.0	25.1	0.00	1.69	3.98
17	-4.83	0.0	25.9	0.00	1.69	3.89
18	-4.83	0.0	26.2	0.00	1.69	3.86
19	-4.86	0.0	26.4	0.00	1.68	3.84
20	-4.90	0.0	26.7	0.00	1.68	3.81
21	-4.93	0.0	27.0	0.00	1.68	3.79
22	-4.97	0.0	27.3	0.00	1.68	3.76
23	-5.00	0.0	27.5	0.00	1.66	3.70
24	-5.00	0.0	61.6	0.00	1.66	8.11
25	-5.07	0.0	60.8	0.00	1.48	7.68
26	-5.13	0.0	61.2	0.00	1.45	7.31
27	-5.20	0.0	62.2	0.00	1.43	7.06
28	-5.26	0.0	63.6	0.00	1.41	6.87
29	-5.33	0.0	64.7	0.00	1.40	6.75
30	-5.33	0.0	65.7	0.00	1.40	6.67
31	-5.43	0.0	67.7	0.00	1.37	6.53
32	-5.53	0.0	70.4	0.00	1.35	6.38
33	-5.63	0.0	73.2	0.00	1.33	6.26

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	76.1	0.00	1.31	6.15
35	-5.83	0.0	78.3	0.00	1.29	6.08
36	-5.83	0.0	80.0	0.00	1.29	6.03
37	-5.96	0.0	83.0	0.00	1.27	5.96
38	-6.10	0.0	87.0	0.00	1.25	5.87
39	-6.23	0.0	91.0	0.00	1.24	5.79
40	-6.36	0.0	95.1	0.00	1.22	5.73
41	-6.50	0.0	98.1	0.00	1.21	5.68
42	-6.50	0.0	100.2	0.00	1.21	5.65
43	-6.63	0.0	103.2	0.00	1.19	5.62
44	-6.76	0.0	107.3	0.00	1.18	5.57
45	-6.90	0.0	111.4	0.00	1.17	5.52
46	-7.03	0.0	115.5	0.00	1.16	5.49
47	-7.16	0.0	118.6	0.00	1.15	5.46
48	-7.16	0.0	120.7	0.00	1.15	5.44
49	-7.30	0.0	123.8	0.00	1.14	5.42
50	-7.43	1.4	127.9	0.06	1.13	5.39
51	-7.56	4.5	132.0	0.18	1.12	5.36
52	-7.70	4.8	136.1	0.19	1.11	5.33
53	-7.83	5.0	139.2	0.19	1.10	5.32
54	-7.83	5.1	140.8	0.19	1.10	5.31
55	-7.90	5.2	142.6	0.19	1.09	5.30
56	-7.98	5.4	144.9	0.20	1.09	5.29
57	-8.05	5.5	147.2	0.20	1.09	5.27
58	-8.13	5.7	149.4	0.20	1.08	5.26
59	-8.20	5.8	151.2	0.20	1.07	5.22
60	-8.20	8.1	170.5	0.28	1.07	5.78
61	-8.34	8.4	176.2	0.28	1.01	5.77
62	-8.47	8.8	183.8	0.28	1.00	5.76
63	-8.61	9.2	191.5	0.28	0.98	5.75
64	-8.74	9.6	199.2	0.28	0.97	5.74
65	-8.88	9.9	205.0	0.28	0.96	5.74
66	-8.88	10.0	208.4	0.28	0.96	5.74
67	-8.98	10.3	212.7	0.28	0.95	5.73
68	-9.08	10.5	218.4	0.28	0.94	5.73
69	-9.18	10.8	224.1	0.28	0.94	5.73
70	-9.28	11.1	229.9	0.28	0.93	5.73
71	-9.38	11.3	234.2	0.28	0.92	5.72
72	-9.38	11.4	235.7	0.28	0.92	5.72
73	-9.38	11.4	235.8	0.28	0.92	5.72
74	-9.38	11.4	235.9	0.28	0.92	5.72
75	-9.39	11.4	236.0	0.28	0.92	5.72
76	-9.39	11.4	236.1	0.28	0.92	5.72
77	-9.39	11.4	236.2	0.28	0.92	5.72
78	-9.39	11.4	236.5	0.28	0.92	5.72
79	-9.41	11.5	237.5	0.28	0.92	5.72
80	-9.43	11.6	238.7	0.28	0.92	5.72
81	-9.46	11.6	240.0	0.28	0.92	5.72
82	-9.48	11.7	241.3	0.28	0.91	5.72
83	-9.50	11.7	242.2	0.28	0.91	5.72
84	-9.50	11.8	243.4	0.28	0.91	5.72
85	-9.56	11.9	245.9	0.28	0.91	5.72
86	-9.62	12.1	249.2	0.28	0.91	5.72
87	-9.67	12.2	252.6	0.28	0.90	5.72
88	-9.73	12.4	255.9	0.28	0.90	5.72
89	-9.79	12.5	258.4	0.28	0.89	5.72
90	-9.79	12.6	259.5	0.28	0.89	5.72
91	-9.81	12.6	260.3	0.28	0.89	5.72
92	-9.83	12.7	261.4	0.28	0.89	5.72
93	-9.84	12.7	262.4	0.28	0.89	5.72
94	-9.86	12.8	263.4	0.28	0.89	5.72
95	-9.88	12.8	264.2	0.28	0.89	5.72
96	-9.88	12.8	264.5	0.28	0.89	5.72
97	-9.88	12.8	264.6	0.28	0.89	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	12.8	264.7	0.28	0.89	5.72
99	-9.89	12.8	264.8	0.28	0.89	5.72
100	-9.89	12.8	264.9	0.28	0.89	5.72
101	-9.89	12.8	265.0	0.28	0.89	5.72
102	-9.89	12.9	266.2	0.28	0.89	5.72
103	-9.97	13.1	269.7	0.28	0.88	5.72
104	-10.05	13.3	274.3	0.28	0.88	5.72
105	-10.13	13.5	279.0	0.28	0.87	5.71
106	-10.21	13.8	283.6	0.28	0.87	5.71
107	-10.29	13.9	287.1	0.28	0.87	5.71
108	-10.29	14.0	288.5	0.28	0.87	5.71
109	-10.31	14.0	289.3	0.28	0.87	5.71
110	-10.33	14.1	290.3	0.28	0.86	5.71
111	-10.34	14.1	291.4	0.28	0.86	5.71
112	-10.36	14.2	292.4	0.28	0.86	5.71
113	-10.38	14.2	293.2	0.28	0.86	5.71
114	-10.38	14.2	293.5	0.28	0.86	5.71
115	-10.38	14.3	293.6	0.28	0.86	5.71
116	-10.38	14.3	293.7	0.28	0.86	5.71
117	-10.39	14.3	293.8	0.28	0.86	5.71
118	-10.39	14.3	293.9	0.28	0.86	5.71
119	-10.39	14.3	294.0	0.28	0.86	5.71
120	-10.39	14.3	295.2	0.28	0.86	5.71
121	-10.47	14.5	298.8	0.28	0.86	5.71
122	-10.55	14.7	303.6	0.28	0.85	5.71
123	-10.64	15.0	308.3	0.28	0.85	5.71
124	-10.72	15.2	313.1	0.28	0.84	5.71
125	-10.80	15.4	316.7	0.28	0.85	5.73
126	-10.80	14.7	258.5	0.27	0.85	4.67
127	-10.81	14.7	258.7	0.27	0.90	4.67
128	-10.81	14.7	258.8	0.27	0.90	4.67
129	-10.82	14.8	259.0	0.27	0.90	4.67
130	-10.82	14.8	259.2	0.27	0.90	4.67
131	-10.83	14.8	259.3	0.27	0.90	4.67
132	-10.83	14.8	260.0	0.27	0.90	4.67
133	-10.92	15.0	262.0	0.27	0.90	4.66
134	-11.01	15.2	264.6	0.27	0.89	4.66
135	-11.11	15.4	267.3	0.27	0.89	4.65
136	-11.20	15.6	269.9	0.27	0.89	4.65
137	-11.29	15.7	271.9	0.27	0.89	4.65
138	-11.29	15.8	272.7	0.27	0.89	4.65
139	-11.31	15.8	273.1	0.27	0.89	4.65
140	-11.33	15.9	273.6	0.27	0.89	4.65
141	-11.34	15.9	274.1	0.27	0.89	4.64
142	-11.36	15.9	274.6	0.27	0.89	4.64
143	-11.38	16.0	275.0	0.27	0.88	4.64
144	-11.38	16.0	275.2	0.27	0.88	4.64
145	-11.38	16.0	275.2	0.27	0.88	4.64
146	-11.38	16.0	275.3	0.27	0.88	4.64
147	-11.39	16.0	275.3	0.27	0.88	4.64
148	-11.39	16.0	275.4	0.27	0.88	4.64
149	-11.39	16.0	275.4	0.27	0.88	4.64
150	-11.39	16.0	275.6	0.27	0.88	4.64
151	-11.41	16.1	276.1	0.27	0.88	4.64
152	-11.43	16.1	276.7	0.27	0.88	4.64
153	-11.46	16.1	277.3	0.27	0.88	4.64
154	-11.48	16.2	278.0	0.27	0.88	4.64
155	-11.50	16.2	278.4	0.27	0.88	4.64
156	-11.50	16.3	279.2	0.27	0.88	4.64
157	-11.58	16.4	280.9	0.27	0.88	4.64
158	-11.66	16.6	283.1	0.27	0.88	4.63
159	-11.73	16.8	285.3	0.27	0.88	4.63
160	-11.81	16.9	287.6	0.27	0.87	4.63
161	-11.89	17.0	289.3	0.27	0.87	4.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	17.1	290.4	0.27	0.87	4.62
163	-11.97	17.3	292.1	0.27	0.87	4.62
164	-12.05	17.4	294.5	0.27	0.87	4.62
165	-12.13	17.6	296.8	0.27	0.87	4.62
166	-12.21	17.8	299.1	0.27	0.86	4.61
167	-12.29	17.9	300.8	0.27	0.86	4.61
168	-12.29	18.0	301.5	0.27	0.86	4.61
169	-12.31	18.0	301.9	0.27	0.86	4.61
170	-12.33	18.0	302.4	0.28	0.86	4.61
171	-12.34	18.1	302.9	0.28	0.86	4.61
172	-12.36	18.1	303.5	0.28	0.86	4.61
173	-12.38	18.1	303.8	0.28	0.86	4.61
174	-12.38	18.2	304.0	0.28	0.86	4.61
175	-12.38	18.2	304.0	0.28	0.86	4.61
176	-12.38	18.2	304.1	0.28	0.86	4.61
177	-12.39	18.2	304.2	0.28	0.86	4.61
178	-12.39	18.2	304.2	0.28	0.86	4.61
179	-12.39	18.2	304.3	0.28	0.86	4.61
180	-12.39	18.2	304.4	0.28	0.86	4.61
181	-12.41	18.2	304.9	0.28	0.86	4.61
182	-12.43	18.3	305.5	0.28	0.86	4.61
183	-12.46	18.3	306.2	0.28	0.86	4.61
184	-12.48	18.4	306.8	0.28	0.86	4.61
185	-12.50	18.4	307.3	0.28	0.86	4.61
186	-12.50	18.4	307.9	0.28	0.86	4.61
187	-12.56	18.5	309.1	0.28	0.86	4.60
188	-12.62	18.7	310.8	0.28	0.86	4.60
189	-12.67	18.8	312.5	0.28	0.85	4.60
190	-12.73	18.9	314.1	0.28	0.85	4.60
191	-12.79	19.0	315.4	0.28	0.85	4.60
192	-12.79	19.1	316.4	0.28	0.85	4.60
193	-12.87	19.2	318.2	0.28	0.85	4.60
194	-12.95	19.4	320.6	0.28	0.85	4.59
195	-13.04	19.6	322.9	0.28	0.85	4.59
196	-13.12	19.8	325.3	0.28	0.84	4.59
197	-13.20	19.9	327.1	0.28	0.84	4.57
198	-13.20	19.9	411.9	0.28	0.84	5.74
199	-13.23	20.0	413.0	0.28	0.79	5.74
200	-13.25	20.1	414.5	0.28	0.78	5.74
201	-13.28	20.2	416.0	0.28	0.78	5.74
202	-13.30	20.2	417.5	0.28	0.78	5.74
203	-13.33	20.3	418.6	0.28	0.78	5.74
204	-13.33	20.4	421.1	0.28	0.78	5.74
205	-13.48	20.7	427.4	0.28	0.78	5.73
206	-13.62	21.1	435.8	0.28	0.77	5.73
207	-13.77	21.5	444.3	0.28	0.77	5.73
208	-13.91	22.0	452.7	0.28	0.76	5.73
209	-14.06	22.3	459.1	0.28	0.76	5.73
210	-14.06	22.5	463.3	0.28	0.76	5.73
211	-14.21	22.8	469.6	0.28	0.75	5.73
212	-14.35	23.2	478.1	0.28	0.75	5.73
213	-14.50	23.6	486.5	0.28	0.75	5.73
214	-14.64	24.0	495.0	0.28	0.74	5.73
215	-14.79	24.4	501.4	0.28	0.74	5.73
216	-14.79	24.5	503.7	0.28	0.74	5.73
217	-14.81	24.5	504.5	0.28	0.74	5.73
218	-14.83	24.6	505.6	0.28	0.74	5.73
219	-14.84	24.6	506.6	0.28	0.74	5.73
220	-14.86	24.7	507.7	0.28	0.74	5.73
221	-14.88	24.7	508.4	0.28	0.74	5.73
222	-14.88	24.7	509.1	0.28	0.74	5.73
223	-14.90	24.8	510.1	0.28	0.74	5.73
224	-14.93	24.8	511.5	0.28	0.73	5.73
225	-14.95	24.9	512.9	0.28	0.73	5.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	25.0	514.3	0.28	0.73	5.73
227	-15.00	25.0	515.3	0.28	0.73	5.73
228	-15.00	25.1	516.8	0.28	0.73	5.73
229	-15.08	25.3	520.2	0.28	0.73	5.73
230	-15.16	25.5	524.7	0.28	0.73	5.73
231	-15.23	25.7	529.3	0.28	0.73	5.73
232	-15.31	25.9	533.8	0.28	0.73	5.72
233	-15.39	26.1	537.2	0.28	0.72	5.72
234	-15.39	26.2	538.7	0.28	0.72	5.72
235	-15.41	26.2	539.6	0.28	0.72	5.72
236	-15.43	26.3	540.9	0.28	0.72	5.72
237	-15.46	26.4	542.2	0.28	0.72	5.72
238	-15.48	26.4	543.5	0.28	0.72	5.72
239	-15.50	26.5	544.4	0.28	0.72	5.72
240	-15.50	26.5	545.6	0.28	0.72	5.72
241	-15.56	26.6	548.1	0.28	0.72	5.72
242	-15.62	26.8	551.5	0.28	0.72	5.72
243	-15.67	27.0	554.9	0.28	0.72	5.72
244	-15.73	27.1	558.2	0.28	0.72	5.72
245	-15.79	27.3	560.8	0.28	0.71	5.72
246	-15.79	27.3	561.7	0.28	0.71	5.72
247	-15.80	27.3	562.1	0.28	0.71	5.72
248	-15.81	27.3	562.5	0.28	0.71	5.72
249	-15.81	27.4	563.0	0.28	0.71	5.72
250	-15.82	27.4	563.5	0.28	0.71	5.72
251	-15.83	27.4	563.8	0.28	0.71	5.72
252	-15.83	27.4	564.1	0.28	0.71	5.72
253	-15.84	27.5	564.6	0.28	0.71	5.72
254	-15.85	27.5	565.3	0.28	0.71	5.72
255	-15.87	27.5	566.0	0.28	0.71	5.72
256	-15.88	27.6	566.7	0.28	0.71	5.72
257	-15.89	27.6	567.2	0.28	0.71	5.72
258	-15.89	27.6	567.7	0.28	0.71	5.72
259	-15.91	27.7	568.7	0.28	0.71	5.72
260	-15.93	27.7	570.0	0.28	0.71	5.72
261	-15.96	27.8	571.3	0.28	0.71	5.72
262	-15.98	27.8	572.5	0.28	0.71	5.72
263	-16.00	27.9	573.5	0.28	0.71	5.73
264	-16.00	32.2	361.6	0.32	0.71	3.61
265	-16.02	32.3	361.9	0.32	0.83	3.61
266	-16.04	32.3	362.4	0.32	0.83	3.61
267	-16.06	32.4	362.9	0.32	0.83	3.61
268	-16.08	32.5	363.3	0.32	0.83	3.61
269	-16.10	32.5	363.7	0.32	0.32	3.61

11.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	32.94
3 Klei/zand (NZ)	155.72
4 Zand (NZ)	113.11
5 Klei (NZ)	130.46
6 zandlaag 1 (NZ)	186.50
7 klei (NZ)	7.86
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (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	0.90
3.00	0.90
3.01	1.90
8.50	1.90

11.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

11.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	6.0	0.28	0.74	5.74
2	0.78	0.6	12.0	0.28	0.74	5.74
3	0.72	0.9	18.1	0.28	0.74	5.73
4	0.66	1.2	24.1	0.28	0.74	5.73
5	0.60	1.4	28.6	0.28	0.74	5.73
6	0.60	1.5	31.1	0.28	0.74	5.73
7	0.56	1.7	34.1	0.28	0.73	5.73
8	0.52	1.9	38.2	0.28	0.73	5.72
9	0.48	2.1	42.2	0.28	0.72	5.72
10	0.44	2.2	46.2	0.28	0.72	5.72
11	0.40	2.4	49.2	0.28	0.72	5.72
12	0.40	2.5	51.2	0.28	0.72	5.71
13	0.36	2.6	54.2	0.28	0.72	5.71
14	0.32	2.8	58.2	0.28	0.71	5.71
15	0.28	3.0	62.2	0.28	0.71	5.70
16	0.24	3.2	66.3	0.28	0.71	5.70
17	0.20	3.4	69.3	0.28	0.71	5.70
18	0.20	3.4	70.4	0.28	0.71	5.70
19	0.19	3.5	70.9	0.28	0.71	5.70
20	0.19	3.5	71.5	0.28	0.71	5.69
21	0.18	3.5	72.1	0.28	0.71	5.69
22	0.18	3.5	72.7	0.28	0.71	5.69
23	0.17	3.6	73.1	0.28	0.70	5.69
24	0.17	3.7	75.1	0.28	0.70	5.69
25	0.10	3.9	80.7	0.28	0.70	5.68
26	0.02	4.3	88.2	0.28	0.71	5.67
27	-0.05	4.7	95.6	0.28	0.71	5.67
28	-0.13	5.0	106.3	0.28	0.70	5.84
29	-0.20	5.3	116.8	0.28	0.70	6.08
30	-0.20	5.4	122.0	0.27	0.70	6.20
31	-0.23	5.5	126.3	0.27	0.70	6.30
32	-0.25	5.6	132.1	0.27	0.70	6.44
33	-0.28	5.8	138.5	0.27	0.70	6.60
34	-0.30	5.9	145.1	0.27	0.70	6.76
35	-0.33	6.0	150.3	0.27	0.69	6.89
36	-0.33	6.0	153.0	0.27	0.69	6.95
37	-0.34	6.1	156.2	0.27	0.69	7.03
38	-0.36	6.2	160.2	0.27	0.69	7.13

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	6.2	164.5	0.27	0.69	7.24
40	-0.39	6.3	168.9	0.27	0.69	7.35
41	-0.40	6.3	172.1	0.27	0.68	7.42
42	-0.40	6.4	176.3	0.27	0.68	7.55
43	-0.44	6.5	185.4	0.27	0.69	7.84
44	-0.48	6.6	198.7	0.27	0.69	8.25
45	-0.52	6.7	213.8	0.27	0.69	8.72
46	-0.56	6.8	230.4	0.27	0.69	9.23
47	-0.60	6.9	244.4	0.27	0.69	9.67
48	-0.60	7.0	268.8	0.27	0.69	10.42
49	-0.75	7.3	344.3	0.27	0.69	12.76
50	-0.89	7.7	502.1	0.27	0.69	17.55
51	-1.04	8.1	394.3	0.27	0.68	13.04
52	-1.18	8.5	284.9	0.27	0.68	8.93
53	-1.33	8.8	289.3	0.26	0.68	8.73
54	-1.33	8.9	291.5	0.26	0.68	8.65
55	-1.38	9.0	293.3	0.26	0.67	8.58
56	-1.44	9.2	295.7	0.26	0.67	8.50
57	-1.49	9.3	298.2	0.26	0.67	8.43
58	-1.55	9.5	300.8	0.26	0.67	8.35
59	-1.60	9.6	302.8	0.26	0.66	8.30
60	-1.60	9.6	304.0	0.26	0.66	8.27
61	-1.65	9.7	305.7	0.26	0.66	8.23
62	-1.69	9.9	307.9	0.26	0.66	8.17
63	-1.74	10.0	310.2	0.26	0.66	8.12
64	-1.78	10.1	312.6	0.26	0.65	8.07
65	-1.83	10.2	314.3	0.26	0.65	8.03
66	-1.83	10.3	315.3	0.26	0.65	8.01
67	-1.86	10.3	316.6	0.26	0.65	7.98
68	-1.90	10.4	318.4	0.26	0.65	7.95
69	-1.93	10.5	320.1	0.26	0.65	7.91
70	-1.97	10.6	321.9	0.26	0.65	7.88
71	-2.00	10.7	323.2	0.26	0.65	7.88
72	-2.00	14.1	206.8	0.34	0.65	5.03
73	-2.03	14.1	207.0	0.34	0.82	5.02
74	-2.06	14.2	207.3	0.34	0.82	5.01
75	-2.09	14.2	207.5	0.34	0.82	5.00
76	-2.12	14.3	207.8	0.34	0.82	4.98
77	-2.15	19.8	208.0	0.47	0.82	4.97
78	-2.15	18.8	208.1	0.45	0.82	4.97
79	-2.16	18.8	208.2	0.45	0.82	4.96
80	-2.17	18.8	208.2	0.45	0.82	4.96
81	-2.18	18.8	208.3	0.45	0.82	4.96
82	-2.19	18.7	208.4	0.44	0.82	4.95
83	-2.20	18.7	208.5	0.44	0.82	4.95
84	-2.20	18.7	208.6	0.44	0.82	4.94
85	-2.23	18.8	208.7	0.44	0.82	4.94
86	-2.25	18.8	209.0	0.44	0.82	4.92
87	-2.28	18.9	209.2	0.44	0.82	4.91
88	-2.30	18.9	209.4	0.44	0.81	4.90
89	-2.33	19.0	209.6	0.44	0.81	4.89
90	-2.33	19.0	209.8	0.44	0.81	4.89
91	-2.38	19.1	210.2	0.44	0.81	4.87
92	-2.44	19.2	210.6	0.44	0.81	4.85
93	-2.49	19.3	211.1	0.44	0.81	4.82
94	-2.55	19.5	211.6	0.44	0.81	4.80
95	-2.60	19.5	212.0	0.44	0.81	4.79
96	-2.60	19.6	212.3	0.44	0.81	4.77
97	-2.68	19.7	212.8	0.44	0.80	4.75
98	-2.76	19.9	213.5	0.44	0.80	4.72
99	-2.84	20.1	214.2	0.44	0.80	4.69
100	-2.92	20.2	214.9	0.44	0.79	4.66
101	-3.00	20.3	215.5	0.44	0.79	4.64
102	-3.00	20.4	215.9	0.44	0.79	4.62

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	20.6	177.7	0.44	0.79	3.76
104	-3.24	20.9	160.7	0.44	0.78	3.36
105	-3.36	21.1	161.6	0.44	0.78	3.33
106	-3.48	21.3	162.5	0.43	0.78	3.31
107	-3.60	21.5	163.1	0.43	0.77	3.29
108	-3.60	21.6	163.6	0.43	0.77	3.28
109	-3.72	21.8	164.3	0.43	0.77	3.26
110	-3.85	22.0	165.2	0.43	0.76	3.24
111	-3.97	22.3	166.1	0.43	0.76	3.21
112	-4.09	22.5	167.1	0.43	0.76	3.19
113	-4.21	22.7	167.8	0.43	0.75	3.18
114	-4.21	22.8	168.2	0.43	0.75	3.17
115	-4.34	23.0	169.0	0.43	0.75	3.15
116	-4.46	23.2	169.9	0.43	0.75	3.14
117	-4.58	23.4	170.8	0.43	0.74	3.12
118	-4.71	23.6	171.8	0.43	0.74	3.10
119	-4.83	23.8	172.5	0.43	0.74	3.09
120	-4.83	23.9	172.8	0.43	0.74	3.08
121	-4.86	23.9	173.0	0.43	0.74	3.08
122	-4.90	24.0	173.3	0.43	0.74	3.07
123	-4.93	24.1	173.5	0.43	0.74	3.07
124	-4.97	24.1	173.8	0.43	0.74	3.07
125	-5.00	24.2	174.0	0.42	0.74	3.06
126	-5.00	16.4	290.1	0.29	0.74	5.08
127	-5.07	16.5	291.6	0.29	0.60	5.07
128	-5.13	16.6	293.7	0.29	0.60	5.06
129	-5.20	16.8	295.7	0.29	0.60	5.05
130	-5.26	17.0	297.8	0.29	0.60	5.04
131	-5.33	17.1	299.3	0.29	0.60	5.04
132	-5.33	17.2	300.6	0.29	0.60	5.03
133	-5.43	19.1	302.9	0.32	0.59	5.02
134	-5.53	20.7	306.1	0.34	0.59	5.01
135	-5.63	21.0	309.2	0.34	0.59	4.99
136	-5.73	21.2	312.3	0.34	0.59	4.98
137	-5.83	21.4	314.6	0.34	0.59	4.97
138	-5.83	21.5	316.4	0.34	0.59	4.97
139	-5.96	21.7	319.5	0.34	0.58	4.96
140	-6.10	22.1	327.6	0.34	0.58	5.00
141	-6.23	22.4	367.1	0.34	0.58	5.52
142	-6.36	22.7	371.3	0.34	0.58	5.50
143	-6.50	22.9	374.3	0.34	0.58	5.48
144	-6.50	23.0	376.4	0.33	0.58	5.47
145	-6.63	23.3	379.5	0.33	0.57	5.46
146	-6.76	23.6	383.6	0.33	0.57	5.44
147	-6.90	23.9	387.7	0.33	0.57	5.42
148	-7.03	24.2	391.9	0.33	0.57	5.40
149	-7.16	24.4	394.9	0.33	0.57	5.39
150	-7.16	24.5	397.0	0.33	0.57	5.38
151	-7.30	24.7	400.1	0.33	0.56	5.37
152	-7.43	25.0	404.2	0.33	0.56	5.35
153	-7.56	25.3	408.4	0.33	0.56	5.33
154	-7.70	25.6	412.5	0.33	0.56	5.32
155	-7.83	25.9	415.6	0.33	0.56	5.31
156	-7.83	26.0	417.2	0.33	0.56	5.30
157	-7.90	26.1	418.9	0.33	0.56	5.30
158	-7.98	26.2	421.2	0.33	0.56	5.29
159	-8.05	26.4	423.5	0.33	0.56	5.28
160	-8.13	26.6	425.8	0.33	0.56	5.28
161	-8.20	26.7	427.5	0.33	0.55	5.26
162	-8.20	27.6	495.6	0.34	0.55	6.05
163	-8.34	27.9	501.4	0.34	0.52	6.04
164	-8.47	28.2	509.0	0.33	0.52	6.03
165	-8.61	28.6	516.7	0.33	0.52	6.01
166	-8.74	27.2	524.4	0.31	0.52	6.00

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	26.5	530.2	0.30	0.52	5.99
168	-8.88	26.8	533.6	0.30	0.52	5.99
169	-8.98	27.0	537.9	0.30	0.51	5.98
170	-9.08	27.3	543.6	0.30	0.51	5.97
171	-9.18	27.6	549.3	0.30	0.51	5.96
172	-9.28	27.9	559.0	0.30	0.51	6.00
173	-9.38	28.1	579.9	0.30	0.51	6.17
174	-9.38	28.2	581.4	0.30	0.51	6.17
175	-9.38	28.2	581.4	0.30	0.51	6.17
176	-9.38	28.2	581.6	0.30	0.51	6.17
177	-9.39	28.2	581.7	0.30	0.51	6.17
178	-9.39	28.2	581.8	0.30	0.51	6.17
179	-9.39	28.2	581.9	0.30	0.51	6.17
180	-9.39	28.2	582.2	0.30	0.51	6.17
181	-9.41	28.3	583.1	0.30	0.51	6.17
182	-9.43	28.4	584.4	0.30	0.51	6.16
183	-9.46	28.4	585.6	0.30	0.51	6.16
184	-9.48	28.5	586.8	0.30	0.51	6.16
185	-9.50	28.5	587.8	0.30	0.51	6.16
186	-9.50	28.6	588.9	0.30	0.51	6.16
187	-9.56	28.7	591.4	0.30	0.51	6.15
188	-9.62	28.9	594.6	0.30	0.51	6.15
189	-9.67	29.1	597.9	0.30	0.51	6.14
190	-9.73	29.2	601.2	0.30	0.51	6.13
191	-9.79	29.3	603.6	0.30	0.51	6.13
192	-9.79	29.4	604.7	0.30	0.51	6.13
193	-9.81	29.4	605.5	0.30	0.51	6.13
194	-9.83	29.5	606.5	0.30	0.51	6.13
195	-9.84	29.5	607.5	0.30	0.51	6.12
196	-9.86	29.6	608.5	0.30	0.51	6.12
197	-9.88	29.6	609.3	0.30	0.51	6.12
198	-9.88	29.7	609.6	0.30	0.51	6.12
199	-9.88	29.7	609.7	0.30	0.51	6.12
200	-9.88	29.7	609.8	0.30	0.51	6.12
201	-9.89	29.7	609.9	0.30	0.51	6.12
202	-9.89	29.7	610.0	0.30	0.51	6.12
203	-9.89	29.7	610.1	0.30	0.51	6.12
204	-9.89	29.7	611.3	0.30	0.51	6.12
205	-9.97	29.9	614.7	0.30	0.51	6.11
206	-10.05	30.1	619.2	0.30	0.51	6.11
207	-10.13	30.4	623.8	0.30	0.51	6.10
208	-10.21	30.6	628.3	0.30	0.51	6.09
209	-10.29	30.8	631.7	0.30	0.51	6.09
210	-10.29	30.9	633.1	0.30	0.51	6.09
211	-10.31	30.9	633.9	0.30	0.51	6.09
212	-10.33	30.9	634.9	0.30	0.51	6.09
213	-10.34	31.0	635.9	0.30	0.51	6.08
214	-10.36	31.1	637.0	0.30	0.51	6.08
215	-10.38	31.1	637.7	0.30	0.51	6.08
216	-10.38	31.1	638.0	0.30	0.51	6.08
217	-10.38	31.1	638.1	0.30	0.51	6.08
218	-10.38	31.1	638.2	0.30	0.51	6.08
219	-10.39	31.1	638.3	0.30	0.51	6.08
220	-10.39	31.1	638.5	0.30	0.51	6.08
221	-10.39	31.1	638.5	0.30	0.51	6.08
222	-10.39	31.2	639.7	0.30	0.51	6.08
223	-10.47	31.4	643.2	0.30	0.51	6.07
224	-10.55	31.6	647.9	0.30	0.51	6.07
225	-10.64	31.8	652.6	0.30	0.51	6.06
226	-10.72	32.1	657.3	0.30	0.51	6.06
227	-10.80	32.3	660.8	0.30	0.51	6.07
228	-10.80	33.7	541.3	0.31	0.51	4.96
229	-10.81	33.7	541.4	0.31	0.55	4.96
230	-10.81	33.7	541.6	0.31	0.55	4.96

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	33.7	541.8	0.31	0.55	4.96
232	-10.82	33.8	542.0	0.31	0.55	4.96
233	-10.83	33.8	542.1	0.31	0.55	4.96
234	-10.83	33.8	542.8	0.31	0.55	4.96
235	-10.92	34.0	544.8	0.31	0.55	4.95
236	-11.01	34.2	547.5	0.31	0.55	4.95
237	-11.11	34.4	550.2	0.31	0.55	4.94
238	-11.20	34.6	552.8	0.31	0.55	4.94
239	-11.29	34.7	554.9	0.31	0.55	4.94
240	-11.29	34.8	555.7	0.31	0.55	4.93
241	-11.31	34.8	556.0	0.31	0.55	4.93
242	-11.33	34.9	556.6	0.31	0.55	4.93
243	-11.34	34.9	557.1	0.31	0.55	4.93
244	-11.36	34.9	557.6	0.31	0.55	4.93
245	-11.38	35.0	558.0	0.31	0.55	4.93
246	-11.38	35.0	558.2	0.31	0.55	4.93
247	-11.38	35.0	558.2	0.31	0.55	4.93
248	-11.38	35.0	558.3	0.31	0.55	4.93
249	-11.39	35.0	558.3	0.31	0.55	4.93
250	-11.39	35.0	558.4	0.31	0.55	4.93
251	-11.39	35.0	558.4	0.31	0.55	4.93
252	-11.39	35.0	558.6	0.31	0.55	4.93
253	-11.41	35.1	559.1	0.31	0.55	4.93
254	-11.43	35.1	559.7	0.31	0.55	4.93
255	-11.46	35.1	560.3	0.31	0.55	4.93
256	-11.48	35.2	561.0	0.31	0.55	4.92
257	-11.50	35.2	561.5	0.31	0.55	4.92
258	-11.50	35.3	562.2	0.31	0.55	4.92
259	-11.58	35.4	563.9	0.31	0.55	4.92
260	-11.66	35.6	566.2	0.31	0.55	4.92
261	-11.73	35.8	568.4	0.31	0.55	4.91
262	-11.81	35.9	570.7	0.31	0.55	4.91
263	-11.89	36.1	564.5	0.31	0.55	4.84
264	-11.89	36.1	548.8	0.31	0.55	4.69
265	-11.97	36.3	550.6	0.31	0.55	4.69
266	-12.05	36.4	552.9	0.31	0.55	4.69
267	-12.13	36.6	555.2	0.31	0.55	4.68
268	-12.21	36.4	557.5	0.31	0.55	4.68
269	-12.29	36.4	559.2	0.30	0.30	4.68
270	-12.29	36.4	560.0	0.30	0.56	4.68
271	-12.31	36.4	560.3	0.30	0.56	4.68
272	-12.33	36.5	560.9	0.30	0.56	4.68
273	-12.34	36.5	561.4	0.30	0.56	4.68
274	-12.36	36.6	561.9	0.30	0.56	4.68
275	-12.38	36.6	562.3	0.30	0.56	4.68
276	-12.38	36.6	562.4	0.30	0.56	4.68
277	-12.38	36.6	562.5	0.30	0.56	4.68
278	-12.38	36.6	562.5	0.30	0.56	4.68
279	-12.39	36.6	562.6	0.30	0.56	4.68
280	-12.39	36.6	562.7	0.30	0.56	4.68
281	-12.39	36.6	562.7	0.30	0.56	4.68
282	-12.39	36.6	562.9	0.30	0.56	4.68
283	-12.41	36.7	563.4	0.30	0.56	4.67
284	-12.43	36.7	564.0	0.30	0.56	4.67
285	-12.46	36.8	564.6	0.30	0.56	4.67
286	-12.48	36.8	565.3	0.30	0.56	4.67
287	-12.50	36.8	565.7	0.30	0.56	4.67
288	-12.50	36.9	566.3	0.30	0.56	4.67
289	-12.56	37.0	567.6	0.30	0.56	4.67
290	-12.62	37.1	569.3	0.30	0.56	4.67
291	-12.67	37.2	570.9	0.30	0.56	4.67
292	-12.73	37.4	572.6	0.30	0.56	4.66
293	-12.79	37.5	573.9	0.30	0.56	4.66
294	-12.79	37.5	574.9	0.30	0.56	4.66

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	37.7	576.7	0.30	0.56	4.66
296	-12.95	37.8	579.1	0.30	0.56	4.66
297	-13.04	38.0	581.4	0.30	0.56	4.66
298	-13.12	38.2	583.8	0.30	0.56	4.65
299	-13.20	38.3	585.6	0.30	0.56	4.64
300	-13.20	36.3	730.6	0.29	0.56	5.78
301	-13.23	36.4	731.7	0.29	0.51	5.78
302	-13.25	36.4	733.2	0.29	0.51	5.78
303	-13.28	36.5	734.7	0.29	0.51	5.78
304	-13.30	42.5	736.2	0.33	0.51	5.78
305	-13.33	24.8	737.3	0.19	0.51	5.78
306	-13.33	39.1	739.8	0.31	0.51	5.78
307	-13.48	35.9	746.1	0.28	0.51	5.77
308	-13.62	38.1	754.6	0.29	0.51	5.77
309	-13.77	37.4	763.0	0.28	0.51	5.77
310	-13.91	38.4	771.5	0.29	0.51	5.77
311	-14.06	38.7	777.8	0.29	0.51	5.76
312	-14.06	38.9	782.0	0.29	0.51	5.76
313	-14.21	39.2	789.8	0.29	0.51	5.77
314	-14.35	39.6	821.8	0.29	0.51	5.94
315	-14.50	40.0	830.2	0.29	0.51	5.93
316	-14.64	40.5	838.6	0.29	0.50	5.93
317	-14.79	40.8	844.9	0.29	0.50	5.93
318	-14.79	40.9	847.3	0.29	0.50	5.93
319	-14.81	40.9	848.0	0.29	0.50	5.92
320	-14.83	41.0	849.1	0.29	0.50	5.92
321	-14.84	41.0	850.1	0.29	0.50	5.92
322	-14.86	41.1	851.2	0.29	0.50	5.92
323	-14.88	41.1	851.9	0.29	0.50	5.92
324	-14.88	42.3	852.5	0.29	0.50	5.92
325	-14.90	41.6	853.6	0.29	0.50	5.92
326	-14.93	42.1	855.0	0.29	0.50	5.92
327	-14.95	42.1	856.3	0.29	0.50	5.92
328	-14.98	42.2	857.7	0.29	0.50	5.92
329	-15.00	42.2	858.8	0.29	0.50	5.92
330	-15.00	42.3	860.2	0.29	0.50	5.92
331	-15.08	42.5	863.6	0.29	0.50	5.92
332	-15.16	42.7	868.1	0.29	0.50	5.91
333	-15.23	42.9	872.6	0.29	0.50	5.91
334	-15.31	43.2	877.1	0.29	0.50	5.91
335	-15.39	43.3	880.5	0.29	0.50	5.91
336	-15.39	43.4	881.9	0.29	0.50	5.91
337	-15.41	43.4	882.9	0.29	0.50	5.91
338	-15.43	43.5	884.2	0.29	0.50	5.91
339	-15.46	43.6	885.4	0.29	0.50	5.91
340	-15.48	43.6	886.7	0.29	0.50	5.91
341	-15.50	43.7	887.6	0.29	0.50	5.91
342	-15.50	43.7	888.8	0.29	0.50	5.91
343	-15.56	43.9	891.3	0.29	0.50	5.90
344	-15.62	44.0	894.7	0.29	0.50	5.90
345	-15.67	44.2	898.0	0.29	0.50	5.90
346	-15.73	44.4	901.4	0.29	0.50	5.90
347	-15.79	44.5	903.9	0.29	0.50	5.90
348	-15.79	44.5	904.8	0.29	0.50	5.90
349	-15.80	44.6	905.2	0.29	0.50	5.90
350	-15.81	44.6	905.7	0.29	0.50	5.90
351	-15.81	44.6	906.1	0.29	0.50	5.90
352	-15.82	44.6	906.6	0.29	0.50	5.90
353	-15.83	44.6	906.9	0.29	0.50	5.90
354	-15.83	44.7	907.2	0.29	0.50	5.90
355	-15.84	44.7	907.7	0.29	0.50	5.90
356	-15.85	44.7	908.4	0.29	0.50	5.90
357	-15.87	44.7	909.1	0.29	0.50	5.90
358	-15.88	44.8	909.8	0.29	0.50	5.90

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	44.8	910.3	0.29	0.50	5.90
360	-15.89	44.8	910.8	0.29	0.50	5.90
361	-15.91	44.9	911.8	0.29	0.50	5.90
362	-15.93	44.9	913.1	0.29	0.50	5.90
363	-15.96	45.0	914.3	0.29	0.50	5.90
364	-15.98	45.1	915.6	0.29	0.50	5.89
365	-16.00	45.1	916.6	0.29	0.50	5.90
366	-16.00	54.2	601.6	0.35	0.50	3.87
367	-16.02	54.2	602.0	0.35	0.61	3.87
368	-16.04	54.3	602.5	0.35	0.61	3.87
369	-16.06	54.3	602.9	0.35	0.61	3.87
370	-16.08	54.4	603.4	0.35	0.61	3.87
371	-16.10	54.4	603.8	0.35	0.61	3.87

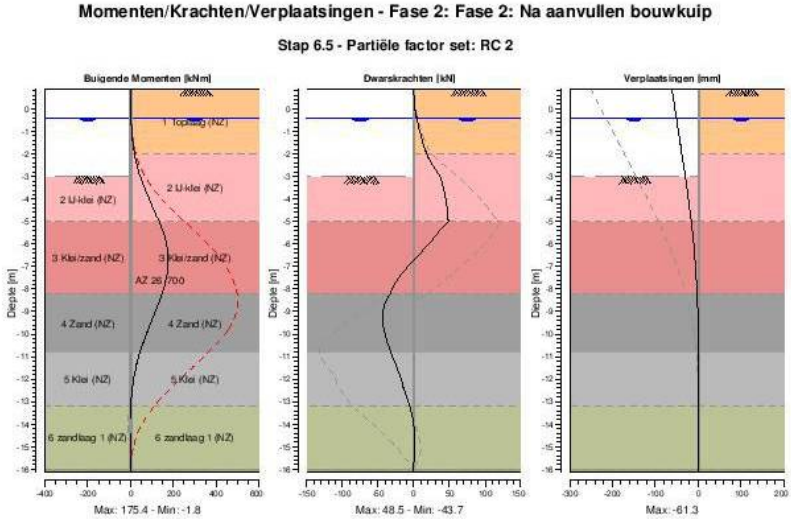
11.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	63.69
3 Klei/zand (NZ)	74.65
4 Zand (NZ)	113.70
5 Klei (NZ)	157.01
6 zandlaag 1 (NZ)	190.74
7 klei (NZ)	9.12
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

11.7 Berekeningsresultaten

Aantal iteraties: 6

11.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



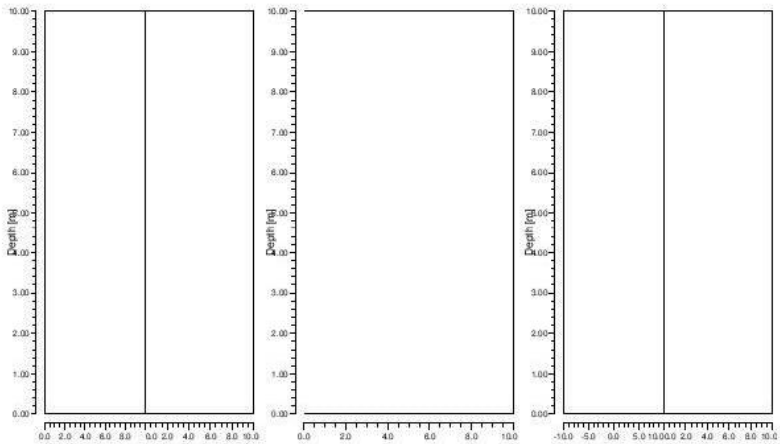
11.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-61.3**
1	0.60	0.02	0.22	-58.8
2	0.60	0.02	0.22	-58.8
2	0.40	0.10	0.61	-57.2
3	0.40	0.10	0.61	-57.2
3	0.20	0.28	1.20	-55.6
4	0.20	0.28	1.20	-55.6
4	0.17	0.32	1.30	-55.4
5	0.17	0.32	1.30	-55.4
5	-0.20	1.08	2.96	-52.4
6	-0.20	1.08	2.96	-52.4
6	-0.33	1.52	3.70	-51.4
7	-0.33	1.52	3.70	-51.4
7	-0.40	1.79	4.13	-50.8
8	-0.40	1.79	4.13	-50.8
8	-0.60	2.75	5.45	-49.2
9	-0.60	2.75	5.45	-49.2
9	-1.33	8.75	11.21	-43.3
10	-1.33	8.75	11.21	-43.3
10	-1.60	12.11	13.71	-41.2
11	-1.60	12.11	13.71	-41.2
11	-1.83	15.52	15.99	-39.3
12	-1.83	15.52	15.99	-39.3
12	-2.00	18.39	17.76	-38.0
13	-2.00	18.39	17.76	-38.0
13	-2.15	21.21	19.99	-36.8
14	-2.15	21.21	19.99	-36.8
14	-2.20	22.23	20.93	-36.4
15	-2.20	22.23	20.93	-36.4
15	-2.33	25.11	23.39	-35.4
16	-2.33	25.11	23.39	-35.4
16	-2.60	32.13	28.62	-33.3
17	-2.60	32.13	28.62	-33.3
17	-3.00	45.18	36.65	-30.2
18	-3.00	45.18	36.65	-30.2
18	-3.60	69.11	42.22	-25.6
19	-3.60	69.11	42.22	-25.6
19	-4.21	96.22	45.76	-21.2
20	-4.21	96.22	45.76	-21.2
20	-4.83	125.14	48.09	-17.0
21	-4.83	125.14	48.09	-17.0
21	-5.00	133.35	**48.51**	-15.9
22	-5.00	133.35	**48.51**	-15.9
22	-5.33	147.75	38.85	-13.9
23	-5.33	147.75	38.85	-13.9
23	-5.83	163.80	25.50	-11.1
24	-5.83	163.80	25.50	-11.1
24	-6.50	174.67	6.89	-7.8
25	-6.50	**174.68**	6.87	-7.8
25	-7.16	172.60	-12.82	-5.2
26	-7.16	172.60	-12.83	-5.2
26	-7.83	158.73	-27.79	-3.2
27	-7.83	158.73	-27.83	-3.2
27	-8.20	147.45	-32.62	-2.3
28	-8.20	147.45	-32.65	-2.3
28	-8.88	121.28	-42.52	-1.1
29	-8.88	121.28	-42.52	-1.1
29	-9.38	99.57	-43.61	-0.5
30	-9.38	99.57	-43.61	-0.5
30	-9.39	99.13	-43.59	-0.5
31	-9.39	99.13	-43.59	-0.5
31	-9.50	94.35	-43.29	-0.4

