

## Rapport voor D-Settlement 9.2

Zettingsberekeningen  
Ontwikkeld door Deltares



Bedrijfsnaam: Ingenieursbureau Oranjewoud

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Projectbeschrijving: Westfrisiaweg N23 Deeltraject 4  
DWP 1900 t.o.v. as MW10 met VD  
Sondering DKM54

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## 2 Weergave van de Invoer

### 2.1 Laagscheidingen

Laagscheidingnummer	Coördinaten [m]					
10 - X -	-50.000	-43.771	-32.100	-22.900	-19.000	
10 - Y -	-1.380	-1.400	-1.380	-1.357	-1.349	
10 - X -	-16.900	2.500	2.739	6.000	9.300	
10 - Y -	-0.384	0.300	0.290	0.370	0.464	
10 - X -	9.500	12.300	13.000	13.200	18.400	
10 - Y -	0.484	0.517	0.588	0.577	0.552	
10 - X -	18.700	19.100	22.600	27.000	27.500	
10 - Y -	0.504	0.480	0.387	0.301	0.359	
10 - X -	38.200	50.000				
10 - Y -	0.022	0.022				
9 - X -	-50.000	50.000				
9 - Y -	-1.900	-1.900				
8 - X -	-50.000	50.000				
8 - Y -	-3.100	-3.100				
7 - X -	-50.000	50.000				
7 - Y -	-10.000	-10.000				
6 - X -	-50.000	50.000				
6 - Y -	-12.500	-12.500				
5 - X -	-50.000	50.000				
5 - Y -	-15.000	-15.000				
4 - X -	-50.000	50.000				
4 - Y -	-17.500	-17.500				
3 - X -	-50.000	50.000				
3 - Y -	-18.000	-18.000				
2 - X -	-50.000	50.000				
2 - Y -	-20.000	-20.000				
1 - X -	-50.000	50.000				
1 - Y -	-22.500	-22.500				
0 - X -	-50.000	50.000				
0 - Y -	-25.000	-25.000				

### 2.2 PN-Lijnen

PN-lijnnummer	Coördinaten [m]					
1 - X -	-50.000	50.000				
1 - Y -	-1.400	-1.400				

### 2.3 Algemene Gegevens

Grondmodel:	Koppejan
Consolidatiemodel:	Terzaghi
Rekmodel:	Natuurlijk
Grondwaterniveau:	Initiëel bepaald door PN-lijnnummer 1
Volumiek gewicht grondwater:	9.81 [kN/m <sup>3</sup> ]
Dispersiecondities laagscheidingen	
- Boven:	gedraineerd
- Onder:	gedraineerd
Spanningsspreiding	
- Grond:	Buisman
- Belastingen:	Geen
Einde consolidatie:	10000.00 [dagen]
Geen onderhouden hoogte	
Pg (initiëel):	Variabel evenwijdig aan de initiële grondspanning
Pg (Per stap):	Automatisch verhoogd tot de uiteindelijke grondspanning
Geen denkbeeldig maaiveld	
Met onderwaterzakken	
(alleen voor niet-uniforme belastingen)	
- Criterium einde iteratie :	0.10 [m]
Breedte belastingkolom	

- Niet-Uniforme Belastingen : 1.00 [m]
- Trapeziumvormige Belastingen : 1.00 [m]

## 2.4 Grondprofielen

Laag nummer	Materiaalnaam	PN-lijn boven	PN-lijn onder
10	Toplaag (klei)	1	1
9	Zand, los	1	1
8	Klei, sterk zandig	1	1
7	Klei, sterk zandig	1	1
6	Klei, sterk zandig	1	1
5	Klei, sterk zandig	1	1
4	Klei, sterk zandig	1	1
3	Zand, matig	1	1
2	Zand, matig	1	1
1	Zand, matig	1	1

## 2.5 Grondeigenschappen

Laag nummer	Gedraineerd	Volumiek gewicht	
		Onverzadigd [kN/m <sup>3</sup> ]	Verzadigd [kN/m <sup>3</sup> ]
10	Ja	15.00	15.00
9	Ja	18.20	18.20
8	Nee	17.30	17.30
7	Nee	17.30	17.30
6	Nee	17.30	17.30
5	Nee	17.30	17.30
4	Nee	17.30	17.30
3	Ja	18.00	18.00
2	Ja	18.00	18.00
1	Ja	18.00	18.00