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	94.35	-43.29	-0.4
32	-9.79	81.99	-41.83	-0.2
33	-9.79	81.99	-41.83	-0.2
33	-9.88	78.25	-41.21	-0.2
34	-9.88	78.25	-41.21	-0.2
34	-9.89	77.84	-41.13	-0.2
35	-9.89	77.84	-41.13	-0.2
35	-10.29	62.05	-37.63	0.0
36	-10.29	62.05	-37.63	0.0
36	-10.38	58.70	-36.71	0.1
37	-10.38	58.70	-36.71	0.1
37	-10.39	58.34	-36.61	0.1
38	-10.39	58.34	-36.60	0.1
38	-10.80	44.25	-32.04	0.2
39	-10.80	44.25	-32.04	0.2
39	-10.83	43.29	-31.68	0.2
40	-10.83	43.29	-31.68	0.2
40	-11.29	30.01	-26.07	0.2
41	-11.29	30.01	-26.07	0.2
41	-11.38	27.72	-24.99	0.2
42	-11.38	27.72	-24.99	0.2
42	-11.39	27.47	-24.87	0.2
43	-11.39	27.47	-24.87	0.2
43	-11.50	24.80	-23.55	0.2
44	-11.50	24.80	-23.55	0.2
44	-11.89	16.51	-19.00	0.2
45	-11.89	16.51	-19.00	0.2
45	-12.29	9.77	-15.76	0.2
46	-12.29	9.77	-15.76	0.2
46	-12.38	8.40	-14.67	0.1
47	-12.38	8.40	-14.67	0.1
47	-12.39	8.25	-14.55	0.1
48	-12.39	8.25	-14.55	0.1
48	-12.50	6.73	-13.25	0.1
49	-12.50	6.73	-13.25	0.1
49	-12.79	3.37	-9.93	0.1
50	-12.79	3.37	-9.93	0.1
50	-13.20	0.22	-5.49	0.0
51	-13.20	0.22	-5.49	0.0
51	-13.33	-0.42	-4.35	0.0
52	-13.33	-0.42	-4.35	0.0
52	-14.06	-1.79	0.13	-0.1
53	-14.06	-1.79	0.13	-0.1
53	-14.79	-0.93	1.77	-0.2
54	-14.79	-0.93	1.77	-0.2
54	-14.88	-0.77	1.79	-0.2
55	-14.88	-0.77	1.79	-0.2
55	-15.00	-0.56	1.75	-0.2
56	-15.00	-0.56	1.75	-0.2
56	-15.39	0.03	1.15	-0.3
57	-15.39	0.03	1.15	-0.3
57	-15.50	0.14	0.85	-0.3
58	-15.50	0.14	0.85	-0.3
58	-15.79	0.24	-0.23	-0.4
59	-15.79	0.24	-0.23	-0.4
59	-15.83	0.23	-0.41	-0.4
60	-15.83	0.23	-0.41	-0.4
60	-15.89	0.19	-0.69	-0.4
61	-15.89	0.19	-0.69	-0.4
61	-16.00	0.09	-1.26	-0.4
62	-16.00	0.09	-1.26	-0.4
62	-16.10	0.00	0.00	-0.4
Max		**174.68**	**48.51**	**-61.3**
Max incl. tussenknopen		175.45	48.51	-61.3

11.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.39	0.00	A	
2	0.60	0.00	0.00	-		1.52	0.00	A	
2	0.40	0.00	0.00	-		2.40	0.00	A	
3	0.40	0.00	0.00	-		2.49	0.00	A	
3	0.20	0.00	0.00	-		3.37	0.00	A	
4	0.20	0.00	0.00	-		3.43	0.00	A	
4	0.17	0.00	0.00	-		3.56	0.00	A	
5	0.17	0.00	0.00	-		3.66	0.00	A	
5	-0.20	0.00	0.00	-		5.29	0.00	A	
6	-0.20	0.00	0.00	-		5.41	0.00	A	
6	-0.33	0.00	0.00	-		5.98	0.00	A	
7	-0.33	0.00	0.00	-		6.03	0.00	A	
7	-0.40	0.00	0.00	-		6.34	0.00	A	
8	-0.40	0.00	0.00	-		6.38	0.00	A	
8	-0.60	0.00	1.96	-		6.87	1.96	A	
9	-0.60	0.00	1.96	-		7.00	1.96	A	
9	-1.33	0.00	9.12	-		8.77	9.12	A	
10	-1.33	0.00	9.12	-		8.91	9.12	A	
10	-1.60	0.00	11.77	-		9.57	11.77	A	
11	-1.60	0.00	11.77	-		9.64	11.77	A	
11	-1.83	0.00	14.03	-		10.20	14.03	A	
12	-1.83	0.00	14.03	-		10.25	14.03	A	
12	-2.00	0.00	15.70	-		10.70	15.70	A	
13	-2.00	0.00	15.70	-		14.14	15.70	A	
13	-2.15	0.00	17.17	-		19.89	17.17	A	
14	-2.15	0.00	17.17	-		18.92	17.17	A	
14	-2.20	0.00	17.66	-		18.79	17.66	A	
15	-2.20	0.00	17.66	-		18.80	17.66	A	
15	-2.33	0.00	18.93	-		19.06	18.93	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]		[%]
16	-2.33	0.00	18.93	-		19.11	18.93	A	
16	-2.60	0.00	21.58	-		19.63	21.58	A	
17	-2.60	0.00	21.58	-		19.70	21.58	A	
17	-3.00	0.00	25.51	-		20.44	25.51	A	
18	-3.00	0.00	25.51	P		20.54	25.51	A	
18	-3.60	14.74	31.39	3	97	21.60	31.39	A	
19	-3.60	15.12	31.39	3	96	21.71	31.39	A	
19	-4.21	17.85	37.43	3	87	22.76	37.43	A	
20	-4.21	18.24	37.43	3	87	22.88	37.43	A	
20	-4.83	21.00	43.46	3	81	23.90	43.46	A	
21	-4.83	21.25	43.46	3	81	23.97	43.46	A	
21	-5.00	21.82	45.13	3	80	24.22	45.13	A	
22	-5.00	47.18	45.13	2	78	16.40	45.13	A	
22	-5.33	45.83	48.36	2	72	17.11	48.36	A	
23	-5.33	46.31	48.36	2	71	17.20	48.36	A	
23	-5.83	47.86	53.27	2	62	21.42	53.27	A	
24	-5.83	48.63	53.27	2	61	21.55	53.27	A	
24	-6.50	51.83	59.81	2	53	22.92	59.81	A	
25	-6.50	52.72	59.81	2	53	23.07	59.81	A	
25	-7.16	50.92	66.35	1	43	24.41	66.35	A	
26	-7.16	51.43	66.35	1	43	24.56	66.35	A	
26	-7.83	44.71	72.89	1	32	27.72	72.89	1	
27	-7.83	45.09	72.89	1	32	27.94	72.89	1	
27	-8.20	42.23	76.52	1	28	33.41	76.52	1	
28	-8.20	49.73	76.52	1	30	27.50	76.52	A	
28	-8.88	43.04	83.19	1	21	36.47	83.19	1	
29	-8.88	43.62	83.19	1	21	36.80	83.19	1	
29	-9.38	41.73	88.09	1	18	43.65	88.09	1	
30	-9.38	41.97	88.09	1	18	43.79	88.09	1	
30	-9.39	41.95	88.19	1	18	43.91	88.19	1	
31	-9.39	42.01	88.19	1	18	43.95	88.19	1	
31	-9.50	41.82	89.27	1	17	45.23	89.27	1	
32	-9.50	42.00	89.27	1	17	45.34	89.27	1	
32	-9.79	41.82	92.12	1	16	48.40	92.12	1	
33	-9.79	41.99	92.12	1	16	48.50	92.12	1	
33	-9.88	42.02	93.00	1	16	49.24	93.00	1	
34	-9.88	42.07	93.00	1	16	49.27	93.00	1	
34	-9.89	42.07	93.10	1	16	49.39	93.10	1	
35	-9.89	42.26	93.10	1	16	49.51	93.10	1	
35	-10.29	42.84	97.02	1		52.88	97.02	1	8
36	-10.29	43.06	97.02	1		53.01	97.02	1	8
36	-10.38	43.28	97.90	1		53.75	97.90	1	8
37	-10.38	43.32	97.90	1		53.78	97.90	1	8
37	-10.39	43.35	98.00	1		53.86	98.00	1	8
38	-10.39	43.53	98.00	1		53.97	98.00	1	8
38	-10.80	45.11	102.02	1		56.56	102.02	1	9
39	-10.80	46.02	102.02	1		55.95	102.02	1	10
39	-10.83	49.08	102.32	1		61.34	102.32	1	11
40	-10.83	49.22	102.32	1		61.43	102.32	1	11
40	-11.29	50.90	106.83	1		63.02	106.83	1	11
41	-11.29	51.06	106.83	1		63.12	106.83	1	11
41	-11.38	51.41	107.71	1		63.44	107.71	1	11
42	-11.38	51.44	107.71	1		63.46	107.71	1	11
42	-11.39	51.47	107.81	1		63.49	107.81	1	11
43	-11.39	51.51	107.81	1		63.52	107.81	1	11
43	-11.50	51.94	108.89	1		63.86	108.89	1	11
44	-11.50	52.09	108.89	1		63.96	108.89	1	11
44	-11.89	53.67	112.72	1		65.11	112.72	1	12
45	-11.89	53.90	112.72	1		65.27	112.72	1	12
45	-12.29	55.57	116.64	1		37.02	116.64	1	7
46	-12.29	55.71	116.64	1		67.83	116.64	1	12
46	-12.38	56.09	117.52	1		68.06	117.52	1	12
47	-12.38	56.12	117.52	1		68.08	117.52	1	12
47	-12.39	56.16	117.62	1		68.11	117.62	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	-12.39	56.20	117.62	1		68.13	117.62	1	12
48	-12.50	56.66	118.70	1		68.41	118.70	1	12
49	-12.50	56.78	118.70	1		68.49	118.70	1	12
49	-12.79	58.00	121.55	1		69.21	121.55	1	12
50	-12.79	58.20	121.55	1		69.35	121.55	1	12
50	-13.20	59.68	125.57	1		70.36	125.57	1	12
51	-13.20	59.58	125.57	1		70.75	125.57	1	10
51	-13.33	56.70	126.84	1		64.89	126.84	1	9
52	-13.33	57.04	126.84	1		65.12	126.84	1	9
52	-14.06	62.25	134.00	1	14	66.48	134.00	1	
53	-14.06	62.81	134.00	1	14	66.86	134.00	1	
53	-14.79	67.84	141.17	1	14	68.34	141.17	1	
54	-14.79	68.15	141.17	1	14	68.56	141.17	1	
54	-14.88	68.76	142.05	1	14	68.75	142.05	1	
55	-14.88	68.84	142.05	1	14	68.80	142.05	1	
55	-15.00	69.65	143.23	1	14	69.06	143.23	1	
56	-15.00	69.84	143.23	1	14	69.19	143.23	1	
56	-15.39	72.47	147.05	1	14	70.02	147.05	1	
57	-15.39	72.65	147.05	1	14	70.15	147.05	1	
57	-15.50	73.39	148.13	1	14	70.39	148.13	1	
58	-15.50	73.54	148.13	1	14	70.49	148.13	1	
58	-15.79	75.48	150.98	1	14	71.11	150.98	1	
59	-15.79	75.60	150.98	1	14	71.20	150.98	1	
59	-15.83	75.87	151.37	1	14	71.28	151.37	1	
60	-15.83	75.90	151.37	1	14	71.31	151.37	1	
60	-15.89	76.31	151.96	1	14	71.44	151.96	1	
61	-15.89	76.37	151.96	1	14	71.48	151.96	1	
61	-16.00	77.15	153.04	1	13	71.72	153.04	1	
62	-16.00	72.93	153.04	1	20	76.05	153.04	1	
62	-16.10	34.41	154.02	1	9	93.04	154.02	1	

*

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

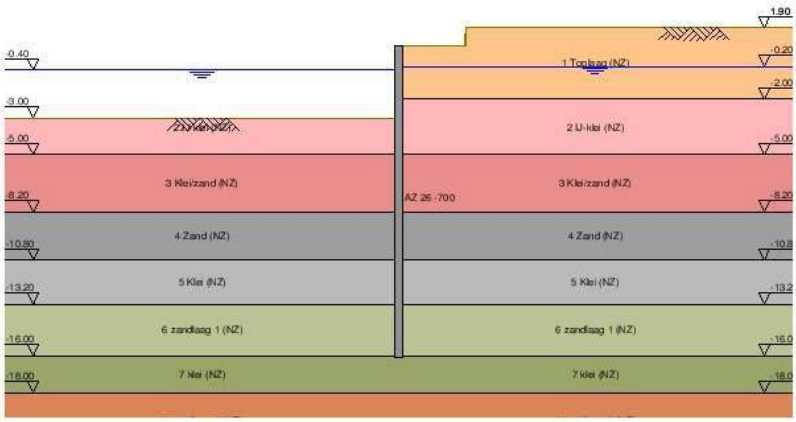
11.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	626.6	626.7
Water	1209.0	1209.0
Totaal	1835.6	1835.7

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	3101.84 kN
Gemobiliseerde passieve eff. weerstand	626.58 kN
Percentage gemobiliseerde weerstand	20.2 %

12 Overzicht Fase 3: Fase 3: GWS verhogen +WOSP

Overzicht - Fase 3: Fase 3: GWS verhogen +WOSP



13 Stap 6.3 Fase 3: Fase 3: GWS verhogen +WOSP

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

13.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

13.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.78
3 Klei/zand (NZ)	197.56
4 Zand (NZ)	192.07
5 Klei (NZ)	128.91
6 zandlaag 1 (NZ)	171.37
7 klei (NZ)	7.99
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

13.4 Invoergegevens Rechts

13.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

13.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

13.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

13.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

13.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.33	0.78	4.25
2	0.78	0.7	8.9	0.33	0.78	4.25
3	0.72	1.0	13.4	0.33	0.78	4.25
4	0.66	1.4	17.9	0.33	0.78	4.25
5	0.60	1.6	21.2	0.33	0.78	4.25
6	0.60	1.8	23.1	0.33	0.78	4.24
7	0.56	2.0	25.3	0.33	0.77	4.24
8	0.52	2.2	28.3	0.33	0.77	4.24
9	0.48	2.4	31.2	0.33	0.76	4.24
10	0.44	2.6	34.2	0.33	0.76	4.24
11	0.40	2.8	36.4	0.33	0.76	4.24
12	0.40	2.9	37.9	0.33	0.76	4.23
13	0.36	3.1	40.2	0.33	0.75	4.23
14	0.32	3.3	43.1	0.33	0.75	4.23
15	0.28	3.6	46.1	0.33	0.75	4.23
16	0.24	3.8	49.1	0.33	0.75	4.22
17	0.20	4.0	51.3	0.33	0.74	4.22
18	0.20	4.0	52.2	0.33	0.74	4.22
19	0.19	4.1	52.5	0.33	0.74	4.22
20	0.19	4.1	53.0	0.33	0.74	4.22
21	0.18	4.1	53.4	0.33	0.74	4.22
22	0.18	4.2	53.9	0.33	0.74	4.22
23	0.17	4.2	54.2	0.33	0.73	4.22
24	0.17	4.3	55.7	0.33	0.73	4.22
25	0.10	4.6	59.8	0.33	0.73	4.21
26	0.02	5.1	65.3	0.33	0.73	4.20
27	-0.05	5.5	70.8	0.32	0.73	4.20
28	-0.13	5.9	76.3	0.32	0.73	4.19
29	-0.20	6.2	80.4	0.32	0.73	4.16
30	-0.20	6.4	82.1	0.32	0.73	4.15
31	-0.23	6.4	82.9	0.32	0.73	4.15
32	-0.25	6.5	84.6	0.32	0.73	4.18
33	-0.28	6.6	86.9	0.32	0.73	4.23
34	-0.30	6.7	89.3	0.32	0.73	4.29
35	-0.33	6.7	91.2	0.32	0.72	4.34
36	-0.33	6.8	92.2	0.32	0.72	4.37
37	-0.34	6.8	93.3	0.32	0.72	4.40
38	-0.36	6.8	94.8	0.32	0.72	4.43

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	6.9	96.3	0.32	0.72	4.47
40	-0.39	6.9	97.8	0.32	0.71	4.51
41	-0.40	7.0	98.9	0.32	0.71	4.54
42	-0.40	7.0	100.5	0.32	0.71	4.58
43	-0.44	7.1	104.1	0.32	0.71	4.68
44	-0.48	7.2	109.2	0.32	0.71	4.82
45	-0.52	7.4	114.8	0.32	0.71	4.97
46	-0.56	7.5	120.7	0.32	0.70	5.13
47	-0.60	7.6	125.5	0.32	0.70	5.26
48	-0.60	7.7	133.5	0.32	0.70	5.48
49	-0.75	8.1	155.7	0.32	0.70	6.09
50	-0.89	8.5	194.1	0.31	0.70	7.14
51	-1.04	9.0	247.5	0.31	0.70	8.59
52	-1.18	9.5	324.8	0.31	0.70	10.66
53	-1.33	9.8	405.7	0.31	0.69	12.79
54	-1.33	10.0	453.3	0.31	0.69	14.04
55	-1.38	10.1	269.7	0.31	0.69	8.23
56	-1.44	10.3	217.6	0.31	0.69	6.52
57	-1.49	10.5	219.0	0.31	0.69	6.44
58	-1.55	10.6	220.5	0.31	0.68	6.37
59	-1.60	10.8	221.7	0.31	0.68	6.32
60	-1.60	10.8	222.4	0.31	0.68	6.29
61	-1.65	10.9	223.5	0.31	0.67	6.25
62	-1.69	12.1	224.9	0.33	0.67	6.20
63	-1.74	15.0	226.4	0.41	0.66	6.15
64	-1.78	15.0	227.9	0.40	0.66	6.10
65	-1.83	15.1	229.1	0.40	0.66	6.07
66	-1.83	15.2	229.7	0.40	0.66	6.05
67	-1.86	15.3	230.6	0.40	0.65	6.03
68	-1.90	15.5	231.8	0.40	0.65	6.00
69	-1.93	15.6	233.0	0.40	0.65	5.97
70	-1.97	15.8	234.2	0.40	0.65	5.94
71	-2.00	15.9	235.1	0.40	0.64	5.94
72	-2.00	9.0	113.7	0.26	0.64	3.34
73	-2.03	9.0	113.9	0.52	0.90	6.59
74	-2.06	9.1	114.1	0.52	0.90	6.54
75	-2.09	9.2	114.3	0.52	0.89	6.49
76	-2.12	9.2	114.6	0.52	0.89	6.44
77	-2.15	9.3	114.7	0.52	0.89	6.40
78	-2.15	9.3	114.8	0.52	0.89	6.39
79	-2.16	9.3	114.9	0.52	0.89	6.38
80	-2.17	9.4	114.9	0.52	0.89	6.36
81	-2.18	9.4	115.0	0.52	0.88	6.35
82	-2.19	9.4	115.1	0.52	0.88	6.33
83	-2.20	9.4	115.1	0.52	0.88	6.32
84	-2.20	9.4	115.2	0.52	0.88	6.31
85	-2.23	9.5	115.3	0.52	0.88	6.28
86	-2.25	9.5	115.5	0.52	0.87	6.24
87	-2.28	9.6	115.7	0.51	0.87	6.20
88	-2.30	9.7	115.9	0.51	0.87	6.16
89	-2.33	9.7	116.1	0.51	0.86	6.14
90	-2.33	9.8	116.2	0.51	0.86	6.11
91	-2.38	9.8	116.5	0.51	0.86	6.05
92	-2.44	10.0	116.9	0.51	0.85	5.98
93	-2.49	10.1	117.3	0.51	0.85	5.91
94	-2.55	10.2	117.7	0.51	0.84	5.84
95	-2.60	10.3	118.0	0.51	0.84	5.80
96	-2.60	10.4	118.3	0.50	0.84	5.76
97	-2.68	10.5	118.7	0.50	0.83	5.69
98	-2.76	10.7	119.4	0.50	0.83	5.60
99	-2.84	10.9	120.0	0.50	0.82	5.51
100	-2.92	11.0	120.6	0.50	0.82	5.43
101	-3.00	11.2	121.0	0.50	0.81	5.37
102	-3.00	11.3	121.4	0.50	0.81	5.33

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	11.5	122.1	0.49	0.80	5.24
104	-3.24	11.7	121.8	0.49	0.79	5.09
105	-3.36	12.0	85.8	0.49	0.78	3.49
106	-3.48	12.3	86.6	0.49	0.77	3.44
107	-3.60	12.4	87.3	0.48	0.77	3.40
108	-3.60	12.6	87.7	0.48	0.77	3.37
109	-3.72	12.8	88.4	0.48	0.76	3.34
110	-3.85	13.0	89.3	0.48	0.75	3.29
111	-3.97	13.3	90.2	0.48	0.75	3.25
112	-4.09	13.5	91.1	0.48	0.74	3.21
113	-4.21	13.7	91.8	0.48	0.73	3.18
114	-4.21	13.9	92.2	0.48	0.73	3.16
115	-4.34	14.1	92.9	0.47	0.73	3.13
116	-4.46	14.3	93.8	0.47	0.72	3.10
117	-4.58	14.6	94.7	0.47	0.72	3.07
118	-4.71	14.8	95.6	0.47	0.72	3.03
119	-4.83	15.0	96.3	0.47	0.71	3.01
120	-4.83	15.1	96.6	0.47	0.71	3.00
121	-4.86	15.1	96.8	0.47	0.71	3.00
122	-4.90	15.2	97.0	0.47	0.71	2.99
123	-4.93	15.3	97.3	0.47	0.70	2.98
124	-4.97	15.4	97.5	0.47	0.70	2.97
125	-5.00	15.4	97.7	0.47	0.70	2.96
126	-5.00	19.5	220.3	0.50	0.70	5.68
127	-5.07	22.0	221.5	0.39	0.60	3.95
128	-5.13	23.0	223.1	0.41	0.60	3.94
129	-5.20	23.2	224.7	0.41	0.60	3.93
130	-5.26	23.3	226.3	0.40	0.59	3.93
131	-5.33	23.5	227.5	0.40	0.59	3.92
132	-5.33	23.6	228.5	0.40	0.59	3.92
133	-5.43	23.8	230.3	0.40	0.59	3.91
134	-5.53	24.1	232.7	0.40	0.59	3.90
135	-5.63	24.4	234.7	0.40	0.59	3.88
136	-5.73	24.6	237.8	0.40	0.59	3.88
137	-5.83	24.8	239.3	0.40	0.58	3.87
138	-5.83	25.0	240.7	0.40	0.58	3.86
139	-5.96	25.3	243.1	0.40	0.58	3.86
140	-6.10	25.6	246.3	0.40	0.58	3.84
141	-6.23	26.0	249.4	0.40	0.58	3.83
142	-6.36	26.3	275.2	0.40	0.58	4.16
143	-6.50	26.6	281.9	0.40	0.58	4.21
144	-6.50	26.8	283.4	0.40	0.58	4.21
145	-6.63	27.0	285.8	0.40	0.57	4.19
146	-6.76	27.4	289.0	0.40	0.57	4.18
147	-6.90	27.7	292.2	0.40	0.57	4.16
148	-7.03	28.1	295.3	0.39	0.57	4.15
149	-7.16	28.4	297.7	0.39	0.57	4.14
150	-7.16	28.5	299.3	0.39	0.57	4.13
151	-7.30	28.8	301.7	0.39	0.57	4.12
152	-7.43	29.1	304.9	0.39	0.57	4.11
153	-7.56	29.5	308.1	0.39	0.57	4.10
154	-7.70	29.8	311.2	0.39	0.57	4.09
155	-7.83	30.1	313.6	0.39	0.56	4.08
156	-7.83	30.2	314.9	0.39	0.56	4.08
157	-7.90	30.4	316.2	0.39	0.56	4.07
158	-7.98	30.5	318.0	0.39	0.56	4.07
159	-8.05	30.7	319.7	0.39	0.56	4.06
160	-8.13	30.9	321.5	0.39	0.56	4.05
161	-8.20	31.1	322.8	0.39	0.56	4.04
162	-8.20	31.5	361.8	0.39	0.56	4.50
163	-8.34	31.5	366.1	0.39	0.53	4.49
164	-8.47	30.0	371.9	0.36	0.53	4.48
165	-8.61	30.1	377.6	0.36	0.53	4.47
166	-8.74	30.5	383.4	0.36	0.53	4.46

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	30.9	387.7	0.35	0.53	4.45
168	-8.88	31.1	390.2	0.35	0.53	4.45
169	-8.98	31.3	393.4	0.35	0.53	4.44
170	-9.08	31.7	397.6	0.35	0.53	4.44
171	-9.18	32.0	401.9	0.35	0.53	4.43
172	-9.28	32.4	406.1	0.35	0.52	4.43
173	-9.38	32.6	409.3	0.35	0.52	4.42
174	-9.38	32.7	410.4	0.35	0.52	4.42
175	-9.38	32.7	410.5	0.35	0.52	4.42
176	-9.38	32.7	410.6	0.35	0.52	4.42
177	-9.39	32.7	410.6	0.35	0.52	4.42
178	-9.39	32.7	410.7	0.35	0.52	4.42
179	-9.39	32.8	410.8	0.35	0.52	4.42
180	-9.39	32.8	411.0	0.35	0.52	4.42
181	-9.41	32.8	411.7	0.35	0.52	4.42
182	-9.43	32.9	412.7	0.35	0.52	4.42
183	-9.46	33.0	412.2	0.35	0.52	4.40
184	-9.48	33.1	426.9	0.35	0.52	4.55
185	-9.50	33.1	427.7	0.35	0.52	4.55
186	-9.50	33.2	428.5	0.35	0.52	4.55
187	-9.56	33.3	430.4	0.35	0.52	4.54
188	-9.62	33.5	432.8	0.35	0.52	4.54
189	-9.67	33.7	435.3	0.35	0.52	4.54
190	-9.73	33.9	437.7	0.35	0.52	4.53
191	-9.79	34.1	439.5	0.35	0.52	4.53
192	-9.79	34.1	440.3	0.35	0.52	4.53
193	-9.81	34.2	440.9	0.35	0.52	4.53
194	-9.83	34.2	441.7	0.35	0.52	4.53
195	-9.84	34.3	442.4	0.35	0.52	4.52
196	-9.86	34.4	443.2	0.35	0.52	4.52
197	-9.88	34.4	443.8	0.35	0.52	4.52
198	-9.88	34.4	444.0	0.35	0.52	4.52
199	-9.88	34.4	444.1	0.35	0.52	4.52
200	-9.88	34.4	444.1	0.35	0.52	4.52
201	-9.89	34.4	444.2	0.35	0.52	4.52
202	-9.89	34.5	444.3	0.35	0.52	4.52
203	-9.89	34.5	444.4	0.35	0.52	4.52
204	-9.89	34.5	445.2	0.35	0.52	4.52
205	-9.97	34.7	447.8	0.35	0.52	4.52
206	-10.05	35.0	451.2	0.35	0.52	4.51
207	-10.13	35.3	454.6	0.35	0.51	4.51
208	-10.21	35.6	458.0	0.35	0.51	4.50
209	-10.29	35.8	460.5	0.35	0.51	4.50
210	-10.29	35.8	461.6	0.35	0.51	4.50
211	-10.31	35.9	462.1	0.35	0.51	4.50
212	-10.33	36.0	462.9	0.35	0.51	4.50
213	-10.34	36.0	463.7	0.35	0.51	4.50
214	-10.36	36.1	464.4	0.35	0.51	4.50
215	-10.38	36.1	465.0	0.35	0.51	4.49
216	-10.38	36.1	465.2	0.35	0.51	4.49
217	-10.38	36.1	465.3	0.35	0.51	4.49
218	-10.38	36.1	465.4	0.35	0.51	4.49
219	-10.39	36.2	465.4	0.35	0.51	4.49
220	-10.39	36.2	465.5	0.35	0.51	4.49
221	-10.39	36.2	465.6	0.35	0.51	4.49
222	-10.39	36.2	466.5	0.35	0.51	4.49
223	-10.47	36.4	469.1	0.35	0.51	4.49
224	-10.55	36.7	472.6	0.35	0.51	4.49
225	-10.64	37.0	476.1	0.35	0.51	4.48
226	-10.72	37.3	479.6	0.35	0.51	4.48
227	-10.80	37.5	482.2	0.35	0.51	4.48
228	-10.80	39.5	411.5	0.37	0.51	3.82
229	-10.81	39.5	411.6	0.37	0.55	3.82
230	-10.81	39.5	411.7	0.37	0.55	3.82

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	39.5	411.9	0.37	0.55	3.82
232	-10.82	39.5	412.0	0.37	0.55	3.82
233	-10.83	39.5	412.1	0.37	0.55	3.82
234	-10.83	39.6	412.7	0.37	0.55	3.82
235	-10.92	39.8	414.2	0.37	0.55	3.82
236	-11.01	40.0	416.3	0.37	0.55	3.81
237	-11.11	40.2	418.4	0.37	0.55	3.81
238	-11.20	40.5	420.5	0.37	0.55	3.80
239	-11.29	40.7	422.1	0.37	0.55	3.80
240	-11.29	40.7	422.7	0.37	0.55	3.80
241	-11.31	40.8	423.0	0.37	0.55	3.80
242	-11.33	40.8	423.4	0.37	0.55	3.80
243	-11.34	40.8	423.8	0.37	0.55	3.80
244	-11.36	40.9	424.3	0.37	0.55	3.80
245	-11.38	40.9	424.6	0.37	0.55	3.80
246	-11.38	40.9	424.7	0.37	0.55	3.80
247	-11.38	40.9	424.7	0.37	0.55	3.80
248	-11.38	41.0	424.8	0.37	0.55	3.80
249	-11.39	41.0	424.8	0.37	0.55	3.80
250	-11.39	41.0	424.8	0.37	0.55	3.80
251	-11.39	41.0	424.9	0.37	0.55	3.80
252	-11.39	41.0	425.0	0.37	0.55	3.80
253	-11.41	41.0	425.4	0.37	0.55	3.80
254	-11.43	41.1	425.9	0.37	0.55	3.80
255	-11.46	41.1	426.4	0.37	0.55	3.80
256	-11.48	41.2	426.9	0.37	0.55	3.79
257	-11.50	41.2	427.3	0.37	0.55	3.79
258	-11.50	41.3	427.8	0.37	0.55	3.79
259	-11.58	41.4	429.2	0.37	0.55	3.79
260	-11.66	41.6	429.4	0.37	0.55	3.77
261	-11.73	41.8	434.3	0.37	0.55	3.80
262	-11.81	42.0	434.5	0.37	0.55	3.78
263	-11.89	42.4	435.8	0.37	0.55	3.78
264	-11.89	41.7	436.7	0.36	0.55	3.78
265	-11.97	41.7	438.1	0.36	0.56	3.78
266	-12.05	42.0	430.0	0.36	0.56	3.69
267	-12.13	42.2	426.6	0.36	0.56	3.64
268	-12.21	42.4	428.4	0.36	0.56	3.64
269	-12.29	42.6	429.8	0.36	0.36	3.64
270	-12.29	42.7	430.3	0.36	0.61	3.64
271	-12.31	42.7	430.6	0.36	0.61	3.64
272	-12.33	42.7	431.0	0.36	0.61	3.64
273	-12.34	42.8	431.5	0.36	0.61	3.64
274	-12.36	42.8	431.9	0.36	0.61	3.64
275	-12.38	58.7	432.2	0.49	0.61	3.64
276	-12.38	35.7	432.3	0.30	0.61	3.64
277	-12.38	46.5	432.3	0.39	0.61	3.64
278	-12.38	-28.6	432.4	0.00	0.61	3.64
279	-12.39	42.9	432.4	0.36	0.61	3.64
280	-12.39	42.9	432.5	0.36	0.61	3.64
281	-12.39	42.9	432.5	0.36	0.61	3.64
282	-12.39	42.9	432.6	0.36	0.61	3.64
283	-12.41	43.0	433.0	0.36	0.61	3.64
284	-12.43	43.0	433.5	0.36	0.61	3.64
285	-12.46	43.1	434.0	0.36	0.61	3.63
286	-12.48	43.1	434.5	0.36	0.61	3.63
287	-12.50	58.7	434.9	0.49	0.61	3.63
288	-12.50	43.2	435.3	0.36	0.61	3.63
289	-12.56	40.4	436.3	0.34	0.61	3.63
290	-12.62	46.1	437.6	0.38	0.61	3.63
291	-12.67	41.0	438.9	0.34	0.61	3.63
292	-12.73	43.8	440.3	0.36	0.61	3.63
293	-12.79	43.9	441.2	0.36	0.61	3.63
294	-12.79	44.0	442.0	0.36	0.61	3.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	44.1	443.4	0.36	0.61	3.63
296	-12.95	44.3	445.3	0.36	0.61	3.62
297	-13.04	44.5	447.2	0.36	0.61	3.62
298	-13.12	44.7	449.0	0.36	0.61	3.62
299	-13.20	44.9	450.4	0.36	0.61	3.61
300	-13.20	42.3	536.7	0.34	0.61	4.29
301	-13.23	42.4	537.6	0.34	0.56	4.29
302	-13.25	42.5	538.7	0.34	0.56	4.29
303	-13.28	42.6	539.8	0.34	0.56	4.29
304	-13.30	42.7	540.9	0.34	0.56	4.29
305	-13.33	42.7	541.7	0.34	0.56	4.29
306	-13.33	42.9	543.6	0.34	0.56	4.29
307	-13.48	43.2	548.3	0.34	0.56	4.29
308	-13.62	43.7	554.6	0.34	0.56	4.29
309	-13.77	44.2	560.9	0.34	0.56	4.29
310	-13.91	44.7	567.1	0.34	0.56	4.28
311	-14.06	45.1	571.8	0.34	0.56	4.28
312	-14.06	45.3	575.0	0.34	0.56	4.28
313	-14.21	45.7	579.7	0.34	0.56	4.28
314	-14.35	46.2	585.8	0.34	0.56	4.28
315	-14.50	46.7	607.6	0.34	0.56	4.39
316	-14.64	48.0	613.8	0.34	0.56	4.38
317	-14.79	48.4	618.5	0.34	0.56	4.38
318	-14.79	48.5	620.2	0.34	0.56	4.38
319	-14.81	48.6	620.8	0.34	0.56	4.38
320	-14.83	48.6	621.6	0.34	0.56	4.38
321	-14.84	48.7	622.4	0.34	0.56	4.38
322	-14.86	48.7	623.1	0.34	0.56	4.38
323	-14.88	48.8	623.7	0.34	0.56	4.38
324	-14.88	48.8	624.2	0.34	0.56	4.38
325	-14.90	48.9	624.9	0.34	0.56	4.38
326	-14.93	49.0	626.0	0.34	0.56	4.38
327	-14.95	49.1	627.0	0.34	0.56	4.38
328	-14.98	49.1	628.0	0.34	0.56	4.38
329	-15.00	49.2	628.8	0.34	0.56	4.38
330	-15.00	49.3	629.9	0.34	0.56	4.38
331	-15.08	49.5	632.4	0.34	0.56	4.38
332	-15.16	49.7	635.7	0.34	0.56	4.37
333	-15.23	50.0	639.1	0.34	0.56	4.37
334	-15.31	50.3	642.4	0.34	0.56	4.37
335	-15.39	50.5	645.0	0.34	0.56	4.37
336	-15.39	50.5	646.0	0.34	0.56	4.37
337	-15.41	50.6	646.7	0.34	0.56	4.37
338	-15.43	50.7	647.7	0.34	0.56	4.37
339	-15.46	50.8	648.6	0.34	0.56	4.37
340	-15.48	50.8	649.6	0.34	0.56	4.37
341	-15.50	50.9	650.3	0.34	0.56	4.37
342	-15.50	52.6	651.1	0.35	0.56	4.37
343	-15.56	50.3	653.0	0.34	0.56	4.37
344	-15.62	53.5	655.5	0.36	0.56	4.37
345	-15.67	51.7	658.0	0.34	0.56	4.36
346	-15.73	51.8	660.5	0.34	0.56	4.36
347	-15.79	51.7	662.4	0.34	0.56	4.36
348	-15.79	50.9	663.1	0.34	0.56	4.36
349	-15.80	34.9	663.3	0.23	0.56	4.36
350	-15.81	51.9	663.7	0.34	0.56	4.36
351	-15.81	52.0	664.0	0.34	0.56	4.36
352	-15.82	52.0	664.4	0.34	0.56	4.36
353	-15.83	52.0	664.6	0.34	0.56	4.36
354	-15.83	72.3	664.8	0.47	0.56	4.36
355	-15.84	41.9	665.2	0.27	0.56	4.36
356	-15.85	52.1	665.7	0.34	0.56	4.36
357	-15.87	52.1	666.3	0.34	0.56	4.36
358	-15.88	52.2	666.8	0.34	0.56	4.36

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	52.2	667.2	0.34	0.56	4.36
360	-15.89	52.2	667.5	0.34	0.56	4.36
361	-15.91	52.3	668.2	0.34	0.56	4.36
362	-15.93	52.4	669.2	0.34	0.56	4.36
363	-15.96	52.4	670.1	0.34	0.56	4.36
364	-15.98	52.5	671.1	0.34	0.56	4.36
365	-16.00	52.6	671.8	0.34	0.56	4.36
366	-16.00	62.7	475.8	0.41	0.56	3.09
367	-16.02	62.8	476.1	0.41	0.65	3.09
368	-16.04	62.8	476.5	0.41	0.65	3.09
369	-16.06	62.9	476.9	0.41	0.65	3.09
370	-16.08	63.0	477.3	0.41	0.65	3.09
371	-16.10	63.0	477.6	0.41	0.65	3.09

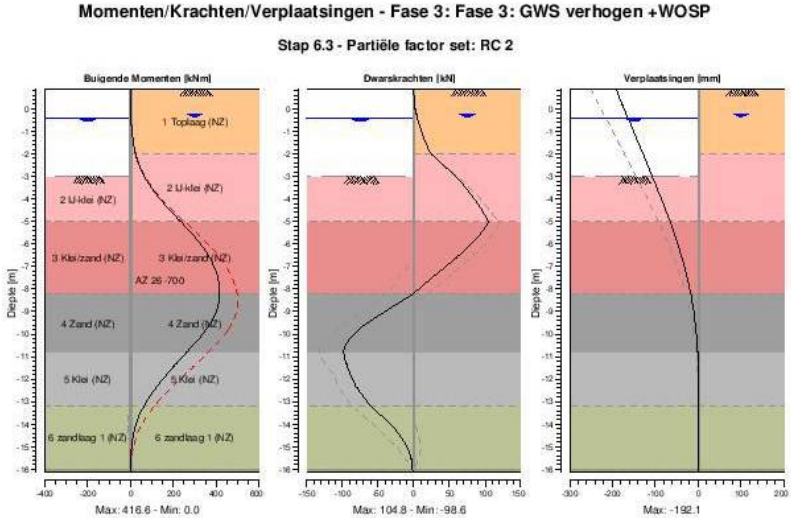
13.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	36.80
3 Klei/zand (NZ)	86.24
4 Zand (NZ)	88.72
5 Klei (NZ)	162.28
6 zandlaag 1 (NZ)	224.49
7 klei (NZ)	9.67
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

13.7 Berekeningsresultaten

Aantal iteraties: 4

13.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



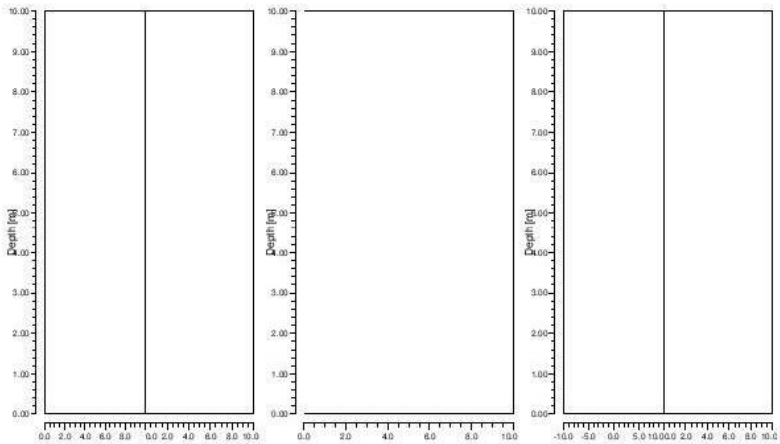
13.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-192.1**
1	0.60	0.03	0.26	-185.5
2	0.60	0.03	0.26	-185.5
2	0.40	0.12	0.72	-181.2
3	0.40	0.12	0.72	-181.2
3	0.20	0.33	1.41	-176.8
4	0.20	0.33	1.41	-176.8
4	0.17	0.37	1.53	-176.1
5	0.17	0.37	1.53	-176.1
5	-0.20	1.28	3.48	-168.0
6	-0.20	1.28	3.48	-168.0
6	-0.33	1.79	4.41	-165.1
7	-0.33	1.79	4.41	-165.1
7	-0.40	2.12	5.00	-163.6
8	-0.40	2.12	5.00	-163.6
8	-0.60	3.30	6.84	-159.2
9	-0.60	3.30	6.84	-159.2
9	-1.33	11.04	14.64	-143.2
10	-1.33	11.04	14.64	-143.2
10	-1.60	15.43	17.96	-137.3
11	-1.60	15.43	17.96	-137.3
11	-1.83	19.94	21.43	-132.2
12	-1.83	19.94	21.43	-132.2
12	-2.00	23.83	24.40	-128.5
13	-2.00	23.83	24.40	-128.5
13	-2.15	27.86	29.38	-125.2
14	-2.15	27.86	29.38	-125.2
14	-2.20	29.37	31.07	-124.2
15	-2.20	29.37	31.07	-124.2
15	-2.33	33.70	35.50	-121.3
16	-2.33	33.70	35.50	-121.3
16	-2.60	44.54	44.82	-115.5
17	-2.60	44.54	44.82	-115.5
17	-3.00	65.28	58.93	-106.8
18	-3.00	65.28	58.93	-106.8
18	-3.60	105.76	75.31	-94.0
19	-3.60	105.76	75.31	-94.0
19	-4.21	156.57	89.58	-81.3
20	-4.21	156.57	89.58	-81.3
20	-4.83	215.51	101.79	-68.9
21	-4.83	215.51	101.79	-68.9
21	-5.00	233.07	**104.80**	-65.6
22	-5.00	233.07	**104.80**	-65.6
22	-5.33	266.70	98.61	-59.4
23	-5.33	266.70	98.61	-59.4
23	-5.83	312.89	85.49	-50.4
24	-5.83	312.89	85.48	-50.4
24	-6.50	362.88	63.94	-39.4
25	-6.50	362.88	63.92	-39.4
25	-7.16	397.23	38.56	-29.6
26	-7.16	397.23	38.55	-29.6
26	-7.83	414.27	13.01	-21.3
27	-7.83	414.27	13.01	-21.3
27	-8.20	**416.61**	-0.27	-17.3
28	-8.20	**416.61**	-0.28	-17.3
28	-8.88	405.01	-34.02	-11.1
29	-8.88	405.00	-34.07	-11.1
29	-9.38	381.67	-59.25	-7.5
30	-9.38	381.67	-59.27	-7.5
30	-9.39	381.07	-59.76	-7.5
31	-9.39	381.07	-59.76	-7.5
31	-9.50	374.21	-64.92	-6.8

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	374.21	-64.93	-6.8
32	-9.79	353.62	-76.64	-5.1
33	-9.79	353.62	-76.64	-5.1
33	-9.88	346.58	-79.76	-4.7
34	-9.88	346.58	-79.76	-4.7
34	-9.89	345.78	-80.09	-4.6
35	-9.89	345.78	-80.09	-4.6
35	-10.29	311.37	-91.33	-2.9
36	-10.29	311.37	-91.32	-2.9
36	-10.38	303.06	-93.34	-2.6
37	-10.38	303.06	-93.34	-2.6
37	-10.39	302.12	-93.54	-2.5
38	-10.39	302.12	-93.54	-2.5
38	-10.80	262.52	-98.59	-1.2
39	-10.80	262.52	-98.59	-1.2
39	-10.83	259.57	-98.46	-1.2
40	-10.83	259.57	-98.46	-1.2
40	-11.29	214.98	-94.94	-0.1
41	-11.29	214.98	-94.94	-0.1
41	-11.38	206.48	-93.97	0.0
42	-11.38	206.48	-93.97	0.0
42	-11.39	205.54	-93.86	0.0
43	-11.39	205.54	-93.86	0.0
43	-11.50	195.29	-92.58	0.2
44	-11.50	195.29	-92.58	0.2
44	-11.89	160.17	-87.36	0.6
45	-11.89	160.17	-87.36	0.6
45	-12.29	126.46	-81.86	0.9
46	-12.29	126.46	-81.86	0.9
46	-12.38	119.19	-79.76	0.9
47	-12.38	119.19	-79.76	0.9
47	-12.39	118.39	-79.53	0.9
48	-12.39	118.39	-79.53	0.9
48	-12.50	109.78	-76.94	0.9
49	-12.50	109.78	-76.94	0.9
49	-12.79	88.46	-70.11	1.0
50	-12.79	88.46	-70.10	1.0
50	-13.20	61.69	-60.51	0.9
51	-13.20	61.69	-60.51	0.9
51	-13.33	54.15	-55.58	0.9
52	-13.33	54.15	-55.57	0.9
52	-14.06	22.88	-31.07	0.5
53	-14.06	22.88	-31.06	0.5
53	-14.79	7.10	-13.43	0.1
54	-14.79	7.10	-13.43	0.1
54	-14.88	5.96	-11.80	0.1
55	-14.88	5.96	-11.80	0.1
55	-15.00	4.67	-9.81	0.0
56	-15.00	4.67	-9.81	0.0
56	-15.39	1.88	-4.88	-0.3
57	-15.39	1.88	-4.88	-0.3
57	-15.50	1.40	-3.91	-0.3
58	-15.50	1.40	-3.91	-0.3
58	-15.79	0.54	-2.26	-0.5
59	-15.79	0.54	-2.26	-0.5
59	-15.83	0.45	-2.13	-0.6
60	-15.83	0.45	-2.13	-0.6
60	-15.89	0.33	-1.99	-0.6
61	-15.89	0.33	-1.99	-0.6
61	-16.00	0.11	-1.88	-0.7
62	-16.00	0.11	-1.88	-0.7
62	-16.10	0.00	0.00	-0.7
Max		**416.61**	**104.80**	**-192.1**
Max incl. tussenknopen		416.61	104.80	-192.1

13.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.19	0.00	A	
6	-0.20	0.00	0.00	-		6.31	0.00	A	
6	-0.33	0.00	0.00	-		6.68	1.28	A	
7	-0.33	0.00	0.00	-		6.71	1.28	A	
7	-0.40	0.00	0.00	-		6.91	1.96	A	
8	-0.40	0.00	0.00	-		6.96	1.96	A	
8	-0.60	0.00	1.96	-		7.53	3.92	A	
9	-0.60	0.00	1.96	-		7.68	3.92	A	
9	-1.33	0.00	9.12	-		9.77	11.09	A	
10	-1.33	0.00	9.12	-		9.93	11.09	A	
10	-1.60	0.00	11.77	-		10.71	13.73	A	
11	-1.60	0.00	11.77	-		10.79	13.73	A	
11	-1.83	0.00	14.03	-		15.08	15.99	A	
12	-1.83	0.00	14.03	-		15.17	15.99	A	
12	-2.00	0.00	15.70	-		15.90	17.66	A	
13	-2.00	0.00	15.70	-		4.54	40.16	A	
13	-2.15	0.00	17.17	-		9.32	41.63	A	
14	-2.15	0.00	17.17	-		9.34	41.63	A	
14	-2.20	0.00	17.66	-		9.45	42.12	A	
15	-2.20	0.00	17.66	-		9.47	42.12	A	
15	-2.33	0.00	18.93	-		9.74	43.40	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]		[%]
16	-2.33	0.00	18.93	-		9.78	43.40	A	
16	-2.60	0.00	21.58	-		10.33	46.04	A	
17	-2.60	0.00	21.58	-		10.41	46.04	A	
17	-3.00	0.00	25.51	-		11.20	49.97	A	
18	-3.00	0.00	25.51	P		11.31	49.97	A	
18	-3.60	11.88	31.39	P		12.47	55.85	A	
19	-3.60	12.34	31.39	P		12.60	55.85	A	
19	-4.21	16.52	37.43	P		13.76	61.89	A	
20	-4.21	16.99	37.43	P		13.89	61.89	A	
20	-4.83	21.17	43.46	P		15.04	67.92	A	
21	-4.83	21.46	43.46	P		15.12	67.92	A	
21	-5.00	22.39	45.13	P		15.39	69.59	A	
22	-5.00	42.01	45.13	P		28.03	47.09	A	
22	-5.33	46.84	48.36	P		23.46	50.33	A	
23	-5.33	47.71	48.36	P		23.58	50.33	A	
23	-5.83	56.07	53.27	3	97	24.82	55.23	A	
24	-5.83	57.02	53.27	3	96	24.98	55.23	A	
24	-6.50	63.22	59.81	3	86	26.59	61.77	A	
25	-6.50	64.32	59.81	3	86	26.76	61.77	A	
25	-7.16	70.27	66.35	2	79	28.34	68.31	A	
26	-7.16	70.99	66.35	2	78	28.51	68.31	A	
26	-7.83	68.37	72.89	2	65	30.06	74.85	A	
27	-7.83	68.93	72.89	2	65	30.19	74.85	A	
27	-8.20	67.77	76.52	2	60	30.97	78.48	A	
28	-8.20	82.53	76.52	2	67	31.37	78.48	A	
28	-8.88	82.40	83.19	2	55	30.78	85.15	A	
29	-8.88	83.47	83.19	2	55	30.98	85.15	A	
29	-9.38	83.61	88.09	1	49	32.53	90.06	A	
30	-9.38	83.85	88.09	1	49	32.61	90.06	A	
30	-9.39	83.51	88.19	1	48	32.64	90.15	A	
31	-9.39	83.57	88.19	1	48	32.67	90.15	A	
31	-9.50	79.99	89.27	1	45	33.00	91.23	A	
32	-9.50	80.17	89.27	1	45	33.07	91.23	A	
32	-9.79	71.77	92.12	1	38	33.97	94.08	A	
33	-9.79	71.94	92.12	1	38	34.03	94.08	A	
33	-9.88	69.63	93.00	1	36	34.31	94.96	A	
34	-9.88	69.67	93.00	1	36	34.32	94.96	A	
34	-9.89	69.43	93.10	1	36	34.35	95.06	A	
35	-9.89	69.61	93.10	1	36	34.42	95.06	A	
35	-10.29	61.00	97.02	1	29	35.65	98.98	A	
36	-10.29	61.21	97.02	1	29	35.74	98.98	A	
36	-10.38	59.61	97.90	1	28	36.85	99.87	1	
37	-10.38	59.66	97.90	1	28	36.88	99.87	1	
37	-10.39	59.49	98.00	1	28	37.11	99.96	1	
38	-10.39	59.67	98.00	1	27	37.22	99.96	1	
38	-10.80	54.13	102.02	1	23	47.09	103.99	1	
39	-10.80	50.53	102.02	1	25	50.99	103.99	1	
39	-10.83	53.36	102.32	1	27	55.97	104.28	1	
40	-10.83	53.51	102.32	1	27	56.07	104.28	1	
40	-11.29	52.25	106.83	1	25	60.68	108.79	1	
41	-11.29	52.42	106.83	1	25	60.79	108.79	1	
41	-11.38	52.30	107.71	1		61.43	109.68	1	14
42	-11.38	52.33	107.71	1		61.45	109.68	1	14
42	-11.39	52.32	107.81	1		61.51	109.77	1	14
43	-11.39	52.36	107.81	1		61.53	109.77	1	14
43	-11.50	52.27	108.89	1		62.39	110.85	1	15
44	-11.50	52.42	108.89	1		62.49	110.85	1	15
44	-11.89	52.56	112.72	1		65.18	114.68	1	15
45	-11.89	52.79	112.72	1		65.33	114.68	1	15
45	-12.29	53.51	116.64	1		45.28	118.60	1	11
46	-12.29	53.65	116.64	1		74.90	118.60	1	17
46	-12.38	53.89	117.52	1		75.31	119.49	1	17
47	-12.38	53.91	117.52	1		75.33	119.49	1	17
47	-12.39	53.94	117.62	1		75.37	119.58	1	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]		[%]
48	-12.39	53.98	117.62	1		75.40	119.58	1	17
48	-12.50	54.29	118.70	1		75.86	120.66	1	17
49	-12.50	54.41	118.70	1		75.95	120.66	1	17
49	-12.79	55.38	121.55	1		77.02	123.51	1	17
50	-12.79	55.58	121.55	1		77.17	123.51	1	17
50	-13.20	56.99	125.57	1		78.39	127.53	1	17
51	-13.20	48.82	125.57	1		86.86	127.53	1	16
51	-13.33	46.08	126.84	1		81.39	128.81	1	15
52	-13.33	46.42	126.84	1		81.64	128.81	1	15
52	-14.06	53.83	134.00	1		81.20	135.97	1	14
53	-14.06	54.39	134.00	1		81.63	135.97	1	14
53	-14.79	63.00	141.17	1		79.93	143.13	1	13
54	-14.79	63.31	141.17	1		80.17	143.13	1	13
54	-14.88	64.41	142.05	1		79.92	144.01	1	13
55	-14.88	64.49	142.05	1		79.98	144.01	1	13
55	-15.00	65.96	143.23	1	17	79.65	145.19	1	
56	-15.00	66.15	143.23	1	17	79.79	145.19	1	
56	-15.39	70.95	147.05	1	18	78.66	149.01	1	
57	-15.39	71.13	147.05	1	18	78.81	149.01	1	
57	-15.50	72.49	148.13	1	18	78.48	150.09	1	
58	-15.50	72.64	148.13	1	18	78.60	150.09	1	
58	-15.79	76.22	150.98	1	18	77.73	152.94	1	
59	-15.79	76.34	150.98	1	18	77.82	152.94	1	
59	-15.83	76.84	151.37	1	18	77.71	153.33	1	
60	-15.83	76.88	151.37	1	18	77.73	153.33	1	
60	-15.89	77.62	151.96	1	19	77.55	153.92	1	
61	-15.89	77.68	151.96	1	19	77.60	153.92	1	
61	-16.00	79.08	153.04	1	19	77.27	155.00	1	
62	-16.00	73.53	153.04	1	25	82.94	155.00	1	
62	-16.10	41.34	154.02	1	14	98.37	155.98	1	

*

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	727.7	629.3
Water	1209.0	1307.5
Totaal	1936.7	1936.8

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	727.68 kN
Percentage gemobiliseerde weerstand	31.3 %

14 Stap 6.4 Fase 3: Fase 3: GWS verhogen +WOSP

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

14.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

14.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.78
3 Klei/zand (NZ)	220.63
4 Zand (NZ)	184.06
5 Klei (NZ)	114.64
6 zandlaag 1 (NZ)	183.24
7 klei (NZ)	8.35
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

14.4 Invoergegevens Rechts

14.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

14.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

14.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

14.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

14.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.33	0.78	4.25
2	0.78	0.7	8.9	0.33	0.78	4.25
3	0.72	1.0	13.4	0.33	0.78	4.25
4	0.66	1.4	17.9	0.33	0.78	4.25
5	0.60	1.6	21.2	0.33	0.78	4.25
6	0.60	1.8	23.1	0.33	0.78	4.24
7	0.56	2.0	25.3	0.33	0.77	4.24
8	0.52	2.2	28.3	0.33	0.77	4.24
9	0.48	2.4	31.2	0.33	0.76	4.24
10	0.44	2.6	34.2	0.33	0.76	4.24
11	0.40	2.8	36.4	0.33	0.76	4.24
12	0.40	2.9	37.9	0.33	0.76	4.23
13	0.36	3.1	40.2	0.33	0.75	4.23
14	0.32	3.3	43.1	0.33	0.75	4.23
15	0.28	3.6	46.1	0.33	0.75	4.23
16	0.24	3.8	49.1	0.33	0.75	4.22
17	0.20	4.0	51.3	0.33	0.74	4.22
18	0.20	4.0	52.2	0.33	0.74	4.22
19	0.19	4.1	52.5	0.33	0.74	4.22
20	0.19	4.1	53.0	0.33	0.74	4.22
21	0.18	4.1	53.4	0.33	0.74	4.22
22	0.18	4.2	53.9	0.33	0.74	4.22
23	0.17	4.2	54.2	0.33	0.73	4.22
24	0.17	4.3	55.7	0.33	0.73	4.22
25	0.10	4.6	59.8	0.33	0.73	4.21
26	0.02	5.1	65.3	0.33	0.73	4.20
27	-0.05	5.5	70.8	0.32	0.73	4.20
28	-0.13	5.9	76.3	0.32	0.73	4.19
29	-0.20	6.2	80.4	0.32	0.73	4.16
30	-0.20	6.4	82.1	0.32	0.73	4.15
31	-0.23	6.4	82.9	0.32	0.73	4.15
32	-0.25	6.5	84.6	0.32	0.73	4.18
33	-0.28	6.6	86.9	0.32	0.73	4.23
34	-0.30	6.7	89.3	0.32	0.73	4.29
35	-0.33	6.7	91.2	0.32	0.72	4.34
36	-0.33	6.8	92.2	0.32	0.72	4.37
37	-0.34	6.8	93.3	0.32	0.72	4.40
38	-0.36	6.8	94.8	0.32	0.72	4.43

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	6.9	96.3	0.32	0.72	4.47
40	-0.39	6.9	97.8	0.32	0.71	4.51
41	-0.40	7.0	98.9	0.32	0.71	4.54
42	-0.40	7.0	100.5	0.32	0.71	4.58
43	-0.44	7.1	104.1	0.32	0.71	4.68
44	-0.48	7.2	109.2	0.32	0.71	4.82
45	-0.52	7.4	114.8	0.32	0.71	4.97
46	-0.56	7.5	120.7	0.32	0.70	5.13
47	-0.60	7.6	125.5	0.32	0.70	5.26
48	-0.60	7.7	133.5	0.32	0.70	5.48
49	-0.75	8.1	155.7	0.32	0.70	6.09
50	-0.89	8.5	194.1	0.31	0.70	7.14
51	-1.04	9.0	247.5	0.31	0.70	8.59
52	-1.18	9.5	324.8	0.31	0.70	10.66
53	-1.33	9.8	405.7	0.31	0.69	12.79
54	-1.33	10.0	453.3	0.31	0.69	14.04
55	-1.38	10.1	269.7	0.31	0.69	8.23
56	-1.44	10.3	217.6	0.31	0.69	6.52
57	-1.49	10.5	219.0	0.31	0.69	6.44
58	-1.55	10.6	220.5	0.31	0.68	6.37
59	-1.60	10.8	221.7	0.31	0.68	6.32
60	-1.60	10.8	222.4	0.31	0.68	6.29
61	-1.65	10.9	223.5	0.31	0.67	6.25
62	-1.69	12.1	224.9	0.33	0.67	6.20
63	-1.74	15.0	226.4	0.41	0.66	6.15
64	-1.78	15.0	227.9	0.40	0.66	6.10
65	-1.83	15.1	229.1	0.40	0.66	6.07
66	-1.83	15.2	229.7	0.40	0.66	6.05
67	-1.86	15.3	230.6	0.40	0.65	6.03
68	-1.90	15.5	231.8	0.40	0.65	6.00
69	-1.93	15.6	233.0	0.40	0.65	5.97
70	-1.97	15.8	234.2	0.40	0.65	5.94
71	-2.00	15.9	235.1	0.40	0.64	5.94
72	-2.00	9.0	113.7	0.26	0.64	3.34
73	-2.03	9.0	113.9	0.52	0.90	6.59
74	-2.06	9.1	114.1	0.52	0.90	6.54
75	-2.09	9.2	114.3	0.52	0.89	6.49
76	-2.12	9.2	114.6	0.52	0.89	6.44
77	-2.15	9.3	114.7	0.52	0.89	6.40
78	-2.15	9.3	114.8	0.52	0.89	6.39
79	-2.16	9.3	114.9	0.52	0.89	6.38
80	-2.17	9.4	114.9	0.52	0.89	6.36
81	-2.18	9.4	115.0	0.52	0.88	6.35
82	-2.19	9.4	115.1	0.52	0.88	6.33
83	-2.20	9.4	115.1	0.52	0.88	6.32
84	-2.20	9.4	115.2	0.52	0.88	6.31
85	-2.23	9.5	115.3	0.52	0.88	6.28
86	-2.25	9.5	115.5	0.52	0.87	6.24
87	-2.28	9.6	115.7	0.51	0.87	6.20
88	-2.30	9.7	115.9	0.51	0.87	6.16
89	-2.33	9.7	116.1	0.51	0.86	6.14
90	-2.33	9.8	116.2	0.51	0.86	6.11
91	-2.38	9.8	116.5	0.51	0.86	6.05
92	-2.44	10.0	116.9	0.51	0.85	5.98
93	-2.49	10.1	117.3	0.51	0.85	5.91
94	-2.55	10.2	117.7	0.51	0.84	5.84
95	-2.60	10.3	118.0	0.51	0.84	5.80
96	-2.60	10.4	118.3	0.50	0.84	5.76
97	-2.68	10.5	118.7	0.50	0.83	5.69
98	-2.76	10.7	119.4	0.50	0.83	5.60
99	-2.84	10.9	120.0	0.50	0.82	5.51
100	-2.92	11.0	120.6	0.50	0.82	5.43
101	-3.00	11.2	121.0	0.50	0.81	5.37
102	-3.00	11.3	121.4	0.50	0.81	5.33

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	11.5	122.1	0.49	0.80	5.24
104	-3.24	11.7	121.8	0.49	0.79	5.09
105	-3.36	12.0	85.8	0.49	0.78	3.49
106	-3.48	12.3	86.6	0.49	0.77	3.44
107	-3.60	12.4	87.3	0.48	0.77	3.40
108	-3.60	12.6	87.7	0.48	0.77	3.37
109	-3.72	12.8	88.4	0.48	0.76	3.34
110	-3.85	13.0	89.3	0.48	0.75	3.29
111	-3.97	13.3	90.2	0.48	0.75	3.25
112	-4.09	13.5	91.1	0.48	0.74	3.21
113	-4.21	13.7	91.8	0.48	0.73	3.18
114	-4.21	13.9	92.2	0.48	0.73	3.16
115	-4.34	14.1	92.9	0.47	0.73	3.13
116	-4.46	14.3	93.8	0.47	0.72	3.10
117	-4.58	14.6	94.7	0.47	0.72	3.07
118	-4.71	14.8	95.6	0.47	0.72	3.03
119	-4.83	15.0	96.3	0.47	0.71	3.01
120	-4.83	15.1	96.6	0.47	0.71	3.00
121	-4.86	15.1	96.8	0.47	0.71	3.00
122	-4.90	15.2	97.0	0.47	0.71	2.99
123	-4.93	15.3	97.3	0.47	0.70	2.98
124	-4.97	15.4	97.5	0.47	0.70	2.97
125	-5.00	15.4	97.7	0.47	0.70	2.96
126	-5.00	19.5	220.3	0.50	0.70	5.68
127	-5.07	22.0	221.5	0.39	0.60	3.95
128	-5.13	23.0	223.1	0.41	0.60	3.94
129	-5.20	23.2	224.7	0.41	0.60	3.93
130	-5.26	23.3	226.3	0.40	0.59	3.93
131	-5.33	23.5	227.5	0.40	0.59	3.92
132	-5.33	23.6	228.5	0.40	0.59	3.92
133	-5.43	23.8	230.3	0.40	0.59	3.91
134	-5.53	24.1	232.7	0.40	0.59	3.90
135	-5.63	24.4	234.7	0.40	0.59	3.88
136	-5.73	24.6	237.8	0.40	0.59	3.88
137	-5.83	24.8	239.3	0.40	0.58	3.87
138	-5.83	25.0	240.7	0.40	0.58	3.86
139	-5.96	25.3	243.1	0.40	0.58	3.86
140	-6.10	25.6	246.3	0.40	0.58	3.84
141	-6.23	26.0	249.4	0.40	0.58	3.83
142	-6.36	26.3	275.2	0.40	0.58	4.16
143	-6.50	26.6	281.9	0.40	0.58	4.21
144	-6.50	26.8	283.4	0.40	0.58	4.21
145	-6.63	27.0	285.8	0.40	0.57	4.19
146	-6.76	27.4	289.0	0.40	0.57	4.18
147	-6.90	27.7	292.2	0.40	0.57	4.16
148	-7.03	28.1	295.3	0.39	0.57	4.15
149	-7.16	28.4	297.7	0.39	0.57	4.14
150	-7.16	28.5	299.3	0.39	0.57	4.13
151	-7.30	28.8	301.7	0.39	0.57	4.12
152	-7.43	29.1	304.9	0.39	0.57	4.11
153	-7.56	29.5	308.1	0.39	0.57	4.10
154	-7.70	29.8	311.2	0.39	0.57	4.09
155	-7.83	30.1	313.6	0.39	0.56	4.08
156	-7.83	30.2	314.9	0.39	0.56	4.08
157	-7.90	30.4	316.2	0.39	0.56	4.07
158	-7.98	30.5	318.0	0.39	0.56	4.07
159	-8.05	30.7	319.7	0.39	0.56	4.06
160	-8.13	30.9	321.5	0.39	0.56	4.05
161	-8.20	31.1	322.8	0.39	0.56	4.04
162	-8.20	31.5	361.8	0.39	0.56	4.50
163	-8.34	31.5	366.1	0.39	0.53	4.49
164	-8.47	30.0	371.9	0.36	0.53	4.48
165	-8.61	30.1	377.6	0.36	0.53	4.47
166	-8.74	30.5	383.4	0.36	0.53	4.46

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	30.9	387.7	0.35	0.53	4.45
168	-8.88	31.1	390.2	0.35	0.53	4.45
169	-8.98	31.3	393.4	0.35	0.53	4.44
170	-9.08	31.7	397.6	0.35	0.53	4.44
171	-9.18	32.0	401.9	0.35	0.53	4.43
172	-9.28	32.4	406.1	0.35	0.52	4.43
173	-9.38	32.6	409.3	0.35	0.52	4.42
174	-9.38	32.7	410.4	0.35	0.52	4.42
175	-9.38	32.7	410.5	0.35	0.52	4.42
176	-9.38	32.7	410.6	0.35	0.52	4.42
177	-9.39	32.7	410.6	0.35	0.52	4.42
178	-9.39	32.7	410.7	0.35	0.52	4.42
179	-9.39	32.8	410.8	0.35	0.52	4.42
180	-9.39	32.8	411.0	0.35	0.52	4.42
181	-9.41	32.8	411.7	0.35	0.52	4.42
182	-9.43	32.9	412.7	0.35	0.52	4.42
183	-9.46	33.0	412.2	0.35	0.52	4.40
184	-9.48	33.1	426.9	0.35	0.52	4.55
185	-9.50	33.1	427.7	0.35	0.52	4.55
186	-9.50	33.2	428.5	0.35	0.52	4.55
187	-9.56	33.3	430.4	0.35	0.52	4.54
188	-9.62	33.5	432.8	0.35	0.52	4.54
189	-9.67	33.7	435.3	0.35	0.52	4.54
190	-9.73	33.9	437.7	0.35	0.52	4.53
191	-9.79	34.1	439.5	0.35	0.52	4.53
192	-9.79	34.1	440.3	0.35	0.52	4.53
193	-9.81	34.2	440.9	0.35	0.52	4.53
194	-9.83	34.2	441.7	0.35	0.52	4.53
195	-9.84	34.3	442.4	0.35	0.52	4.52
196	-9.86	34.4	443.2	0.35	0.52	4.52
197	-9.88	34.4	443.8	0.35	0.52	4.52
198	-9.88	34.4	444.0	0.35	0.52	4.52
199	-9.88	34.4	444.1	0.35	0.52	4.52
200	-9.88	34.4	444.1	0.35	0.52	4.52
201	-9.89	34.4	444.2	0.35	0.52	4.52
202	-9.89	34.5	444.3	0.35	0.52	4.52
203	-9.89	34.5	444.4	0.35	0.52	4.52
204	-9.89	34.5	445.2	0.35	0.52	4.52
205	-9.97	34.7	447.8	0.35	0.52	4.52
206	-10.05	35.0	451.2	0.35	0.52	4.51
207	-10.13	35.3	454.6	0.35	0.51	4.51
208	-10.21	35.6	458.0	0.35	0.51	4.50
209	-10.29	35.8	460.5	0.35	0.51	4.50
210	-10.29	35.8	461.6	0.35	0.51	4.50
211	-10.31	35.9	462.1	0.35	0.51	4.50
212	-10.33	36.0	462.9	0.35	0.51	4.50
213	-10.34	36.0	463.7	0.35	0.51	4.50
214	-10.36	36.1	464.4	0.35	0.51	4.50
215	-10.38	36.1	465.0	0.35	0.51	4.49
216	-10.38	36.1	465.2	0.35	0.51	4.49
217	-10.38	36.1	465.3	0.35	0.51	4.49
218	-10.38	36.1	465.4	0.35	0.51	4.49
219	-10.39	36.2	465.4	0.35	0.51	4.49
220	-10.39	36.2	465.5	0.35	0.51	4.49
221	-10.39	36.2	465.6	0.35	0.51	4.49
222	-10.39	36.2	466.5	0.35	0.51	4.49
223	-10.47	36.4	469.1	0.35	0.51	4.49
224	-10.55	36.7	472.6	0.35	0.51	4.49
225	-10.64	37.0	476.1	0.35	0.51	4.48
226	-10.72	37.3	479.6	0.35	0.51	4.48
227	-10.80	37.5	482.2	0.35	0.51	4.48
228	-10.80	39.5	411.5	0.37	0.51	3.82
229	-10.81	39.5	411.6	0.37	0.55	3.82
230	-10.81	39.5	411.7	0.37	0.55	3.82

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	39.5	411.9	0.37	0.55	3.82
232	-10.82	39.5	412.0	0.37	0.55	3.82
233	-10.83	39.5	412.1	0.37	0.55	3.82
234	-10.83	39.6	412.7	0.37	0.55	3.82
235	-10.92	39.8	414.2	0.37	0.55	3.82
236	-11.01	40.0	416.3	0.37	0.55	3.81
237	-11.11	40.2	418.4	0.37	0.55	3.81
238	-11.20	40.5	420.5	0.37	0.55	3.80
239	-11.29	40.7	422.1	0.37	0.55	3.80
240	-11.29	40.7	422.7	0.37	0.55	3.80
241	-11.31	40.8	423.0	0.37	0.55	3.80
242	-11.33	40.8	423.4	0.37	0.55	3.80
243	-11.34	40.8	423.8	0.37	0.55	3.80
244	-11.36	40.9	424.3	0.37	0.55	3.80
245	-11.38	40.9	424.6	0.37	0.55	3.80
246	-11.38	40.9	424.7	0.37	0.55	3.80
247	-11.38	40.9	424.7	0.37	0.55	3.80
248	-11.38	41.0	424.8	0.37	0.55	3.80
249	-11.39	41.0	424.8	0.37	0.55	3.80
250	-11.39	41.0	424.8	0.37	0.55	3.80
251	-11.39	41.0	424.9	0.37	0.55	3.80
252	-11.39	41.0	425.0	0.37	0.55	3.80
253	-11.41	41.0	425.4	0.37	0.55	3.80
254	-11.43	41.1	425.9	0.37	0.55	3.80
255	-11.46	41.1	426.4	0.37	0.55	3.80
256	-11.48	41.2	426.9	0.37	0.55	3.79
257	-11.50	41.2	427.3	0.37	0.55	3.79
258	-11.50	41.3	427.8	0.37	0.55	3.79
259	-11.58	41.4	429.2	0.37	0.55	3.79
260	-11.66	41.6	429.4	0.37	0.55	3.77
261	-11.73	41.8	434.3	0.37	0.55	3.80
262	-11.81	42.0	434.5	0.37	0.55	3.78
263	-11.89	42.4	435.8	0.37	0.55	3.78
264	-11.89	41.7	436.7	0.36	0.55	3.78
265	-11.97	41.7	438.1	0.36	0.56	3.78
266	-12.05	42.0	430.0	0.36	0.56	3.69
267	-12.13	42.2	426.6	0.36	0.56	3.64
268	-12.21	42.4	428.4	0.36	0.56	3.64
269	-12.29	42.6	429.8	0.36	0.36	3.64
270	-12.29	42.7	430.3	0.36	0.61	3.64
271	-12.31	42.7	430.6	0.36	0.61	3.64
272	-12.33	42.7	431.0	0.36	0.61	3.64
273	-12.34	42.8	431.5	0.36	0.61	3.64
274	-12.36	42.8	431.9	0.36	0.61	3.64
275	-12.38	58.7	432.2	0.49	0.61	3.64
276	-12.38	35.7	432.3	0.30	0.61	3.64
277	-12.38	46.5	432.3	0.39	0.61	3.64
278	-12.38	-28.6	432.4	0.00	0.61	3.64
279	-12.39	42.9	432.4	0.36	0.61	3.64
280	-12.39	42.9	432.5	0.36	0.61	3.64
281	-12.39	42.9	432.5	0.36	0.61	3.64
282	-12.39	42.9	432.6	0.36	0.61	3.64
283	-12.41	43.0	433.0	0.36	0.61	3.64
284	-12.43	43.0	433.5	0.36	0.61	3.64
285	-12.46	43.1	434.0	0.36	0.61	3.63
286	-12.48	43.1	434.5	0.36	0.61	3.63
287	-12.50	58.7	434.9	0.49	0.61	3.63
288	-12.50	43.2	435.3	0.36	0.61	3.63
289	-12.56	40.4	436.3	0.34	0.61	3.63
290	-12.62	46.1	437.6	0.38	0.61	3.63
291	-12.67	41.0	438.9	0.34	0.61	3.63
292	-12.73	43.8	440.3	0.36	0.61	3.63
293	-12.79	43.9	441.2	0.36	0.61	3.63
294	-12.79	44.0	442.0	0.36	0.61	3.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	44.1	443.4	0.36	0.61	3.63
296	-12.95	44.3	445.3	0.36	0.61	3.62
297	-13.04	44.5	447.2	0.36	0.61	3.62
298	-13.12	44.7	449.0	0.36	0.61	3.62
299	-13.20	44.9	450.4	0.36	0.61	3.61
300	-13.20	42.3	536.7	0.34	0.61	4.29
301	-13.23	42.4	537.6	0.34	0.56	4.29
302	-13.25	42.5	538.7	0.34	0.56	4.29
303	-13.28	42.6	539.8	0.34	0.56	4.29
304	-13.30	42.7	540.9	0.34	0.56	4.29
305	-13.33	42.7	541.7	0.34	0.56	4.29
306	-13.33	42.9	543.6	0.34	0.56	4.29
307	-13.48	43.2	548.3	0.34	0.56	4.29
308	-13.62	43.7	554.6	0.34	0.56	4.29
309	-13.77	44.2	560.9	0.34	0.56	4.29
310	-13.91	44.7	567.1	0.34	0.56	4.28
311	-14.06	45.1	571.8	0.34	0.56	4.28
312	-14.06	45.3	575.0	0.34	0.56	4.28
313	-14.21	45.7	579.7	0.34	0.56	4.28
314	-14.35	46.2	585.8	0.34	0.56	4.28
315	-14.50	46.7	607.6	0.34	0.56	4.39
316	-14.64	48.0	613.8	0.34	0.56	4.38
317	-14.79	48.4	618.5	0.34	0.56	4.38
318	-14.79	48.5	620.2	0.34	0.56	4.38
319	-14.81	48.6	620.8	0.34	0.56	4.38
320	-14.83	48.6	621.6	0.34	0.56	4.38
321	-14.84	48.7	622.4	0.34	0.56	4.38
322	-14.86	48.7	623.1	0.34	0.56	4.38
323	-14.88	48.8	623.7	0.34	0.56	4.38
324	-14.88	48.8	624.2	0.34	0.56	4.38
325	-14.90	48.9	624.9	0.34	0.56	4.38
326	-14.93	49.0	626.0	0.34	0.56	4.38
327	-14.95	49.1	627.0	0.34	0.56	4.38
328	-14.98	49.1	628.0	0.34	0.56	4.38
329	-15.00	49.2	628.8	0.34	0.56	4.38
330	-15.00	49.3	629.9	0.34	0.56	4.38
331	-15.08	49.5	632.4	0.34	0.56	4.38
332	-15.16	49.7	635.7	0.34	0.56	4.37
333	-15.23	50.0	639.1	0.34	0.56	4.37
334	-15.31	50.3	642.4	0.34	0.56	4.37
335	-15.39	50.5	645.0	0.34	0.56	4.37
336	-15.39	50.5	646.0	0.34	0.56	4.37
337	-15.41	50.6	646.7	0.34	0.56	4.37
338	-15.43	50.7	647.7	0.34	0.56	4.37
339	-15.46	50.8	648.6	0.34	0.56	4.37
340	-15.48	50.8	649.6	0.34	0.56	4.37
341	-15.50	50.9	650.3	0.34	0.56	4.37
342	-15.50	52.6	651.1	0.35	0.56	4.37
343	-15.56	50.3	653.0	0.34	0.56	4.37
344	-15.62	53.5	655.5	0.36	0.56	4.37
345	-15.67	51.7	658.0	0.34	0.56	4.36
346	-15.73	51.8	660.5	0.34	0.56	4.36
347	-15.79	51.7	662.4	0.34	0.56	4.36
348	-15.79	50.9	663.1	0.34	0.56	4.36
349	-15.80	34.9	663.3	0.23	0.56	4.36
350	-15.81	51.9	663.7	0.34	0.56	4.36
351	-15.81	52.0	664.0	0.34	0.56	4.36
352	-15.82	52.0	664.4	0.34	0.56	4.36
353	-15.83	52.0	664.6	0.34	0.56	4.36
354	-15.83	72.3	664.8	0.47	0.56	4.36
355	-15.84	41.9	665.2	0.27	0.56	4.36
356	-15.85	52.1	665.7	0.34	0.56	4.36
357	-15.87	52.1	666.3	0.34	0.56	4.36
358	-15.88	52.2	666.8	0.34	0.56	4.36

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	52.2	667.2	0.34	0.56	4.36
360	-15.89	52.2	667.5	0.34	0.56	4.36
361	-15.91	52.3	668.2	0.34	0.56	4.36
362	-15.93	52.4	669.2	0.34	0.56	4.36
363	-15.96	52.4	670.1	0.34	0.56	4.36
364	-15.98	52.5	671.1	0.34	0.56	4.36
365	-16.00	52.6	671.8	0.34	0.56	4.36
366	-16.00	62.7	475.8	0.41	0.56	3.09
367	-16.02	62.8	476.1	0.41	0.65	3.09
368	-16.04	62.8	476.5	0.41	0.65	3.09
369	-16.06	62.9	476.9	0.41	0.65	3.09
370	-16.08	63.0	477.3	0.41	0.65	3.09
371	-16.10	63.0	477.6	0.41	0.65	3.09

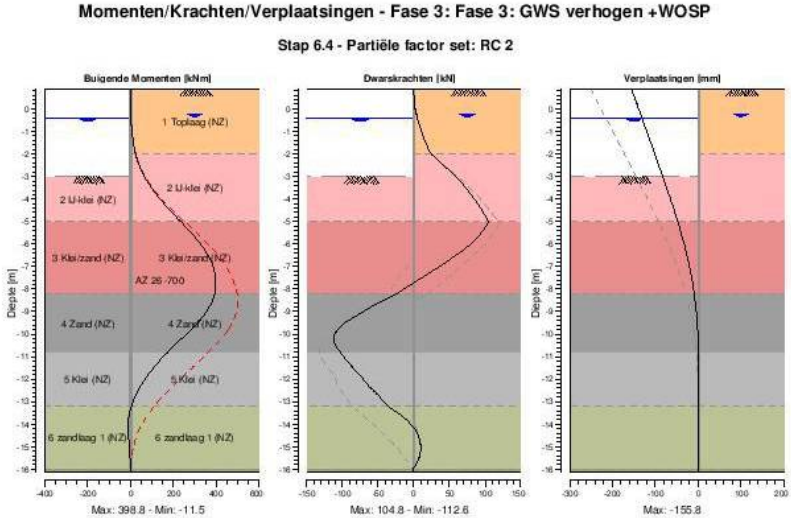
14.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	36.80
3 Klei/zand (NZ)	86.24
4 Zand (NZ)	99.82
5 Klei (NZ)	176.55
6 zandlaag 1 (NZ)	212.66
7 klei (NZ)	9.31
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

14.7 Berekeningsresultaten

Aantal iteraties: 4

14.7.1 Grafieken van Momenten, Krachten en Verplaatsingen

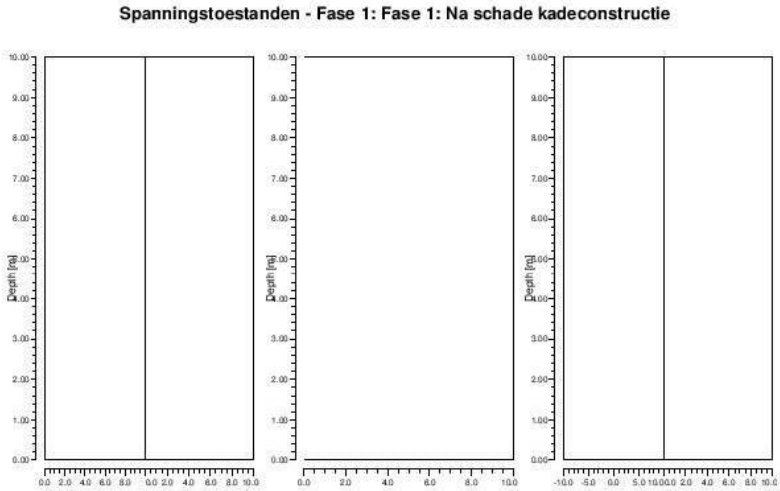


14.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-155.8**
1	0.60	0.03	0.26	-150.2
2	0.60	0.03	0.26	-150.2
2	0.40	0.12	0.72	-146.4
3	0.40	0.12	0.72	-146.4
3	0.20	0.33	1.41	-142.6
4	0.20	0.33	1.41	-142.6
4	0.17	0.37	1.53	-142.1
5	0.17	0.37	1.53	-142.1
5	-0.20	1.28	3.48	-135.1
6	-0.20	1.28	3.48	-135.1
6	-0.33	1.79	4.41	-132.6
7	-0.33	1.79	4.41	-132.6
7	-0.40	2.12	5.00	-131.3
8	-0.40	2.12	5.00	-131.3
8	-0.60	3.30	6.84	-127.5
9	-0.60	3.30	6.84	-127.5
9	-1.33	11.04	14.64	-113.8
10	-1.33	11.04	14.64	-113.8
10	-1.60	15.43	17.96	-108.7
11	-1.60	15.43	17.96	-108.7
11	-1.83	19.94	21.43	-104.4
12	-1.83	19.94	21.43	-104.4
12	-2.00	23.83	24.40	-101.2
13	-2.00	23.83	24.40	-101.2
13	-2.15	27.86	29.38	-98.4
14	-2.15	27.86	29.38	-98.4
14	-2.20	29.37	31.07	-97.4
15	-2.20	29.37	31.07	-97.4
15	-2.33	33.70	35.50	-95.0
16	-2.33	33.70	35.50	-95.0
16	-2.60	44.54	44.82	-90.0
17	-2.60	44.54	44.82	-90.0
17	-3.00	65.28	58.93	-82.6
18	-3.00	65.28	58.93	-82.6
18	-3.60	105.76	75.31	-71.7
19	-3.60	105.76	75.31	-71.7
19	-4.21	156.57	89.58	-60.8
20	-4.21	156.57	89.58	-60.8
20	-4.83	215.51	101.79	-50.4
21	-4.83	215.51	101.79	-50.4
21	-5.00	233.08	104.80	-47.6
22	-5.00	233.08	104.80	-47.6
22	-5.33	266.70	98.61	-42.4
23	-5.33	266.70	98.61	-42.4
23	-5.83	312.88	85.34	-34.9
24	-5.83	312.88	85.33	-34.9
24	-6.50	361.71	59.69	-26.0
25	-6.50	361.71	59.65	-26.0
25	-7.16	390.98	27.90	-18.3
26	-7.16	390.97	27.89	-18.3
26	-7.83	**398.48**	-5.65	-12.0
27	-7.83	**398.48**	-5.67	-12.0
27	-8.20	393.03	-23.39	-9.1
28	-8.20	393.03	-23.41	-9.1
28	-8.88	362.97	-64.02	-4.9
29	-8.88	362.96	-64.09	-4.9
29	-9.38	324.18	-90.63	-2.6
30	-9.38	324.18	-90.71	-2.6
30	-9.39	323.27	-91.21	-2.6
31	-9.39	323.27	-91.21	-2.6
31	-9.50	312.95	-96.31	-2.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	312.95	-96.31	-2.2
32	-9.79	283.44	-106.42	-1.3
33	-9.79	283.44	-106.42	-1.3
33	-9.88	273.76	-108.70	-1.0
34	-9.88	273.76	-108.70	-1.0
34	-9.89	272.67	-108.93	-1.0
35	-9.89	272.67	-108.95	-1.0
35	-10.29	228.02	**-112.33**	-0.1
36	-10.29	228.02	**-112.33**	-0.1
36	-10.38	217.94	-111.58	0.0
37	-10.38	217.94	-111.58	0.0
37	-10.39	216.83	-111.47	0.0
38	-10.39	216.83	-111.46	0.0
38	-10.80	172.66	-102.71	0.5
39	-10.80	172.66	-102.70	0.5
39	-10.83	169.59	-102.05	0.6
40	-10.83	169.59	-102.05	0.6
40	-11.29	125.19	-90.63	0.9
41	-11.29	125.19	-90.63	0.9
41	-11.38	117.14	-88.19	0.9
42	-11.38	117.14	-88.19	0.9
42	-11.39	116.26	-87.91	0.9
43	-11.39	116.26	-87.91	0.9
43	-11.50	106.76	-84.88	0.9
44	-11.50	106.76	-84.88	0.9
44	-11.89	75.77	-73.99	1.0
45	-11.89	75.77	-73.99	1.0
45	-12.29	48.40	-63.75	0.9
46	-12.29	48.40	-63.75	0.9
46	-12.38	42.80	-60.75	0.8
47	-12.38	42.80	-60.75	0.8
47	-12.39	42.19	-60.42	0.8
48	-12.39	42.19	-60.42	0.8
48	-12.50	35.74	-56.83	0.8
49	-12.50	35.74	-56.83	0.8
49	-12.79	20.59	-47.76	0.7
50	-12.79	20.59	-47.76	0.7
50	-13.20	3.45	-36.07	0.5
51	-13.20	3.45	-36.07	0.5
51	-13.33	-0.80	-29.42	0.5
52	-13.33	-0.80	-29.43	0.5
52	-14.06	-11.38	-2.37	0.1
53	-14.06	-11.38	-2.38	0.1
53	-14.79	-8.09	9.00	-0.1
54	-14.79	-8.09	9.00	-0.1
54	-14.88	-7.26	9.43	-0.2
55	-14.88	-7.26	9.43	-0.2
55	-15.00	-6.11	9.70	-0.2
56	-15.00	-6.11	9.70	-0.2
56	-15.39	-2.50	8.20	-0.3
57	-15.39	-2.50	8.20	-0.3
57	-15.50	-1.65	7.14	-0.4
58	-15.50	-1.65	7.14	-0.4
58	-15.79	-0.13	3.00	-0.5
59	-15.79	-0.13	3.00	-0.5
59	-15.83	-0.03	2.28	-0.5
60	-15.83	-0.03	2.28	-0.5
60	-15.89	0.08	1.16	-0.5
61	-15.89	0.08	1.16	-0.5
61	-16.00	0.08	-1.16	-0.5
62	-16.00	0.08	-1.16	-0.5
62	-16.10	0.00	0.00	-0.6
Max		**398.48**	**-112.33**	**-155.8**
Max incl. tussenknopen		398.78	-112.58	-155.8

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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.19	0.00	A	
6	-0.20	0.00	0.00	-		6.31	0.00	A	
6	-0.33	0.00	0.00	-		6.68	1.28	A	
7	-0.33	0.00	0.00	-		6.71	1.28	A	
7	-0.40	0.00	0.00	-		6.91	1.96	A	
8	-0.40	0.00	0.00	-		6.96	1.96	A	
8	-0.60	0.00	1.96	-		7.53	3.92	A	
9	-0.60	0.00	1.96	-		7.68	3.92	A	
9	-1.33	0.00	9.12	-		9.77	11.09	A	
10	-1.33	0.00	9.12	-		9.93	11.09	A	
10	-1.60	0.00	11.77	-		10.71	13.73	A	
11	-1.60	0.00	11.77	-		10.79	13.73	A	
11	-1.83	0.00	14.03	-		15.08	15.99	A	
12	-1.83	0.00	14.03	-		15.17	15.99	A	
12	-2.00	0.00	15.70	-		15.90	17.66	A	
13	-2.00	0.00	15.70	-		4.54	40.16	A	
13	-2.15	0.00	17.17	-		9.32	41.63	A	
14	-2.15	0.00	17.17	-		9.34	41.63	A	
14	-2.20	0.00	17.66	-		9.45	42.12	A	
15	-2.20	0.00	17.66	-		9.47	42.12	A	
15	-2.33	0.00	18.93	-		9.74	43.40	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]		[%]
16	-2.33	0.00	18.93	-		9.78	43.40	A	
16	-2.60	0.00	21.58	-		10.33	46.04	A	
17	-2.60	0.00	21.58	-		10.41	46.04	A	
17	-3.00	0.00	25.51	-		11.20	49.97	A	
18	-3.00	0.00	25.51	P		11.31	49.97	A	
18	-3.60	11.88	31.39	P		12.47	55.85	A	
19	-3.60	12.34	31.39	P		12.60	55.85	A	
19	-4.21	16.52	37.43	P		13.76	61.89	A	
20	-4.21	16.99	37.43	P		13.89	61.89	A	
20	-4.83	21.17	43.46	P		15.04	67.92	A	
21	-4.83	21.46	43.46	P		15.12	67.92	A	
21	-5.00	22.39	45.13	P		15.39	69.59	A	
22	-5.00	42.01	45.13	P		28.03	47.09	A	
22	-5.33	46.84	48.36	P		23.46	50.33	A	
23	-5.33	47.71	48.36	P		23.58	50.33	A	
23	-5.83	57.81	53.27	P		24.82	55.23	A	
24	-5.83	59.17	53.27	P		24.98	55.23	A	
24	-6.50	73.31	59.81	P		26.59	61.77	A	
25	-6.50	74.89	59.81	P		26.76	61.77	A	
25	-7.16	78.67	66.35	3	88	28.34	68.31	A	
26	-7.16	79.78	66.35	3	88	28.51	68.31	A	
26	-7.83	82.80	72.89	2	79	30.06	74.85	A	
27	-7.83	83.36	72.89	2	78	30.19	74.85	A	
27	-8.20	77.52	76.52	2	68	30.97	78.48	A	
28	-8.20	98.12	76.52	2	79	31.37	78.48	A	
28	-8.88	87.68	83.19	2	58	30.78	85.15	A	
29	-8.88	88.76	83.19	2	58	30.98	85.15	A	
29	-9.38	84.78	88.09	1	49	32.53	90.06	A	
30	-9.38	85.02	88.09	1	49	32.61	90.06	A	
30	-9.39	84.40	88.19	1	49	32.64	90.15	A	
31	-9.39	84.45	88.19	1	49	32.67	90.15	A	
31	-9.50	77.87	89.27	1	44	33.00	91.23	A	
32	-9.50	78.06	89.27	1	44	33.07	91.23	A	
32	-9.79	63.24	92.12	1	33	33.97	94.08	A	
33	-9.79	63.41	92.12	1	33	34.03	94.08	A	
33	-9.88	59.52	93.00	1	31	34.31	94.96	A	
34	-9.88	59.57	93.00	1	31	34.32	94.96	A	
34	-9.89	59.16	93.10	1	30	34.35	95.06	A	
35	-9.89	59.34	93.10	1	30	34.42	95.06	A	
35	-10.29	45.85	97.02	1	22	49.69	98.98	1	
36	-10.29	46.07	97.02	1	22	49.82	98.98	1	
36	-10.38	43.79	97.90	1		52.68	99.87	1	11
37	-10.38	43.83	97.90	1		52.70	99.87	1	11
37	-10.39	43.59	98.00	1		53.00	99.96	1	11
38	-10.39	43.78	98.00	1		53.11	99.96	1	11
38	-10.80	36.74	102.02	1		64.48	103.99	1	13
39	-10.80	41.84	102.02	1		59.68	103.99	1	15
39	-10.83	44.66	102.32	1		64.68	104.28	1	16
40	-10.83	44.80	102.32	1		64.77	104.28	1	16
40	-11.29	43.95	106.83	1		68.98	108.79	1	16
41	-11.29	44.11	106.83	1		69.09	108.79	1	16
41	-11.38	44.18	107.71	1		69.54	109.68	1	16
42	-11.38	44.21	107.71	1		69.56	109.68	1	16
42	-11.39	44.23	107.81	1		69.60	109.77	1	16
43	-11.39	44.26	107.81	1		69.63	109.77	1	16
43	-11.50	44.44	108.89	1		70.22	110.85	1	16
44	-11.50	44.59	108.89	1		70.32	110.85	1	16
44	-11.89	45.91	112.72	1		71.82	114.68	1	16
45	-11.89	46.14	112.72	1		71.97	114.68	1	16
45	-12.29	48.33	116.64	1		50.46	118.60	1	12
46	-12.29	48.47	116.64	1		80.08	118.60	1	19
46	-12.38	49.04	117.52	1		80.15	119.49	1	19
47	-12.38	49.07	117.52	1		80.17	119.49	1	19
47	-12.39	49.14	117.62	1		80.18	119.58	1	19