Laag nummer	Vert. consolid. coëfficiënt Cv [m <sup>2</sup> /s]	Ratio Ch/Cv [-]
10	-	1.000
9	-	1.000
8	2.00E-07	1.000
7	2.00E-07	1.000
6	2.00E-07	1.000
5	2.00E-07	1.000
4	2.00E-07	1.000
3	-	1.000
2	-	1.000
1	-	1.000

Laag nummer	Grens-spanning [kN/m <sup>2</sup> ]	POP [kN/m <sup>2</sup> ]	OCR [-]
10	-	-	1.50
9	-	-	1.50
8	-	-	1.50
7	-	-	1.50
6	-	-	1.50
5	-	-	1.50
4	-	-	1.50
3	-	-	1.50
2	-	-	1.50
1	-	-	1.50

Laag nummer	Primaire compr. coëff.		Seculaire compr. coëff.		Zwelling constanten	
	Cp [-]	Cp' [-]	Cs [-]	Cs' [-]	Ap [-]	As [-]
10	1.50E+02	3.00E+01	1.00E+03	2.00E+02	1.50E+02	2.00E+02
9	1.00E+03	2.00E+02	1.00E+08	1.00E+08	1.00E+03	1.00E+08
8	1.25E+02	2.50E+01	1.60E+03	3.20E+02	1.25E+02	3.20E+02

Laag nummer	Primaire compr. coeff.		Seculaire compr. coef.		Zwelling constanten	
	Cp [-]	Cp' [-]	Cs [-]	Cs' [-]	Ap [-]	As [-]
7	1.25E+02	2.50E+01	1.60E+03	3.20E+02	1.25E+02	3.20E+02
6	1.25E+02	2.50E+01	1.60E+03	3.20E+02	1.25E+02	3.20E+02
5	1.25E+02	2.50E+01	1.60E+03	3.20E+02	1.25E+02	3.20E+02
4	1.25E+02	2.50E+01	1.60E+03	3.20E+02	1.25E+02	3.20E+02
3	3.00E+03	6.00E+02	1.00E+08	1.00E+08	3.00E+03	1.00E+08
2	3.00E+03	6.00E+02	1.00E+08	1.00E+08	3.00E+03	1.00E+08
1	3.00E+03	6.00E+02	1.00E+08	1.00E+08	3.00E+03	1.00E+08

## 2.6 Niet-Uniforme Belastingen

Belasting nummer	Tijd [dagen]	Volumiek gewicht	
		Onverzadigd [kN/m³]	Verzadigd [kN/m³]
1	0	18.00	20.00
2	0	18.00	20.00

Belastingnummer	Coördinaten [m]						
1 - X -	-43.77	-42.57	-41.97	-40.77	-37.50	-35.00	
1 - Y -	-1.40	-2.00	-2.00	-1.40	0.24	0.36	
1 - X -	-33.25	-31.50	-29.00	-26.52	-26.14	-22.89	
1 - Y -	0.41	0.36	0.24	0.43	0.43	0.34	
1 - X -	-22.52	-18.47	-16.30	-15.60	-10.45	-9.70	
1 - Y -	0.33	0.13	0.13	5.72	5.98	5.99	
1 - X -	-6.28	-2.85	-2.15	0.00	2.74	3.44	
1 - Y -	6.08	6.17	6.18	6.15	6.17	6.15	
1 - X -	6.86	10.29	11.04	16.19	16.43	16.86	
1 - Y -	6.07	5.98	5.96	5.70	0.34	0.34	
1 - X -	19.84	20.23	25.61	26.01	29.25	31.13	
1 - Y -	0.46	0.45	0.31	0.30	0.10	0.12	
1 - X -	32.96	35.52					
1 - Y -	0.07	0.11					
2 - X -	-40.77	-40.77	-37.50	-35.00	-33.25	-31.50	
2 - Y -	-1.40	-1.35	0.40	0.55	0.65	0.60	
2 - X -	-29.00	-26.52	-26.14	-22.89	-22.52	-18.47	
2 - Y -	0.45	0.65	0.65	0.60	0.60	0.40	
2 - X -	-16.30	-15.60	-10.45	-9.70	-6.28	-2.85	
2 - Y -	0.50	6.15	6.65	6.65	6.75	6.80	
2 - X -	-2.15	0.00	2.74	3.44	6.86	10.29	
2 - Y -	6.80	6.80	6.80	6.80	6.65	6.55	
2 - X -	11.04	16.19	16.43	16.86	19.84	20.23	
2 - Y -	6.50	6.00	0.60	0.50	0.50	0.45	
2 - X -	25.61	26.01	29.25	31.13	32.96	35.52	
2 - Y -	0.31	0.30	0.10	0.12	0.07	0.11	

## 2.7 Verticalen

Verticaalnummer	X-coördinaten [m]				
1 - 3	-15.600	0.000	16.432		

Berekening van doorsnede op Z = 0.000 m

## 2.8 Verticale Drains

Drainage type		Strip
Horizontaal bereik "From"	[m]	-15.000
Horizontaal bereik "To"	[m]	16.000
Bodempositie	[m]	-17.500
Hart-op-hartafstand	[m]	2.500
Breedte	[m]	0.100
Dikte	[m]	0.003
Grid		Driehoekig
Geforceerde ontwatering		Uit
Aanvang drainage	[dagen]	0.000

### 3 Resultaat per Verticaal

#### 3.1 Resultaat voor Verticaal 1 (X = -15.60 m; Z = 0.00 m)

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
Laag 10						
-0.34	0.001	0.000	0.001	90.236	0.000	90.236
-0.44	1.500	0.000	1.500	91.922	0.000	91.922
-0.54	3.000	0.000	3.000	93.497	0.000	93.497
-0.64	4.500	0.000	4.500	94.983	0.000	94.983
-0.74	6.000	0.000	6.000	96.298	0.000	96.298
-0.84	7.500	0.000	7.500	97.410	0.000	97.410
-0.94	9.000	0.000	9.000	98.334	0.000	98.334
-1.04	10.500	0.000	10.500	99.203	0.087	99.116
-1.12	11.714	0.000	11.714	100.486	0.805	99.681
-1.14	12.000	0.000	12.000	100.784	0.975	99.808
-1.24	13.500	0.000	13.500	102.326	1.869	100.457
-1.34	15.000	0.000	15.000	103.866	2.769	101.098
-1.40	15.928	0.000	15.928	104.829	3.327	101.502
-1.90	23.428	4.905	18.523	107.731	7.287	100.444
Laag 9						
-1.90	23.428	4.905	18.523	107.731	7.287	100.444
-2.50	34.348	10.791	23.557	115.777	13.136	102.641
-3.10	45.268	16.677	28.591	125.035	18.991	106.044
Laag 8						
-3.10	45.268	16.677	28.591	125.035	18.991	106.044
-3.85	58.243	24.035	34.208	136.595	26.002	110.594
-4.85	75.543	33.844	41.698	152.922	35.417	117.504
-5.85	92.843	43.655	49.188	169.720	44.893	124.828
-6.55	104.953	50.522	54.431	181.601	51.554	130.047
-7.30	117.928	57.879	60.049	194.378	58.712	135.665
-8.30	135.228	67.689	67.539	211.442	68.287	143.154
-9.30	152.528	77.499	75.029	228.507	77.892	150.614
-10.00	164.638	84.366	80.272	240.442	84.631	155.811
Laag 7						
-10.00	164.638	84.366	80.272	240.442	84.631	155.811
-10.65	175.883	90.743	85.140	251.514	90.899	160.615
-11.25	186.263	96.629	89.634	261.724	96.692	165.031
-11.90	197.508	103.005	94.503	272.772	102.977	169.795
-12.50	207.888	108.891	98.997	282.958	108.785	174.173
Laag 6						
-12.50	207.888	108.891	98.997	282.958	108.785	174.174
-13.15	219.133	115.268	103.865	293.980	115.084	178.896
-13.75	229.513	121.154	108.359	304.141	120.904	183.237
-14.40	240.758	127.530	113.228	315.136	127.216	187.920
-15.00	251.138	133.416	117.722	325.272	133.047	192.225
Laag 5						
-15.00	251.138	133.416	117.722	325.272	133.047	192.225
-15.65	262.383	139.792	122.590	336.240	139.370	196.870
-16.25	272.763	145.679	127.084	346.352	145.212	201.140
-16.90	284.008	152.055	131.953	357.295	151.545	205.750
-17.50	294.388	157.941	136.447	367.384	157.395	209.989
Laag 4						
-17.50	294.388	157.941	136.447	367.384	157.395	209.989
-17.75	298.713	160.394	138.319	371.585	159.834	211.751
-18.00	303.038	162.846	140.192	375.784	162.273	213.511
Laag 3						
-18.00	303.038	162.846	140.192	376.365	162.854	213.511
-19.00	321.038	172.656	148.382	393.888	172.663	221.226
-20.00	339.038	182.466	156.572	411.376	182.472	228.905
Laag 2						