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	-12.39	49.17	117.62	1		80.20	119.58	1	19
48	-12.50	49.91	118.70	1		80.25	120.66	1	18
49	-12.50	50.02	118.70	1		80.33	120.66	1	18
49	-12.79	52.09	121.55	1		80.31	123.51	1	18
50	-12.79	52.29	121.55	1		80.46	123.51	1	18
50	-13.20	55.14	125.57	1		80.25	127.53	1	18
51	-13.20	41.40	125.57	1		94.28	127.53	1	18
51	-13.33	40.32	126.84	1		87.15	128.81	1	16
52	-13.33	40.67	126.84	1		87.40	128.81	1	16
52	-14.06	55.59	134.00	1		79.44	135.97	1	14
53	-14.06	56.15	134.00	1		79.87	135.97	1	14
53	-14.79	69.45	141.17	1	19	73.49	143.13	1	
54	-14.79	69.75	141.17	1	19	73.73	143.13	1	
54	-14.88	71.29	142.05	1	19	73.04	144.01	1	
55	-14.88	71.37	142.05	1	19	73.11	144.01	1	
55	-15.00	73.38	143.23	1	19	72.22	145.19	1	
56	-15.00	73.57	143.23	1	19	72.37	145.19	1	
56	-15.39	79.97	147.05	1	20	69.64	149.01	1	
57	-15.39	80.16	147.05	1	20	69.78	149.01	1	
57	-15.50	81.93	148.13	1	20	69.04	150.09	1	
58	-15.50	82.08	148.13	1	20	69.15	150.09	1	
58	-15.79	86.74	150.98	1	21	67.22	152.94	1	
59	-15.79	86.86	150.98	1	21	67.31	152.94	1	
59	-15.83	87.50	151.37	1	21	67.05	153.33	1	
60	-15.83	87.53	151.37	1	21	72.17	153.33	A	
60	-15.89	88.49	151.96	1	21	66.68	153.92	1	
61	-15.89	88.56	151.96	1	21	66.73	153.92	1	
61	-16.00	90.36	153.04	1	21	65.99	155.00	1	
62	-16.00	77.06	153.04	1	27	79.42	155.00	1	
62	-16.10	44.98	154.02	1	15	94.74	155.98	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	740.7	642.5
Water	1209.0	1307.5
Totaal	1949.7	1950.0

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	740.70 kN
Percentage gemobiliseerde weerstand	31.8 %

15 Stap 6.5 Fase 3: Fase 3: GWS verhogen +WOSP

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: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau	Schelpfactor	OCR	Korreltype
	[m]	[-]	[-]	
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

15.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	11.4	0.00	1.73	25.66
2	-3.24	0.0	12.4	0.00	1.73	14.00
3	-3.36	0.0	13.4	0.00	1.73	10.11
4	-3.48	0.0	14.5	0.00	1.72	8.17
5	-3.60	0.0	15.2	0.00	1.72	7.25
6	-3.60	0.0	15.8	0.00	1.72	6.78
7	-3.72	0.0	16.6	0.00	1.72	6.21
8	-3.85	0.0	17.6	0.00	1.72	5.65
9	-3.97	0.0	18.7	0.00	1.72	5.23
10	-4.09	0.0	19.8	0.00	1.71	4.90
11	-4.21	0.0	20.6	0.00	1.71	4.70
12	-4.21	0.0	21.1	0.00	1.71	4.59
13	-4.34	0.0	21.9	0.00	1.70	4.43
14	-4.46	0.0	22.9	0.00	1.70	4.25
15	-4.58	0.0	24.0	0.00	1.70	4.11
16	-4.71	0.0	25.1	0.00	1.69	3.98
17	-4.83	0.0	25.9	0.00	1.69	3.89
18	-4.83	0.0	26.2	0.00	1.69	3.86
19	-4.86	0.0	26.4	0.00	1.68	3.84
20	-4.90	0.0	26.7	0.00	1.68	3.81
21	-4.93	0.0	27.0	0.00	1.68	3.79
22	-4.97	0.0	27.3	0.00	1.68	3.76
23	-5.00	0.0	27.5	0.00	1.66	3.70
24	-5.00	0.0	61.6	0.00	1.66	8.11
25	-5.07	0.0	60.8	0.00	1.48	7.68
26	-5.13	0.0	61.2	0.00	1.45	7.31
27	-5.20	0.0	62.2	0.00	1.43	7.06
28	-5.26	0.0	63.6	0.00	1.41	6.87
29	-5.33	0.0	64.7	0.00	1.40	6.75
30	-5.33	0.0	65.7	0.00	1.40	6.67
31	-5.43	0.0	67.7	0.00	1.37	6.53
32	-5.53	0.0	70.4	0.00	1.35	6.38
33	-5.63	0.0	73.2	0.00	1.33	6.26

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	76.1	0.00	1.31	6.15
35	-5.83	0.0	78.3	0.00	1.29	6.08
36	-5.83	0.0	80.0	0.00	1.29	6.03
37	-5.96	0.0	83.0	0.00	1.27	5.96
38	-6.10	0.0	87.0	0.00	1.25	5.87
39	-6.23	0.0	91.0	0.00	1.24	5.79
40	-6.36	0.0	95.1	0.00	1.22	5.73
41	-6.50	0.0	98.1	0.00	1.21	5.68
42	-6.50	0.0	100.2	0.00	1.21	5.65
43	-6.63	0.0	103.2	0.00	1.19	5.62
44	-6.76	0.0	107.3	0.00	1.18	5.57
45	-6.90	0.0	111.4	0.00	1.17	5.52
46	-7.03	0.0	115.5	0.00	1.16	5.49
47	-7.16	0.0	118.6	0.00	1.15	5.46
48	-7.16	0.0	120.7	0.00	1.15	5.44
49	-7.30	0.0	123.8	0.00	1.14	5.42
50	-7.43	1.4	127.9	0.06	1.13	5.39
51	-7.56	4.5	132.0	0.18	1.12	5.36
52	-7.70	4.8	136.1	0.19	1.11	5.33
53	-7.83	5.0	139.2	0.19	1.10	5.32
54	-7.83	5.1	140.8	0.19	1.10	5.31
55	-7.90	5.2	142.6	0.19	1.09	5.30
56	-7.98	5.4	144.9	0.20	1.09	5.29
57	-8.05	5.5	147.2	0.20	1.09	5.27
58	-8.13	5.7	149.4	0.20	1.08	5.26
59	-8.20	5.8	151.2	0.20	1.07	5.22
60	-8.20	8.1	170.5	0.28	1.07	5.78
61	-8.34	8.4	176.2	0.28	1.01	5.77
62	-8.47	8.8	183.8	0.28	1.00	5.76
63	-8.61	9.2	191.5	0.28	0.98	5.75
64	-8.74	9.6	199.2	0.28	0.97	5.74
65	-8.88	9.9	205.0	0.28	0.96	5.74
66	-8.88	10.0	208.4	0.28	0.96	5.74
67	-8.98	10.3	212.7	0.28	0.95	5.73
68	-9.08	10.5	218.4	0.28	0.94	5.73
69	-9.18	10.8	224.1	0.28	0.94	5.73
70	-9.28	11.1	229.9	0.28	0.93	5.73
71	-9.38	11.3	234.2	0.28	0.92	5.72
72	-9.38	11.4	235.7	0.28	0.92	5.72
73	-9.38	11.4	235.8	0.28	0.92	5.72
74	-9.38	11.4	235.9	0.28	0.92	5.72
75	-9.39	11.4	236.0	0.28	0.92	5.72
76	-9.39	11.4	236.1	0.28	0.92	5.72
77	-9.39	11.4	236.2	0.28	0.92	5.72
78	-9.39	11.4	236.5	0.28	0.92	5.72
79	-9.41	11.5	237.5	0.28	0.92	5.72
80	-9.43	11.6	238.7	0.28	0.92	5.72
81	-9.46	11.6	240.0	0.28	0.92	5.72
82	-9.48	11.7	241.3	0.28	0.91	5.72
83	-9.50	11.7	242.2	0.28	0.91	5.72
84	-9.50	11.8	243.4	0.28	0.91	5.72
85	-9.56	11.9	245.9	0.28	0.91	5.72
86	-9.62	12.1	249.2	0.28	0.91	5.72
87	-9.67	12.2	252.6	0.28	0.90	5.72
88	-9.73	12.4	255.9	0.28	0.90	5.72
89	-9.79	12.5	258.4	0.28	0.89	5.72
90	-9.79	12.6	259.5	0.28	0.89	5.72
91	-9.81	12.6	260.3	0.28	0.89	5.72
92	-9.83	12.7	261.4	0.28	0.89	5.72
93	-9.84	12.7	262.4	0.28	0.89	5.72
94	-9.86	12.8	263.4	0.28	0.89	5.72
95	-9.88	12.8	264.2	0.28	0.89	5.72
96	-9.88	12.8	264.5	0.28	0.89	5.72
97	-9.88	12.8	264.6	0.28	0.89	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	12.8	264.7	0.28	0.89	5.72
99	-9.89	12.8	264.8	0.28	0.89	5.72
100	-9.89	12.8	264.9	0.28	0.89	5.72
101	-9.89	12.8	265.0	0.28	0.89	5.72
102	-9.89	12.9	266.2	0.28	0.89	5.72
103	-9.97	13.1	269.7	0.28	0.88	5.72
104	-10.05	13.3	274.3	0.28	0.88	5.72
105	-10.13	13.5	279.0	0.28	0.87	5.71
106	-10.21	13.8	283.6	0.28	0.87	5.71
107	-10.29	13.9	287.1	0.28	0.87	5.71
108	-10.29	14.0	288.5	0.28	0.87	5.71
109	-10.31	14.0	289.3	0.28	0.87	5.71
110	-10.33	14.1	290.3	0.28	0.86	5.71
111	-10.34	14.1	291.4	0.28	0.86	5.71
112	-10.36	14.2	292.4	0.28	0.86	5.71
113	-10.38	14.2	293.2	0.28	0.86	5.71
114	-10.38	14.2	293.5	0.28	0.86	5.71
115	-10.38	14.3	293.6	0.28	0.86	5.71
116	-10.38	14.3	293.7	0.28	0.86	5.71
117	-10.39	14.3	293.8	0.28	0.86	5.71
118	-10.39	14.3	293.9	0.28	0.86	5.71
119	-10.39	14.3	294.0	0.28	0.86	5.71
120	-10.39	14.3	295.2	0.28	0.86	5.71
121	-10.47	14.5	298.8	0.28	0.86	5.71
122	-10.55	14.7	303.6	0.28	0.85	5.71
123	-10.64	15.0	308.3	0.28	0.85	5.71
124	-10.72	15.2	313.1	0.28	0.84	5.71
125	-10.80	15.4	316.7	0.28	0.85	5.73
126	-10.80	14.7	258.5	0.27	0.85	4.67
127	-10.81	14.7	258.7	0.27	0.90	4.67
128	-10.81	14.7	258.8	0.27	0.90	4.67
129	-10.82	14.8	259.0	0.27	0.90	4.67
130	-10.82	14.8	259.2	0.27	0.90	4.67
131	-10.83	14.8	259.3	0.27	0.90	4.67
132	-10.83	14.8	260.0	0.27	0.90	4.67
133	-10.92	15.0	262.0	0.27	0.90	4.66
134	-11.01	15.2	264.6	0.27	0.89	4.66
135	-11.11	15.4	267.3	0.27	0.89	4.65
136	-11.20	15.6	269.9	0.27	0.89	4.65
137	-11.29	15.7	271.9	0.27	0.89	4.65
138	-11.29	15.8	272.7	0.27	0.89	4.65
139	-11.31	15.8	273.1	0.27	0.89	4.65
140	-11.33	15.9	273.6	0.27	0.89	4.65
141	-11.34	15.9	274.1	0.27	0.89	4.64
142	-11.36	15.9	274.6	0.27	0.89	4.64
143	-11.38	16.0	275.0	0.27	0.88	4.64
144	-11.38	16.0	275.2	0.27	0.88	4.64
145	-11.38	16.0	275.2	0.27	0.88	4.64
146	-11.38	16.0	275.3	0.27	0.88	4.64
147	-11.39	16.0	275.3	0.27	0.88	4.64
148	-11.39	16.0	275.4	0.27	0.88	4.64
149	-11.39	16.0	275.4	0.27	0.88	4.64
150	-11.39	16.0	275.6	0.27	0.88	4.64
151	-11.41	16.1	276.1	0.27	0.88	4.64
152	-11.43	16.1	276.7	0.27	0.88	4.64
153	-11.46	16.1	277.3	0.27	0.88	4.64
154	-11.48	16.2	278.0	0.27	0.88	4.64
155	-11.50	16.2	278.4	0.27	0.88	4.64
156	-11.50	16.3	279.2	0.27	0.88	4.64
157	-11.58	16.4	280.9	0.27	0.88	4.64
158	-11.66	16.6	283.1	0.27	0.88	4.63
159	-11.73	16.8	285.3	0.27	0.88	4.63
160	-11.81	16.9	287.6	0.27	0.87	4.63
161	-11.89	17.0	289.3	0.27	0.87	4.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	17.1	290.4	0.27	0.87	4.62
163	-11.97	17.3	292.1	0.27	0.87	4.62
164	-12.05	17.4	294.5	0.27	0.87	4.62
165	-12.13	17.6	296.8	0.27	0.87	4.62
166	-12.21	17.8	299.1	0.27	0.86	4.61
167	-12.29	17.9	300.8	0.27	0.86	4.61
168	-12.29	18.0	301.5	0.27	0.86	4.61
169	-12.31	18.0	301.9	0.27	0.86	4.61
170	-12.33	18.0	302.4	0.28	0.86	4.61
171	-12.34	18.1	302.9	0.28	0.86	4.61
172	-12.36	18.1	303.5	0.28	0.86	4.61
173	-12.38	18.1	303.8	0.28	0.86	4.61
174	-12.38	18.2	304.0	0.28	0.86	4.61
175	-12.38	18.2	304.0	0.28	0.86	4.61
176	-12.38	18.2	304.1	0.28	0.86	4.61
177	-12.39	18.2	304.2	0.28	0.86	4.61
178	-12.39	18.2	304.2	0.28	0.86	4.61
179	-12.39	18.2	304.3	0.28	0.86	4.61
180	-12.39	18.2	304.4	0.28	0.86	4.61
181	-12.41	18.2	304.9	0.28	0.86	4.61
182	-12.43	18.3	305.5	0.28	0.86	4.61
183	-12.46	18.3	306.2	0.28	0.86	4.61
184	-12.48	18.4	306.8	0.28	0.86	4.61
185	-12.50	18.4	307.3	0.28	0.86	4.61
186	-12.50	18.4	307.9	0.28	0.86	4.61
187	-12.56	18.5	309.1	0.28	0.86	4.60
188	-12.62	18.7	310.8	0.28	0.86	4.60
189	-12.67	18.8	312.5	0.28	0.85	4.60
190	-12.73	18.9	314.1	0.28	0.85	4.60
191	-12.79	19.0	315.4	0.28	0.85	4.60
192	-12.79	19.1	316.4	0.28	0.85	4.60
193	-12.87	19.2	318.2	0.28	0.85	4.60
194	-12.95	19.4	320.6	0.28	0.85	4.59
195	-13.04	19.6	322.9	0.28	0.85	4.59
196	-13.12	19.8	325.3	0.28	0.84	4.59
197	-13.20	19.9	327.1	0.28	0.84	4.57
198	-13.20	19.9	411.9	0.28	0.84	5.74
199	-13.23	20.0	413.0	0.28	0.79	5.74
200	-13.25	20.1	414.5	0.28	0.78	5.74
201	-13.28	20.2	416.0	0.28	0.78	5.74
202	-13.30	20.2	417.5	0.28	0.78	5.74
203	-13.33	20.3	418.6	0.28	0.78	5.74
204	-13.33	20.4	421.1	0.28	0.78	5.74
205	-13.48	20.7	427.4	0.28	0.78	5.73
206	-13.62	21.1	435.8	0.28	0.77	5.73
207	-13.77	21.5	444.3	0.28	0.77	5.73
208	-13.91	22.0	452.7	0.28	0.76	5.73
209	-14.06	22.3	459.1	0.28	0.76	5.73
210	-14.06	22.5	463.3	0.28	0.76	5.73
211	-14.21	22.8	469.6	0.28	0.75	5.73
212	-14.35	23.2	478.1	0.28	0.75	5.73
213	-14.50	23.6	486.5	0.28	0.75	5.73
214	-14.64	24.0	495.0	0.28	0.74	5.73
215	-14.79	24.4	501.4	0.28	0.74	5.73
216	-14.79	24.5	503.7	0.28	0.74	5.73
217	-14.81	24.5	504.5	0.28	0.74	5.73
218	-14.83	24.6	505.6	0.28	0.74	5.73
219	-14.84	24.6	506.6	0.28	0.74	5.73
220	-14.86	24.7	507.7	0.28	0.74	5.73
221	-14.88	24.7	508.4	0.28	0.74	5.73
222	-14.88	24.7	509.1	0.28	0.74	5.73
223	-14.90	24.8	510.1	0.28	0.74	5.73
224	-14.93	24.8	511.5	0.28	0.73	5.73
225	-14.95	24.9	512.9	0.28	0.73	5.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	25.0	514.3	0.28	0.73	5.73
227	-15.00	25.0	515.3	0.28	0.73	5.73
228	-15.00	25.1	516.8	0.28	0.73	5.73
229	-15.08	25.3	520.2	0.28	0.73	5.73
230	-15.16	25.5	524.7	0.28	0.73	5.73
231	-15.23	25.7	529.3	0.28	0.73	5.73
232	-15.31	25.9	533.8	0.28	0.73	5.72
233	-15.39	26.1	537.2	0.28	0.72	5.72
234	-15.39	26.2	538.7	0.28	0.72	5.72
235	-15.41	26.2	539.6	0.28	0.72	5.72
236	-15.43	26.3	540.9	0.28	0.72	5.72
237	-15.46	26.4	542.2	0.28	0.72	5.72
238	-15.48	26.4	543.5	0.28	0.72	5.72
239	-15.50	26.5	544.4	0.28	0.72	5.72
240	-15.50	26.5	545.6	0.28	0.72	5.72
241	-15.56	26.6	548.1	0.28	0.72	5.72
242	-15.62	26.8	551.5	0.28	0.72	5.72
243	-15.67	27.0	554.9	0.28	0.72	5.72
244	-15.73	27.1	558.2	0.28	0.72	5.72
245	-15.79	27.3	560.8	0.28	0.71	5.72
246	-15.79	27.3	561.7	0.28	0.71	5.72
247	-15.80	27.3	562.1	0.28	0.71	5.72
248	-15.81	27.3	562.5	0.28	0.71	5.72
249	-15.81	27.4	563.0	0.28	0.71	5.72
250	-15.82	27.4	563.5	0.28	0.71	5.72
251	-15.83	27.4	563.8	0.28	0.71	5.72
252	-15.83	27.4	564.1	0.28	0.71	5.72
253	-15.84	27.5	564.6	0.28	0.71	5.72
254	-15.85	27.5	565.3	0.28	0.71	5.72
255	-15.87	27.5	566.0	0.28	0.71	5.72
256	-15.88	27.6	566.7	0.28	0.71	5.72
257	-15.89	27.6	567.2	0.28	0.71	5.72
258	-15.89	27.6	567.7	0.28	0.71	5.72
259	-15.91	27.7	568.7	0.28	0.71	5.72
260	-15.93	27.7	570.0	0.28	0.71	5.72
261	-15.96	27.8	571.3	0.28	0.71	5.72
262	-15.98	27.8	572.5	0.28	0.71	5.72
263	-16.00	27.9	573.5	0.28	0.71	5.73
264	-16.00	32.2	361.6	0.32	0.71	3.61
265	-16.02	32.3	361.9	0.32	0.83	3.61
266	-16.04	32.3	362.4	0.32	0.83	3.61
267	-16.06	32.4	362.9	0.32	0.83	3.61
268	-16.08	32.5	363.3	0.32	0.83	3.61
269	-16.10	32.5	363.7	0.32	0.32	3.61

15.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	36.38
3 Klei/zand (NZ)	201.83
4 Zand (NZ)	132.46
5 Klei (NZ)	125.08
6 zandlaag 1 (NZ)	180.00
7 klei (NZ)	7.95
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

15.4 Invoergegevens Rechts

15.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

15.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

15.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

15.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

15.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	6.0	0.28	0.74	5.74
2	0.78	0.6	12.0	0.28	0.74	5.74
3	0.72	0.9	18.1	0.28	0.74	5.73
4	0.66	1.2	24.1	0.28	0.74	5.73
5	0.60	1.4	28.6	0.28	0.74	5.73
6	0.60	1.5	31.1	0.28	0.74	5.73
7	0.56	1.7	34.1	0.28	0.73	5.73
8	0.52	1.9	38.2	0.28	0.73	5.72
9	0.48	2.1	42.2	0.28	0.72	5.72
10	0.44	2.2	46.2	0.28	0.72	5.72
11	0.40	2.4	49.2	0.28	0.72	5.72
12	0.40	2.5	51.2	0.28	0.72	5.71
13	0.36	2.6	54.2	0.28	0.72	5.71
14	0.32	2.8	58.2	0.28	0.71	5.71
15	0.28	3.0	62.2	0.28	0.71	5.70
16	0.24	3.2	66.3	0.28	0.71	5.70
17	0.20	3.4	69.3	0.28	0.71	5.70
18	0.20	3.4	70.4	0.28	0.71	5.70
19	0.19	3.5	70.9	0.28	0.71	5.70
20	0.19	3.5	71.5	0.28	0.71	5.69
21	0.18	3.5	72.1	0.28	0.71	5.69
22	0.18	3.5	72.7	0.28	0.71	5.69
23	0.17	3.6	73.1	0.28	0.70	5.69
24	0.17	3.7	75.1	0.28	0.70	5.69
25	0.10	3.9	80.7	0.28	0.70	5.68
26	0.02	4.3	88.2	0.28	0.71	5.67
27	-0.05	4.7	95.6	0.28	0.71	5.67
28	-0.13	5.0	106.3	0.28	0.70	5.84
29	-0.20	5.3	116.8	0.27	0.70	6.04
30	-0.20	5.4	121.7	0.27	0.70	6.15
31	-0.23	5.4	125.1	0.27	0.70	6.26
32	-0.25	5.5	129.7	0.27	0.70	6.40
33	-0.28	5.6	134.8	0.27	0.70	6.57
34	-0.30	5.7	140.2	0.27	0.70	6.74
35	-0.33	5.7	144.5	0.27	0.70	6.88
36	-0.33	5.7	146.7	0.27	0.70	6.95
37	-0.34	5.8	149.3	0.27	0.70	7.03
38	-0.36	5.8	152.6	0.27	0.70	7.14

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
39	-0.37	5.8	156.2	0.27	0.70	7.25
40	-0.39	5.9	159.8	0.27	0.70	7.37
41	-0.40	5.9	162.4	0.27	0.70	7.45
42	-0.40	5.9	166.3	0.27	0.70	7.58
43	-0.44	6.0	175.2	0.27	0.70	7.87
44	-0.48	6.1	188.0	0.27	0.70	8.29
45	-0.52	6.2	202.6	0.27	0.70	8.76
46	-0.56	6.4	218.5	0.27	0.70	9.28
47	-0.60	6.4	232.1	0.27	0.70	9.72
48	-0.60	6.6	255.5	0.27	0.70	10.48
49	-0.75	6.9	328.1	0.27	0.70	12.83
50	-0.89	7.3	479.6	0.27	0.70	17.63
51	-1.04	7.6	409.3	0.27	0.69	14.20
52	-1.18	8.0	276.1	0.26	0.69	9.06
53	-1.33	8.3	280.5	0.26	0.68	8.84
54	-1.33	8.5	282.7	0.26	0.68	8.76
55	-1.38	8.6	284.5	0.26	0.68	8.69
56	-1.44	8.7	286.9	0.26	0.68	8.60
57	-1.49	8.9	289.4	0.26	0.68	8.52
58	-1.55	9.0	292.0	0.26	0.67	8.44
59	-1.60	9.1	293.9	0.26	0.67	8.38
60	-1.60	9.2	295.2	0.26	0.67	8.35
61	-1.65	9.3	296.8	0.26	0.67	8.30
62	-1.69	9.4	299.1	0.26	0.66	8.25
63	-1.74	9.5	301.4	0.26	0.66	8.19
64	-1.78	9.7	303.7	0.26	0.66	8.13
65	-1.83	9.8	305.5	0.26	0.66	8.09
66	-1.83	9.8	306.5	0.26	0.66	8.07
67	-1.86	9.9	307.8	0.26	0.66	8.04
68	-1.90	10.0	309.5	0.26	0.66	8.01
69	-1.93	10.1	311.3	0.26	0.65	7.97
70	-1.97	10.2	313.0	0.26	0.65	7.94
71	-2.00	10.2	314.3	0.26	0.65	7.94
72	-2.00	2.8	148.2	0.08	0.65	4.35
73	-2.03	2.8	148.4	0.16	1.00	8.58
74	-2.06	2.9	148.7	0.16	1.00	8.52
75	-2.09	2.9	148.9	0.17	1.00	8.45
76	-2.12	6.1	149.2	0.34	0.99	8.39
77	-2.15	7.3	149.4	0.40	0.99	8.34
78	-2.15	7.2	149.5	0.40	0.99	8.32
79	-2.16	7.2	149.6	0.40	0.99	8.30
80	-2.17	7.2	149.6	0.40	0.99	8.28
81	-2.18	7.2	149.7	0.40	0.99	8.26
82	-2.19	7.2	149.8	0.40	0.98	8.24
83	-2.20	7.3	149.9	0.40	0.98	8.23
84	-2.20	7.3	150.0	0.40	0.98	8.21
85	-2.23	7.3	150.1	0.40	0.98	8.17
86	-2.25	7.4	150.4	0.40	0.98	8.12
87	-2.28	7.4	150.6	0.40	0.97	8.07
88	-2.30	7.5	150.8	0.40	0.97	8.02
89	-2.33	7.5	151.0	0.40	0.97	7.98
90	-2.33	7.6	151.2	0.40	0.97	7.95
91	-2.38	7.6	151.6	0.40	0.96	7.87
92	-2.44	7.8	152.0	0.40	0.96	7.78
93	-2.49	7.9	152.5	0.40	0.95	7.68
94	-2.55	8.0	153.0	0.40	0.94	7.60
95	-2.60	8.1	153.4	0.40	0.94	7.53
96	-2.60	8.1	153.7	0.40	0.94	7.48
97	-2.68	8.2	154.2	0.39	0.93	7.38
98	-2.76	8.4	154.9	0.39	0.92	7.27
99	-2.84	8.6	155.7	0.39	0.91	7.15
100	-2.92	8.7	156.4	0.39	0.91	7.05
101	-3.00	8.8	156.9	0.39	0.90	6.97
102	-3.00	8.9	157.4	0.39	0.90	6.90

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
103	-3.12	9.1	112.4	0.39	0.89	4.83
104	-3.24	9.4	101.9	0.39	0.88	4.26
105	-3.36	9.6	102.9	0.39	0.87	4.19
106	-3.48	9.8	103.9	0.39	0.86	4.12
107	-3.60	10.0	104.6	0.39	0.85	4.08
108	-3.60	10.1	105.1	0.39	0.85	4.04
109	-3.72	10.3	105.9	0.39	0.84	4.00
110	-3.85	10.5	106.9	0.39	0.83	3.94
111	-3.97	10.8	107.9	0.39	0.82	3.89
112	-4.09	11.0	109.0	0.39	0.81	3.84
113	-4.21	11.2	109.7	0.39	0.81	3.80
114	-4.21	11.3	110.2	0.39	0.81	3.78
115	-4.34	11.5	111.0	0.39	0.80	3.74
116	-4.46	11.7	112.0	0.39	0.79	3.70
117	-4.58	11.9	113.0	0.39	0.79	3.66
118	-4.71	12.1	114.0	0.39	0.78	3.62
119	-4.83	12.3	114.8	0.39	0.77	3.59
120	-4.83	12.4	115.1	0.39	0.77	3.58
121	-4.86	12.4	115.3	0.39	0.77	3.57
122	-4.90	12.5	115.6	0.38	0.77	3.56
123	-4.93	12.6	115.9	0.38	0.77	3.55
124	-4.97	12.6	116.2	0.38	0.77	3.54
125	-5.00	12.7	116.4	0.38	0.77	3.53
126	-5.00	15.8	283.0	0.41	0.77	7.29
127	-5.07	16.0	284.5	0.28	0.60	5.07
128	-5.13	16.1	286.5	0.29	0.60	5.06
129	-5.20	16.3	288.6	0.29	0.60	5.05
130	-5.26	16.5	290.6	0.29	0.60	5.04
131	-5.33	16.6	292.2	0.29	0.60	5.04
132	-5.33	16.6	293.5	0.28	0.60	5.03
133	-5.43	19.9	295.8	0.34	0.60	5.02
134	-5.53	20.2	298.9	0.34	0.59	5.01
135	-5.63	20.4	302.0	0.34	0.59	4.99
136	-5.73	20.6	305.1	0.34	0.59	4.98
137	-5.83	20.8	307.4	0.34	0.59	4.97
138	-5.83	21.0	309.2	0.34	0.59	4.96
139	-5.96	21.2	312.3	0.34	0.59	4.95
140	-6.10	21.5	326.7	0.34	0.58	5.10
141	-6.23	21.8	359.5	0.34	0.58	5.52
142	-6.36	22.1	363.6	0.33	0.58	5.50
143	-6.50	22.4	366.7	0.33	0.58	5.48
144	-6.50	22.5	368.8	0.33	0.58	5.47
145	-6.63	22.7	371.9	0.33	0.57	5.46
146	-6.76	23.0	376.0	0.33	0.57	5.44
147	-6.90	23.3	380.2	0.33	0.57	5.42
148	-7.03	23.6	384.3	0.33	0.57	5.40
149	-7.16	23.9	387.4	0.33	0.57	5.39
150	-7.16	24.0	389.5	0.33	0.57	5.38
151	-7.30	24.2	392.6	0.33	0.56	5.37
152	-7.43	24.5	396.7	0.33	0.56	5.35
153	-7.56	24.8	400.9	0.33	0.56	5.34
154	-7.70	25.1	405.0	0.33	0.56	5.32
155	-7.83	25.4	408.1	0.33	0.56	5.31
156	-7.83	25.5	409.7	0.33	0.56	5.30
157	-7.90	25.6	411.4	0.33	0.56	5.30
158	-7.98	25.8	413.7	0.33	0.56	5.29
159	-8.05	25.9	416.0	0.33	0.56	5.28
160	-8.13	26.1	418.3	0.33	0.56	5.28
161	-8.20	26.2	420.0	0.33	0.56	5.26
162	-8.20	27.1	485.4	0.34	0.56	6.03
163	-8.34	27.4	491.2	0.34	0.52	6.02
164	-8.47	27.8	498.9	0.34	0.52	6.01
165	-8.61	28.2	506.7	0.33	0.52	6.00
166	-8.74	27.0	514.4	0.31	0.52	5.98

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
167	-8.88	26.1	520.2	0.30	0.52	5.97
168	-8.88	26.4	523.6	0.30	0.52	5.97
169	-8.98	26.6	527.9	0.30	0.52	5.96
170	-9.08	26.9	533.6	0.30	0.51	5.96
171	-9.18	27.2	539.4	0.30	0.51	5.95
172	-9.28	27.5	551.4	0.30	0.51	6.01
173	-9.38	27.7	569.9	0.30	0.51	6.16
174	-9.38	27.8	571.3	0.30	0.51	6.15
175	-9.38	27.8	571.4	0.30	0.51	6.15
176	-9.38	27.8	571.5	0.30	0.51	6.15
177	-9.39	27.8	571.6	0.30	0.51	6.15
178	-9.39	27.8	571.7	0.30	0.51	6.15
179	-9.39	27.8	571.8	0.30	0.51	6.15
180	-9.39	27.8	572.1	0.30	0.51	6.15
181	-9.41	27.9	573.1	0.30	0.51	6.15
182	-9.43	28.0	574.3	0.30	0.51	6.15
183	-9.46	28.0	575.6	0.30	0.51	6.15
184	-9.48	28.1	576.8	0.30	0.51	6.14
185	-9.50	28.1	577.7	0.30	0.51	6.14
186	-9.50	28.2	578.9	0.30	0.51	6.14
187	-9.56	28.3	581.3	0.30	0.51	6.14
188	-9.62	28.5	584.6	0.30	0.51	6.13
189	-9.67	28.7	587.9	0.30	0.51	6.13
190	-9.73	28.8	591.2	0.30	0.51	6.12
191	-9.79	28.9	593.7	0.30	0.51	6.12
192	-9.79	29.0	594.8	0.30	0.51	6.12
193	-9.81	29.0	595.5	0.30	0.51	6.11
194	-9.83	29.1	596.6	0.30	0.51	6.11
195	-9.84	29.1	597.6	0.30	0.51	6.11
196	-9.86	29.2	598.6	0.30	0.51	6.11
197	-9.88	29.2	599.4	0.30	0.51	6.11
198	-9.88	29.3	599.7	0.30	0.51	6.11
199	-9.88	29.3	599.7	0.30	0.51	6.11
200	-9.88	29.3	599.9	0.30	0.51	6.11
201	-9.89	29.3	600.0	0.30	0.51	6.11
202	-9.89	29.3	600.1	0.30	0.51	6.11
203	-9.89	29.3	600.2	0.30	0.51	6.11
204	-9.89	29.3	601.3	0.30	0.51	6.11
205	-9.97	29.5	604.8	0.30	0.51	6.10
206	-10.05	29.7	609.3	0.30	0.51	6.09
207	-10.13	30.0	613.9	0.30	0.51	6.09
208	-10.21	30.2	618.5	0.30	0.51	6.08
209	-10.29	30.4	621.9	0.30	0.51	6.08
210	-10.29	30.5	623.3	0.30	0.51	6.08
211	-10.31	30.5	624.1	0.30	0.51	6.07
212	-10.33	30.5	625.1	0.30	0.51	6.07
213	-10.34	30.6	626.1	0.30	0.51	6.07
214	-10.36	30.7	627.2	0.30	0.51	6.07
215	-10.38	30.7	627.9	0.30	0.51	6.07
216	-10.38	30.7	628.2	0.30	0.51	6.07
217	-10.38	30.7	628.3	0.30	0.51	6.07
218	-10.38	30.7	628.4	0.30	0.51	6.07
219	-10.39	30.7	628.5	0.30	0.51	6.07
220	-10.39	30.7	628.7	0.30	0.51	6.07
221	-10.39	30.7	628.7	0.30	0.51	6.07
222	-10.39	30.8	629.9	0.30	0.51	6.07
223	-10.47	31.0	633.5	0.30	0.51	6.06
224	-10.55	31.2	638.2	0.30	0.51	6.06
225	-10.64	31.4	642.9	0.30	0.51	6.05
226	-10.72	31.7	647.6	0.30	0.51	6.05
227	-10.80	31.9	651.1	0.30	0.51	6.06
228	-10.80	33.2	534.6	0.31	0.51	4.96
229	-10.81	33.2	534.8	0.31	0.55	4.96
230	-10.81	33.2	534.9	0.31	0.55	4.96

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
231	-10.82	33.3	535.1	0.31	0.55	4.96
232	-10.82	33.3	535.3	0.31	0.55	4.96
233	-10.83	33.3	535.4	0.31	0.55	4.96
234	-10.83	33.3	536.1	0.31	0.55	4.96
235	-10.92	33.5	538.1	0.31	0.55	4.96
236	-11.01	33.7	540.8	0.31	0.55	4.95
237	-11.11	33.9	543.5	0.31	0.55	4.95
238	-11.20	34.1	546.2	0.31	0.55	4.94
239	-11.29	34.2	548.2	0.31	0.55	4.94
240	-11.29	34.3	549.0	0.31	0.55	4.94
241	-11.31	34.3	549.4	0.31	0.55	4.94
242	-11.33	34.4	549.9	0.31	0.55	4.93
243	-11.34	34.4	550.4	0.31	0.55	4.93
244	-11.36	34.5	550.9	0.31	0.55	4.93
245	-11.38	34.5	551.3	0.31	0.55	4.93
246	-11.38	34.5	551.5	0.31	0.55	4.93
247	-11.38	34.5	551.5	0.31	0.55	4.93
248	-11.38	34.5	551.6	0.31	0.55	4.93
249	-11.39	34.5	551.6	0.31	0.55	4.93
250	-11.39	34.5	551.7	0.31	0.55	4.93
251	-11.39	34.5	551.7	0.31	0.55	4.93
252	-11.39	34.5	551.9	0.31	0.55	4.93
253	-11.41	34.6	552.4	0.31	0.55	4.93
254	-11.43	34.6	553.0	0.31	0.55	4.93
255	-11.46	34.7	553.7	0.31	0.55	4.93
256	-11.48	34.7	554.3	0.31	0.55	4.93
257	-11.50	34.7	554.8	0.31	0.55	4.93
258	-11.50	34.8	555.5	0.31	0.55	4.92
259	-11.58	34.9	557.2	0.31	0.55	4.92
260	-11.66	35.1	559.5	0.31	0.55	4.92
261	-11.73	35.3	561.7	0.31	0.55	4.91
262	-11.81	35.4	564.0	0.31	0.55	4.91
263	-11.89	35.6	552.7	0.31	0.55	4.79
264	-11.89	35.7	542.3	0.31	0.55	4.69
265	-11.97	35.8	544.0	0.31	0.55	4.69
266	-12.05	36.0	546.3	0.31	0.55	4.69
267	-12.13	36.1	548.6	0.31	0.55	4.68
268	-12.21	36.2	551.0	0.31	0.55	4.68
269	-12.29	35.7	552.7	0.30	0.30	4.68
270	-12.29	35.9	553.4	0.30	0.56	4.68
271	-12.31	35.9	553.8	0.30	0.56	4.68
272	-12.33	36.0	554.3	0.30	0.56	4.68
273	-12.34	36.0	554.8	0.30	0.56	4.68
274	-12.36	36.1	555.3	0.30	0.56	4.68
275	-12.38	36.1	555.7	0.30	0.56	4.68
276	-12.38	36.1	555.9	0.30	0.56	4.68
277	-12.38	36.1	555.9	0.30	0.56	4.68
278	-12.38	36.1	556.0	0.30	0.56	4.68
279	-12.39	36.1	556.0	0.30	0.56	4.68
280	-12.39	36.1	556.1	0.30	0.56	4.68
281	-12.39	36.1	556.1	0.30	0.56	4.68
282	-12.39	36.1	556.3	0.30	0.56	4.68
283	-12.41	36.2	556.8	0.30	0.56	4.68
284	-12.43	36.2	557.4	0.30	0.56	4.67
285	-12.46	36.3	558.1	0.30	0.56	4.67
286	-12.48	36.3	558.7	0.30	0.56	4.67
287	-12.50	36.4	559.2	0.30	0.56	4.67
288	-12.50	36.4	559.8	0.30	0.56	4.67
289	-12.56	36.5	561.0	0.30	0.56	4.67
290	-12.62	36.6	562.7	0.30	0.56	4.67
291	-12.67	36.7	564.4	0.30	0.56	4.67
292	-12.73	36.9	566.0	0.30	0.56	4.66
293	-12.79	37.0	567.3	0.30	0.56	4.66
294	-12.79	37.0	568.3	0.30	0.56	4.66

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
295	-12.87	37.2	570.1	0.30	0.56	4.66
296	-12.95	37.4	572.5	0.30	0.56	4.66
297	-13.04	37.5	574.8	0.30	0.56	4.66
298	-13.12	37.7	577.2	0.30	0.56	4.65
299	-13.20	37.8	579.0	0.30	0.56	4.64
300	-13.20	35.9	721.0	0.29	0.56	5.77
301	-13.23	36.0	722.2	0.29	0.51	5.77
302	-13.25	36.0	723.7	0.29	0.51	5.77
303	-13.28	36.1	725.2	0.29	0.51	5.77
304	-13.30	40.8	726.7	0.32	0.51	5.77
305	-13.33	26.9	727.8	0.21	0.51	5.77
306	-13.33	38.5	730.3	0.30	0.51	5.77
307	-13.48	36.8	736.6	0.29	0.51	5.76
308	-13.62	36.8	745.1	0.28	0.51	5.76
309	-13.77	36.6	753.5	0.28	0.51	5.76
310	-13.91	37.9	762.0	0.29	0.51	5.76
311	-14.06	38.3	768.3	0.29	0.51	5.75
312	-14.06	38.5	772.6	0.29	0.51	5.75
313	-14.21	38.8	781.4	0.29	0.51	5.77
314	-14.35	39.2	812.3	0.29	0.51	5.93
315	-14.50	39.6	820.7	0.29	0.51	5.93
316	-14.64	40.0	829.1	0.29	0.51	5.92
317	-14.79	40.4	835.4	0.29	0.50	5.92
318	-14.79	40.5	837.8	0.29	0.50	5.92
319	-14.81	40.5	838.6	0.29	0.50	5.92
320	-14.83	40.6	839.6	0.29	0.50	5.92
321	-14.84	40.6	840.6	0.29	0.50	5.92
322	-14.86	40.7	841.7	0.29	0.50	5.92
323	-14.88	40.7	842.5	0.29	0.50	5.91
324	-14.88	40.7	843.1	0.29	0.50	5.91
325	-14.90	41.4	844.1	0.29	0.50	5.91
326	-14.93	41.3	845.5	0.29	0.50	5.91
327	-14.95	41.7	846.9	0.29	0.50	5.91
328	-14.98	41.8	848.3	0.29	0.50	5.91
329	-15.00	41.8	849.3	0.29	0.50	5.91
330	-15.00	41.9	850.8	0.29	0.50	5.91
331	-15.08	42.1	854.2	0.29	0.50	5.91
332	-15.16	42.3	858.7	0.29	0.50	5.91
333	-15.23	42.5	863.2	0.29	0.50	5.91
334	-15.31	42.7	867.7	0.29	0.50	5.90
335	-15.39	42.9	871.1	0.29	0.50	5.90
336	-15.39	43.0	872.5	0.29	0.50	5.90
337	-15.41	43.0	873.5	0.29	0.50	5.90
338	-15.43	43.1	874.7	0.29	0.50	5.90
339	-15.46	43.2	876.0	0.29	0.50	5.90
340	-15.48	43.2	877.3	0.29	0.50	5.90
341	-15.50	43.3	878.2	0.29	0.50	5.90
342	-15.50	43.3	879.4	0.29	0.50	5.90
343	-15.56	43.5	881.9	0.29	0.50	5.90
344	-15.62	43.6	885.3	0.29	0.50	5.90
345	-15.67	43.8	888.6	0.29	0.50	5.89
346	-15.73	43.9	892.0	0.29	0.50	5.89
347	-15.79	44.1	894.5	0.29	0.50	5.89
348	-15.79	44.1	895.5	0.29	0.50	5.89
349	-15.80	44.1	895.8	0.29	0.50	5.89
350	-15.81	44.2	896.3	0.29	0.50	5.89
351	-15.81	44.2	896.7	0.29	0.50	5.89
352	-15.82	44.2	897.2	0.29	0.50	5.89
353	-15.83	44.2	897.5	0.29	0.50	5.89
354	-15.83	44.2	897.8	0.29	0.50	5.89
355	-15.84	44.3	898.3	0.29	0.50	5.89
356	-15.85	44.3	899.0	0.29	0.50	5.89
357	-15.87	44.3	899.7	0.29	0.50	5.89
358	-15.88	44.4	900.4	0.29	0.50	5.89

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
359	-15.89	44.4	901.0	0.29	0.50	5.89
360	-15.89	44.4	901.4	0.29	0.50	5.89
361	-15.91	44.5	902.4	0.29	0.50	5.89
362	-15.93	44.5	903.7	0.29	0.50	5.89
363	-15.96	44.6	905.0	0.29	0.50	5.89
364	-15.98	44.7	906.2	0.29	0.50	5.89
365	-16.00	44.7	907.2	0.29	0.50	5.89
366	-16.00	53.6	596.8	0.35	0.50	3.87
367	-16.02	53.6	597.2	0.35	0.61	3.87
368	-16.04	53.7	597.6	0.35	0.61	3.87
369	-16.06	53.7	598.1	0.35	0.61	3.87
370	-16.08	53.8	598.6	0.35	0.61	3.87
371	-16.10	53.8	598.9	0.35	0.61	3.87

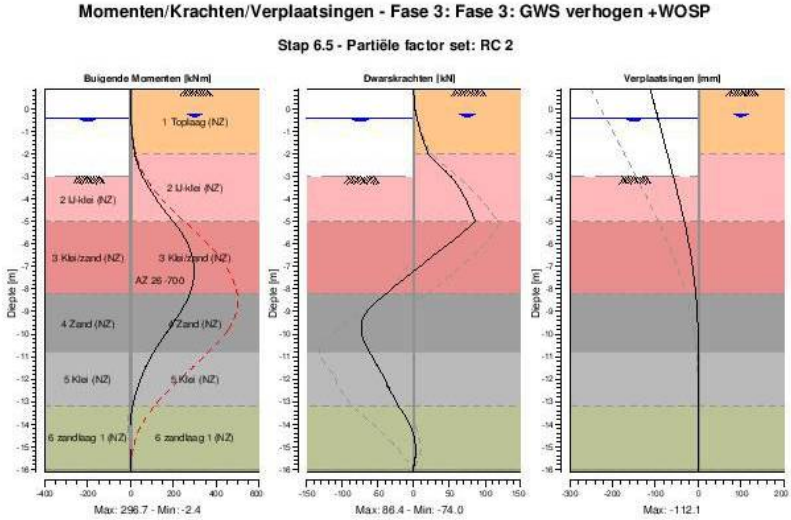
15.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.07
3 Klei/zand (NZ)	71.43
4 Zand (NZ)	103.61
5 Klei (NZ)	160.31
6 zandlaag 1 (NZ)	195.05
7 klei (NZ)	8.93
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

15.7 Berekeningsresultaten

Aantal iteraties: 4

15.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



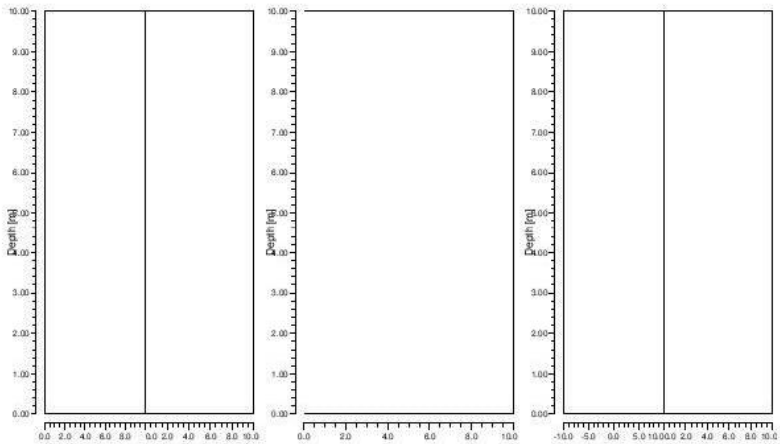
15.7.2 Momenten, Krachten en Verplaatsingen