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
-20.00	339.038	182.466	156.572	411.377	182.472	228.905
-21.25	361.538	194.729	166.809	433.191	194.733	238.459
-22.50	384.038	206.991	177.047	454.961	206.994	247.968
Laag 1						
-22.50	384.038	206.991	177.047	454.961	206.994	247.968
-23.75	406.538	219.254	187.284	476.692	219.255	257.437
-25.00	429.038	231.516	197.522	498.389	231.516	266.873

Laag nummer	Zwel		Zetting b. Sp		Zetting a. Sp	
	Primair [m]	Secundair [m]	Primair [m]	Secundair 10 [dagen] [m]	Primair [m]	Secundair 10 [dagen] [m]
10	0.0000	0.0000	0.0042	0.0006	0.1066	0.0160
9	0.0000	0.0000	0.0005	0.0000	0.0065	0.0000
8	0.0000	0.0000	0.0224	0.0017	0.1394	0.0109
7	0.0000	0.0000	0.0081	0.0006	0.0210	0.0016
6	0.0000	0.0000	0.0081	0.0006	0.0124	0.0010
5	0.0000	0.0000	0.0081	0.0006	0.0057	0.0004
4	0.0000	0.0000	0.0016	0.0001	0.0005	0.0000
3	0.0000	0.0000	0.0003	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0003	0.0000	0.0000	0.0000
1	0.0000	0.0000	0.0003	0.0000	0.0000	0.0000
Totaal	0.0000	0.0000	0.0539	0.0044	0.2920	0.0300

Diepte		Laag nummer	Totale zetting (100% cons.)			Percentage van originele laaghoogte [%]
Van [m]	Tot [m]		Primair [m]	Secundair 10 [dagen] [m]	Na 10000 [dagen] [m]	
-0.34	-1.90	10	0.1108	0.0166	0.1663	10.64
-1.90	-3.10	9	0.0070	0.0000	0.0069	0.58
-3.10	-10.00	8	0.1618	0.0126	0.2088	3.03
-10.00	-12.50	7	0.0291	0.0023	0.0379	1.51
-12.50	-15.00	6	0.0205	0.0016	0.0267	1.07
-15.00	-17.50	5	0.0138	0.0011	0.0181	0.72
-17.50	-18.00	4	0.0021	0.0002	0.0027	0.55
-18.00	-20.00	3	0.0003	0.0000	0.0003	0.01
-20.00	-22.50	2	0.0003	0.0000	0.0003	0.01
-22.50	-25.00	1	0.0003	0.0000	0.0003	0.01
Totaal			0.3459	0.0344	0.4683	

### 3.2 Resultaat voor Verticaal 2 (X = 0.00 m; Z = 0.00 m)

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
Laag 10						
0.21	0.001	0.000	0.001	118.046	0.000	118.046
0.11	1.500	0.000	1.500	118.545	0.000	118.545
0.01	3.000	0.000	3.000	119.113	0.000	119.113
-0.09	4.500	0.000	4.500	121.079	0.000	121.079
-0.19	6.000	0.000	6.000	123.114	0.000	123.114
-0.29	7.500	0.000	7.500	124.992	0.000	124.992
-0.39	9.000	0.000	9.000	126.741	0.000	126.741
-0.49	10.500	0.000	10.500	128.402	0.000	128.402
-0.59	12.000	0.000	12.000	130.004	0.000	130.004
-0.69	13.500	0.000	13.500	131.565	0.000	131.565
-0.79	15.000	0.000	15.000	133.100	0.000	133.100
-0.84	15.839	0.000	15.839	133.950	0.000	133.950
-1.40	24.178	0.000	24.178	146.660	4.405	142.255
-1.90	31.678	4.905	26.773	152.848	8.094	144.754
Laag 9						
-1.90	31.678	4.905	26.773	152.848	8.094	144.754

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
-2.50	42.598	10.791	31.807	163.592	13.942	149.650
-3.10	53.518	16.677	36.841	174.317	19.793	154.523
Laag 8						
-3.10	53.518	16.677	36.841	174.317	19.794	154.523
-3.85	66.493	24.035	42.458	186.651	26.753	159.897
-4.85	83.793	33.844	49.948	203.057	36.089	166.969
-5.85	101.093	43.655	57.438	219.388	45.478	173.910
-6.55	113.203	50.522	62.681	230.759	52.077	178.683
-7.30	126.178	57.879	68.299	242.882	59.170	183.712
-8.30	143.478	67.689	75.789	258.940	68.659	190.281
-9.30	160.778	77.499	83.279	274.875	78.180	196.696
-10.00	172.888	84.366	88.522	285.959	84.862	201.097
Laag 7						
-10.00	172.888	84.366	88.522	285.959	84.862	201.097
-10.65	184.133	90.743	93.390	296.202	91.079	205.123
-11.25	194.513	96.629	97.884	305.618	96.827	208.791
-11.90	205.758	103.005	102.753	315.780	103.064	212.716
-12.50	216.138	108.891	107.247	325.128	108.829	216.299
Laag 6						
-12.50	216.138	108.891	107.247	325.128	108.829	216.299
-13.15	227.383	115.268	112.115	335.224	115.084	220.140
-13.75	237.763	121.154	116.609	344.520	120.865	223.655
-14.40	249.008	127.530	121.478	354.568	127.136	227.433
-15.00	259.388	133.416	125.972	363.827	132.931	230.897
Laag 5						
-15.00	259.388	133.416	125.972	363.828	132.931	230.897
-15.65	270.633	139.792	130.840	373.845	139.216	234.628
-16.25	281.013	145.679	135.334	383.082	145.025	238.058
-16.90	292.258	152.055	140.203	393.084	151.323	241.761
-17.50	302.638	157.941	144.697	402.313	157.143	245.170
Laag 4						
-17.50	302.638	157.941	144.697	402.314	157.143	245.170
-17.75	306.963	160.394	146.569	406.159	159.570	246.589
-18.00	311.288	162.846	148.442	410.005	161.997	248.008
Laag 3						
-18.00	311.288	162.846	148.442	410.867	162.859	248.008
-19.00	329.288	172.656	156.632	427.044	172.666	254.378
-20.00	347.288	182.466	164.822	443.225	182.473	260.752
Laag 2						
-20.00	347.288	182.466	164.822	443.225	182.473	260.752
-21.25	369.788	194.729	175.059	463.470	194.733	268.736
-22.50	392.288	206.991	185.297	483.747	206.994	276.753
Laag 1						
-22.50	392.288	206.991	185.297	483.748	206.994	276.753
-23.75	414.788	219.254	195.534	504.069	219.255	284.814
-25.00	437.288	231.516	205.772	524.441	231.516	292.925

Laag nummer	Zwel		Zetting b. Sp		Zetting a. Sp	
	Primair [m]	Secundair [m]	Primair [m]	Secundair 10 [dagen] [m]	Primair [m]	Secundair 10 [dagen] [m]
10	0.0000	0.0000	0.0057	0.0009	0.1430	0.0214
9	0.0000	0.0000	0.0005	0.0000	0.0069	0.0000
8	0.0000	0.0000	0.0224	0.0017	0.1854	0.0145
7	0.0000	0.0000	0.0081	0.0006	0.0357	0.0028
6	0.0000	0.0000	0.0081	0.0006	0.0250	0.0020
5	0.0000	0.0000	0.0081	0.0006	0.0163	0.0013
4	0.0000	0.0000	0.0016	0.0001	0.0024	0.0002
3	0.0000	0.0000	0.0003	0.0000	0.0003	0.0000
2	0.0000	0.0000	0.0003	0.0000	0.0001	0.0000
1	0.0000	0.0000	0.0003	0.0000	0.0000	0.0000
Totaal	0.0000	0.0000	0.0554	0.0046	0.4151	0.0421



Diepte		Laag nummer	Totale zetting (100% cons.)			Percentage van originele laaghoogte [%]
Van [m]	Tot [m]		Primair [m]	Secundair 10 [dagen] [m]	Na 10000 [dagen] [m]	
0.21	-1.90	10	0.1487	0.0223	0.2231	10.56
-1.90	-3.10	9	0.0074	0.0000	0.0074	0.61
-3.10	-10.00	8	0.2078	0.0162	0.2671	3.87
-10.00	-12.50	7	0.0438	0.0034	0.0569	2.27
-12.50	-15.00	6	0.0331	0.0026	0.0431	1.73
-15.00	-17.50	5	0.0245	0.0019	0.0319	1.28
-17.50	-18.00	4	0.0040	0.0003	0.0052	1.04
-18.00	-20.00	3	0.0005	0.0000	0.0005	0.03
-20.00	-22.50	2	0.0004	0.0000	0.0004	0.02
-22.50	-25.00	1	0.0003	0.0000	0.0003	0.01
Totaal			0.4706	0.0468	0.6360	