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-112.1**
1	0.60	0.02	0.22	-107.9
2	0.60	0.02	0.22	-107.9
2	0.40	0.10	0.61	-105.1
3	0.40	0.10	0.61	-105.1
3	0.20	0.28	1.20	-102.3
4	0.20	0.28	1.20	-102.3
4	0.17	0.32	1.30	-101.9
5	0.17	0.32	1.30	-101.9
5	-0.20	1.08	2.95	-96.7
6	-0.20	1.08	2.95	-96.7
6	-0.33	1.52	3.75	-94.9
7	-0.33	1.52	3.75	-94.9
7	-0.40	1.80	4.27	-93.9
8	-0.40	1.80	4.27	-93.9
8	-0.60	2.81	5.90	-91.1
9	-0.60	2.81	5.90	-91.1
9	-1.33	9.53	12.74	-80.9
10	-1.33	9.53	12.74	-80.9
10	-1.60	13.36	15.63	-77.2
11	-1.60	13.36	15.63	-77.2
11	-1.83	17.25	18.26	-74.0
12	-1.83	17.25	18.26	-74.0
12	-2.00	20.53	20.29	-71.6
13	-2.00	20.53	20.29	-71.6
13	-2.15	23.88	24.53	-69.5
14	-2.15	23.88	24.53	-69.5
14	-2.20	25.14	26.11	-68.8
15	-2.20	25.14	26.11	-68.8
15	-2.33	28.81	30.26	-67.0
16	-2.33	28.81	30.26	-67.0
16	-2.60	38.15	38.98	-63.3
17	-2.60	38.15	38.98	-63.3
17	-3.00	56.37	52.16	-57.8
18	-3.00	56.37	52.16	-57.8
18	-3.60	91.92	65.42	-49.8
19	-3.60	91.92	65.42	-49.8
19	-4.21	135.49	75.85	-41.8
20	-4.21	135.49	75.85	-41.8
20	-4.83	184.76	84.21	-34.2
21	-4.83	184.76	84.21	-34.2
21	-5.00	199.26	**86.35**	-32.2
22	-5.00	199.26	**86.35**	-32.2
22	-5.33	225.84	74.55	-28.5
23	-5.33	225.84	74.55	-28.5
23	-5.83	258.51	55.77	-23.2
24	-5.83	258.51	55.76	-23.2
24	-6.50	286.57	28.57	-16.9
25	-6.50	286.57	28.55	-16.9
25	-7.16	**296.68**	1.85	-11.6
26	-7.16	**296.68**	1.83	-11.6
26	-7.83	288.91	-25.10	-7.4
27	-7.83	288.91	-25.16	-7.4
27	-8.20	277.15	-37.88	-5.5
28	-8.20	277.15	-37.90	-5.5
28	-8.88	242.50	-62.08	-2.8
29	-8.88	242.50	-62.09	-2.8
29	-9.38	208.50	-72.31	-1.4
30	-9.38	208.50	-72.31	-1.4
30	-9.39	207.78	-72.42	-1.4
31	-9.39	207.78	-72.42	-1.4
31	-9.50	199.75	-73.34	-1.1

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
32	-9.50	199.75	-73.34	-1.1
32	-9.79	178.34	-73.93	-0.6
33	-9.79	178.34	-73.93	-0.6
33	-9.88	171.70	-73.63	-0.4
34	-9.88	171.70	-73.63	-0.4
34	-9.89	170.96	-73.59	-0.4
35	-9.89	170.96	-73.59	-0.4
35	-10.29	142.13	-70.00	0.1
36	-10.29	142.13	-70.00	0.1
36	-10.38	135.89	-68.78	0.2
37	-10.38	135.89	-68.78	0.2
37	-10.39	135.20	-68.63	0.3
38	-10.39	135.20	-68.63	0.3
38	-10.80	108.42	-61.66	0.6
39	-10.80	108.42	-61.66	0.6
39	-10.83	106.58	-61.17	0.6
40	-10.83	106.58	-61.16	0.6
40	-11.29	80.25	-53.23	0.8
41	-11.29	80.25	-53.23	0.8
41	-11.38	75.53	-51.64	0.8
42	-11.38	75.53	-51.64	0.8
42	-11.39	75.02	-51.46	0.8
43	-11.39	75.02	-51.46	0.8
43	-11.50	69.46	-49.51	0.8
44	-11.50	69.46	-49.51	0.8
44	-11.89	51.50	-42.62	0.8
45	-11.89	51.50	-42.62	0.8
45	-12.29	35.80	-36.95	0.8
46	-12.29	35.80	-36.95	0.8
46	-12.38	32.54	-35.34	0.7
47	-12.38	32.54	-35.34	0.7
47	-12.39	32.19	-35.16	0.7
48	-12.39	32.19	-35.16	0.7
48	-12.50	28.43	-33.21	0.7
49	-12.50	28.43	-33.21	0.7
49	-12.79	19.53	-28.26	0.6
50	-12.79	19.53	-28.26	0.6
50	-13.20	9.30	-21.71	0.5
51	-13.20	9.30	-21.71	0.5
51	-13.33	6.69	-18.54	0.4
52	-13.33	6.69	-18.54	0.4
52	-14.06	-1.46	-4.91	0.2
53	-14.06	-1.46	-4.91	0.2
53	-14.79	-2.15	1.92	-0.1
54	-14.79	-2.15	1.92	-0.1
54	-14.88	-1.96	2.30	-0.2
55	-14.88	-1.96	2.30	-0.2
55	-15.00	-1.66	2.65	-0.2
56	-15.00	-1.66	2.65	-0.2
56	-15.39	-0.58	2.59	-0.3
57	-15.39	-0.58	2.59	-0.3
57	-15.50	-0.31	2.24	-0.4
58	-15.50	-0.31	2.24	-0.4
58	-15.79	0.13	0.63	-0.5
59	-15.79	0.13	0.63	-0.5
59	-15.83	0.15	0.32	-0.5
60	-15.83	0.15	0.32	-0.5
60	-15.89	0.15	-0.17	-0.5
61	-15.89	0.15	-0.17	-0.5
61	-16.00	0.08	-1.17	-0.6
62	-16.00	0.08	-1.17	-0.6
62	-16.10	0.00	0.00	-0.6
Max		**296.68**	**86.35**	**-112.1**
Max incl. tussenknopen		296.68	86.35	-112.1

15.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



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	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.39	0.00	A	
2	0.60	0.00	0.00	-		1.52	0.00	A	
2	0.40	0.00	0.00	-		2.40	0.00	A	
3	0.40	0.00	0.00	-		2.49	0.00	A	
3	0.20	0.00	0.00	-		3.37	0.00	A	
4	0.20	0.00	0.00	-		3.43	0.00	A	
4	0.17	0.00	0.00	-		3.56	0.00	A	
5	0.17	0.00	0.00	-		3.66	0.00	A	
5	-0.20	0.00	0.00	-		5.26	0.00	A	
6	-0.20	0.00	0.00	-		5.36	0.00	A	
6	-0.33	0.00	0.00	-		5.67	1.28	A	
7	-0.33	0.00	0.00	-		5.70	1.28	A	
7	-0.40	0.00	0.00	-		5.87	1.96	A	
8	-0.40	0.00	0.00	-		5.91	1.96	A	
8	-0.60	0.00	1.96	-		6.39	3.92	A	
9	-0.60	0.00	1.96	-		6.52	3.92	A	
9	-1.33	0.00	9.12	-		8.30	11.09	A	
10	-1.33	0.00	9.12	-		8.44	11.09	A	
10	-1.60	0.00	11.77	-		9.09	13.73	A	
11	-1.60	0.00	11.77	-		9.16	13.73	A	
11	-1.83	0.00	14.03	-		9.72	15.99	A	
12	-1.83	0.00	14.03	-		9.78	15.99	A	
12	-2.00	0.00	15.70	-		10.23	17.66	A	
13	-2.00	0.00	15.70	-		1.41	40.16	A	
13	-2.15	0.00	17.17	-		7.28	41.63	A	
14	-2.15	0.00	17.17	-		7.24	41.63	A	
14	-2.20	0.00	17.66	-		7.27	42.12	A	
15	-2.20	0.00	17.66	-		7.29	42.12	A	
15	-2.33	0.00	18.93	-		7.54	43.40	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]		[%]
16	-2.33	0.00	18.93	-		7.58	43.40	A	
16	-2.60	0.00	21.58	-		8.08	46.04	A	
17	-2.60	0.00	21.58	-		8.15	46.04	A	
17	-3.00	0.00	25.51	-		8.87	49.97	A	
18	-3.00	0.00	25.51	P		8.97	49.97	A	
18	-3.60	15.25	31.39	P		10.02	55.85	A	
19	-3.60	15.77	31.39	P		10.14	55.85	A	
19	-4.21	20.55	37.43	P		11.19	61.89	A	
20	-4.21	21.08	37.43	P		11.30	61.89	A	
20	-4.83	23.87	43.46	3	92	12.33	67.92	A	
21	-4.83	24.11	43.46	3	92	12.40	67.92	A	
21	-5.00	24.53	45.13	3	90	12.66	69.59	A	
22	-5.00	54.95	45.13	3	90	22.72	47.09	A	
22	-5.33	55.63	48.36	3	87	16.56	50.33	A	
23	-5.33	56.35	48.36	3	87	16.61	50.33	A	
23	-5.83	62.80	53.27	3	81	20.80	55.23	A	
24	-5.83	63.99	53.27	3	81	20.94	55.23	A	
24	-6.50	64.15	59.81	2	66	22.34	61.77	A	
25	-6.50	65.04	59.81	2	65	22.49	61.77	A	
25	-7.16	65.56	66.35	2	56	23.85	68.31	A	
26	-7.16	66.44	66.35	2	55	24.00	68.31	A	
26	-7.83	65.76	72.89	1	47	25.34	74.85	A	
27	-7.83	66.14	72.89	1	47	25.46	74.85	A	
27	-8.20	58.19	76.52	1	39	26.13	78.48	A	
28	-8.20	75.26	76.52	1	45	27.02	78.48	A	
28	-8.88	56.49	83.19	1	28	26.02	85.15	A	
29	-8.88	57.07	83.19	1	28	26.32	85.15	A	
29	-9.38	48.61	88.09	1	21	36.00	90.06	1	
30	-9.38	48.85	88.09	1	21	36.14	90.06	1	
30	-9.39	48.71	88.19	1	21	36.37	90.15	1	
31	-9.39	48.77	88.19	1	21	36.40	90.15	1	
31	-9.50	47.38	89.27	1	20	38.89	91.23	1	
32	-9.50	47.56	89.27	1	20	39.00	91.23	1	
32	-9.79	44.60	92.12	1	17	44.84	94.08	1	
33	-9.79	44.77	92.12	1	17	44.94	94.08	1	
33	-9.88	44.04	93.00	1	17	46.43	94.96	1	
34	-9.88	44.09	93.00	1	17	46.46	94.96	1	
34	-9.89	44.01	93.10	1	17	46.67	95.06	1	
35	-9.89	44.20	93.10	1	17	46.78	95.06	1	
35	-10.29	42.01	97.02	1		52.93	98.98	1	9
36	-10.29	42.23	97.02	1		53.06	98.98	1	9
36	-10.38	41.94	97.90	1		54.30	99.87	1	9
37	-10.38	41.98	97.90	1		54.33	99.87	1	9
37	-10.39	41.96	98.00	1		54.47	99.96	1	9
38	-10.39	42.14	98.00	1		54.58	99.96	1	9
38	-10.80	41.92	102.02	1		58.97	103.99	1	9
39	-10.80	44.42	102.02	1		56.77	103.99	1	11
39	-10.83	47.43	102.32	1		62.12	104.28	1	12
40	-10.83	47.57	102.32	1		62.22	104.28	1	12
40	-11.29	48.66	106.83	1		64.38	108.79	1	12
41	-11.29	48.83	106.83	1		64.49	108.79	1	12
41	-11.38	49.10	107.71	1		64.88	109.68	1	12
42	-11.38	49.13	107.71	1		64.90	109.68	1	12
42	-11.39	49.16	107.81	1		64.94	109.77	1	12
43	-11.39	49.20	107.81	1		64.96	109.77	1	12
43	-11.50	49.56	108.89	1		65.37	110.85	1	12
44	-11.50	49.71	108.89	1		65.47	110.85	1	12
44	-11.89	51.18	112.72	1		66.74	114.68	1	12
45	-11.89	51.41	112.72	1		66.90	114.68	1	12
45	-12.29	53.14	116.64	1		38.73	118.60	1	7
46	-12.29	53.28	116.64	1		69.40	118.60	1	13
46	-12.38	53.69	117.52	1		69.60	119.49	1	13
47	-12.38	53.72	117.52	1		69.62	119.49	1	13
47	-12.39	53.77	117.62	1		69.64	119.58	1	13

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	-12.39	53.80	117.62	1		69.66	119.58	1	13
48	-12.50	54.32	118.70	1		69.89	120.66	1	13
49	-12.50	54.43	118.70	1		69.97	120.66	1	13
49	-12.79	55.83	121.55	1		70.52	123.51	1	12
50	-12.79	56.03	121.55	1		70.66	123.51	1	12
50	-13.20	57.82	125.57	1		71.36	127.53	1	12
51	-13.20	52.13	125.57	1		77.33	127.53	1	11
51	-13.33	49.70	126.84	1		71.11	128.81	1	10
52	-13.33	50.04	126.84	1		71.34	128.81	1	10
52	-14.06	57.92	134.00	1		70.02	135.97	1	9
53	-14.06	58.49	134.00	1		70.41	135.97	1	9
53	-14.79	66.25	141.17	1	13	69.16	143.13	1	
54	-14.79	66.56	141.17	1	13	69.37	143.13	1	
54	-14.88	67.50	142.05	1	13	69.23	144.01	1	
55	-14.88	67.58	142.05	1	13	69.28	144.01	1	
55	-15.00	68.83	143.23	1	13	69.10	145.19	1	
56	-15.00	69.02	143.23	1	13	69.23	145.19	1	
56	-15.39	73.07	147.05	1	14	68.64	149.01	1	
57	-15.39	73.25	147.05	1	14	68.77	149.01	1	
57	-15.50	74.39	148.13	1	14	68.61	150.09	1	
58	-15.50	74.54	148.13	1	14	68.71	150.09	1	
58	-15.79	77.53	150.98	1	14	68.29	152.94	1	
59	-15.79	77.65	150.98	1	14	68.37	152.94	1	
59	-15.83	78.06	151.37	1	14	68.31	153.33	1	
60	-15.83	78.09	151.37	1	14	68.34	153.33	1	
60	-15.89	78.71	151.96	1	14	68.25	153.92	1	
61	-15.89	78.77	151.96	1	14	68.30	153.92	1	
61	-16.00	79.95	153.04	1	14	68.13	155.00	1	
62	-16.00	73.80	153.04	1	20	74.39	155.00	1	
62	-16.10	35.40	154.02	1	10	91.09	155.98	1	

*

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

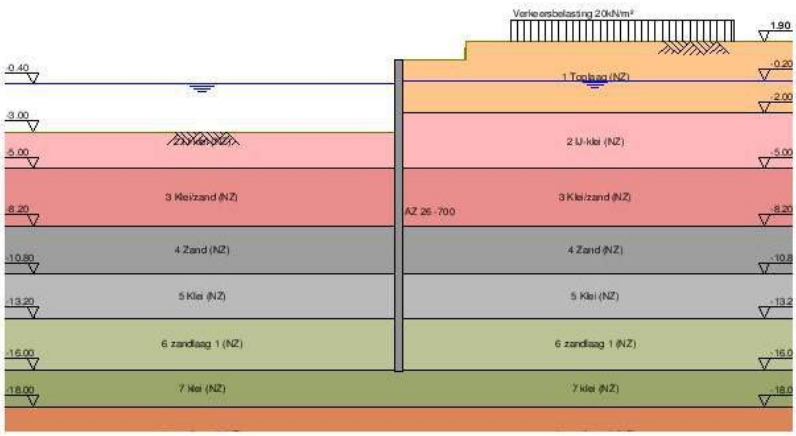
15.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	683.7	585.4
Water	1209.0	1307.5
Totaal	1892.7	1892.9

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	3101.84 kN
Gemobiliseerde passieve eff. weerstand	683.71 kN
Percentage gemobiliseerde weerstand	22.0 %

16 Overzicht Fase 4: Fase 3: Bovenbelasting

Overzicht - Fase 4: Fase 3: Bovenbelasting



17 Stap 6.3 Fase 4: Fase 3: Bovenbelasting

17.1 Invoergegevens Links

17.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

17.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

17.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

17.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

17.1.5 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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

17.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

17.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.78
3 Klei/zand (NZ)	216.79
4 Zand (NZ)	245.16
5 Klei (NZ)	139.50
6 zandlaag 1 (NZ)	161.88
7 klei (NZ)	7.76
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

17.4 Invoergegevens Rechts

17.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

17.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

17.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

17.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

17.4.5 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)	1.90	4615.38	4615.38	2307.69	2307.69
2 IJ-klei (NZ)	-2.00	1538.46	1538.46	769.23	769.23

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	3846.15	3846.15	1923.08	1923.08
4 Zand (NZ)	-8.20	6153.85	6153.85	3076.92	3076.92
5 Klei (NZ)	-10.80	3076.92	3076.92	1538.46	1538.46
6 zandlaag 1 (...	-13.20	12307.69	12307.69	6153.85	6153.85
7 klei (NZ)	-16.00	3846.15	3846.15	1923.08	1923.08
8 zandlaag 2 (...	-18.00	13846.15	13846.15	6923.08	6923.08
9 zandlaag 3 (...	-21.00	16923.08	16923.08	8461.54	8461.54

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1153.85	1153.85
2 IJ-klei (NZ)	-2.00	384.62	384.62
3 Klei/zand (NZ)	-5.00	961.54	961.54
4 Zand (NZ)	-8.20	1538.46	1538.46
5 Klei (NZ)	-10.80	769.23	769.23
6 zandlaag 1 (...	-13.20	3076.92	3076.92
7 klei (NZ)	-16.00	961.54	961.54
8 zandlaag 2 (...	-18.00	3461.54	3461.54
9 zandlaag 3 (...	-21.00	4230.77	4230.77

17.4.6 Bovenbelastingen

Naam	Afstand	Belasting
	[m]	[kN/m²]
Verkeersbelasting 20kN/m²	5.00	22.00
	15.00	22.00

17.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.31	3.26	3.95
2	0.78	0.7	8.9	0.31	2.12	4.07
3	0.72	1.0	13.4	0.32	1.72	4.10
4	0.66	1.4	17.9	0.32	1.52	4.12
5	0.60	1.6	21.2	0.32	1.39	4.13
6	0.60	1.8	23.1	0.32	1.39	4.13
7	0.56	2.0	25.3	0.32	1.33	4.13
8	0.52	2.2	28.3	0.32	1.28	4.13
9	0.48	2.4	31.2	0.32	1.24	4.13
10	0.44	2.6	34.2	0.32	1.20	4.13
11	0.40	2.8	36.4	0.32	1.17	4.13
12	0.40	2.9	37.9	0.32	1.17	4.13
13	0.36	3.1	40.2	0.32	1.14	4.13
14	0.32	3.3	43.1	0.32	1.12	4.13
15	0.28	3.6	46.1	0.32	1.10	4.12
16	0.24	3.8	49.1	0.32	1.08	4.12
17	0.20	4.0	51.3	0.32	1.07	4.12
18	0.20	4.0	52.2	0.32	1.07	4.12
19	0.19	4.1	52.5	0.32	1.06	4.12
20	0.19	4.1	53.0	0.32	1.06	4.12
21	0.18	4.1	53.4	0.32	1.06	4.12
22	0.18	4.2	53.9	0.32	1.05	4.11
23	0.17	4.2	54.2	0.32	1.05	4.11
24	0.17	4.3	55.7	0.32	1.05	4.11
25	0.10	4.6	59.8	0.32	1.02	4.11
26	0.02	5.1	65.3	0.32	1.01	4.10
27	-0.05	5.5	70.8	0.32	0.99	4.09
28	-0.13	5.9	76.3	0.32	0.98	4.08
29	-0.20	6.2	80.4	0.31	0.96	4.05
30	-0.20	6.4	82.1	0.31	0.96	4.04
31	-0.23	6.4	82.9	0.31	0.96	4.03

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-0.25	6.5	84.6	0.31	0.95	4.06
33	-0.28	6.6	86.9	0.31	0.95	4.11
34	-0.30	6.7	89.3	0.31	0.95	4.17
35	-0.33	6.7	91.2	0.31	0.94	4.22
36	-0.33	6.8	92.2	0.31	0.94	4.24
37	-0.34	6.8	93.3	0.31	0.94	4.27
38	-0.36	6.8	94.8	0.31	0.94	4.30
39	-0.37	6.9	96.3	0.31	0.93	4.34
40	-0.39	6.9	97.8	0.31	0.93	4.37
41	-0.40	7.0	98.9	0.31	0.92	4.40
42	-0.40	7.0	100.5	0.31	0.92	4.44
43	-0.44	7.1	104.1	0.31	0.92	4.53
44	-0.48	7.2	109.2	0.31	0.92	4.66
45	-0.52	7.4	114.8	0.31	0.91	4.80
46	-0.56	7.5	120.7	0.31	0.91	4.95
47	-0.60	7.6	125.5	0.31	0.91	5.08
48	-0.60	7.7	133.5	0.31	0.91	5.28
49	-0.75	8.1	155.7	0.30	0.90	5.86
50	-0.89	8.5	194.1	0.30	0.89	6.86
51	-1.04	9.0	247.5	0.30	0.88	8.23
52	-1.18	9.5	324.8	0.30	0.86	10.19
53	-1.33	9.8	405.7	0.30	0.85	12.20
54	-1.33	10.0	453.3	0.29	0.85	13.39
55	-1.38	10.1	498.4	0.29	0.84	14.50
56	-1.44	10.3	536.5	0.29	0.84	15.31
57	-1.49	10.5	363.1	0.29	0.83	10.16
58	-1.55	10.6	386.9	0.29	0.83	10.63
59	-1.60	10.8	405.7	0.29	0.82	10.99
60	-1.60	10.8	418.5	0.29	0.82	11.24
61	-1.65	10.9	436.1	0.29	0.81	11.58
62	-1.69	12.1	456.7	0.32	0.81	11.94
63	-1.74	15.0	437.1	0.39	0.80	11.26
64	-1.78	15.0	420.7	0.38	0.79	10.67
65	-1.83	15.1	411.4	0.38	0.79	10.32
66	-1.83	15.2	407.0	0.38	0.79	10.15
67	-1.86	15.3	402.2	0.38	0.78	9.95
68	-1.90	15.5	396.7	0.38	0.78	9.71
69	-1.93	15.6	392.2	0.38	0.78	9.50
70	-1.97	15.8	388.5	0.38	0.77	9.31
71	-2.00	15.9	386.1	0.38	0.77	9.21
72	-2.00	9.0	236.2	0.25	0.77	6.49
73	-2.03	9.0	235.6	0.46	1.13	11.98
74	-2.06	9.1	234.8	0.46	1.13	11.82
75	-2.09	9.2	234.1	0.46	1.12	11.67
76	-2.12	9.2	233.5	0.46	1.12	11.52
77	-2.15	9.3	233.0	0.45	1.11	11.41
78	-2.15	9.3	232.8	0.45	1.11	11.36
79	-2.16	9.3	232.7	0.45	1.11	11.33
80	-2.17	9.4	232.5	0.45	1.11	11.28
81	-2.18	9.4	232.3	0.45	1.10	11.24
82	-2.19	9.4	232.2	0.45	1.10	11.19
83	-2.20	9.4	232.0	0.45	1.10	11.16
84	-2.20	9.4	231.9	0.45	1.10	11.12
85	-2.23	9.5	231.6	0.45	1.09	11.03
86	-2.25	9.5	231.2	0.45	1.09	10.92
87	-2.28	9.6	230.8	0.45	1.08	10.81
88	-2.30	13.7	230.4	0.63	1.07	10.71
89	-2.33	13.7	230.2	0.63	1.07	10.63
90	-2.33	13.8	230.0	0.63	1.07	10.56
91	-2.38	13.9	229.5	0.63	1.06	10.40
92	-2.44	14.1	229.0	0.63	1.05	10.21
93	-2.49	14.3	228.5	0.63	1.04	10.03
94	-2.55	14.4	228.1	0.62	1.03	9.85
95	-2.60	14.6	227.8	0.62	1.02	9.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-2.60	14.7	227.7	0.62	1.02	9.63
97	-2.68	14.9	227.4	0.62	1.01	9.45
98	-2.76	15.1	227.1	0.61	1.00	9.23
99	-2.84	15.4	226.8	0.61	0.98	9.03
100	-2.92	15.6	226.7	0.61	0.97	8.83
101	-3.00	15.8	226.6	0.61	0.96	8.69
102	-3.00	15.9	226.6	0.60	0.96	8.58
103	-3.12	16.2	226.6	0.60	0.94	8.39
104	-3.24	16.6	226.7	0.60	0.93	8.16
105	-3.36	16.9	226.9	0.59	0.91	7.94
106	-3.48	17.2	212.9	0.59	0.89	7.25
107	-3.60	17.5	182.6	0.58	0.88	6.10
108	-3.60	17.7	134.2	0.58	0.88	4.42
109	-3.72	17.9	55.3	0.58	0.86	1.79
110	-3.85	18.2	56.3	0.57	0.85	1.77
111	-3.97	18.6	57.2	0.57	0.84	1.76
112	-4.09	18.9	58.1	0.57	0.83	1.75
113	-4.21	19.1	58.8	0.56	0.82	1.74
114	-4.21	19.3	59.2	0.56	0.82	1.73
115	-4.34	19.5	59.9	0.56	0.81	1.72
116	-4.46	19.8	60.8	0.56	0.80	1.71
117	-4.58	20.1	61.7	0.55	0.79	1.70
118	-4.71	23.7	62.6	0.64	0.78	1.69
119	-4.83	24.2	63.3	0.64	0.77	1.68
120	-4.83	24.3	63.6	0.64	0.77	1.68
121	-4.86	24.4	63.7	0.64	0.76	1.68
122	-4.90	24.5	64.0	0.64	0.76	1.68
123	-4.93	24.5	64.2	0.64	0.76	1.67
124	-4.97	24.6	64.5	0.64	0.75	1.67
125	-5.00	24.7	64.7	0.64	0.76	1.67
126	-5.00	27.8	191.3	0.62	0.76	4.28
127	-5.07	28.0	192.3	0.45	0.64	3.10
128	-5.13	28.2	193.6	0.45	0.64	3.09
129	-5.20	28.4	195.0	0.45	0.63	3.09
130	-5.26	28.6	196.3	0.45	0.63	3.08
131	-5.33	28.8	197.3	0.45	0.63	3.07
132	-5.33	28.9	198.1	0.45	0.63	3.07
133	-5.43	29.2	199.7	0.45	0.63	3.06
134	-5.53	29.5	201.7	0.45	0.62	3.05
135	-5.63	29.8	203.8	0.45	0.62	3.04
136	-5.73	30.1	205.8	0.44	0.61	3.04
137	-5.83	30.4	207.4	0.44	0.61	3.03
138	-5.83	30.6	208.6	0.44	0.61	3.03
139	-5.96	30.9	230.9	0.44	0.61	3.31
140	-6.10	31.3	237.5	0.44	0.60	3.35
141	-6.23	31.7	240.3	0.44	0.60	3.33
142	-6.36	32.1	243.1	0.44	0.60	3.32
143	-6.50	32.4	245.2	0.44	0.59	3.31
144	-6.50	32.6	246.6	0.44	0.59	3.31
145	-6.63	34.5	260.5	0.46	0.59	3.46
146	-6.76	37.2	280.9	0.49	0.59	3.67
147	-6.90	37.6	283.8	0.48	0.58	3.66
148	-7.03	38.0	286.8	0.48	0.58	3.64
149	-7.16	38.3	289.0	0.48	0.58	3.64
150	-7.16	38.5	292.2	0.48	0.58	3.65
151	-7.30	38.7	298.2	0.48	0.58	3.69
152	-7.43	39.1	306.3	0.48	0.57	3.74
153	-7.56	39.5	314.4	0.48	0.57	3.79
154	-7.70	39.9	322.9	0.47	0.57	3.84
155	-7.83	40.2	329.6	0.47	0.57	3.88
156	-7.83	39.8	332.7	0.47	0.57	3.90
157	-7.90	37.9	336.6	0.44	0.56	3.93
158	-7.98	37.8	341.7	0.44	0.56	3.96
159	-8.05	38.0	346.9	0.44	0.56	3.99

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-8.13	38.2	352.2	0.44	0.56	4.03
161	-8.20	38.4	355.4	0.44	0.56	4.04
162	-8.20	38.8	392.0	0.44	0.56	4.42
163	-8.34	39.1	396.4	0.44	0.53	4.41
164	-8.47	39.6	402.2	0.43	0.53	4.40
165	-8.61	40.1	408.0	0.43	0.53	4.39
166	-8.74	40.6	413.8	0.43	0.52	4.38
167	-8.88	41.0	418.2	0.43	0.52	4.38
168	-8.88	41.2	420.7	0.43	0.52	4.37
169	-8.98	41.5	424.0	0.43	0.52	4.37
170	-9.08	41.8	428.3	0.43	0.52	4.36
171	-9.18	42.2	432.6	0.42	0.52	4.36
172	-9.28	42.5	436.9	0.42	0.52	4.35
173	-9.38	42.8	440.1	0.42	0.52	4.35
174	-9.38	42.9	441.2	0.42	0.52	4.35
175	-9.38	42.9	441.2	0.42	0.52	4.35
176	-9.38	42.9	441.3	0.42	0.52	4.35
177	-9.39	42.9	441.4	0.42	0.52	4.35
178	-9.39	42.9	441.5	0.42	0.52	4.35
179	-9.39	42.9	441.6	0.42	0.52	4.35
180	-9.39	43.0	441.0	0.42	0.52	4.34
181	-9.41	43.0	448.1	0.42	0.52	4.40
182	-9.43	43.1	455.4	0.42	0.52	4.46
183	-9.46	43.2	456.3	0.42	0.52	4.46
184	-9.48	43.3	457.3	0.42	0.52	4.46
185	-9.50	43.3	458.0	0.42	0.52	4.46
186	-9.50	43.4	458.8	0.42	0.52	4.46
187	-9.56	43.5	460.7	0.42	0.52	4.45
188	-9.62	43.8	463.2	0.42	0.52	4.45
189	-9.67	44.0	465.7	0.42	0.52	4.45
190	-9.73	44.2	468.1	0.42	0.51	4.44
191	-9.79	44.3	470.0	0.42	0.51	4.44
192	-9.79	44.4	470.8	0.42	0.51	4.44
193	-9.81	44.4	471.4	0.42	0.51	4.44
194	-9.83	44.5	472.2	0.42	0.51	4.44
195	-9.84	44.6	472.9	0.42	0.51	4.44
196	-9.86	44.6	473.7	0.42	0.51	4.44
197	-9.88	44.7	474.3	0.42	0.51	4.44
198	-9.88	44.7	474.5	0.42	0.51	4.43
199	-9.88	44.7	474.6	0.42	0.51	4.43
200	-9.88	44.7	474.7	0.42	0.51	4.43
201	-9.89	44.7	474.7	0.42	0.51	4.43
202	-9.89	44.7	474.8	0.42	0.51	4.43
203	-9.89	44.7	474.9	0.42	0.51	4.43
204	-9.89	44.8	475.8	0.42	0.51	4.43
205	-9.97	45.0	478.3	0.42	0.51	4.43
206	-10.05	45.3	481.8	0.42	0.51	4.43
207	-10.13	45.6	485.2	0.42	0.51	4.42
208	-10.21	45.6	495.9	0.41	0.50	4.48
209	-10.29	45.1	506.4	0.41	0.50	4.55
210	-10.29	44.9	507.4	0.40	0.50	4.55
211	-10.31	44.7	508.0	0.40	0.50	4.55
212	-10.33	44.6	508.7	0.40	0.50	4.55
213	-10.34	44.4	509.5	0.40	0.50	4.55
214	-10.36	44.2	510.3	0.39	0.50	4.55
215	-10.38	44.1	510.8	0.39	0.50	4.54
216	-10.38	43.1	511.1	0.38	0.50	4.54
217	-10.38	44.0	511.1	0.39	0.50	4.54
218	-10.38	44.1	511.2	0.39	0.50	4.54
219	-10.39	44.1	511.3	0.39	0.50	4.54
220	-10.39	44.0	511.4	0.39	0.50	4.54
221	-10.39	44.9	511.4	0.40	0.50	4.54
222	-10.39	43.8	512.3	0.39	0.50	4.54
223	-10.47	43.6	514.9	0.38	0.50	4.54

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-10.55	43.8	518.4	0.38	0.50	4.53
225	-10.64	44.1	521.9	0.38	0.50	4.53
226	-10.72	44.4	525.4	0.38	0.50	4.52
227	-10.80	44.6	528.1	0.38	0.50	4.53
228	-10.80	46.8	458.8	0.40	0.50	3.93
229	-10.81	46.8	458.9	0.40	0.54	3.93
230	-10.81	46.8	459.1	0.40	0.54	3.93
231	-10.82	46.8	459.2	0.40	0.54	3.93
232	-10.82	46.8	459.3	0.40	0.54	3.93
233	-10.83	46.9	459.4	0.40	0.54	3.93
234	-10.83	46.9	428.6	0.40	0.54	3.66
235	-10.92	47.1	430.3	0.40	0.54	3.66
236	-11.01	47.4	432.4	0.40	0.54	3.66
237	-11.11	47.6	434.5	0.40	0.54	3.65
238	-11.20	47.8	436.6	0.40	0.54	3.65
239	-11.29	48.0	438.1	0.40	0.54	3.65
240	-11.29	48.1	438.7	0.40	0.54	3.65
241	-11.31	48.1	439.0	0.40	0.53	3.65
242	-11.33	48.2	439.5	0.40	0.53	3.64
243	-11.34	48.2	439.9	0.40	0.53	3.64
244	-11.36	56.2	440.3	0.47	0.53	3.64
245	-11.38	32.5	440.6	0.27	0.53	3.64
246	-11.38	48.3	440.7	0.40	0.53	3.64
247	-11.38	48.3	440.7	0.40	0.53	3.64
248	-11.38	48.3	440.8	0.40	0.53	3.64
249	-11.39	48.3	440.8	0.40	0.53	3.64
250	-11.39	48.3	440.9	0.40	0.53	3.64
251	-11.39	48.4	440.9	0.40	0.53	3.64
252	-11.39	48.4	441.0	0.40	0.53	3.64
253	-11.41	55.2	441.4	0.46	0.53	3.64
254	-11.43	48.8	441.9	0.40	0.53	3.64
255	-11.46	48.4	442.4	0.40	0.53	3.64
256	-11.48	48.5	442.9	0.40	0.53	3.64
257	-11.50	48.5	443.3	0.40	0.53	3.64
258	-11.50	48.5	443.8	0.40	0.53	3.64
259	-11.58	46.5	445.1	0.38	0.53	3.64
260	-11.66	48.4	446.9	0.39	0.53	3.63
261	-11.73	48.6	448.7	0.39	0.53	3.63
262	-11.81	48.9	450.4	0.39	0.53	3.63
263	-11.89	49.0	451.8	0.39	0.53	3.63
264	-11.89	49.1	452.6	0.39	0.53	3.63
265	-11.97	49.3	441.9	0.39	0.54	3.53
266	-12.05	49.5	441.4	0.39	0.54	3.51
267	-12.13	49.7	443.2	0.39	0.54	3.51
268	-12.21	49.9	445.0	0.39	0.54	3.51
269	-12.29	50.1	446.3	0.39	0.39	3.51
270	-12.29	50.1	446.9	0.39	0.59	3.50
271	-12.31	50.2	447.2	0.39	0.59	3.50
272	-12.33	50.2	447.6	0.39	0.59	3.50
273	-12.34	50.3	448.0	0.39	0.59	3.50
274	-12.36	50.3	448.4	0.39	0.59	3.50
275	-12.38	50.3	448.7	0.39	0.59	3.50
276	-12.38	50.4	448.8	0.39	0.59	3.50
277	-12.38	50.4	448.9	0.39	0.59	3.50
278	-12.38	50.4	448.9	0.39	0.59	3.50
279	-12.39	50.4	448.9	0.39	0.59	3.50
280	-12.39	50.4	449.0	0.39	0.59	3.50
281	-12.39	50.4	449.0	0.39	0.59	3.50
282	-12.39	50.4	449.2	0.39	0.59	3.50
283	-12.41	50.4	449.5	0.39	0.59	3.50
284	-12.43	50.5	450.0	0.39	0.59	3.50
285	-12.46	50.5	450.5	0.39	0.59	3.50
286	-12.48	50.6	451.0	0.39	0.59	3.50
287	-12.50	50.6	451.4	0.39	0.59	3.50

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-12.50	50.7	451.8	0.39	0.59	3.50
289	-12.56	50.8	452.8	0.39	0.59	3.50
290	-12.62	51.0	454.1	0.39	0.59	3.50
291	-12.67	51.1	455.4	0.39	0.59	3.50
292	-12.73	51.3	438.9	0.39	0.59	3.36
293	-12.79	51.4	439.7	0.39	0.59	3.36
294	-12.79	51.5	440.5	0.39	0.59	3.36
295	-12.87	51.6	441.9	0.39	0.59	3.36
296	-12.95	51.9	443.7	0.39	0.59	3.36
297	-13.04	52.1	445.6	0.39	0.58	3.36
298	-13.12	52.3	447.4	0.39	0.58	3.36
299	-13.20	52.4	448.8	0.39	0.58	3.35
300	-13.20	49.7	530.9	0.37	0.58	3.95
301	-13.23	49.7	531.8	0.37	0.54	3.95
302	-13.25	49.8	532.9	0.37	0.54	3.95
303	-13.28	49.9	534.0	0.37	0.54	3.96
304	-13.30	50.0	535.2	0.37	0.54	3.96
305	-13.33	50.1	536.0	0.37	0.54	3.96
306	-13.33	50.2	537.9	0.37	0.54	3.96
307	-13.48	50.6	542.6	0.37	0.54	3.96
308	-13.62	51.1	548.9	0.37	0.54	3.96
309	-13.77	51.6	555.3	0.37	0.54	3.96
310	-13.91	52.1	550.5	0.37	0.54	3.89
311	-14.06	52.2	552.3	0.37	0.54	3.87
312	-14.06	52.0	555.4	0.36	0.54	3.87
313	-14.21	52.4	560.2	0.36	0.54	3.87
314	-14.35	53.5	575.8	0.37	0.54	3.94
315	-14.50	54.3	587.3	0.37	0.54	3.97
316	-14.64	54.8	593.6	0.37	0.54	3.98
317	-14.79	55.1	598.3	0.37	0.54	3.98
318	-14.79	55.3	600.1	0.37	0.54	3.98
319	-14.81	55.3	600.7	0.37	0.54	3.98
320	-14.83	55.4	601.5	0.37	0.54	3.98
321	-14.84	55.4	602.2	0.37	0.54	3.98
322	-14.86	55.5	603.0	0.37	0.54	3.98
323	-14.88	55.6	603.6	0.37	0.54	3.98
324	-14.88	55.6	604.0	0.37	0.54	3.98
325	-14.90	55.6	604.8	0.37	0.54	3.98
326	-14.93	55.7	605.9	0.37	0.54	3.98
327	-14.95	55.8	606.9	0.37	0.54	3.98
328	-14.98	61.3	607.9	0.40	0.54	3.98
329	-15.00	56.3	608.7	0.37	0.54	3.98
330	-15.00	56.2	609.8	0.37	0.54	3.98
331	-15.08	54.5	618.0	0.35	0.54	4.02
332	-15.16	56.5	634.0	0.37	0.54	4.10
333	-15.23	56.8	637.4	0.37	0.54	4.10
334	-15.31	57.1	640.7	0.37	0.54	4.10
335	-15.39	57.3	643.3	0.37	0.54	4.10
336	-15.39	57.3	644.4	0.36	0.54	4.10
337	-15.41	57.4	645.1	0.36	0.54	4.10
338	-15.43	57.5	646.0	0.36	0.54	4.10
339	-15.46	57.5	647.0	0.36	0.54	4.10
340	-15.48	57.6	647.9	0.36	0.54	4.10
341	-15.50	57.7	648.7	0.36	0.54	4.10
342	-15.50	57.7	649.5	0.36	0.54	4.10
343	-15.56	57.9	651.4	0.36	0.54	4.10
344	-15.62	58.1	653.9	0.36	0.54	4.10
345	-15.67	58.3	656.4	0.36	0.54	4.10
346	-15.73	58.5	658.9	0.36	0.54	4.10
347	-15.79	58.6	660.8	0.36	0.54	4.10
348	-15.79	58.7	661.5	0.36	0.54	4.10
349	-15.80	58.7	661.8	0.36	0.54	4.10
350	-15.81	58.7	662.1	0.36	0.54	4.10
351	-15.81	58.8	662.5	0.36	0.54	4.10

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
352	-15.82	58.8	662.8	0.36	0.54	4.10
353	-15.83	58.8	663.1	0.36	0.54	4.10
354	-15.83	58.8	663.3	0.36	0.54	4.10
355	-15.84	58.9	663.7	0.36	0.54	4.10
356	-15.85	58.9	664.2	0.36	0.54	4.10
357	-15.87	58.9	664.7	0.36	0.54	4.10
358	-15.88	59.0	665.3	0.36	0.54	4.10
359	-15.89	59.0	665.7	0.36	0.54	4.10
360	-15.89	59.1	666.0	0.36	0.54	4.10
361	-15.91	59.1	666.7	0.36	0.54	4.10
362	-15.93	59.2	667.7	0.36	0.54	4.10
363	-15.96	59.3	668.6	0.36	0.54	4.10
364	-15.98	59.3	669.6	0.36	0.54	4.10
365	-16.00	59.4	670.3	0.36	0.54	4.11
366	-16.00	69.9	479.3	0.43	0.54	2.93
367	-16.02	70.0	479.6	0.43	0.63	2.93
368	-16.04	70.0	480.0	0.43	0.63	2.93
369	-16.06	70.1	480.4	0.43	0.63	2.93
370	-16.08	70.1	480.8	0.43	0.63	2.93
371	-16.10	70.1	481.1	0.43	0.63	2.93

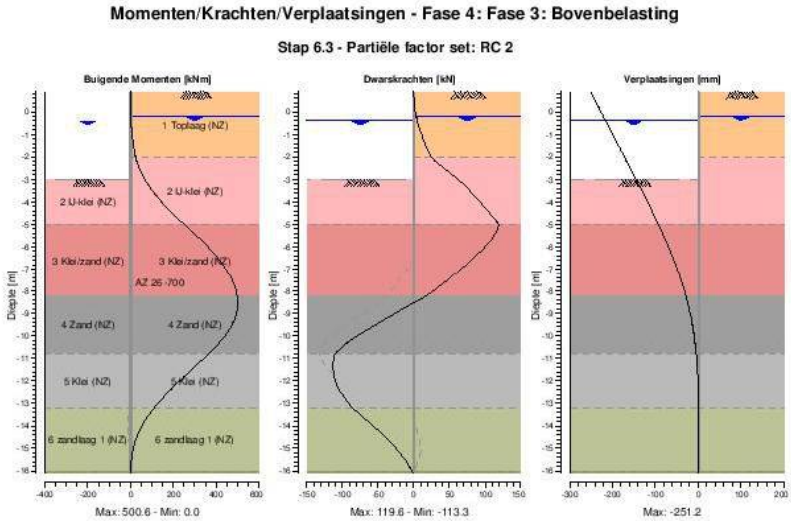
17.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	51.61
3 Klei/zand (NZ)	110.14
4 Zand (NZ)	110.75
5 Klei (NZ)	158.82
6 zandlaag 1 (NZ)	240.01
7 klei (NZ)	10.09
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

17.7 Berekeningsresultaten

Aantal iteraties: 4

17.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



17.7.2 Momenten, Krachten en Verplaatsingen

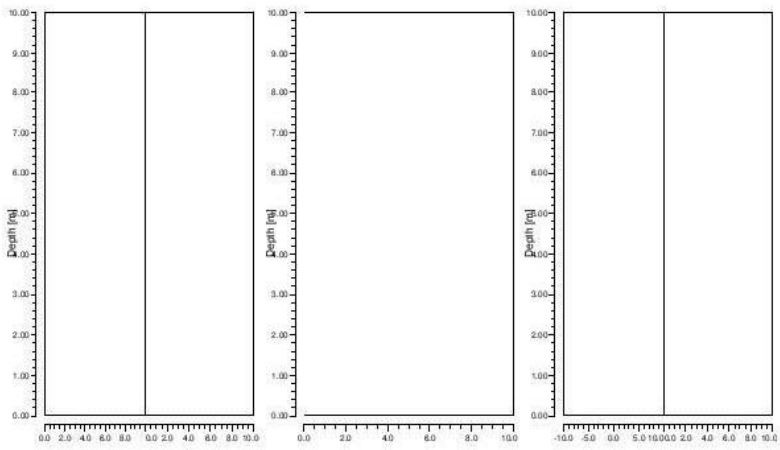
Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-251.2**
1	0.60	0.03	0.26	-243.0
2	0.60	0.03	0.26	-243.0
2	0.40	0.12	0.72	-237.5
3	0.40	0.12	0.72	-237.5
3	0.20	0.33	1.41	-232.0
4	0.20	0.33	1.41	-232.0
4	0.17	0.37	1.53	-231.2
5	0.17	0.37	1.53	-231.2
5	-0.20	1.28	3.48	-221.0
6	-0.20	1.28	3.48	-221.0
6	-0.33	1.79	4.41	-217.5
7	-0.33	1.79	4.41	-217.5
7	-0.40	2.12	5.00	-215.6
8	-0.40	2.12	5.00	-215.6
8	-0.60	3.30	6.84	-210.1
9	-0.60	3.30	6.84	-210.1
9	-1.33	11.04	14.64	-190.1
10	-1.33	11.04	14.64	-190.1
10	-1.60	15.44	17.96	-182.7
11	-1.60	15.44	17.96	-182.7
11	-1.83	19.94	21.43	-176.4
12	-1.83	19.94	21.43	-176.4
12	-2.00	23.84	24.41	-171.8
13	-2.00	23.84	24.41	-171.8
13	-2.15	27.87	29.39	-167.7
14	-2.15	27.87	29.39	-167.7
14	-2.20	29.38	31.08	-166.3
15	-2.20	29.38	31.08	-166.3
15	-2.33	33.71	35.66	-162.8
16	-2.33	33.71	35.66	-162.8

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.60	44.74	46.11	-155.4
17	-2.60	44.74	46.11	-155.4
17	-3.00	66.35	62.00	-144.6
18	-3.00	66.35	62.00	-144.6
18	-3.60	109.54	81.30	-128.6
19	-3.60	109.54	81.30	-128.6
19	-4.21	165.01	98.80	-112.4
20	-4.21	165.01	98.79	-112.4
20	-4.83	230.72	115.03	-96.8
21	-4.83	230.72	115.02	-96.8
21	-5.00	250.66	**119.61**	-92.6
22	-5.00	250.66	**119.61**	-92.6
22	-5.33	289.52	115.37	-84.6
23	-5.33	289.52	115.37	-84.6
23	-5.83	344.76	104.82	-73.0
24	-5.83	344.76	104.81	-73.0
24	-6.50	407.90	83.57	-58.6
25	-6.50	407.90	83.55	-58.6
25	-7.16	455.89	60.36	-45.6
26	-7.16	455.89	60.35	-45.6
26	-7.83	487.63	34.40	-34.3
27	-7.83	487.63	34.40	-34.3
27	-8.20	**497.52**	19.19	-28.7
28	-8.20	**497.52**	19.16	-28.7
28	-8.88	497.14	-19.69	-19.9
29	-8.88	497.13	-19.73	-19.9
29	-9.38	480.51	-46.56	-14.6
30	-9.38	480.51	-46.58	-14.6
30	-9.39	480.04	-47.11	-14.5
31	-9.39	480.04	-47.11	-14.5
31	-9.50	474.54	-52.89	-13.4
32	-9.50	474.54	-52.90	-13.4
32	-9.79	456.99	-68.09	-10.9
33	-9.79	456.99	-68.09	-10.9
33	-9.88	450.65	-72.80	-10.2
34	-9.88	450.65	-72.80	-10.2
34	-9.89	449.92	-73.32	-10.1
35	-9.89	449.92	-73.33	-10.1
35	-10.29	416.59	-92.45	-7.3
36	-10.29	416.59	-92.45	-7.3
36	-10.38	408.10	-96.10	-6.7
37	-10.38	408.10	-96.10	-6.7
37	-10.39	407.14	-96.50	-6.7
38	-10.39	407.14	-96.49	-6.7
38	-10.80	364.59	-110.22	-4.5
39	-10.80	364.59	-110.22	-4.5
39	-10.83	361.28	-110.58	-4.3
40	-10.83	361.28	-110.57	-4.3
40	-11.29	309.59	-113.31	-2.5
41	-11.29	309.59	-113.31	-2.5
41	-11.38	299.39	-113.30	-2.2
42	-11.38	299.39	-113.30	-2.2
42	-11.39	298.26	-113.30	-2.1
43	-11.39	298.26	-113.30	-2.1
43	-11.50	285.81	-113.07	-1.8
44	-11.50	285.81	-113.07	-1.8
44	-11.89	242.09	-110.73	-0.8
45	-11.89	242.09	-110.73	-0.8
45	-12.29	198.65	-106.80	-0.1
46	-12.29	198.65	-106.80	-0.1
46	-12.38	189.12	-104.95	0.0
47	-12.38	189.12	-104.95	0.0
47	-12.39	188.08	-104.75	0.1
48	-12.39	188.08	-104.75	0.1
48	-12.50	176.68	-102.41	0.2

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-12.50	176.68	-102.41	0.2
49	-12.79	147.92	-95.91	0.5
50	-12.79	147.92	-95.91	0.5
50	-13.20	110.57	-86.17	0.7
51	-13.20	110.57	-86.17	0.7
51	-13.33	99.67	-81.53	0.7
52	-13.33	99.67	-81.52	0.7
52	-14.06	49.87	-54.98	0.7
53	-14.06	49.87	-54.97	0.7
53	-14.79	18.77	-30.91	0.5
54	-14.79	18.77	-30.90	0.5
54	-14.88	16.11	-28.26	0.4
55	-14.88	16.11	-28.26	0.4
55	-15.00	12.93	-24.86	0.4
56	-15.00	12.93	-24.86	0.4
56	-15.39	5.24	-14.85	0.2
57	-15.39	5.24	-14.85	0.2
57	-15.50	3.74	-12.32	0.2
58	-15.50	3.74	-12.32	0.2
58	-15.79	1.07	-6.30	0.0
59	-15.79	1.07	-6.30	0.0
59	-15.83	0.83	-5.55	0.0
60	-15.83	0.83	-5.55	0.0
60	-15.89	0.53	-4.44	0.0
61	-15.89	0.53	-4.44	0.0
61	-16.00	0.15	-2.53	-0.1
62	-16.00	0.15	-2.53	-0.1
62	-16.10	0.00	0.00	-0.1
Max		**497.52**	**119.61**	**-251.2**
Max incl. tussenknopen		500.55	119.61	-251.2

17.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



17.7.4 Spanningen

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]		[%]
1	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.19	0.00	A	
6	-0.20	0.00	0.00	-		6.31	0.00	A	
6	-0.33	0.00	0.00	-		6.68	1.28	A	
7	-0.33	0.00	0.00	-		6.71	1.28	A	
7	-0.40	0.00	0.00	-		6.91	1.96	A	
8	-0.40	0.00	0.00	-		6.96	1.96	A	
8	-0.60	0.00	1.96	-		7.53	3.92	A	
9	-0.60	0.00	1.96	-		7.68	3.92	A	
9	-1.33	0.00	9.12	-		9.78	11.09	A	
10	-1.33	0.00	9.12	-		9.94	11.09	A	
10	-1.60	0.00	11.77	-		10.71	13.73	A	
11	-1.60	0.00	11.77	-		10.79	13.73	A	
11	-1.83	0.00	14.03	-		15.09	15.99	A	
12	-1.83	0.00	14.03	-		15.18	15.99	A	
12	-2.00	0.00	15.70	-		15.90	17.66	A	
13	-2.00	0.00	15.70	-		4.83	40.16	A	
13	-2.15	0.00	17.17	-		9.32	41.63	A	
14	-2.15	0.00	17.17	-		9.34	41.63	A	
14	-2.20	0.00	17.66	-		9.44	42.12	A	
15	-2.20	0.00	17.66	-		9.46	42.12	A	
15	-2.33	0.00	18.93	-		13.75	43.40	A	
16	-2.33	0.00	18.93	-		13.81	43.40	A	
16	-2.60	0.00	21.58	-		14.61	46.04	A	
17	-2.60	0.00	21.58	-		14.72	46.04	A	
17	-3.00	0.00	25.51	-		15.83	49.97	A	
18	-3.00	0.00	25.51	P		15.97	49.97	A	
18	-3.60	11.88	31.39	P		17.52	55.85	A	
19	-3.60	12.34	31.39	P		17.68	55.85	A	
19	-4.21	16.52	37.43	P		19.15	61.89	A	
20	-4.21	16.99	37.43	P		19.31	61.89	A	
20	-4.83	21.17	43.46	P		24.27	67.92	A	
21	-4.83	21.46	43.46	P		24.36	67.92	A	
21	-5.00	22.39	45.13	P		24.67	69.59	A	
22	-5.00	42.01	45.13	P		38.29	47.09	A	
22	-5.33	46.84	48.36	P		28.78	50.33	A	
23	-5.33	47.71	48.36	P		28.91	50.33	A	
23	-5.83	57.81	53.27	P		30.35	55.23	A	
24	-5.83	59.17	53.27	P		30.53	55.23	A	
24	-6.50	69.38	59.81	3	95	32.36	61.77	A	
25	-6.50	70.48	59.81	3	94	32.56	61.77	A	
25	-7.16	76.15	66.35	3	85	38.25	68.31	A	
26	-7.16	77.26	66.35	3	85	38.44	68.31	A	
26	-7.83	81.99	72.89	2	78	40.13	74.85	A	
27	-7.83	82.54	72.89	2	78	39.74	74.85	A	
27	-8.20	79.74	76.52	2	70	38.29	78.48	A	
28	-8.20	99.92	76.52	3	81	38.64	78.48	A	
28	-8.88	97.12	83.19	2	65	40.85	85.15	A	
29	-8.88	98.19	83.19	2	64	41.07	85.15	A	
29	-9.38	97.05	88.09	2	57	42.69	90.06	A	
30	-9.38	97.51	88.09	2	56	42.78	90.06	A	
30	-9.39	97.50	88.19	2	56	42.81	90.15	A	
31	-9.39	97.61	88.19	2	56	42.83	90.15	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]		[%]
31	-9.50	97.59	89.27	2	55	43.19	91.23	A	
32	-9.50	97.95	89.27	2	55	43.26	91.23	A	
32	-9.79	98.25	92.12	2	52	44.19	94.08	A	
33	-9.79	98.59	92.12	2	52	44.26	94.08	A	
33	-9.88	98.79	93.00	2	51	44.55	94.96	A	
34	-9.88	98.88	93.00	2	51	44.57	94.96	A	
34	-9.89	98.91	93.10	2	51	44.60	95.06	A	
35	-9.89	99.28	93.10	2	51	44.67	95.06	A	
35	-10.29	88.16	97.02	1	42	44.98	98.98	A	
36	-10.29	88.37	97.02	1	42	44.77	98.98	A	
36	-10.38	85.40	97.90	1	40	44.00	99.87	A	
37	-10.38	85.45	97.90	1	40	43.02	99.87	A	
37	-10.39	85.13	98.00	1	39	44.79	99.96	A	
38	-10.39	85.31	98.00	1	39	43.70	99.96	A	
38	-10.80	74.08	102.02	1	32	44.57	103.99	A	
39	-10.80	60.51	102.02	1	30	46.78	103.99	A	
39	-10.83	63.14	102.32	1	32	49.49	104.28	1	
40	-10.83	63.29	102.32	1	32	49.58	104.28	1	
40	-11.29	59.37	106.83	1	28	56.69	108.79	1	
41	-11.29	59.53	106.83	1	28	56.80	108.79	1	
41	-11.38	58.95	107.71	1	28	57.86	109.68	1	
42	-11.38	58.98	107.71	1	28	57.88	109.68	1	
42	-11.39	58.92	107.81	1	28	58.00	109.77	1	
43	-11.39	58.96	107.81	1	28	58.02	109.77	1	
43	-11.50	58.34	108.89	1	27	59.38	110.85	1	
44	-11.50	58.48	108.89	1	27	59.47	110.85	1	
44	-11.89	56.92	112.72	1	25	63.72	114.68	1	
45	-11.89	57.15	112.72	1	25	63.87	114.68	1	
45	-12.29	56.46	116.64	1	24	50.04	118.60	A	11
46	-12.29	56.60	116.64	1	24	74.73	118.60	1	
46	-12.38	56.55	117.52	1		75.39	119.49	1	17
47	-12.38	56.58	117.52	1		75.41	119.49	1	17
47	-12.39	56.58	117.62	1		75.49	119.58	1	17
48	-12.39	56.61	117.62	1		75.51	119.58	1	17
48	-12.50	56.61	118.70	1		76.26	120.66	1	17
49	-12.50	56.72	118.70	1		76.35	120.66	1	17
49	-12.79	56.94	121.55	1		78.09	123.51	1	18
50	-12.79	57.14	121.55	1		78.23	123.51	1	18
50	-13.20	57.69	125.57	1		80.21	127.53	1	18
51	-13.20	51.62	125.57	1		86.57	127.53	1	16
51	-13.33	47.97	126.84	1		81.98	128.81	1	15
52	-13.33	48.31	126.84	1		82.22	128.81	1	15
52	-14.06	51.83	134.00	1		85.48	135.97	1	16
53	-14.06	52.40	134.00	1		85.90	135.97	1	15
53	-14.79	58.54	141.17	1		86.50	143.13	1	14
54	-14.79	58.85	141.17	1		86.73	143.13	1	14
54	-14.88	59.70	142.05	1		86.71	144.01	1	14
55	-14.88	59.78	142.05	1		86.76	144.01	1	14
55	-15.00	60.93	143.23	1		86.72	145.19	1	14
56	-15.00	61.13	143.23	1		86.86	145.19	1	14
56	-15.39	64.97	147.05	1		86.61	149.01	1	13
57	-15.39	65.15	147.05	1		86.75	149.01	1	13
57	-15.50	66.25	148.13	1		86.66	150.09	1	13
58	-15.50	66.40	148.13	1		86.77	150.09	1	13
58	-15.79	69.32	150.98	1		86.52	152.94	1	13
59	-15.79	69.44	150.98	1		86.61	152.94	1	13
59	-15.83	69.84	151.37	1		86.57	153.33	1	13
60	-15.83	69.88	151.37	1		86.60	153.33	1	13
60	-15.89	70.48	151.96	1	17	86.55	153.92	1	
61	-15.89	70.54	151.96	1	17	86.60	153.92	1	
61	-16.00	71.69	153.04	1	17	86.50	155.00	1	
62	-16.00	71.22	153.04	1	25	87.08	155.00	1	
62	-16.10	38.96	154.02	1	13	102.57	155.98	1	

*

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

17.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	800.9	702.5
Water	1209.0	1307.5
Totaal	2009.9	2010.0

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	800.88 kN
Percentage gemobiliseerde weerstand	34.4 %

18 Stap 6.4 Fase 4: Fase 3: Bovenbelasting

18.1 Invoergegevens Links

18.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

18.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

18.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

18.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

18.1.5 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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

18.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	8.5	0.00	1.73	19.13
2	-3.24	0.0	9.4	0.00	1.73	10.59
3	-3.36	0.0	10.3	0.00	1.73	7.75
4	-3.48	0.0	11.2	0.00	1.72	6.32
5	-3.60	0.0	11.9	0.00	1.72	5.65
6	-3.60	0.0	12.3	0.00	1.72	5.30
7	-3.72	0.0	13.0	0.00	1.72	4.89
8	-3.85	0.0	14.0	0.00	1.72	4.47
9	-3.97	0.0	14.9	0.00	1.72	4.17
10	-4.09	0.0	15.8	0.00	1.71	3.93
11	-4.21	0.0	16.5	0.00	1.71	3.78
12	-4.21	0.0	17.0	0.00	1.71	3.70
13	-4.34	0.0	17.7	0.00	1.70	3.58
14	-4.46	0.0	18.6	0.00	1.70	3.45
15	-4.58	0.0	19.5	0.00	1.70	3.34
16	-4.71	0.0	20.5	0.00	1.69	3.25
17	-4.83	0.0	21.2	0.00	1.69	3.19
18	-4.83	0.0	21.5	0.00	1.69	3.16
19	-4.86	0.0	21.7	0.00	1.68	3.15
20	-4.90	0.0	21.9	0.00	1.68	3.13
21	-4.93	0.0	22.2	0.00	1.68	3.11
22	-4.97	0.0	22.4	0.00	1.68	3.09
23	-5.00	0.0	22.6	0.00	1.66	3.05
24	-5.00	0.0	42.6	0.00	1.66	5.61
25	-5.07	0.0	43.0	0.00	1.48	5.43
26	-5.13	0.0	43.9	0.00	1.45	5.25
27	-5.20	0.0	45.1	0.00	1.43	5.12
28	-5.26	0.0	46.3	0.00	1.41	5.01
29	-5.33	0.0	47.3	0.00	1.40	4.94
30	-5.33	0.0	48.2	0.00	1.40	4.89
31	-5.43	0.0	49.8	0.00	1.37	4.81
32	-5.53	0.0	52.0	0.00	1.35	4.72
33	-5.63	0.0	54.3	0.00	1.33	4.64

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	56.5	0.00	1.31	4.57
35	-5.83	0.0	58.3	0.00	1.29	4.53
36	-5.83	0.0	59.6	0.00	1.29	4.50
37	-5.96	0.0	62.0	0.00	1.27	4.45
38	-6.10	0.0	65.1	0.00	1.25	4.39
39	-6.23	0.0	68.2	0.00	1.24	4.34
40	-6.36	0.0	71.4	0.00	1.22	4.30
41	-6.50	0.0	73.7	0.00	1.21	4.27
42	-6.50	2.9	75.3	0.16	1.21	4.25
43	-6.63	3.9	77.7	0.21	1.19	4.23
44	-6.76	4.3	80.9	0.22	1.18	4.19
45	-6.90	4.6	84.1	0.23	1.17	4.17
46	-7.03	4.9	87.2	0.23	1.16	4.14
47	-7.16	5.1	89.6	0.24	1.15	4.12
48	-7.16	5.3	91.2	0.24	1.15	4.11
49	-7.30	5.5	93.6	0.24	1.14	4.10
50	-7.43	5.9	96.8	0.25	1.13	4.08
51	-7.56	6.2	100.0	0.25	1.12	4.06
52	-7.70	6.5	103.2	0.26	1.11	4.04
53	-7.83	6.8	105.6	0.26	1.10	4.03
54	-7.83	6.9	106.8	0.26	1.10	4.02
55	-7.90	7.0	108.1	0.26	1.09	4.02
56	-7.98	7.2	109.9	0.26	1.09	4.01
57	-8.05	7.4	111.7	0.26	1.09	4.00
58	-8.13	7.6	113.5	0.27	1.08	4.00
59	-8.20	7.7	114.8	0.27	1.07	3.96
60	-8.20	9.6	125.5	0.32	1.07	4.25
61	-8.34	9.9	129.8	0.32	1.01	4.25
62	-8.47	10.4	135.5	0.33	1.00	4.25
63	-8.61	10.8	141.3	0.33	0.98	4.24
64	-8.74	11.3	147.1	0.33	0.97	4.24
65	-8.88	11.6	151.4	0.33	0.96	4.24
66	-8.88	11.8	153.9	0.33	0.96	4.24
67	-8.98	12.1	157.1	0.33	0.95	4.24
68	-9.08	12.4	161.4	0.33	0.94	4.23
69	-9.18	12.8	165.7	0.33	0.94	4.23
70	-9.28	13.1	170.0	0.33	0.93	4.23
71	-9.38	13.3	173.2	0.33	0.92	4.23
72	-9.38	13.4	174.3	0.33	0.92	4.23
73	-9.38	13.4	174.3	0.33	0.92	4.23
74	-9.38	13.4	174.4	0.33	0.92	4.23
75	-9.39	13.4	174.5	0.33	0.92	4.23
76	-9.39	13.5	174.6	0.33	0.92	4.23
77	-9.39	13.5	174.7	0.33	0.92	4.23
78	-9.39	13.5	174.9	0.33	0.92	4.23
79	-9.41	13.5	175.6	0.33	0.92	4.23
80	-9.43	13.6	176.6	0.33	0.92	4.23
81	-9.46	13.7	177.5	0.33	0.92	4.23
82	-9.48	13.8	178.5	0.33	0.91	4.23
83	-9.50	13.8	179.2	0.33	0.91	4.23
84	-9.50	13.9	180.0	0.33	0.91	4.23
85	-9.56	14.0	181.9	0.33	0.91	4.23
86	-9.62	14.2	184.4	0.33	0.91	4.23
87	-9.67	14.4	186.9	0.33	0.90	4.23
88	-9.73	14.6	189.4	0.33	0.90	4.23
89	-9.79	14.8	191.2	0.33	0.89	4.23
90	-9.79	14.8	192.0	0.33	0.89	4.23
91	-9.81	14.9	192.6	0.33	0.89	4.23
92	-9.83	14.9	193.4	0.33	0.89	4.23
93	-9.84	15.0	194.2	0.33	0.89	4.23
94	-9.86	15.0	194.9	0.33	0.89	4.23
95	-9.88	15.1	195.5	0.33	0.89	4.23
96	-9.88	15.1	195.7	0.33	0.89	4.23
97	-9.88	15.1	195.8	0.33	0.89	4.23

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	15.1	195.9	0.33	0.89	4.23
99	-9.89	15.1	196.0	0.33	0.89	4.23
100	-9.89	15.1	196.1	0.33	0.89	4.23
101	-9.89	15.1	196.1	0.33	0.89	4.23
102	-9.89	15.2	197.0	0.33	0.89	4.23
103	-9.97	15.4	199.6	0.33	0.88	4.23
104	-10.05	15.7	203.0	0.33	0.88	4.23
105	-10.13	15.9	206.5	0.33	0.87	4.23
106	-10.21	16.2	209.9	0.33	0.87	4.23
107	-10.29	16.4	212.5	0.33	0.87	4.23
108	-10.29	16.5	213.6	0.33	0.87	4.23
109	-10.31	16.5	214.1	0.33	0.87	4.23
110	-10.33	16.6	214.9	0.33	0.86	4.23
111	-10.34	16.7	215.7	0.33	0.86	4.23
112	-10.36	16.7	216.5	0.33	0.86	4.23
113	-10.38	16.8	217.0	0.33	0.86	4.23
114	-10.38	16.8	217.3	0.33	0.86	4.23
115	-10.38	16.8	217.3	0.33	0.86	4.23
116	-10.38	16.8	217.4	0.33	0.86	4.23
117	-10.39	16.8	217.5	0.33	0.86	4.23
118	-10.39	16.8	217.6	0.33	0.86	4.23
119	-10.39	16.8	217.7	0.33	0.86	4.23
120	-10.39	16.9	218.6	0.33	0.86	4.23
121	-10.47	17.1	221.2	0.33	0.86	4.23
122	-10.55	17.4	224.7	0.33	0.85	4.23
123	-10.64	17.6	228.3	0.33	0.85	4.23
124	-10.72	17.9	231.8	0.33	0.84	4.23
125	-10.80	18.1	234.5	0.33	0.85	4.25
126	-10.80	18.0	199.8	0.33	0.85	3.61
127	-10.81	18.0	199.9	0.33	0.90	3.61
128	-10.81	18.0	200.0	0.33	0.90	3.61
129	-10.82	18.0	200.2	0.33	0.90	3.61
130	-10.82	18.1	200.3	0.33	0.90	3.61
131	-10.83	18.1	200.4	0.33	0.90	3.61
132	-10.83	18.1	201.0	0.33	0.90	3.61
133	-10.92	18.3	202.5	0.33	0.90	3.60
134	-11.01	18.5	204.6	0.33	0.89	3.60
135	-11.11	18.8	206.7	0.33	0.89	3.60
136	-11.20	19.0	208.8	0.33	0.89	3.60
137	-11.29	19.2	210.3	0.33	0.89	3.60
138	-11.29	19.2	210.9	0.33	0.89	3.59
139	-11.31	19.3	211.2	0.33	0.89	3.59
140	-11.33	19.3	211.7	0.33	0.89	3.59
141	-11.34	19.4	212.1	0.33	0.89	3.59
142	-11.36	19.4	212.5	0.33	0.89	3.59
143	-11.38	19.4	212.8	0.33	0.88	3.59
144	-11.38	19.5	212.9	0.33	0.88	3.59
145	-11.38	19.5	212.9	0.33	0.88	3.59
146	-11.38	19.5	213.0	0.33	0.88	3.59
147	-11.39	19.5	213.0	0.33	0.88	3.59
148	-11.39	19.5	213.1	0.33	0.88	3.59
149	-11.39	19.5	213.1	0.33	0.88	3.59
150	-11.39	19.5	213.2	0.33	0.88	3.59
151	-11.41	19.5	213.6	0.33	0.88	3.59
152	-11.43	19.6	214.1	0.33	0.88	3.59
153	-11.46	19.7	214.6	0.33	0.88	3.59
154	-11.48	19.7	215.1	0.33	0.88	3.59
155	-11.50	19.7	215.5	0.33	0.88	3.59
156	-11.50	19.8	216.0	0.33	0.88	3.59
157	-11.58	20.0	217.4	0.33	0.88	3.59
158	-11.66	20.2	219.1	0.33	0.88	3.59
159	-11.73	20.4	220.9	0.33	0.88	3.58
160	-11.81	20.5	222.6	0.33	0.87	3.58
161	-11.89	20.7	224.0	0.33	0.87	3.58

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	20.8	224.9	0.33	0.87	3.58
163	-11.97	20.9	226.2	0.33	0.87	3.58
164	-12.05	21.1	228.0	0.33	0.87	3.58
165	-12.13	21.4	229.8	0.33	0.87	3.58
166	-12.21	21.6	231.7	0.33	0.86	3.57
167	-12.29	21.7	233.0	0.33	0.86	3.57
168	-12.29	21.8	233.6	0.33	0.86	3.57
169	-12.31	21.8	233.9	0.33	0.86	3.57
170	-12.33	21.8	234.3	0.33	0.86	3.57
171	-12.34	21.9	234.7	0.33	0.86	3.57
172	-12.36	21.9	235.1	0.33	0.86	3.57
173	-12.38	22.0	235.4	0.33	0.86	3.57
174	-12.38	22.0	235.5	0.33	0.86	3.57
175	-12.38	22.0	235.6	0.33	0.86	3.57
176	-12.38	22.0	235.6	0.33	0.86	3.57
177	-12.39	22.0	235.6	0.33	0.86	3.57
178	-12.39	22.0	235.7	0.33	0.86	3.57
179	-12.39	22.0	235.7	0.33	0.86	3.57
180	-12.39	22.0	235.9	0.33	0.86	3.57
181	-12.41	22.1	236.2	0.33	0.86	3.57
182	-12.43	22.1	236.7	0.33	0.86	3.57
183	-12.46	22.2	237.2	0.33	0.86	3.57
184	-12.48	22.2	237.7	0.33	0.86	3.57
185	-12.50	22.3	238.1	0.33	0.86	3.57
186	-12.50	22.3	238.6	0.33	0.86	3.57
187	-12.56	22.4	239.5	0.33	0.86	3.57
188	-12.62	22.6	240.9	0.33	0.86	3.57
189	-12.67	22.7	242.2	0.33	0.85	3.57
190	-12.73	22.9	243.5	0.33	0.85	3.56
191	-12.79	23.0	244.5	0.33	0.85	3.56
192	-12.79	23.1	245.3	0.34	0.85	3.56
193	-12.87	23.2	246.7	0.34	0.85	3.56
194	-12.95	23.4	248.5	0.34	0.85	3.56
195	-13.04	23.6	250.4	0.34	0.85	3.56
196	-13.12	23.8	252.2	0.34	0.84	3.56
197	-13.20	24.0	253.6	0.34	0.84	3.55
198	-13.20	23.5	304.6	0.33	0.84	4.24
199	-13.23	23.6	305.4	0.33	0.79	4.24
200	-13.25	23.6	306.6	0.33	0.78	4.24
201	-13.28	23.7	307.7	0.33	0.78	4.24
202	-13.30	23.8	308.8	0.33	0.78	4.24
203	-13.33	23.9	309.6	0.33	0.78	4.24
204	-13.33	24.0	311.5	0.33	0.78	4.24
205	-13.48	24.4	316.2	0.33	0.78	4.24
206	-13.62	24.9	322.4	0.33	0.77	4.24
207	-13.77	25.4	328.7	0.33	0.77	4.24
208	-13.91	25.9	335.0	0.33	0.76	4.24
209	-14.06	26.2	339.7	0.33	0.76	4.24
210	-14.06	26.5	342.8	0.33	0.76	4.24
211	-14.21	26.8	347.6	0.33	0.75	4.24
212	-14.35	27.3	353.8	0.33	0.75	4.24
213	-14.50	27.8	360.1	0.33	0.75	4.24
214	-14.64	28.3	366.4	0.33	0.74	4.24
215	-14.79	28.7	371.1	0.33	0.74	4.24
216	-14.79	28.8	372.9	0.33	0.74	4.24
217	-14.81	28.9	373.5	0.33	0.74	4.24
218	-14.83	28.9	374.3	0.33	0.74	4.24
219	-14.84	29.0	375.1	0.33	0.74	4.24
220	-14.86	29.0	375.8	0.33	0.74	4.24
221	-14.88	29.1	376.4	0.33	0.74	4.24
222	-14.88	29.1	376.9	0.33	0.74	4.24
223	-14.90	29.2	377.6	0.33	0.74	4.24
224	-14.93	29.3	378.7	0.33	0.73	4.24
225	-14.95	29.3	379.7	0.33	0.73	4.24

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	29.4	380.7	0.33	0.73	4.24
227	-15.00	29.5	381.5	0.33	0.73	4.24
228	-15.00	29.6	382.6	0.33	0.73	4.24
229	-15.08	29.8	385.1	0.33	0.73	4.24
230	-15.16	30.0	388.5	0.33	0.73	4.24
231	-15.23	30.3	391.9	0.33	0.73	4.24
232	-15.31	30.6	395.2	0.33	0.73	4.24
233	-15.39	30.7	397.8	0.33	0.72	4.24
234	-15.39	30.8	398.8	0.33	0.72	4.24
235	-15.41	30.9	399.6	0.33	0.72	4.24
236	-15.43	31.0	400.5	0.33	0.72	4.24
237	-15.46	31.0	401.5	0.33	0.72	4.24
238	-15.48	31.1	402.4	0.33	0.72	4.24
239	-15.50	31.2	403.1	0.33	0.72	4.24
240	-15.50	31.2	404.0	0.33	0.72	4.24
241	-15.56	31.4	405.9	0.33	0.72	4.24
242	-15.62	31.6	408.4	0.33	0.72	4.24
243	-15.67	31.8	410.9	0.33	0.72	4.24
244	-15.73	32.0	413.4	0.33	0.72	4.24
245	-15.79	32.1	415.2	0.33	0.71	4.24
246	-15.79	32.2	416.0	0.33	0.71	4.24
247	-15.80	32.2	416.2	0.33	0.71	4.24
248	-15.81	32.2	416.6	0.33	0.71	4.24
249	-15.81	32.2	416.9	0.33	0.71	4.24
250	-15.82	32.3	417.3	0.33	0.71	4.24
251	-15.83	32.3	417.5	0.33	0.71	4.24
252	-15.83	32.3	417.7	0.33	0.71	4.24
253	-15.84	32.3	418.1	0.33	0.71	4.24
254	-15.85	32.4	418.6	0.33	0.71	4.24
255	-15.87	32.4	419.2	0.33	0.71	4.24
256	-15.88	32.4	419.7	0.33	0.71	4.24
257	-15.89	32.5	420.1	0.33	0.71	4.24
258	-15.89	32.5	420.4	0.33	0.71	4.24
259	-15.91	32.6	421.1	0.33	0.71	4.24
260	-15.93	32.6	422.1	0.33	0.71	4.24
261	-15.96	32.7	423.0	0.33	0.71	4.24
262	-15.98	32.8	424.0	0.33	0.71	4.24
263	-16.00	32.8	424.7	0.33	0.71	4.24
264	-16.00	38.4	291.4	0.38	0.71	2.91
265	-16.02	38.4	291.7	0.38	0.83	2.91
266	-16.04	38.5	292.1	0.38	0.83	2.91
267	-16.06	38.5	292.5	0.38	0.83	2.91
268	-16.08	38.6	292.9	0.38	0.83	2.91
269	-16.10	38.7	293.1	0.38	0.38	2.91

18.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	29.78
3 Klei/zand (NZ)	234.69
4 Zand (NZ)	249.74
5 Klei (NZ)	117.26
6 zandlaag 1 (NZ)	172.38
7 klei (NZ)	8.41
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

18.4 Invoergegevens Rechts

18.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

18.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

18.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

18.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	26.17	17.45
2 IJ-klei (NZ)	-2.00	13.50	13.50	2.40	15.46	7.73
3 Klei/zand (NZ)	-5.00	16.50	16.50	2.40	23.89	15.64
4 Zand (NZ)	-8.20	18.00	20.00	0.00	26.17	17.45
5 Klei (NZ)	-10.80	16.50	16.50	2.40	22.99	15.27
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	28.47	19.01
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	30.79	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

18.4.5 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)	1.90	13500.00	13500.00	6750.00	6750.00
2 IJ-klei (NZ)	-2.00	4500.00	4500.00	2250.00	2250.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	11250.00	11250.00	5625.00	5625.00
4 Zand (NZ)	-8.20	18000.00	18000.00	9000.00	9000.00
5 Klei (NZ)	-10.80	9000.00	9000.00	4500.00	4500.00
6 zandlaag 1 (...	-13.20	36000.00	36000.00	18000.00	18000.00
7 klei (NZ)	-16.00	11250.00	11250.00	5625.00	5625.00
8 zandlaag 2 (...	-18.00	40500.00	40500.00	20250.00	20250.00
9 zandlaag 3 (...	-21.00	49500.00	49500.00	24750.00	24750.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	3375.00	3375.00
2 IJ-klei (NZ)	-2.00	1125.00	1125.00
3 Klei/zand (NZ)	-5.00	2812.50	2812.50
4 Zand (NZ)	-8.20	4500.00	4500.00
5 Klei (NZ)	-10.80	2250.00	2250.00
6 zandlaag 1 (...	-13.20	9000.00	9000.00
7 klei (NZ)	-16.00	2812.50	2812.50
8 zandlaag 2 (...	-18.00	10125.00	10125.00
9 zandlaag 3 (...	-21.00	12375.00	12375.00

18.4.6 Bovenbelastingen

Naam	Afstand	Belasting
	[m]	[kN/m²]
Verkeersbelasting 20kN/m²	5.00	22.00
	15.00	22.00

18.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	4.5	0.31	3.26	3.95
2	0.78	0.7	8.9	0.31	2.12	4.07
3	0.72	1.0	13.4	0.32	1.72	4.10
4	0.66	1.4	17.9	0.32	1.52	4.12
5	0.60	1.6	21.2	0.32	1.39	4.13
6	0.60	1.8	23.1	0.32	1.39	4.13
7	0.56	2.0	25.3	0.32	1.33	4.13
8	0.52	2.2	28.3	0.32	1.28	4.13
9	0.48	2.4	31.2	0.32	1.24	4.13
10	0.44	2.6	34.2	0.32	1.20	4.13
11	0.40	2.8	36.4	0.32	1.17	4.13
12	0.40	2.9	37.9	0.32	1.17	4.13
13	0.36	3.1	40.2	0.32	1.14	4.13
14	0.32	3.3	43.1	0.32	1.12	4.13
15	0.28	3.6	46.1	0.32	1.10	4.12
16	0.24	3.8	49.1	0.32	1.08	4.12
17	0.20	4.0	51.3	0.32	1.07	4.12
18	0.20	4.0	52.2	0.32	1.07	4.12
19	0.19	4.1	52.5	0.32	1.06	4.12
20	0.19	4.1	53.0	0.32	1.06	4.12
21	0.18	4.1	53.4	0.32	1.06	4.12
22	0.18	4.2	53.9	0.32	1.05	4.11
23	0.17	4.2	54.2	0.32	1.05	4.11
24	0.17	4.3	55.7	0.32	1.05	4.11
25	0.10	4.6	59.8	0.32	1.02	4.11
26	0.02	5.1	65.3	0.32	1.01	4.10
27	-0.05	5.5	70.8	0.32	0.99	4.09
28	-0.13	5.9	76.3	0.32	0.98	4.08
29	-0.20	6.2	80.4	0.31	0.96	4.05
30	-0.20	6.4	82.1	0.31	0.96	4.04
31	-0.23	6.4	82.9	0.31	0.96	4.03

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-0.25	6.5	84.6	0.31	0.95	4.06
33	-0.28	6.6	86.9	0.31	0.95	4.11
34	-0.30	6.7	89.3	0.31	0.95	4.17
35	-0.33	6.7	91.2	0.31	0.94	4.22
36	-0.33	6.8	92.2	0.31	0.94	4.24
37	-0.34	6.8	93.3	0.31	0.94	4.27
38	-0.36	6.8	94.8	0.31	0.94	4.30
39	-0.37	6.9	96.3	0.31	0.93	4.34
40	-0.39	6.9	97.8	0.31	0.93	4.37
41	-0.40	7.0	98.9	0.31	0.92	4.40
42	-0.40	7.0	100.5	0.31	0.92	4.44
43	-0.44	7.1	104.1	0.31	0.92	4.53
44	-0.48	7.2	109.2	0.31	0.92	4.66
45	-0.52	7.4	114.8	0.31	0.91	4.80
46	-0.56	7.5	120.7	0.31	0.91	4.95
47	-0.60	7.6	125.5	0.31	0.91	5.08
48	-0.60	7.7	133.5	0.31	0.91	5.28
49	-0.75	8.1	155.7	0.30	0.90	5.86
50	-0.89	8.5	194.1	0.30	0.89	6.86
51	-1.04	9.0	247.5	0.30	0.88	8.23
52	-1.18	9.5	324.8	0.30	0.86	10.19
53	-1.33	9.8	405.7	0.30	0.85	12.20
54	-1.33	10.0	453.3	0.29	0.85	13.39
55	-1.38	10.1	498.4	0.29	0.84	14.50
56	-1.44	10.3	536.5	0.29	0.84	15.31
57	-1.49	10.5	363.1	0.29	0.83	10.16
58	-1.55	10.6	386.9	0.29	0.83	10.63
59	-1.60	10.8	405.7	0.29	0.82	10.99
60	-1.60	10.8	418.5	0.29	0.82	11.24
61	-1.65	10.9	436.1	0.29	0.81	11.58
62	-1.69	12.1	456.7	0.32	0.81	11.94
63	-1.74	15.0	437.1	0.39	0.80	11.26
64	-1.78	15.0	420.7	0.38	0.79	10.67
65	-1.83	15.1	411.4	0.38	0.79	10.32
66	-1.83	15.2	407.0	0.38	0.79	10.15
67	-1.86	15.3	402.2	0.38	0.78	9.95
68	-1.90	15.5	396.7	0.38	0.78	9.71
69	-1.93	15.6	392.2	0.38	0.78	9.50
70	-1.97	15.8	388.5	0.38	0.77	9.31
71	-2.00	15.9	386.1	0.38	0.77	9.21
72	-2.00	9.0	236.2	0.25	0.77	6.49
73	-2.03	9.0	235.6	0.46	1.13	11.98
74	-2.06	9.1	234.8	0.46	1.13	11.82
75	-2.09	9.2	234.1	0.46	1.12	11.67
76	-2.12	9.2	233.5	0.46	1.12	11.52
77	-2.15	9.3	233.0	0.45	1.11	11.41
78	-2.15	9.3	232.8	0.45	1.11	11.36
79	-2.16	9.3	232.7	0.45	1.11	11.33
80	-2.17	9.4	232.5	0.45	1.11	11.28
81	-2.18	9.4	232.3	0.45	1.10	11.24
82	-2.19	9.4	232.2	0.45	1.10	11.19
83	-2.20	9.4	232.0	0.45	1.10	11.16
84	-2.20	9.4	231.9	0.45	1.10	11.12
85	-2.23	9.5	231.6	0.45	1.09	11.03
86	-2.25	9.5	231.2	0.45	1.09	10.92
87	-2.28	9.6	230.8	0.45	1.08	10.81
88	-2.30	13.7	230.4	0.63	1.07	10.71
89	-2.33	13.7	230.2	0.63	1.07	10.63
90	-2.33	13.8	230.0	0.63	1.07	10.56
91	-2.38	13.9	229.5	0.63	1.06	10.40
92	-2.44	14.1	229.0	0.63	1.05	10.21
93	-2.49	14.3	228.5	0.63	1.04	10.03
94	-2.55	14.4	228.1	0.62	1.03	9.85
95	-2.60	14.6	227.8	0.62	1.02	9.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-2.60	14.7	227.7	0.62	1.02	9.63
97	-2.68	14.9	227.4	0.62	1.01	9.45
98	-2.76	15.1	227.1	0.61	1.00	9.23
99	-2.84	15.4	226.8	0.61	0.98	9.03
100	-2.92	15.6	226.7	0.61	0.97	8.83
101	-3.00	15.8	226.6	0.61	0.96	8.69
102	-3.00	15.9	226.6	0.60	0.96	8.58
103	-3.12	16.2	226.6	0.60	0.94	8.39
104	-3.24	16.6	226.7	0.60	0.93	8.16
105	-3.36	16.9	226.9	0.59	0.91	7.94
106	-3.48	17.2	212.9	0.59	0.89	7.25
107	-3.60	17.5	182.6	0.58	0.88	6.10
108	-3.60	17.7	134.2	0.58	0.88	4.42
109	-3.72	17.9	55.3	0.58	0.86	1.79
110	-3.85	18.2	56.3	0.57	0.85	1.77
111	-3.97	18.6	57.2	0.57	0.84	1.76
112	-4.09	18.9	58.1	0.57	0.83	1.75
113	-4.21	19.1	58.8	0.56	0.82	1.74
114	-4.21	19.3	59.2	0.56	0.82	1.73
115	-4.34	19.5	59.9	0.56	0.81	1.72
116	-4.46	19.8	60.8	0.56	0.80	1.71
117	-4.58	20.1	61.7	0.55	0.79	1.70
118	-4.71	23.7	62.6	0.64	0.78	1.69
119	-4.83	24.2	63.3	0.64	0.77	1.68
120	-4.83	24.3	63.6	0.64	0.77	1.68
121	-4.86	24.4	63.7	0.64	0.76	1.68
122	-4.90	24.5	64.0	0.64	0.76	1.68
123	-4.93	24.5	64.2	0.64	0.76	1.67
124	-4.97	24.6	64.5	0.64	0.75	1.67
125	-5.00	24.7	64.7	0.64	0.76	1.67
126	-5.00	27.8	191.3	0.62	0.76	4.28
127	-5.07	28.0	192.3	0.45	0.64	3.10
128	-5.13	28.2	193.6	0.45	0.64	3.09
129	-5.20	28.4	195.0	0.45	0.63	3.09
130	-5.26	28.6	196.3	0.45	0.63	3.08
131	-5.33	28.8	197.3	0.45	0.63	3.07
132	-5.33	28.9	198.1	0.45	0.63	3.07
133	-5.43	29.2	199.7	0.45	0.63	3.06
134	-5.53	29.5	201.7	0.45	0.62	3.05
135	-5.63	29.8	203.8	0.45	0.62	3.04
136	-5.73	30.1	205.8	0.44	0.61	3.04
137	-5.83	30.4	207.4	0.44	0.61	3.03
138	-5.83	30.6	208.6	0.44	0.61	3.03
139	-5.96	30.9	230.9	0.44	0.61	3.31
140	-6.10	31.3	237.5	0.44	0.60	3.35
141	-6.23	31.7	240.3	0.44	0.60	3.33
142	-6.36	32.1	243.1	0.44	0.60	3.32
143	-6.50	32.4	245.2	0.44	0.59	3.31
144	-6.50	32.6	246.6	0.44	0.59	3.31
145	-6.63	34.5	260.5	0.46	0.59	3.46
146	-6.76	37.2	280.9	0.49	0.59	3.67
147	-6.90	37.6	283.8	0.48	0.58	3.66
148	-7.03	38.0	286.8	0.48	0.58	3.64
149	-7.16	38.3	289.0	0.48	0.58	3.64
150	-7.16	38.5	292.2	0.48	0.58	3.65
151	-7.30	38.7	298.2	0.48	0.58	3.69
152	-7.43	39.1	306.3	0.48	0.57	3.74
153	-7.56	39.5	314.4	0.48	0.57	3.79
154	-7.70	39.9	322.9	0.47	0.57	3.84
155	-7.83	40.2	329.6	0.47	0.57	3.88
156	-7.83	39.8	332.7	0.47	0.57	3.90
157	-7.90	37.9	336.6	0.44	0.56	3.93
158	-7.98	37.8	341.7	0.44	0.56	3.96
159	-8.05	38.0	346.9	0.44	0.56	3.99

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-8.13	38.2	352.2	0.44	0.56	4.03
161	-8.20	38.4	355.4	0.44	0.56	4.04
162	-8.20	38.8	392.0	0.44	0.56	4.42
163	-8.34	39.1	396.4	0.44	0.53	4.41
164	-8.47	39.6	402.2	0.43	0.53	4.40
165	-8.61	40.1	408.0	0.43	0.53	4.39
166	-8.74	40.6	413.8	0.43	0.52	4.38
167	-8.88	41.0	418.2	0.43	0.52	4.38
168	-8.88	41.2	420.7	0.43	0.52	4.37
169	-8.98	41.5	424.0	0.43	0.52	4.37
170	-9.08	41.8	428.3	0.43	0.52	4.36
171	-9.18	42.2	432.6	0.42	0.52	4.36
172	-9.28	42.5	436.9	0.42	0.52	4.35
173	-9.38	42.8	440.1	0.42	0.52	4.35
174	-9.38	42.9	441.2	0.42	0.52	4.35
175	-9.38	42.9	441.2	0.42	0.52	4.35
176	-9.38	42.9	441.3	0.42	0.52	4.35
177	-9.39	42.9	441.4	0.42	0.52	4.35
178	-9.39	42.9	441.5	0.42	0.52	4.35
179	-9.39	42.9	441.6	0.42	0.52	4.35
180	-9.39	43.0	441.0	0.42	0.52	4.34
181	-9.41	43.0	448.1	0.42	0.52	4.40
182	-9.43	43.1	455.4	0.42	0.52	4.46
183	-9.46	43.2	456.3	0.42	0.52	4.46
184	-9.48	43.3	457.3	0.42	0.52	4.46
185	-9.50	43.3	458.0	0.42	0.52	4.46
186	-9.50	43.4	458.8	0.42	0.52	4.46
187	-9.56	43.5	460.7	0.42	0.52	4.45
188	-9.62	43.8	463.2	0.42	0.52	4.45
189	-9.67	44.0	465.7	0.42	0.52	4.45
190	-9.73	44.2	468.1	0.42	0.51	4.44
191	-9.79	44.3	470.0	0.42	0.51	4.44
192	-9.79	44.4	470.8	0.42	0.51	4.44
193	-9.81	44.4	471.4	0.42	0.51	4.44
194	-9.83	44.5	472.2	0.42	0.51	4.44
195	-9.84	44.6	472.9	0.42	0.51	4.44
196	-9.86	44.6	473.7	0.42	0.51	4.44
197	-9.88	44.7	474.3	0.42	0.51	4.44
198	-9.88	44.7	474.5	0.42	0.51	4.43
199	-9.88	44.7	474.6	0.42	0.51	4.43
200	-9.88	44.7	474.7	0.42	0.51	4.43
201	-9.89	44.7	474.7	0.42	0.51	4.43
202	-9.89	44.7	474.8	0.42	0.51	4.43
203	-9.89	44.7	474.9	0.42	0.51	4.43
204	-9.89	44.8	475.8	0.42	0.51	4.43
205	-9.97	45.0	478.3	0.42	0.51	4.43
206	-10.05	45.3	481.8	0.42	0.51	4.43
207	-10.13	45.6	485.2	0.42	0.51	4.42
208	-10.21	45.6	495.9	0.41	0.50	4.48
209	-10.29	45.1	506.4	0.41	0.50	4.55
210	-10.29	44.9	507.4	0.40	0.50	4.55
211	-10.31	44.7	508.0	0.40	0.50	4.55
212	-10.33	44.6	508.7	0.40	0.50	4.55
213	-10.34	44.4	509.5	0.40	0.50	4.55
214	-10.36	44.2	510.3	0.39	0.50	4.55
215	-10.38	44.1	510.8	0.39	0.50	4.54
216	-10.38	43.1	511.1	0.38	0.50	4.54
217	-10.38	44.0	511.1	0.39	0.50	4.54
218	-10.38	44.1	511.2	0.39	0.50	4.54
219	-10.39	44.1	511.3	0.39	0.50	4.54
220	-10.39	44.0	511.4	0.39	0.50	4.54
221	-10.39	44.9	511.4	0.40	0.50	4.54
222	-10.39	43.8	512.3	0.39	0.50	4.54
223	-10.47	43.6	514.9	0.38	0.50	4.54

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-10.55	43.8	518.4	0.38	0.50	4.53
225	-10.64	44.1	521.9	0.38	0.50	4.53
226	-10.72	44.4	525.4	0.38	0.50	4.52
227	-10.80	44.6	528.1	0.38	0.50	4.53
228	-10.80	46.8	458.8	0.40	0.50	3.93
229	-10.81	46.8	458.9	0.40	0.54	3.93
230	-10.81	46.8	459.1	0.40	0.54	3.93
231	-10.82	46.8	459.2	0.40	0.54	3.93
232	-10.82	46.8	459.3	0.40	0.54	3.93
233	-10.83	46.9	459.4	0.40	0.54	3.93
234	-10.83	46.9	428.6	0.40	0.54	3.66
235	-10.92	47.1	430.3	0.40	0.54	3.66
236	-11.01	47.4	432.4	0.40	0.54	3.66
237	-11.11	47.6	434.5	0.40	0.54	3.65
238	-11.20	47.8	436.6	0.40	0.54	3.65
239	-11.29	48.0	438.1	0.40	0.54	3.65
240	-11.29	48.1	438.7	0.40	0.54	3.65
241	-11.31	48.1	439.0	0.40	0.53	3.65
242	-11.33	48.2	439.5	0.40	0.53	3.64
243	-11.34	48.2	439.9	0.40	0.53	3.64
244	-11.36	56.2	440.3	0.47	0.53	3.64
245	-11.38	32.5	440.6	0.27	0.53	3.64
246	-11.38	48.3	440.7	0.40	0.53	3.64
247	-11.38	48.3	440.7	0.40	0.53	3.64
248	-11.38	48.3	440.8	0.40	0.53	3.64
249	-11.39	48.3	440.8	0.40	0.53	3.64
250	-11.39	48.3	440.9	0.40	0.53	3.64
251	-11.39	48.4	440.9	0.40	0.53	3.64
252	-11.39	48.4	441.0	0.40	0.53	3.64
253	-11.41	55.2	441.4	0.46	0.53	3.64
254	-11.43	48.8	441.9	0.40	0.53	3.64
255	-11.46	48.4	442.4	0.40	0.53	3.64
256	-11.48	48.5	442.9	0.40	0.53	3.64
257	-11.50	48.5	443.3	0.40	0.53	3.64
258	-11.50	48.5	443.8	0.40	0.53	3.64
259	-11.58	46.5	445.1	0.38	0.53	3.64
260	-11.66	48.4	446.9	0.39	0.53	3.63
261	-11.73	48.6	448.7	0.39	0.53	3.63
262	-11.81	48.9	450.4	0.39	0.53	3.63
263	-11.89	49.0	451.8	0.39	0.53	3.63
264	-11.89	49.1	452.6	0.39	0.53	3.63
265	-11.97	49.3	441.9	0.39	0.54	3.53
266	-12.05	49.5	441.4	0.39	0.54	3.51
267	-12.13	49.7	443.2	0.39	0.54	3.51
268	-12.21	49.9	445.0	0.39	0.54	3.51
269	-12.29	50.1	446.3	0.39	0.39	3.51
270	-12.29	50.1	446.9	0.39	0.59	3.50
271	-12.31	50.2	447.2	0.39	0.59	3.50
272	-12.33	50.2	447.6	0.39	0.59	3.50
273	-12.34	50.3	448.0	0.39	0.59	3.50
274	-12.36	50.3	448.4	0.39	0.59	3.50
275	-12.38	50.3	448.7	0.39	0.59	3.50
276	-12.38	50.4	448.8	0.39	0.59	3.50
277	-12.38	50.4	448.9	0.39	0.59	3.50
278	-12.38	50.4	448.9	0.39	0.59	3.50
279	-12.39	50.4	448.9	0.39	0.59	3.50
280	-12.39	50.4	449.0	0.39	0.59	3.50
281	-12.39	50.4	449.0	0.39	0.59	3.50
282	-12.39	50.4	449.2	0.39	0.59	3.50
283	-12.41	50.4	449.5	0.39	0.59	3.50
284	-12.43	50.5	450.0	0.39	0.59	3.50
285	-12.46	50.5	450.5	0.39	0.59	3.50
286	-12.48	50.6	451.0	0.39	0.59	3.50
287	-12.50	50.6	451.4	0.39	0.59	3.50

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-12.50	50.7	451.8	0.39	0.59	3.50
289	-12.56	50.8	452.8	0.39	0.59	3.50
290	-12.62	51.0	454.1	0.39	0.59	3.50
291	-12.67	51.1	455.4	0.39	0.59	3.50
292	-12.73	51.3	438.9	0.39	0.59	3.36
293	-12.79	51.4	439.7	0.39	0.59	3.36
294	-12.79	51.5	440.5	0.39	0.59	3.36
295	-12.87	51.6	441.9	0.39	0.59	3.36
296	-12.95	51.9	443.7	0.39	0.59	3.36
297	-13.04	52.1	445.6	0.39	0.58	3.36
298	-13.12	52.3	447.4	0.39	0.58	3.36
299	-13.20	52.4	448.8	0.39	0.58	3.35
300	-13.20	49.7	530.9	0.37	0.58	3.95
301	-13.23	49.7	531.8	0.37	0.54	3.95
302	-13.25	49.8	532.9	0.37	0.54	3.95
303	-13.28	49.9	534.0	0.37	0.54	3.96
304	-13.30	50.0	535.2	0.37	0.54	3.96
305	-13.33	50.1	536.0	0.37	0.54	3.96
306	-13.33	50.2	537.9	0.37	0.54	3.96
307	-13.48	50.6	542.6	0.37	0.54	3.96
308	-13.62	51.1	548.9	0.37	0.54	3.96
309	-13.77	51.6	555.3	0.37	0.54	3.96
310	-13.91	52.1	550.5	0.37	0.54	3.89
311	-14.06	52.2	552.3	0.37	0.54	3.87
312	-14.06	52.0	555.4	0.36	0.54	3.87
313	-14.21	52.4	560.2	0.36	0.54	3.87
314	-14.35	53.5	575.8	0.37	0.54	3.94
315	-14.50	54.3	587.3	0.37	0.54	3.97
316	-14.64	54.8	593.6	0.37	0.54	3.98
317	-14.79	55.1	598.3	0.37	0.54	3.98
318	-14.79	55.3	600.1	0.37	0.54	3.98
319	-14.81	55.3	600.7	0.37	0.54	3.98
320	-14.83	55.4	601.5	0.37	0.54	3.98
321	-14.84	55.4	602.2	0.37	0.54	3.98
322	-14.86	55.5	603.0	0.37	0.54	3.98
323	-14.88	55.6	603.6	0.37	0.54	3.98
324	-14.88	55.6	604.0	0.37	0.54	3.98
325	-14.90	55.6	604.8	0.37	0.54	3.98
326	-14.93	55.7	605.9	0.37	0.54	3.98
327	-14.95	55.8	606.9	0.37	0.54	3.98
328	-14.98	61.3	607.9	0.40	0.54	3.98
329	-15.00	56.3	608.7	0.37	0.54	3.98
330	-15.00	56.2	609.8	0.37	0.54	3.98
331	-15.08	54.5	618.0	0.35	0.54	4.02
332	-15.16	56.5	634.0	0.37	0.54	4.10
333	-15.23	56.8	637.4	0.37	0.54	4.10
334	-15.31	57.1	640.7	0.37	0.54	4.10
335	-15.39	57.3	643.3	0.37	0.54	4.10
336	-15.39	57.3	644.4	0.36	0.54	4.10
337	-15.41	57.4	645.1	0.36	0.54	4.10
338	-15.43	57.5	646.0	0.36	0.54	4.10
339	-15.46	57.5	647.0	0.36	0.54	4.10
340	-15.48	57.6	647.9	0.36	0.54	4.10
341	-15.50	57.7	648.7	0.36	0.54	4.10
342	-15.50	57.7	649.5	0.36	0.54	4.10
343	-15.56	57.9	651.4	0.36	0.54	4.10
344	-15.62	58.1	653.9	0.36	0.54	4.10
345	-15.67	58.3	656.4	0.36	0.54	4.10
346	-15.73	58.5	658.9	0.36	0.54	4.10
347	-15.79	58.6	660.8	0.36	0.54	4.10
348	-15.79	58.7	661.5	0.36	0.54	4.10
349	-15.80	58.7	661.8	0.36	0.54	4.10
350	-15.81	58.7	662.1	0.36	0.54	4.10
351	-15.81	58.8	662.5	0.36	0.54	4.10

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
352	-15.82	58.8	662.8	0.36	0.54	4.10
353	-15.83	58.8	663.1	0.36	0.54	4.10
354	-15.83	58.8	663.3	0.36	0.54	4.10
355	-15.84	58.9	663.7	0.36	0.54	4.10
356	-15.85	58.9	664.2	0.36	0.54	4.10
357	-15.87	58.9	664.7	0.36	0.54	4.10
358	-15.88	59.0	665.3	0.36	0.54	4.10
359	-15.89	59.0	665.7	0.36	0.54	4.10
360	-15.89	59.1	666.0	0.36	0.54	4.10
361	-15.91	59.1	666.7	0.36	0.54	4.10
362	-15.93	59.2	667.7	0.36	0.54	4.10
363	-15.96	59.3	668.6	0.36	0.54	4.10
364	-15.98	59.3	669.6	0.36	0.54	4.10
365	-16.00	59.4	670.3	0.36	0.54	4.11
366	-16.00	69.9	479.3	0.43	0.54	2.93
367	-16.02	70.0	479.6	0.43	0.63	2.93
368	-16.04	70.0	480.0	0.43	0.63	2.93
369	-16.06	70.1	480.4	0.43	0.63	2.93
370	-16.08	70.1	480.8	0.43	0.63	2.93
371	-16.10	70.1	481.1	0.43	0.63	2.93

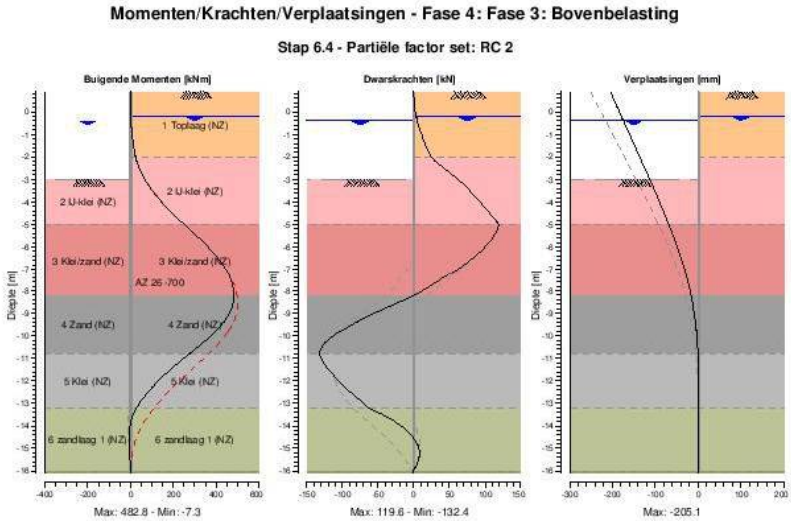
18.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	51.61
3 Klei/zand (NZ)	110.14
4 Zand (NZ)	111.24
5 Klei (NZ)	181.04
6 zandlaag 1 (NZ)	229.55
7 klei (NZ)	9.43
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

18.7 Berekeningsresultaten

Aantal iteraties: 5

18.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



18.7.2 Momenten, Krachten en Verplaatsingen

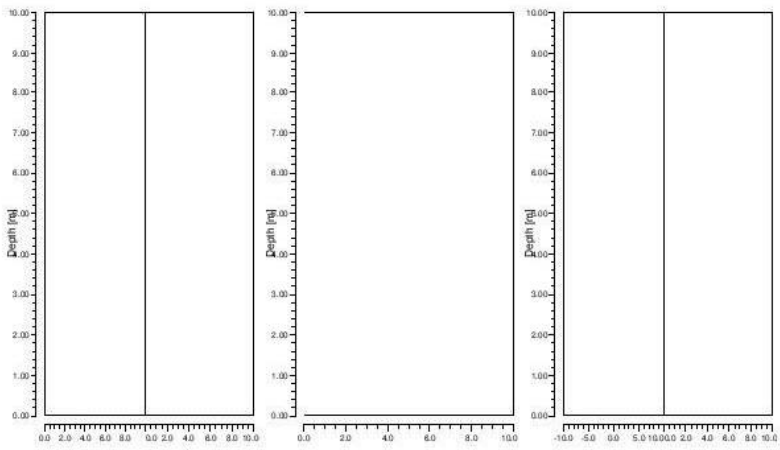
Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-205.1**
1	0.60	0.03	0.26	-198.0
2	0.60	0.03	0.26	-198.0
2	0.40	0.12	0.72	-193.2
3	0.40	0.12	0.72	-193.2
3	0.20	0.33	1.41	-188.5
4	0.20	0.33	1.41	-188.5
4	0.17	0.37	1.53	-187.8
5	0.17	0.37	1.53	-187.8
5	-0.20	1.28	3.48	-179.0
6	-0.20	1.28	3.48	-179.0
6	-0.33	1.79	4.41	-175.9
7	-0.33	1.79	4.41	-175.9
7	-0.40	2.12	5.00	-174.3
8	-0.40	2.12	5.00	-174.3
8	-0.60	3.30	6.84	-169.5
9	-0.60	3.30	6.84	-169.5
9	-1.33	11.04	14.64	-152.2
10	-1.33	11.04	14.64	-152.2
10	-1.60	15.44	17.96	-145.8
11	-1.60	15.44	17.96	-145.8
11	-1.83	19.94	21.43	-140.4
12	-1.83	19.94	21.43	-140.4
12	-2.00	23.84	24.41	-136.4
13	-2.00	23.84	24.41	-136.4
13	-2.15	27.87	29.39	-132.8
14	-2.15	27.87	29.39	-132.8
14	-2.20	29.38	31.08	-131.7
15	-2.20	29.38	31.08	-131.7
15	-2.33	33.71	35.66	-128.6
16	-2.33	33.71	35.66	-128.6

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.60	44.74	46.11	-122.3
17	-2.60	44.74	46.11	-122.3
17	-3.00	66.35	62.00	-112.9
18	-3.00	66.35	62.00	-112.9
18	-3.60	109.54	81.30	-99.1
19	-3.60	109.54	81.30	-99.1
19	-4.21	165.01	98.80	-85.2
20	-4.21	165.01	98.80	-85.2
20	-4.83	230.72	115.03	-71.9
21	-4.83	230.72	115.03	-71.9
21	-5.00	250.67	119.62	-68.3
22	-5.00	250.67	119.62	-68.3
22	-5.33	289.53	115.38	-61.5
23	-5.33	289.53	115.37	-61.5
23	-5.83	344.77	104.82	-51.8
24	-5.83	344.77	104.81	-51.8
24	-6.50	407.83	82.95	-39.8
25	-6.50	407.84	82.91	-39.8
25	-7.16	453.79	53.89	-29.3
26	-7.16	453.78	53.86	-29.3
26	-7.83	478.71	20.88	-20.4
27	-7.83	478.71	20.86	-20.4
27	-8.20	**482.82**	1.25	-16.2
28	-8.20	**482.82**	1.23	-16.2
28	-8.88	467.41	-46.93	-9.8
29	-8.88	467.40	-47.03	-9.8
29	-9.38	435.68	-78.92	-6.2
30	-9.38	435.68	-79.00	-6.2
30	-9.39	434.89	-79.59	-6.1
31	-9.39	434.89	-79.59	-6.1
31	-9.50	425.78	-85.93	-5.5
32	-9.50	425.78	-85.93	-5.5
32	-9.79	398.52	-101.85	-3.9
33	-9.79	398.52	-101.84	-3.9
33	-9.88	389.14	-106.59	-3.5
34	-9.88	389.14	-106.59	-3.5
34	-9.89	388.08	-107.11	-3.4
35	-9.89	388.08	-107.16	-3.4
35	-10.29	341.58	-123.65	-1.8
36	-10.29	341.58	-123.65	-1.8
36	-10.38	330.34	-126.11	-1.5
37	-10.38	330.34	-126.11	-1.5
37	-10.39	329.07	-126.37	-1.5
38	-10.39	329.07	-126.36	-1.5
38	-10.80	275.70	-132.37	-0.4
39	-10.80	275.70	**-132.38**	-0.4
39	-10.83	271.73	-132.14	-0.3
40	-10.83	271.73	-132.13	-0.3
40	-11.29	212.42	-124.72	0.4
41	-11.29	212.42	-124.72	0.4
41	-11.38	201.29	-122.65	0.5
42	-11.38	201.29	-122.65	0.5
42	-11.39	200.07	-122.41	0.5
43	-11.39	200.07	-122.41	0.5
43	-11.50	186.75	-119.68	0.7
44	-11.50	186.75	-119.68	0.7
44	-11.89	142.16	-108.73	0.9
45	-11.89	142.16	-108.73	0.9
45	-12.29	101.13	-96.94	1.0
46	-12.29	101.13	-96.94	1.0
46	-12.38	92.56	-93.51	1.0
47	-12.38	92.56	-93.51	1.0
47	-12.39	91.63	-93.13	1.0
48	-12.39	91.63	-93.13	1.0
48	-12.50	81.61	-88.96	1.0

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-12.50	81.61	-88.96	1.0
49	-12.79	57.39	-78.19	0.9
50	-12.79	57.39	-78.19	0.9
50	-13.20	28.30	-63.88	0.7
51	-13.20	28.30	-63.88	0.7
51	-13.33	20.59	-54.86	0.7
52	-13.33	20.59	-54.85	0.7
52	-14.06	-3.90	-15.47	0.3
53	-14.06	-3.90	-15.47	0.3
53	-14.79	-6.72	4.63	0.0
54	-14.79	-6.72	4.63	0.0
54	-14.88	-6.24	5.83	-0.1
55	-14.88	-6.24	5.83	-0.1
55	-15.00	-5.47	7.01	-0.1
56	-15.00	-5.47	7.01	-0.1
56	-15.39	-2.46	7.60	-0.3
57	-15.39	-2.46	7.59	-0.3
57	-15.50	-1.66	6.87	-0.4
58	-15.50	-1.66	6.87	-0.4
58	-15.79	-0.15	3.13	-0.5
59	-15.79	-0.15	3.13	-0.5
59	-15.83	-0.04	2.40	-0.5
60	-15.83	-0.04	2.40	-0.5
60	-15.89	0.08	1.25	-0.5
61	-15.89	0.08	1.25	-0.5
61	-16.00	0.08	-1.22	-0.6
62	-16.00	0.08	-1.22	-0.6
62	-16.10	0.00	0.00	-0.6
Max		**482.82**	**-132.38**	**-205.1**
Max incl. tussenknopen		482.82	-132.38	-205.1

18.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



18.7.4 Spanningen

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]		[%]
1	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.64	0.00	A	
2	0.60	0.00	0.00	-		1.78	0.00	A	
2	0.40	0.00	0.00	-		2.82	0.00	A	
3	0.40	0.00	0.00	-		2.94	0.00	A	
3	0.20	0.00	0.00	-		3.97	0.00	A	
4	0.20	0.00	0.00	-		4.04	0.00	A	
4	0.17	0.00	0.00	-		4.19	0.00	A	
5	0.17	0.00	0.00	-		4.31	0.00	A	
5	-0.20	0.00	0.00	-		6.19	0.00	A	
6	-0.20	0.00	0.00	-		6.31	0.00	A	
6	-0.33	0.00	0.00	-		6.68	1.28	A	
7	-0.33	0.00	0.00	-		6.71	1.28	A	
7	-0.40	0.00	0.00	-		6.91	1.96	A	
8	-0.40	0.00	0.00	-		6.96	1.96	A	
8	-0.60	0.00	1.96	-		7.53	3.92	A	
9	-0.60	0.00	1.96	-		7.68	3.92	A	
9	-1.33	0.00	9.12	-		9.78	11.09	A	
10	-1.33	0.00	9.12	-		9.94	11.09	A	
10	-1.60	0.00	11.77	-		10.71	13.73	A	
11	-1.60	0.00	11.77	-		10.79	13.73	A	
11	-1.83	0.00	14.03	-		15.09	15.99	A	
12	-1.83	0.00	14.03	-		15.18	15.99	A	
12	-2.00	0.00	15.70	-		15.90	17.66	A	
13	-2.00	0.00	15.70	-		4.83	40.16	A	
13	-2.15	0.00	17.17	-		9.32	41.63	A	
14	-2.15	0.00	17.17	-		9.34	41.63	A	
14	-2.20	0.00	17.66	-		9.44	42.12	A	
15	-2.20	0.00	17.66	-		9.46	42.12	A	
15	-2.33	0.00	18.93	-		13.75	43.40	A	
16	-2.33	0.00	18.93	-		13.81	43.40	A	
16	-2.60	0.00	21.58	-		14.61	46.04	A	
17	-2.60	0.00	21.58	-		14.72	46.04	A	
17	-3.00	0.00	25.51	-		15.83	49.97	A	
18	-3.00	0.00	25.51	P		15.97	49.97	A	
18	-3.60	11.88	31.39	P		17.52	55.85	A	
19	-3.60	12.34	31.39	P		17.68	55.85	A	
19	-4.21	16.52	37.43	P		19.15	61.89	A	
20	-4.21	16.99	37.43	P		19.31	61.89	A	
20	-4.83	21.17	43.46	P		24.27	67.92	A	
21	-4.83	21.46	43.46	P		24.36	67.92	A	
21	-5.00	22.39	45.13	P		24.67	69.59	A	
22	-5.00	42.01	45.13	P		38.29	47.09	A	
22	-5.33	46.84	48.36	P		28.78	50.33	A	
23	-5.33	47.71	48.36	P		28.91	50.33	A	
23	-5.83	57.81	53.27	P		30.35	55.23	A	
24	-5.83	59.17	53.27	P		30.53	55.23	A	
24	-6.50	73.31	59.81	P		32.36	61.77	A	
25	-6.50	74.89	59.81	P		32.56	61.77	A	
25	-7.16	89.00	66.35	3	99	38.25	68.31	A	
26	-7.16	90.11	66.35	3	99	38.44	68.31	A	
26	-7.83	91.61	72.89	3	87	40.13	74.85	A	
27	-7.83	92.47	72.89	3	87	39.74	74.85	A	
27	-8.20	93.45	76.52	3	82	38.29	78.48	A	
28	-8.20	109.47	76.52	3	88	38.64	78.48	A	
28	-8.88	111.84	83.19	2	75	40.85	85.15	A	
29	-8.88	112.91	83.19	2	74	41.07	85.15	A	
29	-9.38	103.05	88.09	2	60	42.69	90.06	A	
30	-9.38	103.51	88.09	2	60	42.78	90.06	A	
30	-9.39	103.36	88.19	2	60	42.81	90.15	A	
31	-9.39	103.47	88.19	2	60	42.83	90.15	A	

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* [%]
31	-9.50	101.90	89.27	2	57	43.19	91.23	A	
32	-9.50	102.27	89.27	2	57	43.26	91.23	A	
32	-9.79	99.10	92.12	2	52	44.19	94.08	A	
33	-9.79	99.44	92.12	2	52	44.26	94.08	A	
33	-9.88	98.73	93.00	2	51	44.55	94.96	A	
34	-9.88	98.82	93.00	2	51	44.57	94.96	A	
34	-9.89	98.75	93.10	2	51	44.60	95.06	A	
35	-9.89	99.12	93.10	2	51	44.67	95.06	A	
35	-10.29	76.03	97.02	1	36	44.98	98.98	A	
36	-10.29	76.25	97.02	1	36	44.77	98.98	A	
36	-10.38	71.34	97.90	1	33	44.00	99.87	A	
37	-10.38	71.38	97.90	1	33	43.02	99.87	A	
37	-10.39	70.86	98.00	1	33	44.79	99.96	A	
38	-10.39	71.05	98.00	1	33	43.70	99.96	A	
38	-10.80	53.74	102.02	1	23	50.78	103.99	1	
39	-10.80	50.34	102.02	1	25	54.49	103.99	1	
39	-10.83	52.83	102.32	1	26	59.80	104.28	1	
40	-10.83	52.98	102.32	1	26	59.89	104.28	1	
40	-11.29	47.93	106.83	1		68.13	108.79	1	16
41	-11.29	48.09	106.83	1		68.24	108.79	1	16
41	-11.38	47.50	107.71	1		69.31	109.68	1	16
42	-11.38	47.53	107.71	1		69.33	109.68	1	16
42	-11.39	47.47	107.81	1		69.44	109.77	1	16
43	-11.39	47.51	107.81	1		69.47	109.77	1	16
43	-11.50	46.96	108.89	1		70.75	110.85	1	16
44	-11.50	47.11	108.89	1		70.85	110.85	1	16
44	-11.89	46.37	112.72	1		74.28	114.68	1	16
45	-11.89	46.60	112.72	1		74.43	114.68	1	16
45	-12.29	47.42	116.64	1		58.83	118.60	1	13
46	-12.29	47.56	116.64	1		83.77	118.60	1	19
46	-12.38	47.92	117.52	1		84.03	119.49	1	19
47	-12.38	47.95	117.52	1		84.05	119.49	1	19
47	-12.39	47.99	117.62	1		84.07	119.58	1	19
48	-12.39	48.02	117.62	1		84.10	119.58	1	19
48	-12.50	48.54	118.70	1		84.33	120.66	1	19
49	-12.50	48.65	118.70	1		84.41	120.66	1	19
49	-12.79	50.31	121.55	1		84.72	123.51	1	19
50	-12.79	50.51	121.55	1		84.86	123.51	1	19
50	-13.20	53.16	125.57	1		84.74	127.53	1	19
51	-13.20	33.48	125.57	1		104.71	127.53	1	20
51	-13.33	32.42	126.84	1		97.52	128.81	1	18
52	-13.33	32.77	126.84	1		97.77	128.81	1	18
52	-14.06	49.31	134.00	1		88.00	135.97	1	16
53	-14.06	49.88	134.00	1		88.41	135.97	1	16
53	-14.79	66.04	141.17	1	18	79.00	143.13	1	
54	-14.79	66.35	141.17	1	18	79.23	143.13	1	
54	-14.88	68.27	142.05	1	18	78.14	144.01	1	
55	-14.88	68.35	142.05	1	18	78.20	144.01	1	
55	-15.00	70.88	143.23	1	19	76.77	145.19	1	
56	-15.00	71.07	143.23	1	19	76.92	145.19	1	
56	-15.39	79.15	147.05	1	20	72.43	149.01	1	
57	-15.39	79.33	147.05	1	20	72.57	149.01	1	
57	-15.50	81.59	148.13	1	20	71.33	150.09	1	
58	-15.50	81.73	148.13	1	20	71.44	150.09	1	
58	-15.79	87.64	150.98	1	21	68.19	152.94	1	
59	-15.79	87.76	150.98	1	21	68.28	152.94	1	
59	-15.83	88.58	151.37	1	21	67.84	153.33	1	
60	-15.83	88.61	151.37	1	21	72.96	153.33	1	
60	-15.89	89.83	151.96	1	21	67.20	153.92	1	
61	-15.89	89.90	151.96	1	21	67.24	153.92	1	
61	-16.00	92.18	153.04	1	22	66.01	155.00	1	
62	-16.00	77.62	153.04	1	27	80.68	155.00	1	
62	-16.10	45.68	154.02	1	16	95.86	155.98	1	

*

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

18.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	812.3	714.1
Water	1209.0	1307.5
Totaal	2021.3	2021.6

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	2327.55 kN
Gemobiliseerde passieve eff. weerstand	812.26 kN
Percentage gemobiliseerde weerstand	34.9 %

19 Stap 6.5 Fase 4: Fase 3: Bovenbelasting

19.1 Invoergegevens Links

19.1.1 Berekeningsmethode

Rekenmethode: C, phi, delta

19.1.2 Waterniveau

Freatisch niveau: -0.40 [m]

19.1.3 Maaiveld

X [m]	Y [m]
0.00	-3.00

19.1.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H)

Laag naam	Niveau	Volumegewicht		Cohesie	Wrijvingshoek phi	Delta wrijvingshoek
		Onverz.	Verz.			
	[m]	[kN/m³]	[kN/m³]	[kN/m²]	[graad]	[graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau	Schelpfactor	OCR	Korreltype
	[m]	[-]	[-]	
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	1.00	1.00	Fijn

Laag naam	Niveau	Gronddrukcoëfficiënten			Wateroverspanning	
		Actief	Neutraal	Passief	Boven	Onder
	[m]	[-]	[-]	[-]	[kN/m²]	[kN/m²]
1 Toplaag (NZ)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	0.00	0.00
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

19.1.5 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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

19.2 Berekende Gronddrukcoëfficiënten Links

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	-3.12	0.0	11.4	0.00	1.73	25.66
2	-3.24	0.0	12.4	0.00	1.73	14.00
3	-3.36	0.0	13.4	0.00	1.73	10.11
4	-3.48	0.0	14.5	0.00	1.72	8.17
5	-3.60	0.0	15.2	0.00	1.72	7.25
6	-3.60	0.0	15.8	0.00	1.72	6.78
7	-3.72	0.0	16.6	0.00	1.72	6.21
8	-3.85	0.0	17.6	0.00	1.72	5.65
9	-3.97	0.0	18.7	0.00	1.72	5.23
10	-4.09	0.0	19.8	0.00	1.71	4.90
11	-4.21	0.0	20.6	0.00	1.71	4.70
12	-4.21	0.0	21.1	0.00	1.71	4.59
13	-4.34	0.0	21.9	0.00	1.70	4.43
14	-4.46	0.0	22.9	0.00	1.70	4.25
15	-4.58	0.0	24.0	0.00	1.70	4.11
16	-4.71	0.0	25.1	0.00	1.69	3.98
17	-4.83	0.0	25.9	0.00	1.69	3.89
18	-4.83	0.0	26.2	0.00	1.69	3.86
19	-4.86	0.0	26.4	0.00	1.68	3.84
20	-4.90	0.0	26.7	0.00	1.68	3.81
21	-4.93	0.0	27.0	0.00	1.68	3.79
22	-4.97	0.0	27.3	0.00	1.68	3.76
23	-5.00	0.0	27.5	0.00	1.66	3.70
24	-5.00	0.0	61.6	0.00	1.66	8.11
25	-5.07	0.0	60.8	0.00	1.48	7.68
26	-5.13	0.0	61.2	0.00	1.45	7.31
27	-5.20	0.0	62.2	0.00	1.43	7.06
28	-5.26	0.0	63.6	0.00	1.41	6.87
29	-5.33	0.0	64.7	0.00	1.40	6.75
30	-5.33	0.0	65.7	0.00	1.40	6.67
31	-5.43	0.0	67.7	0.00	1.37	6.53
32	-5.53	0.0	70.4	0.00	1.35	6.38
33	-5.63	0.0	73.2	0.00	1.33	6.26

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
34	-5.73	0.0	76.1	0.00	1.31	6.15
35	-5.83	0.0	78.3	0.00	1.29	6.08
36	-5.83	0.0	80.0	0.00	1.29	6.03
37	-5.96	0.0	83.0	0.00	1.27	5.96
38	-6.10	0.0	87.0	0.00	1.25	5.87
39	-6.23	0.0	91.0	0.00	1.24	5.79
40	-6.36	0.0	95.1	0.00	1.22	5.73
41	-6.50	0.0	98.1	0.00	1.21	5.68
42	-6.50	0.0	100.2	0.00	1.21	5.65
43	-6.63	0.0	103.2	0.00	1.19	5.62
44	-6.76	0.0	107.3	0.00	1.18	5.57
45	-6.90	0.0	111.4	0.00	1.17	5.52
46	-7.03	0.0	115.5	0.00	1.16	5.49
47	-7.16	0.0	118.6	0.00	1.15	5.46
48	-7.16	0.0	120.7	0.00	1.15	5.44
49	-7.30	0.0	123.8	0.00	1.14	5.42
50	-7.43	1.4	127.9	0.06	1.13	5.39
51	-7.56	4.5	132.0	0.18	1.12	5.36
52	-7.70	4.8	136.1	0.19	1.11	5.33
53	-7.83	5.0	139.2	0.19	1.10	5.32
54	-7.83	5.1	140.8	0.19	1.10	5.31
55	-7.90	5.2	142.6	0.19	1.09	5.30
56	-7.98	5.4	144.9	0.20	1.09	5.29
57	-8.05	5.5	147.2	0.20	1.09	5.27
58	-8.13	5.7	149.4	0.20	1.08	5.26
59	-8.20	5.8	151.2	0.20	1.07	5.22
60	-8.20	8.1	170.5	0.28	1.07	5.78
61	-8.34	8.4	176.2	0.28	1.01	5.77
62	-8.47	8.8	183.8	0.28	1.00	5.76
63	-8.61	9.2	191.5	0.28	0.98	5.75
64	-8.74	9.6	199.2	0.28	0.97	5.74
65	-8.88	9.9	205.0	0.28	0.96	5.74
66	-8.88	10.0	208.4	0.28	0.96	5.74
67	-8.98	10.3	212.7	0.28	0.95	5.73
68	-9.08	10.5	218.4	0.28	0.94	5.73
69	-9.18	10.8	224.1	0.28	0.94	5.73
70	-9.28	11.1	229.9	0.28	0.93	5.73
71	-9.38	11.3	234.2	0.28	0.92	5.72
72	-9.38	11.4	235.7	0.28	0.92	5.72
73	-9.38	11.4	235.8	0.28	0.92	5.72
74	-9.38	11.4	235.9	0.28	0.92	5.72
75	-9.39	11.4	236.0	0.28	0.92	5.72
76	-9.39	11.4	236.1	0.28	0.92	5.72
77	-9.39	11.4	236.2	0.28	0.92	5.72
78	-9.39	11.4	236.5	0.28	0.92	5.72
79	-9.41	11.5	237.5	0.28	0.92	5.72
80	-9.43	11.6	238.7	0.28	0.92	5.72
81	-9.46	11.6	240.0	0.28	0.92	5.72
82	-9.48	11.7	241.3	0.28	0.91	5.72
83	-9.50	11.7	242.2	0.28	0.91	5.72
84	-9.50	11.8	243.4	0.28	0.91	5.72
85	-9.56	11.9	245.9	0.28	0.91	5.72
86	-9.62	12.1	249.2	0.28	0.91	5.72
87	-9.67	12.2	252.6	0.28	0.90	5.72
88	-9.73	12.4	255.9	0.28	0.90	5.72
89	-9.79	12.5	258.4	0.28	0.89	5.72
90	-9.79	12.6	259.5	0.28	0.89	5.72
91	-9.81	12.6	260.3	0.28	0.89	5.72
92	-9.83	12.7	261.4	0.28	0.89	5.72
93	-9.84	12.7	262.4	0.28	0.89	5.72
94	-9.86	12.8	263.4	0.28	0.89	5.72
95	-9.88	12.8	264.2	0.28	0.89	5.72
96	-9.88	12.8	264.5	0.28	0.89	5.72
97	-9.88	12.8	264.6	0.28	0.89	5.72

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
98	-9.88	12.8	264.7	0.28	0.89	5.72
99	-9.89	12.8	264.8	0.28	0.89	5.72
100	-9.89	12.8	264.9	0.28	0.89	5.72
101	-9.89	12.8	265.0	0.28	0.89	5.72
102	-9.89	12.9	266.2	0.28	0.89	5.72
103	-9.97	13.1	269.7	0.28	0.88	5.72
104	-10.05	13.3	274.3	0.28	0.88	5.72
105	-10.13	13.5	279.0	0.28	0.87	5.71
106	-10.21	13.8	283.6	0.28	0.87	5.71
107	-10.29	13.9	287.1	0.28	0.87	5.71
108	-10.29	14.0	288.5	0.28	0.87	5.71
109	-10.31	14.0	289.3	0.28	0.87	5.71
110	-10.33	14.1	290.3	0.28	0.86	5.71
111	-10.34	14.1	291.4	0.28	0.86	5.71
112	-10.36	14.2	292.4	0.28	0.86	5.71
113	-10.38	14.2	293.2	0.28	0.86	5.71
114	-10.38	14.2	293.5	0.28	0.86	5.71
115	-10.38	14.3	293.6	0.28	0.86	5.71
116	-10.38	14.3	293.7	0.28	0.86	5.71
117	-10.39	14.3	293.8	0.28	0.86	5.71
118	-10.39	14.3	293.9	0.28	0.86	5.71
119	-10.39	14.3	294.0	0.28	0.86	5.71
120	-10.39	14.3	295.2	0.28	0.86	5.71
121	-10.47	14.5	298.8	0.28	0.86	5.71
122	-10.55	14.7	303.6	0.28	0.85	5.71
123	-10.64	15.0	308.3	0.28	0.85	5.71
124	-10.72	15.2	313.1	0.28	0.84	5.71
125	-10.80	15.4	316.7	0.28	0.85	5.73
126	-10.80	14.7	258.5	0.27	0.85	4.67
127	-10.81	14.7	258.7	0.27	0.90	4.67
128	-10.81	14.7	258.8	0.27	0.90	4.67
129	-10.82	14.8	259.0	0.27	0.90	4.67
130	-10.82	14.8	259.2	0.27	0.90	4.67
131	-10.83	14.8	259.3	0.27	0.90	4.67
132	-10.83	14.8	260.0	0.27	0.90	4.67
133	-10.92	15.0	262.0	0.27	0.90	4.66
134	-11.01	15.2	264.6	0.27	0.89	4.66
135	-11.11	15.4	267.3	0.27	0.89	4.65
136	-11.20	15.6	269.9	0.27	0.89	4.65
137	-11.29	15.7	271.9	0.27	0.89	4.65
138	-11.29	15.8	272.7	0.27	0.89	4.65
139	-11.31	15.8	273.1	0.27	0.89	4.65
140	-11.33	15.9	273.6	0.27	0.89	4.65
141	-11.34	15.9	274.1	0.27	0.89	4.64
142	-11.36	15.9	274.6	0.27	0.89	4.64
143	-11.38	16.0	275.0	0.27	0.88	4.64
144	-11.38	16.0	275.2	0.27	0.88	4.64
145	-11.38	16.0	275.2	0.27	0.88	4.64
146	-11.38	16.0	275.3	0.27	0.88	4.64
147	-11.39	16.0	275.3	0.27	0.88	4.64
148	-11.39	16.0	275.4	0.27	0.88	4.64
149	-11.39	16.0	275.4	0.27	0.88	4.64
150	-11.39	16.0	275.6	0.27	0.88	4.64
151	-11.41	16.1	276.1	0.27	0.88	4.64
152	-11.43	16.1	276.7	0.27	0.88	4.64
153	-11.46	16.1	277.3	0.27	0.88	4.64
154	-11.48	16.2	278.0	0.27	0.88	4.64
155	-11.50	16.2	278.4	0.27	0.88	4.64
156	-11.50	16.3	279.2	0.27	0.88	4.64
157	-11.58	16.4	280.9	0.27	0.88	4.64
158	-11.66	16.6	283.1	0.27	0.88	4.63
159	-11.73	16.8	285.3	0.27	0.88	4.63
160	-11.81	16.9	287.6	0.27	0.87	4.63
161	-11.89	17.0	289.3	0.27	0.87	4.63

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
162	-11.89	17.1	290.4	0.27	0.87	4.62
163	-11.97	17.3	292.1	0.27	0.87	4.62
164	-12.05	17.4	294.5	0.27	0.87	4.62
165	-12.13	17.6	296.8	0.27	0.87	4.62
166	-12.21	17.8	299.1	0.27	0.86	4.61
167	-12.29	17.9	300.8	0.27	0.86	4.61
168	-12.29	18.0	301.5	0.27	0.86	4.61
169	-12.31	18.0	301.9	0.27	0.86	4.61
170	-12.33	18.0	302.4	0.28	0.86	4.61
171	-12.34	18.1	302.9	0.28	0.86	4.61
172	-12.36	18.1	303.5	0.28	0.86	4.61
173	-12.38	18.1	303.8	0.28	0.86	4.61
174	-12.38	18.2	304.0	0.28	0.86	4.61
175	-12.38	18.2	304.0	0.28	0.86	4.61
176	-12.38	18.2	304.1	0.28	0.86	4.61
177	-12.39	18.2	304.2	0.28	0.86	4.61
178	-12.39	18.2	304.2	0.28	0.86	4.61
179	-12.39	18.2	304.3	0.28	0.86	4.61
180	-12.39	18.2	304.4	0.28	0.86	4.61
181	-12.41	18.2	304.9	0.28	0.86	4.61
182	-12.43	18.3	305.5	0.28	0.86	4.61
183	-12.46	18.3	306.2	0.28	0.86	4.61
184	-12.48	18.4	306.8	0.28	0.86	4.61
185	-12.50	18.4	307.3	0.28	0.86	4.61
186	-12.50	18.4	307.9	0.28	0.86	4.61
187	-12.56	18.5	309.1	0.28	0.86	4.60
188	-12.62	18.7	310.8	0.28	0.86	4.60
189	-12.67	18.8	312.5	0.28	0.85	4.60
190	-12.73	18.9	314.1	0.28	0.85	4.60
191	-12.79	19.0	315.4	0.28	0.85	4.60
192	-12.79	19.1	316.4	0.28	0.85	4.60
193	-12.87	19.2	318.2	0.28	0.85	4.60
194	-12.95	19.4	320.6	0.28	0.85	4.59
195	-13.04	19.6	322.9	0.28	0.85	4.59
196	-13.12	19.8	325.3	0.28	0.84	4.59
197	-13.20	19.9	327.1	0.28	0.84	4.57
198	-13.20	19.9	411.9	0.28	0.84	5.74
199	-13.23	20.0	413.0	0.28	0.79	5.74
200	-13.25	20.1	414.5	0.28	0.78	5.74
201	-13.28	20.2	416.0	0.28	0.78	5.74
202	-13.30	20.2	417.5	0.28	0.78	5.74
203	-13.33	20.3	418.6	0.28	0.78	5.74
204	-13.33	20.4	421.1	0.28	0.78	5.74
205	-13.48	20.7	427.4	0.28	0.78	5.73
206	-13.62	21.1	435.8	0.28	0.77	5.73
207	-13.77	21.5	444.3	0.28	0.77	5.73
208	-13.91	22.0	452.7	0.28	0.76	5.73
209	-14.06	22.3	459.1	0.28	0.76	5.73
210	-14.06	22.5	463.3	0.28	0.76	5.73
211	-14.21	22.8	469.6	0.28	0.75	5.73
212	-14.35	23.2	478.1	0.28	0.75	5.73
213	-14.50	23.6	486.5	0.28	0.75	5.73
214	-14.64	24.0	495.0	0.28	0.74	5.73
215	-14.79	24.4	501.4	0.28	0.74	5.73
216	-14.79	24.5	503.7	0.28	0.74	5.73
217	-14.81	24.5	504.5	0.28	0.74	5.73
218	-14.83	24.6	505.6	0.28	0.74	5.73
219	-14.84	24.6	506.6	0.28	0.74	5.73
220	-14.86	24.7	507.7	0.28	0.74	5.73
221	-14.88	24.7	508.4	0.28	0.74	5.73
222	-14.88	24.7	509.1	0.28	0.74	5.73
223	-14.90	24.8	510.1	0.28	0.74	5.73
224	-14.93	24.8	511.5	0.28	0.73	5.73
225	-14.95	24.9	512.9	0.28	0.73	5.73

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
226	-14.98	25.0	514.3	0.28	0.73	5.73
227	-15.00	25.0	515.3	0.28	0.73	5.73
228	-15.00	25.1	516.8	0.28	0.73	5.73
229	-15.08	25.3	520.2	0.28	0.73	5.73
230	-15.16	25.5	524.7	0.28	0.73	5.73
231	-15.23	25.7	529.3	0.28	0.73	5.73
232	-15.31	25.9	533.8	0.28	0.73	5.72
233	-15.39	26.1	537.2	0.28	0.72	5.72
234	-15.39	26.2	538.7	0.28	0.72	5.72
235	-15.41	26.2	539.6	0.28	0.72	5.72
236	-15.43	26.3	540.9	0.28	0.72	5.72
237	-15.46	26.4	542.2	0.28	0.72	5.72
238	-15.48	26.4	543.5	0.28	0.72	5.72
239	-15.50	26.5	544.4	0.28	0.72	5.72
240	-15.50	26.5	545.6	0.28	0.72	5.72
241	-15.56	26.6	548.1	0.28	0.72	5.72
242	-15.62	26.8	551.5	0.28	0.72	5.72
243	-15.67	27.0	554.9	0.28	0.72	5.72
244	-15.73	27.1	558.2	0.28	0.72	5.72
245	-15.79	27.3	560.8	0.28	0.71	5.72
246	-15.79	27.3	561.7	0.28	0.71	5.72
247	-15.80	27.3	562.1	0.28	0.71	5.72
248	-15.81	27.3	562.5	0.28	0.71	5.72
249	-15.81	27.4	563.0	0.28	0.71	5.72
250	-15.82	27.4	563.5	0.28	0.71	5.72
251	-15.83	27.4	563.8	0.28	0.71	5.72
252	-15.83	27.4	564.1	0.28	0.71	5.72
253	-15.84	27.5	564.6	0.28	0.71	5.72
254	-15.85	27.5	565.3	0.28	0.71	5.72
255	-15.87	27.5	566.0	0.28	0.71	5.72
256	-15.88	27.6	566.7	0.28	0.71	5.72
257	-15.89	27.6	567.2	0.28	0.71	5.72
258	-15.89	27.6	567.7	0.28	0.71	5.72
259	-15.91	27.7	568.7	0.28	0.71	5.72
260	-15.93	27.7	570.0	0.28	0.71	5.72
261	-15.96	27.8	571.3	0.28	0.71	5.72
262	-15.98	27.8	572.5	0.28	0.71	5.72
263	-16.00	27.9	573.5	0.28	0.71	5.73
264	-16.00	32.2	361.6	0.32	0.71	3.61
265	-16.02	32.3	361.9	0.32	0.83	3.61
266	-16.04	32.3	362.4	0.32	0.83	3.61
267	-16.06	32.4	362.9	0.32	0.83	3.61
268	-16.08	32.5	363.3	0.32	0.83	3.61
269	-16.10	32.5	363.7	0.32	0.32	3.61

19.3 Berekende kracht uit een laag Links

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	37.01
3 Klei/zand (NZ)	218.64
4 Zand (NZ)	156.75
5 Klei (NZ)	126.01
6 zandlaag 1 (NZ)	179.36
7 klei (NZ)	7.97
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

19.4 Invoergegevens Rechts

19.4.1 Berekeningsmethode

Rekenmethode: C, phi, delta

19.4.2 Waterniveau

Freatisch niveau: -0.20 [m]

19.4.3 Maaiveld

X [m]	Y [m]
0.00	0.90
3.00	0.90
3.01	1.90
8.50	1.90

19.4.4 Eigenschappen van de grondmaterialen in Profiel: 1719801_ (H) 50% wosp

Laag naam	Niveau [m]	Volumegewicht Onverz. [kN/m³]	Volumegewicht Verz. [kN/m³]	Cohesie [kN/m²]	Wrijvingshoek phi [graad]	Delta wrijvingshoek [graad]
1 Toplaag (NZ)	1.90	17.50	19.50	0.00	30.00	20.00
2 IJ-klei (NZ)	-2.00	13.50	13.50	3.00	18.00	9.00
3 Klei/zand (NZ)	-5.00	16.50	16.50	3.00	27.50	18.00
4 Zand (NZ)	-8.20	18.00	20.00	0.00	30.00	20.00
5 Klei (NZ)	-10.80	16.50	16.50	3.00	26.50	17.60
6 zandlaag 1 (...	-13.20	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 (...	-18.00	18.00	20.00	0.00	32.50	16.60
9 zandlaag 3 (...	-21.00	18.00	20.00	0.00	35.00	16.60

Laag naam	Niveau [m]	Schelpfactor [-]	OCR [-]	Korreltype
1 Toplaag (NZ)	1.90	1.00	1.00	Fijn
2 IJ-klei (NZ)	-2.00	1.00	1.00	Fijn
3 Klei/zand (NZ)	-5.00	1.00	1.00	Fijn
4 Zand (NZ)	-8.20	1.00	1.00	Fijn
5 Klei (NZ)	-10.80	1.00	1.00	Fijn
6 zandlaag 1 (...	-13.20	1.00	1.00	Fijn
7 klei (NZ)	-16.00	1.00	1.00	Fijn
8 zandlaag 2 (...	-18.00	1.00	1.00	Fijn
9 zandlaag 3 (...	-21.00	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)	1.90	n.a.	n.a.	n.a.	0.00	0.00
2 IJ-klei (NZ)	-2.00	n.a.	n.a.	n.a.	22.50	22.50
3 Klei/zand (NZ)	-5.00	n.a.	n.a.	n.a.	0.00	0.00
4 Zand (NZ)	-8.20	n.a.	n.a.	n.a.	0.00	0.00
5 Klei (NZ)	-10.80	n.a.	n.a.	n.a.	0.00	0.00
6 zandlaag 1 (...	-13.20	n.a.	n.a.	n.a.	0.00	0.00
7 klei (NZ)	-16.00	n.a.	n.a.	n.a.	0.00	0.00
8 zandlaag 2 (...	-18.00	n.a.	n.a.	n.a.	0.00	0.00
9 zandlaag 3 (...	-21.00	n.a.	n.a.	n.a.	0.00	0.00

19.4.5 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)	1.90	6000.00	6000.00	3000.00	3000.00
2 IJ-klei (NZ)	-2.00	2000.00	2000.00	1000.00	1000.00

Laag naam	Niveau	Tak 1		Tak 2	
		Boven	Onder	Boven	Onder
	[m]	[kN/m³]	[kN/m³]	[kN/m³]	[kN/m³]
3 Klei/zand (NZ)	-5.00	5000.00	5000.00	2500.00	2500.00
4 Zand (NZ)	-8.20	8000.00	8000.00	4000.00	4000.00
5 Klei (NZ)	-10.80	4000.00	4000.00	2000.00	2000.00
6 zandlaag 1 (...	-13.20	16000.00	16000.00	8000.00	8000.00
7 klei (NZ)	-16.00	5000.00	5000.00	2500.00	2500.00
8 zandlaag 2 (...	-18.00	18000.00	18000.00	9000.00	9000.00
9 zandlaag 3 (...	-21.00	22000.00	22000.00	11000.00	11000.00

Laag naam	Niveau	Tak 3	
		Boven	Onder
	[m]	[kN/m³]	[kN/m³]
1 Toplaag (NZ)	1.90	1500.00	1500.00
2 IJ-klei (NZ)	-2.00	500.00	500.00
3 Klei/zand (NZ)	-5.00	1250.00	1250.00
4 Zand (NZ)	-8.20	2000.00	2000.00
5 Klei (NZ)	-10.80	1000.00	1000.00
6 zandlaag 1 (...	-13.20	4000.00	4000.00
7 klei (NZ)	-16.00	1250.00	1250.00
8 zandlaag 2 (...	-18.00	4500.00	4500.00
9 zandlaag 3 (...	-21.00	5500.00	5500.00

19.4.6 Bovenbelastingen

Naam	Afstand	Belasting
	[m]	[kN/m²]
Verkeersbelasting 20kN/m²	5.00	20.00
	15.00	20.00

19.5 Berekende Gronddrukcoëfficiënten Rechts

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
1	0.84	0.3	6.0	0.26	3.01	5.36
2	0.78	0.6	12.0	0.27	1.96	5.51
3	0.72	0.9	18.1	0.27	1.60	5.56
4	0.66	1.2	24.1	0.27	1.41	5.58
5	0.60	1.4	28.6	0.27	1.30	5.59
6	0.60	1.5	31.1	0.27	1.30	5.59
7	0.56	1.7	34.1	0.27	1.24	5.59
8	0.52	1.9	38.2	0.27	1.19	5.59
9	0.48	2.1	42.2	0.27	1.16	5.59
10	0.44	2.2	46.2	0.27	1.12	5.59
11	0.40	2.4	49.2	0.27	1.10	5.59
12	0.40	2.5	51.2	0.27	1.10	5.59
13	0.36	2.6	54.2	0.27	1.07	5.59
14	0.32	2.8	58.2	0.27	1.05	5.58
15	0.28	3.0	62.2	0.27	1.03	5.58
16	0.24	3.2	66.3	0.27	1.02	5.57
17	0.20	3.4	69.3	0.27	1.00	5.57
18	0.20	3.4	70.4	0.27	1.00	5.57
19	0.19	3.5	70.9	0.27	1.00	5.57
20	0.19	3.5	71.5	0.27	1.00	5.57
21	0.18	3.5	72.1	0.27	1.00	5.57
22	0.18	3.5	72.7	0.27	0.99	5.57
23	0.17	3.6	73.1	0.27	0.99	5.57
24	0.17	3.7	75.1	0.27	0.99	5.56
25	0.10	3.9	80.7	0.27	0.97	5.55
26	0.02	4.3	88.2	0.27	0.95	5.54
27	-0.05	4.7	95.6	0.27	0.94	5.53
28	-0.13	5.0	106.3	0.27	0.93	5.70
29	-0.20	5.3	116.8	0.27	0.91	5.89
30	-0.20	5.4	121.7	0.27	0.91	6.00
31	-0.23	5.4	125.1	0.27	0.91	6.10

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
32	-0.25	5.5	129.7	0.27	0.91	6.24
33	-0.28	5.6	134.8	0.27	0.91	6.40
34	-0.30	5.7	140.2	0.26	0.91	6.56
35	-0.33	5.7	144.5	0.26	0.90	6.69
36	-0.33	5.7	146.7	0.26	0.90	6.76
37	-0.34	5.8	149.3	0.26	0.90	6.84
38	-0.36	5.8	152.6	0.26	0.90	6.94
39	-0.37	5.8	156.2	0.26	0.90	7.06
40	-0.39	5.9	159.8	0.26	0.90	7.17
41	-0.40	5.9	162.4	0.26	0.89	7.24
42	-0.40	5.9	166.3	0.26	0.89	7.37
43	-0.44	6.0	175.2	0.26	0.89	7.65
44	-0.48	6.1	188.0	0.26	0.89	8.05
45	-0.52	6.2	202.6	0.26	0.89	8.50
46	-0.56	6.4	218.5	0.26	0.88	9.00
47	-0.60	6.4	232.1	0.26	0.88	9.42
48	-0.60	6.6	255.5	0.26	0.88	10.15
49	-0.75	6.9	328.1	0.26	0.87	12.40
50	-0.89	7.3	479.6	0.26	0.86	17.00
51	-1.04	7.6	763.0	0.26	0.85	25.46
52	-1.18	8.0	621.0	0.25	0.84	19.56
53	-1.33	8.3	484.9	0.25	0.83	14.65
54	-1.33	8.5	474.6	0.25	0.83	14.07
55	-1.38	8.6	468.6	0.25	0.82	13.69
56	-1.44	8.7	462.5	0.25	0.82	13.25
57	-1.49	8.9	458.1	0.25	0.81	12.88
58	-1.55	9.0	455.1	0.25	0.81	12.56
59	-1.60	9.1	453.4	0.25	0.80	12.34
60	-1.60	9.2	452.6	0.25	0.80	12.21
61	-1.65	9.3	451.8	0.25	0.80	12.05
62	-1.69	9.4	451.0	0.25	0.79	11.85
63	-1.74	9.5	450.7	0.25	0.79	11.66
64	-1.78	9.7	450.6	0.25	0.78	11.49
65	-1.83	9.8	450.8	0.25	0.78	11.37
66	-1.83	9.8	450.9	0.25	0.78	11.30
67	-1.86	9.9	451.2	0.25	0.78	11.21
68	-1.90	10.0	451.6	0.25	0.77	11.11
69	-1.93	10.1	452.1	0.24	0.77	11.00
70	-1.97	10.2	452.7	0.24	0.77	10.90
71	-2.00	10.2	453.3	0.25	0.76	10.87
72	-2.00	2.8	273.9	0.08	0.76	7.57
73	-2.03	2.8	273.9	0.15	1.21	14.09
74	-2.06	2.9	274.0	0.15	1.20	13.94
75	-2.09	2.9	274.0	0.15	1.19	13.81
76	-2.12	6.1	274.0	0.30	1.19	13.67
77	-2.15	7.3	274.1	0.36	1.18	13.57
78	-2.15	7.2	274.1	0.36	1.18	13.53
79	-2.16	7.2	274.1	0.35	1.18	13.50
80	-2.17	7.2	274.1	0.35	1.18	13.45
81	-2.18	7.2	274.2	0.35	1.18	13.41
82	-2.19	7.2	274.2	0.35	1.17	13.37
83	-2.20	7.3	274.2	0.35	1.17	13.34
84	-2.20	7.3	274.2	0.35	1.17	13.30
85	-2.23	7.3	274.3	0.35	1.17	13.22
86	-2.25	7.4	274.3	0.35	1.16	13.11
87	-2.28	7.4	274.4	0.35	1.16	13.01
88	-2.30	7.5	274.5	0.35	1.15	12.91
89	-2.33	7.5	274.6	0.35	1.15	12.83
90	-2.33	7.6	274.6	0.35	1.15	12.75
91	-2.38	7.6	274.8	0.35	1.13	12.60
92	-2.44	7.8	275.0	0.35	1.12	12.41
93	-2.49	7.9	275.2	0.35	1.11	12.22
94	-2.55	8.0	275.4	0.35	1.10	12.04
95	-2.60	8.1	275.6	0.35	1.09	11.90

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
96	-2.60	8.1	275.7	0.35	1.09	11.80
97	-2.68	8.2	276.0	0.35	1.08	11.61
98	-2.76	8.4	276.4	0.35	1.06	11.38
99	-2.84	8.6	276.8	0.35	1.05	11.15
100	-2.92	9.6	277.3	0.38	1.04	10.94
101	-3.00	12.1	277.6	0.47	1.02	10.78
102	-3.00	12.3	189.1	0.47	1.02	7.25
103	-3.12	12.5	112.3	0.47	1.01	4.21
104	-3.24	12.8	102.8	0.47	0.99	3.75
105	-3.36	13.1	54.0	0.47	0.97	1.91
106	-3.48	13.4	55.0	0.46	0.96	1.90
107	-3.60	13.7	55.8	0.46	0.94	1.89
108	-3.60	13.8	56.3	0.46	0.94	1.88
109	-3.72	14.1	57.1	0.46	0.93	1.87
110	-3.85	14.4	58.1	0.46	0.91	1.86
111	-3.97	14.7	59.1	0.46	0.90	1.84
112	-4.09	14.9	60.1	0.46	0.88	1.83
113	-4.21	15.2	60.9	0.45	0.87	1.82
114	-4.21	15.3	61.4	0.45	0.87	1.82
115	-4.34	15.5	62.2	0.45	0.86	1.81
116	-4.46	15.8	63.2	0.45	0.85	1.80
117	-4.58	16.1	64.2	0.45	0.84	1.79
118	-4.71	16.4	65.1	0.45	0.83	1.78
119	-4.83	16.6	65.9	0.45	0.82	1.78
120	-4.83	16.6	66.2	0.45	0.82	1.77
121	-4.86	16.7	66.4	0.45	0.81	1.77
122	-4.90	16.8	66.7	0.45	0.81	1.77
123	-4.93	16.8	66.9	0.44	0.81	1.77
124	-4.97	19.1	67.2	0.50	0.81	1.77
125	-5.00	20.5	67.4	0.54	0.81	1.76
126	-5.00	22.7	237.9	0.51	0.81	5.39
127	-5.07	22.8	239.2	0.37	0.64	3.89
128	-5.13	23.0	240.9	0.37	0.64	3.88
129	-5.20	23.2	242.7	0.37	0.64	3.88
130	-5.26	23.4	244.4	0.37	0.63	3.87
131	-5.33	23.5	245.7	0.37	0.63	3.86
132	-5.33	23.7	246.8	0.37	0.63	3.86
133	-5.43	23.9	248.8	0.37	0.63	3.85
134	-5.53	24.2	251.4	0.37	0.62	3.84
135	-5.63	24.4	254.1	0.37	0.62	3.83
136	-5.73	24.7	256.7	0.37	0.62	3.82
137	-5.83	24.9	258.7	0.37	0.61	3.81
138	-5.83	25.1	285.1	0.37	0.61	4.17
139	-5.96	25.4	298.8	0.37	0.61	4.32
140	-6.10	25.7	302.4	0.37	0.60	4.30
141	-6.23	26.1	306.0	0.37	0.60	4.28
142	-6.36	26.4	309.6	0.36	0.59	4.27
143	-6.50	26.7	314.5	0.36	0.59	4.29
144	-6.50	26.9	345.7	0.36	0.59	4.68
145	-6.63	27.1	357.9	0.36	0.59	4.79
146	-6.76	27.5	369.1	0.36	0.58	4.87
147	-6.90	27.8	381.3	0.36	0.58	4.96
148	-7.03	28.1	393.9	0.36	0.58	5.05
149	-7.16	28.4	403.8	0.36	0.57	5.12
150	-7.16	29.4	410.4	0.37	0.57	5.17
151	-7.30	32.3	421.0	0.40	0.57	5.25
152	-7.43	32.7	435.7	0.40	0.57	5.36
153	-7.56	33.0	444.7	0.40	0.57	5.41
154	-7.70	33.3	448.8	0.40	0.56	5.39
155	-7.83	33.6	451.9	0.40	0.56	5.37
156	-7.83	33.7	453.5	0.40	0.56	5.37
157	-7.90	33.8	455.2	0.40	0.56	5.36
158	-7.98	34.0	457.5	0.40	0.56	5.35
159	-8.05	34.2	459.8	0.40	0.56	5.34

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
160	-8.13	34.3	462.1	0.40	0.56	5.33
161	-8.20	33.0	463.9	0.38	0.55	5.31
162	-8.20	32.6	527.3	0.37	0.55	6.00
163	-8.34	32.8	533.2	0.37	0.52	5.99
164	-8.47	33.3	540.9	0.37	0.52	5.97
165	-8.61	33.7	548.7	0.37	0.52	5.96
166	-8.74	34.1	556.5	0.36	0.52	5.94
167	-8.88	34.4	562.3	0.36	0.51	5.93
168	-8.88	34.6	565.7	0.36	0.51	5.93
169	-8.98	34.8	570.0	0.36	0.51	5.92
170	-9.08	35.1	575.8	0.36	0.51	5.91
171	-9.18	35.4	581.5	0.36	0.51	5.90
172	-9.28	35.8	598.5	0.36	0.51	6.01
173	-9.38	36.0	611.6	0.36	0.51	6.09
174	-9.38	36.1	613.1	0.36	0.51	6.09
175	-9.38	36.1	613.2	0.36	0.51	6.09
176	-9.38	36.1	613.3	0.36	0.51	6.09
177	-9.39	36.1	613.4	0.36	0.51	6.09
178	-9.39	36.1	613.5	0.36	0.51	6.09
179	-9.39	36.1	613.6	0.36	0.51	6.09
180	-9.39	36.1	613.9	0.36	0.51	6.09
181	-9.41	36.2	614.9	0.36	0.51	6.08
182	-9.43	36.2	616.1	0.36	0.51	6.08
183	-9.46	36.3	617.4	0.36	0.51	6.08
184	-9.48	36.4	618.6	0.36	0.51	6.08
185	-9.50	36.4	619.6	0.36	0.51	6.08
186	-9.50	36.5	620.7	0.36	0.51	6.07
187	-9.56	36.6	623.2	0.36	0.51	6.07
188	-9.62	36.8	626.5	0.36	0.50	6.07
189	-9.67	37.0	629.8	0.36	0.50	6.06
190	-9.73	37.1	633.1	0.36	0.50	6.05
191	-9.79	37.3	635.6	0.35	0.50	6.05
192	-9.79	37.3	636.7	0.35	0.50	6.05
193	-9.81	37.4	637.5	0.35	0.50	6.05
194	-9.83	37.4	638.5	0.35	0.50	6.05
195	-9.84	37.5	639.5	0.35	0.50	6.05
196	-9.86	37.5	640.6	0.35	0.50	6.04
197	-9.88	37.6	641.3	0.35	0.50	6.04
198	-9.88	37.6	641.6	0.35	0.50	6.04
199	-9.88	37.6	641.7	0.35	0.50	6.04
200	-9.88	37.6	641.8	0.35	0.50	6.04
201	-9.89	37.6	641.9	0.35	0.50	6.04
202	-9.89	37.6	642.1	0.35	0.50	6.04
203	-9.89	37.6	642.1	0.35	0.50	6.04
204	-9.89	37.7	643.3	0.35	0.50	6.04
205	-9.97	37.9	656.8	0.35	0.50	6.13
206	-10.05	38.1	674.4	0.35	0.50	6.24
207	-10.13	38.3	679.0	0.35	0.50	6.23
208	-10.21	38.6	644.8	0.35	0.50	5.87
209	-10.29	38.8	640.1	0.35	0.50	5.80
210	-10.29	38.8	641.6	0.35	0.50	5.79
211	-10.31	38.9	642.3	0.35	0.50	5.79
212	-10.33	38.9	643.4	0.35	0.50	5.79
213	-10.34	39.0	644.4	0.35	0.50	5.79
214	-10.36	39.0	645.5	0.35	0.50	5.79
215	-10.38	39.1	646.3	0.35	0.50	5.79
216	-10.38	39.1	646.6	0.35	0.50	5.79
217	-10.38	39.1	646.6	0.35	0.50	5.79
218	-10.38	39.1	646.8	0.35	0.50	5.79
219	-10.39	39.1	646.9	0.35	0.50	5.79
220	-10.39	39.1	647.0	0.35	0.50	5.79
221	-10.39	39.1	647.1	0.35	0.50	5.79
222	-10.39	39.2	648.3	0.35	0.50	5.79
223	-10.47	39.4	651.9	0.35	0.50	5.79

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
224	-10.55	39.6	656.7	0.35	0.50	5.78
225	-10.64	39.9	661.4	0.35	0.50	5.78
226	-10.72	40.1	666.2	0.35	0.50	5.78
227	-10.80	40.3	669.8	0.35	0.50	5.79
228	-10.80	41.7	558.2	0.36	0.50	4.82
229	-10.81	41.7	558.3	0.36	0.54	4.81
230	-10.81	41.6	558.5	0.36	0.54	4.81
231	-10.82	41.6	558.7	0.36	0.54	4.81
232	-10.82	41.5	558.9	0.36	0.54	4.81
233	-10.83	41.4	559.0	0.36	0.54	4.81
234	-10.83	41.2	559.7	0.35	0.54	4.81
235	-10.92	40.6	561.7	0.35	0.54	4.81
236	-11.01	39.8	564.4	0.34	0.54	4.80
237	-11.11	39.6	567.0	0.34	0.54	4.80
238	-11.20	39.8	569.7	0.34	0.54	4.79
239	-11.29	40.0	571.7	0.34	0.54	4.79
240	-11.29	40.0	572.5	0.34	0.54	4.79
241	-11.31	40.1	572.9	0.34	0.54	4.79
242	-11.33	40.1	573.4	0.34	0.54	4.79
243	-11.34	40.2	573.9	0.33	0.54	4.79
244	-11.36	40.2	574.4	0.33	0.54	4.79
245	-11.38	40.2	574.8	0.33	0.54	4.79
246	-11.38	40.2	575.0	0.33	0.54	4.79
247	-11.38	40.2	575.0	0.33	0.54	4.79
248	-11.38	40.2	575.1	0.33	0.54	4.79
249	-11.39	40.2	575.1	0.33	0.54	4.79
250	-11.39	40.3	575.2	0.33	0.54	4.79
251	-11.39	40.3	575.2	0.33	0.54	4.79
252	-11.39	40.3	575.4	0.33	0.54	4.79
253	-11.41	40.3	575.9	0.33	0.54	4.78
254	-11.43	40.4	576.5	0.33	0.54	4.78
255	-11.46	40.4	577.2	0.33	0.54	4.78
256	-11.48	40.5	577.8	0.33	0.54	4.78
257	-11.50	40.5	578.3	0.33	0.54	4.78
258	-11.50	40.6	579.0	0.33	0.54	4.78
259	-11.58	40.7	580.7	0.33	0.54	4.78
260	-11.66	40.9	583.0	0.33	0.54	4.77
261	-11.73	41.0	585.2	0.33	0.54	4.77
262	-11.81	41.2	575.6	0.33	0.53	4.67
263	-11.89	41.5	565.5	0.34	0.53	4.57
264	-11.89	40.9	566.6	0.33	0.53	4.57
265	-11.97	40.9	568.3	0.33	0.53	4.57
266	-12.05	41.2	570.6	0.33	0.53	4.57
267	-12.13	41.4	572.9	0.33	0.53	4.56
268	-12.21	41.5	575.2	0.33	0.53	4.56
269	-12.29	41.7	576.9	0.33	0.33	4.56
270	-12.29	41.7	577.7	0.33	0.54	4.56
271	-12.31	41.8	578.0	0.33	0.54	4.56
272	-12.33	41.8	578.6	0.33	0.54	4.56
273	-12.34	41.8	579.1	0.33	0.54	4.56
274	-12.36	41.9	579.6	0.33	0.54	4.56
275	-12.38	51.8	580.0	0.41	0.54	4.56
276	-12.38	35.7	580.1	0.28	0.54	4.56
277	-12.38	0.3	580.2	0.00	0.54	4.56
278	-12.38	41.9	580.2	0.33	0.54	4.56
279	-12.39	41.9	580.3	0.33	0.54	4.56
280	-12.39	41.9	580.3	0.33	0.54	4.56
281	-12.39	41.9	580.4	0.33	0.54	4.56
282	-12.39	42.0	580.6	0.33	0.54	4.56
283	-12.41	42.0	581.0	0.33	0.54	4.56
284	-12.43	42.0	581.7	0.33	0.54	4.56
285	-12.46	42.1	582.3	0.33	0.54	4.56
286	-12.48	42.1	576.8	0.33	0.54	4.51
287	-12.50	42.2	556.6	0.33	0.54	4.34

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
288	-12.50	47.4	557.1	0.37	0.54	4.34
289	-12.56	42.4	558.4	0.33	0.54	4.34
290	-12.62	42.3	560.0	0.33	0.54	4.34
291	-12.67	40.0	561.7	0.31	0.54	4.34
292	-12.73	42.7	563.3	0.33	0.54	4.34
293	-12.79	42.8	564.5	0.33	0.54	4.34
294	-12.79	42.9	565.5	0.33	0.54	4.34
295	-12.87	43.0	567.3	0.33	0.54	4.34
296	-12.95	43.2	569.6	0.33	0.54	4.34
297	-13.04	43.4	572.0	0.33	0.54	4.34
298	-13.12	43.6	574.3	0.33	0.54	4.33
299	-13.20	43.7	576.1	0.33	0.54	4.33
300	-13.20	41.6	712.6	0.31	0.54	5.34
301	-13.23	41.7	706.1	0.31	0.49	5.28
302	-13.25	41.7	693.6	0.31	0.49	5.18
303	-13.28	41.8	695.1	0.31	0.49	5.18
304	-13.30	41.9	696.7	0.31	0.49	5.18
305	-13.33	41.9	697.8	0.31	0.49	5.18
306	-13.33	42.1	700.3	0.31	0.49	5.18
307	-13.48	42.4	706.7	0.31	0.49	5.19
308	-13.62	42.8	715.3	0.31	0.49	5.19
309	-13.77	43.3	723.8	0.31	0.49	5.20
310	-13.91	43.7	732.3	0.31	0.49	5.20
311	-14.06	44.0	738.7	0.31	0.49	5.20
312	-14.06	44.2	743.0	0.31	0.49	5.20
313	-14.21	44.5	762.0	0.31	0.49	5.30
314	-14.35	45.0	781.7	0.31	0.49	5.38
315	-14.50	45.4	790.3	0.31	0.49	5.38
316	-14.64	45.7	798.8	0.31	0.49	5.38
317	-14.79	46.3	805.2	0.31	0.49	5.38
318	-14.79	46.4	807.6	0.31	0.49	5.38
319	-14.81	46.5	808.4	0.31	0.49	5.38
320	-14.83	46.5	809.4	0.31	0.49	5.38
321	-14.84	46.6	810.5	0.31	0.49	5.38
322	-14.86	46.6	810.7	0.31	0.49	5.38
323	-14.88	46.7	830.5	0.31	0.49	5.50
324	-14.88	46.7	843.1	0.31	0.49	5.58
325	-14.90	46.8	841.3	0.31	0.49	5.57
326	-14.93	46.8	842.7	0.31	0.49	5.57
327	-14.95	46.9	844.1	0.31	0.49	5.57
328	-14.98	47.0	845.5	0.31	0.49	5.57
329	-15.00	47.0	846.6	0.31	0.49	5.57
330	-15.00	47.1	848.1	0.31	0.49	5.57
331	-15.08	47.3	851.5	0.31	0.49	5.57
332	-15.16	47.5	856.1	0.31	0.49	5.57
333	-15.23	47.7	860.6	0.31	0.49	5.57
334	-15.31	47.9	865.2	0.31	0.49	5.57
335	-15.39	48.1	868.6	0.31	0.49	5.57
336	-15.39	48.2	870.0	0.31	0.49	5.57
337	-15.41	48.2	871.0	0.31	0.49	5.57
338	-15.43	48.3	872.3	0.31	0.49	5.57
339	-15.46	48.4	873.6	0.31	0.49	5.57
340	-15.48	48.4	874.9	0.31	0.49	5.57
341	-15.50	48.5	875.8	0.31	0.49	5.57
342	-15.50	48.5	877.0	0.31	0.49	5.57
343	-15.56	48.7	879.5	0.31	0.49	5.57
344	-15.62	48.8	882.9	0.31	0.49	5.57
345	-15.67	49.0	886.3	0.31	0.49	5.57
346	-15.73	49.2	889.7	0.31	0.49	5.57
347	-15.79	49.3	892.2	0.31	0.49	5.57
348	-15.79	49.3	893.2	0.31	0.49	5.57
349	-15.80	49.4	893.5	0.31	0.49	5.57
350	-15.81	49.4	892.9	0.31	0.49	5.56
351	-15.81	49.4	894.8	0.31	0.49	5.57

Segment nummer	Niveau	Horizontale druk		Fictieve gronddrukcoëfficiënten		
		Actief	Passief	Ka	Ko	Kp
	[m]	[kN/m²]	[kN/m²]	[-]	[-]	[-]
352	-15.82	49.4	894.0	0.31	0.49	5.56
353	-15.83	49.4	896.6	0.31	0.49	5.58
354	-15.83	49.5	904.1	0.31	0.49	5.62
355	-15.84	49.5	905.2	0.31	0.49	5.63
356	-15.85	49.5	907.8	0.31	0.49	5.64
357	-15.87	49.6	915.4	0.31	0.49	5.68
358	-15.88	49.6	920.5	0.31	0.49	5.71
359	-15.89	49.6	926.5	0.31	0.49	5.74
360	-15.89	49.6	927.4	0.31	0.49	5.74
361	-15.91	49.7	928.2	0.31	0.49	5.74
362	-15.93	49.8	929.5	0.31	0.49	5.74
363	-15.96	49.8	930.8	0.31	0.49	5.74
364	-15.98	49.9	932.0	0.31	0.49	5.74
365	-16.00	49.9	933.0	0.31	0.49	5.74
366	-16.00	59.2	626.7	0.36	0.49	3.86
367	-16.02	59.2	627.0	0.36	0.59	3.86
368	-16.04	65.4	627.5	0.40	0.59	3.86
369	-16.06	59.5	628.0	0.37	0.59	3.86
370	-16.08	59.5	628.5	0.36	0.59	3.85
371	-16.10	59.5	628.8	0.36	0.59	3.85

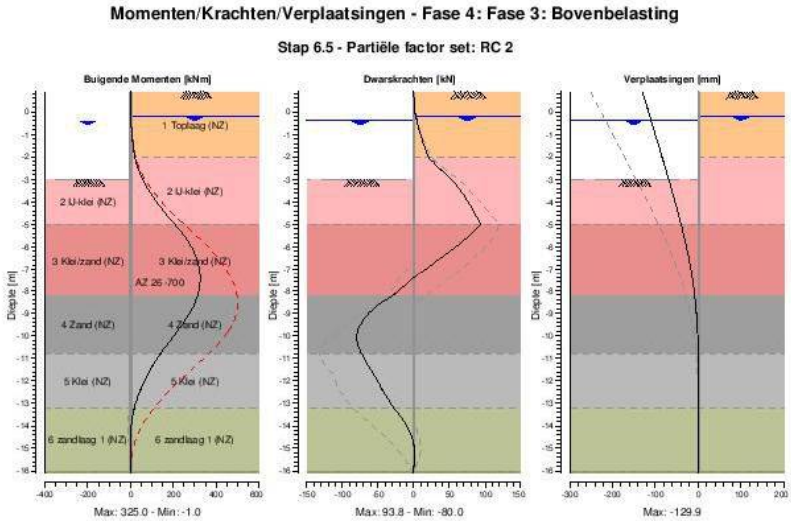
19.6 Berekende kracht uit een laag Rechts

Naam	Kracht
1 Toplaag (NZ)	0.00
2 IJ-klei (NZ)	37.17
3 Klei/zand (NZ)	89.94
4 Zand (NZ)	107.25
5 Klei (NZ)	165.82
6 zandlaag 1 (NZ)	201.17
7 klei (NZ)	9.08
8 zandlaag 2 (NZ)	0.00
9 zandlaag 3 (NZ)	0.00

19.7 Berekeningsresultaten

Aantal iteraties: 4

19.7.1 Grafieken van Momenten, Krachten en Verplaatsingen



19.7.2 Momenten, Krachten en Verplaatsingen

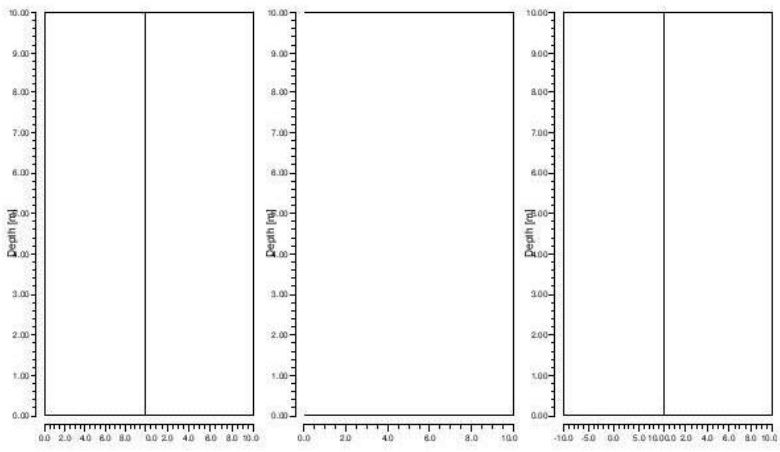
Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
1	0.90	0.00	0.00	**-129.9**
1	0.60	0.02	0.22	-125.2
2	0.60	0.02	0.22	-125.2
2	0.40	0.10	0.61	-122.0
3	0.40	0.10	0.61	-122.0
3	0.20	0.28	1.20	-118.9
4	0.20	0.28	1.20	-118.9
4	0.17	0.32	1.30	-118.4
5	0.17	0.32	1.30	-118.4
5	-0.20	1.08	2.95	-112.6
6	-0.20	1.08	2.95	-112.6
6	-0.33	1.52	3.75	-110.5
7	-0.33	1.52	3.75	-110.5
7	-0.40	1.80	4.27	-109.4
8	-0.40	1.80	4.27	-109.4
8	-0.60	2.81	5.90	-106.3
9	-0.60	2.81	5.90	-106.3
9	-1.33	9.53	12.74	-94.7
10	-1.33	9.53	12.74	-94.7
10	-1.60	13.36	15.63	-90.5
11	-1.60	13.36	15.63	-90.5
11	-1.83	17.25	18.26	-86.9
12	-1.83	17.25	18.26	-86.9
12	-2.00	20.53	20.29	-84.2
13	-2.00	20.53	20.29	-84.2
13	-2.15	23.88	24.53	-81.9
14	-2.15	23.88	24.53	-81.9
14	-2.20	25.15	26.12	-81.1
15	-2.20	25.15	26.12	-81.1
15	-2.33	28.81	30.26	-79.0
16	-2.33	28.81	30.26	-79.0

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
16	-2.60	38.15	38.98	-74.8
17	-2.60	38.15	38.98	-74.8
17	-3.00	56.38	52.37	-68.7
18	-3.00	56.38	52.37	-68.7
18	-3.60	92.68	67.73	-59.5
19	-3.60	92.68	67.73	-59.5
19	-4.21	138.39	80.54	-50.4
20	-4.21	138.39	80.54	-50.4
20	-4.83	191.25	91.04	-41.8
21	-4.83	191.25	91.04	-41.8
21	-5.00	206.95	**93.83**	-39.5
22	-5.00	206.95	**93.83**	-39.5
22	-5.33	236.24	83.40	-35.2
23	-5.33	236.24	83.40	-35.2
23	-5.83	273.57	65.49	-29.0
24	-5.83	273.57	65.47	-29.0
24	-6.50	308.02	37.49	-21.6
25	-6.50	308.02	37.47	-21.6
25	-7.16	**323.72**	9.86	-15.4
26	-7.16	**323.72**	9.85	-15.4
26	-7.83	321.93	-15.00	-10.3
27	-7.83	321.93	-15.07	-10.3
27	-8.20	313.81	-28.70	-7.9
28	-8.20	313.81	-28.75	-7.9
28	-8.88	283.10	-59.13	-4.5
29	-8.88	283.10	-59.14	-4.5
29	-9.38	249.91	-72.51	-2.6
30	-9.38	249.91	-72.51	-2.6
30	-9.39	249.18	-72.71	-2.6
31	-9.39	249.18	-72.71	-2.6
31	-9.50	241.07	-74.81	-2.2
32	-9.50	241.07	-74.81	-2.2
32	-9.79	218.72	-78.88	-1.5
33	-9.79	218.72	-78.88	-1.5
33	-9.88	211.59	-79.52	-1.2
34	-9.88	211.59	-79.52	-1.2
34	-9.89	210.79	-79.57	-1.2
35	-9.89	210.79	-79.57	-1.2
35	-10.29	178.88	-79.21	-0.4
36	-10.29	178.88	-79.20	-0.4
36	-10.38	171.78	-78.52	-0.3
37	-10.38	171.78	-78.52	-0.3
37	-10.39	170.99	-78.43	-0.3
38	-10.39	170.99	-78.43	-0.3
38	-10.80	139.81	-73.15	0.2
39	-10.80	139.81	-73.15	0.2
39	-10.83	137.63	-72.66	0.2
40	-10.83	137.63	-72.66	0.2
40	-11.29	106.07	-64.40	0.6
41	-11.29	106.07	-64.40	0.6
41	-11.38	100.35	-62.69	0.6
42	-11.38	100.35	-62.69	0.6
42	-11.39	99.72	-62.50	0.6
43	-11.39	99.72	-62.50	0.6
43	-11.50	92.96	-60.39	0.7
44	-11.50	92.96	-60.39	0.7
44	-11.89	70.89	-52.80	0.7
45	-11.89	70.89	-52.80	0.7
45	-12.29	51.29	-46.12	0.7
46	-12.29	51.29	-46.12	0.7
46	-12.38	47.22	-44.29	0.7
47	-12.38	47.22	-44.29	0.7
47	-12.39	46.78	-44.08	0.7
48	-12.39	46.78	-44.08	0.7
48	-12.50	42.05	-41.87	0.7

Segment nummer	Niveau [m]	Moment [kNm]	Dwarskracht [kN]	Verplaatsing [mm]
49	-12.50	42.05	-41.87	0.7
49	-12.79	30.74	-36.20	0.6
50	-12.79	30.74	-36.20	0.6
50	-13.20	17.47	-28.62	0.5
51	-13.20	17.47	-28.62	0.5
51	-13.33	13.98	-25.02	0.5
52	-13.33	13.98	-25.02	0.5
52	-14.06	1.98	-9.02	0.2
53	-14.06	1.98	-9.02	0.2
53	-14.79	-0.95	-0.20	-0.1
54	-14.79	-0.95	-0.20	-0.1
54	-14.88	-0.94	0.38	-0.1
55	-14.88	-0.94	0.38	-0.1
55	-15.00	-0.86	1.00	-0.2
56	-15.00	-0.86	1.00	-0.2
56	-15.39	-0.27	1.67	-0.3
57	-15.39	-0.27	1.67	-0.3
57	-15.50	-0.09	1.50	-0.4
58	-15.50	-0.09	1.50	-0.4
58	-15.79	0.19	0.27	-0.5
59	-15.79	0.19	0.27	-0.5
59	-15.83	0.19	0.01	-0.5
60	-15.83	0.19	0.01	-0.5
60	-15.89	0.18	-0.41	-0.5
61	-15.89	0.18	-0.41	-0.5
61	-16.00	0.09	-1.31	-0.6
62	-16.00	0.09	-1.31	-0.6
62	-16.10	0.00	0.00	-0.6
Max		**323.72**	**93.83**	**-129.9**
Max incl. tussenknopen		324.98	93.83	-129.9

19.7.3 Grafieken van Spanningen

Spanningstoestanden - Fase 1: Fase 1: Na schade kadeconstructie



19.7.4 Spanningen

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]		[%]
1	0.90	0.00	0.00	-		0.00	0.00	A	
1	0.60	0.00	0.00	-		1.39	0.00	A	
2	0.60	0.00	0.00	-		1.52	0.00	A	
2	0.40	0.00	0.00	-		2.40	0.00	A	
3	0.40	0.00	0.00	-		2.49	0.00	A	
3	0.20	0.00	0.00	-		3.37	0.00	A	
4	0.20	0.00	0.00	-		3.43	0.00	A	
4	0.17	0.00	0.00	-		3.56	0.00	A	
5	0.17	0.00	0.00	-		3.66	0.00	A	
5	-0.20	0.00	0.00	-		5.26	0.00	A	
6	-0.20	0.00	0.00	-		5.36	0.00	A	
6	-0.33	0.00	0.00	-		5.67	1.28	A	
7	-0.33	0.00	0.00	-		5.70	1.28	A	
7	-0.40	0.00	0.00	-		5.87	1.96	A	
8	-0.40	0.00	0.00	-		5.91	1.96	A	
8	-0.60	0.00	1.96	-		6.40	3.92	A	
9	-0.60	0.00	1.96	-		6.52	3.92	A	
9	-1.33	0.00	9.12	-		8.30	11.09	A	
10	-1.33	0.00	9.12	-		8.44	11.09	A	
10	-1.60	0.00	11.77	-		9.09	13.73	A	
11	-1.60	0.00	11.77	-		9.16	13.73	A	
11	-1.83	0.00	14.03	-		9.72	15.99	A	
12	-1.83	0.00	14.03	-		9.78	15.99	A	
12	-2.00	0.00	15.70	-		10.23	17.66	A	
13	-2.00	0.00	15.70	-		1.49	40.16	A	
13	-2.15	0.00	17.17	-		7.27	41.63	A	
14	-2.15	0.00	17.17	-		7.24	41.63	A	
14	-2.20	0.00	17.66	-		7.27	42.12	A	
15	-2.20	0.00	17.66	-		7.29	42.12	A	
15	-2.33	0.00	18.93	-		7.53	43.40	A	
16	-2.33	0.00	18.93	-		7.58	43.40	A	
16	-2.60	0.00	21.58	-		8.07	46.04	A	
17	-2.60	0.00	21.58	-		8.14	46.04	A	
17	-3.00	0.00	25.51	-		12.16	49.97	A	
18	-3.00	0.00	25.51	P		12.30	49.97	A	
18	-3.60	15.25	31.39	P		13.70	55.85	A	
19	-3.60	15.77	31.39	P		13.85	55.85	A	
19	-4.21	20.55	37.43	P		15.19	61.89	A	
20	-4.21	21.08	37.43	P		15.33	61.89	A	
20	-4.83	25.13	43.46	3	97	16.58	67.92	A	
21	-4.83	25.38	43.46	3	97	16.67	67.92	A	
21	-5.00	25.74	45.13	3	95	20.49	69.59	A	
22	-5.00	57.98	45.13	3	95	31.32	47.09	A	
22	-5.33	58.42	48.36	3	91	23.53	50.33	A	
23	-5.33	59.14	48.36	3	91	23.65	50.33	A	
23	-5.83	65.23	53.27	3	84	24.91	55.23	A	
24	-5.83	66.43	53.27	3	84	25.07	55.23	A	
24	-6.50	70.64	59.81	2	72	26.67	61.77	A	
25	-6.50	71.53	59.81	2	72	26.84	61.77	A	
25	-7.16	70.67	66.35	2	60	28.36	68.31	A	
26	-7.16	71.56	66.35	2	60	29.38	68.31	A	
26	-7.83	72.24	72.89	2	52	33.54	74.85	A	
27	-7.83	72.93	72.89	2	52	33.66	74.85	A	
27	-8.20	70.08	76.52	1	47	32.90	78.48	A	
28	-8.20	86.94	76.52	2	52	32.45	78.48	A	
28	-8.88	69.65	83.19	1	34	34.31	85.15	A	
29	-8.88	70.22	83.19	1	34	34.49	85.15	A	
29	-9.38	58.19	88.09	1	25	35.87	90.06	A	
30	-9.38	58.43	88.09	1	25	35.95	90.06	A	
30	-9.39	58.23	88.19	1	25	35.98	90.15	A	
31	-9.39	58.29	88.19	1	25	36.00	90.15	A	

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* [%]
31	-9.50	56.20	89.27	1	23	36.30	91.23	A	
32	-9.50	56.39	89.27	1	23	36.36	91.23	A	
32	-9.79	51.74	92.12	1	20	41.07	94.08	1	
33	-9.79	51.92	92.12	1	20	41.17	94.08	1	
33	-9.88	50.72	93.00	1	19	43.11	94.96	1	
34	-9.88	50.76	93.00	1	19	43.13	94.96	1	
34	-9.89	50.63	93.10	1	19	43.39	95.06	1	
35	-9.89	50.82	93.10	1	19	43.50	95.06	1	
35	-10.29	46.77	97.02	1	16	51.36	98.98	1	
36	-10.29	46.99	97.02	1	16	51.49	98.98	1	
36	-10.38	46.33	97.90	1	16	53.07	99.87	1	
37	-10.38	46.38	97.90	1	16	53.09	99.87	1	
37	-10.39	46.31	98.00	1	16	53.26	99.96	1	
38	-10.39	46.49	98.00	1	16	53.38	99.96	1	
38	-10.80	44.84	102.02	1		59.06	103.99	1	9
39	-10.80	45.89	102.02	1		58.31	103.99	1	10
39	-10.83	48.84	102.32	1		63.70	104.28	1	11
40	-10.83	48.99	102.32	1		63.80	104.28	1	11
40	-11.29	49.49	106.83	1		66.40	108.79	1	12
41	-11.29	49.65	106.83	1		66.50	108.79	1	12
41	-11.38	49.83	107.71	1		66.96	109.68	1	12
42	-11.38	49.86	107.71	1		66.97	109.68	1	12
42	-11.39	49.88	107.81	1		67.02	109.77	1	12
43	-11.39	49.92	107.81	1		67.05	109.77	1	12
43	-11.50	50.18	108.89	1		67.53	110.85	1	12
44	-11.50	50.33	108.89	1		67.62	110.85	1	12
44	-11.89	51.49	112.72	1		69.08	114.68	1	12
45	-11.89	51.72	112.72	1		69.23	114.68	1	12
45	-12.29	53.24	116.64	1		44.63	118.60	1	8
46	-12.29	53.38	116.64	1		71.83	118.60	1	12
46	-12.38	53.75	117.52	1		72.04	119.49	1	12
47	-12.38	53.78	117.52	1		72.06	119.49	1	12
47	-12.39	53.82	117.62	1		72.08	119.58	1	12
48	-12.39	53.86	117.62	1		72.10	119.58	1	12
48	-12.50	54.33	118.70	1		72.34	120.66	1	13
49	-12.50	54.45	118.70	1		72.42	120.66	1	13
49	-12.79	55.77	121.55	1		72.97	123.51	1	13
50	-12.79	55.97	121.55	1		73.10	123.51	1	13
50	-13.20	57.70	125.57	1		73.77	127.53	1	13
51	-13.20	51.64	125.57	1		80.10	127.53	1	11
51	-13.33	49.17	126.84	1		73.88	128.81	1	11
52	-13.33	49.51	126.84	1		74.11	128.81	1	11
52	-14.06	57.42	134.00	1		72.59	135.97	1	10
53	-14.06	57.99	134.00	1		72.97	135.97	1	10
53	-14.79	66.03	141.17	1	13	71.29	143.13	1	
54	-14.79	66.33	141.17	1	13	71.50	143.13	1	
54	-14.88	67.32	142.05	1	13	71.30	144.01	1	
55	-14.88	67.40	142.05	1	13	71.35	144.01	1	
55	-15.00	68.71	143.23	1	13	71.08	145.19	1	
56	-15.00	68.90	143.23	1	13	71.21	145.19	1	
56	-15.39	73.14	147.05	1	14	70.36	149.01	1	
57	-15.39	73.32	147.05	1	14	70.48	149.01	1	
57	-15.50	74.52	148.13	1	14	70.25	150.09	1	
58	-15.50	74.66	148.13	1	14	70.35	150.09	1	
58	-15.79	77.80	150.98	1	14	69.72	152.94	1	
59	-15.79	77.92	150.98	1	14	69.80	152.94	1	
59	-15.83	78.35	151.37	1	14	69.72	153.33	1	
60	-15.83	78.39	151.37	1	14	69.74	153.33	1	
60	-15.89	79.04	151.96	1	14	69.61	153.92	1	
61	-15.89	79.10	151.96	1	14	69.65	153.92	1	
61	-16.00	80.34	153.04	1	14	69.42	155.00	1	
62	-16.00	73.92	153.04	1	21	75.94	155.00	1	
62	-16.10	35.53	154.02	1	10	92.60	155.98	1	

*

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

19.7.5 Percentage gemobiliseerde weerstand

Horizontale gronddruk	Links [kN]	Rechts [kN]
Effectief	725.7	627.4
Water	1209.0	1307.5
Totaal	1934.8	1934.9

Beschouwd als passieve zijde	Links
Maximale passieve effectieve weerstand	3101.84 kN
Gemobiliseerde passieve eff. weerstand	725.73 kN
Percentage gemobiliseerde weerstand	23.4 %

Einde Rapport