### 3.3 Resultaat voor Verticaal 3 (X = 16.43 m; Z = 0.00 m)

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
Laag 10						
0.56	0.001	0.000	0.001	3.870	0.000	3.870
0.46	1.500	0.000	1.500	5.809	0.000	5.809
0.36	3.000	0.000	3.000	34.345	0.000	34.345
0.26	4.500	0.000	4.500	43.327	0.000	43.327
0.16	6.000	0.000	6.000	47.390	0.000	47.390
0.06	7.500	0.000	7.500	50.585	0.000	50.585
-0.04	9.000	0.000	9.000	53.308	0.000	53.308
-0.14	10.500	0.000	10.500	55.754	0.000	55.754
-0.24	12.000	0.000	12.000	58.020	0.000	58.020
-0.34	13.500	0.000	13.500	60.156	0.000	60.156
-0.44	15.000	0.000	15.000	62.194	0.000	62.194
-0.67	18.461	0.000	18.461	66.626	0.000	66.626
-1.40	29.422	0.000	29.422	80.741	1.462	79.279
-1.90	36.922	4.905	32.017	88.068	5.620	82.448
Laag 9						
-1.90	36.922	4.905	32.017	88.068	5.620	82.448
-2.50	47.842	10.791	37.051	99.395	11.489	87.906
-3.10	58.762	16.677	42.085	110.583	17.360	93.224
Laag 8						
-3.10	58.762	16.677	42.085	110.584	17.360	93.224
-3.85	71.737	24.035	47.702	123.656	24.548	99.108
-4.85	89.037	33.844	55.192	141.058	34.167	106.892
-5.85	106.337	43.655	62.682	158.464	43.817	114.647
-6.55	118.447	50.522	67.925	170.654	50.589	120.066
-7.30	131.422	57.879	73.543	183.721	57.857	125.864
-8.30	148.722	67.689	81.033	201.148	67.565	133.583
-9.30	166.022	77.499	88.523	218.575	77.292	141.284
-10.00	178.132	84.366	93.766	230.772	84.110	146.663
Laag 7						
-10.00	178.132	84.366	93.766	230.773	84.110	146.663
-10.65	189.377	90.743	98.634	242.095	90.447	151.648
-11.25	199.757	96.629	103.128	252.543	96.301	156.241
-11.90	211.002	103.005	107.997	263.856	102.649	161.207
-12.50	221.382	108.891	112.491	274.292	108.510	165.782
Laag 6						
-12.50	221.382	108.891	112.491	274.292	108.510	165.782
-13.15	232.627	115.268	117.359	285.587	114.861	170.726
-13.75	243.007	121.154	121.853	296.004	120.724	175.280
-14.40	254.252	127.530	126.722	307.278	127.076	180.202
-15.00	264.632	133.416	131.216	317.675	132.941	184.734
Laag 5						
-15.00	264.632	133.416	131.216	317.675	132.941	184.735

Diepte [m]	Initiële spanning			Eindspanning		
	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]	S-totaal [kN/m <sup>2</sup> ]	S-water [kN/m <sup>2</sup> ]	S-eff. [kN/m <sup>2</sup> ]
-15.65	275.877	139.792	136.084	328.928	139.294	189.633
-16.25	286.257	145.679	140.578	339.304	145.160	194.144
-16.90	297.502	152.055	145.447	350.534	151.515	199.019
-17.50	307.882	157.941	149.941	360.891	157.382	203.509
Laag 4						
-17.50	307.882	157.941	149.941	360.891	157.382	203.509
-17.75	312.207	160.394	151.813	365.203	159.826	205.376
-18.00	316.532	162.846	153.686	369.513	162.271	207.242
Laag 3						
-18.00	316.532	162.846	153.686	370.094	162.852	207.242
-19.00	334.532	172.656	161.876	388.049	172.661	215.388
-20.00	352.532	182.466	170.066	405.976	182.470	223.506
Laag 2						
-20.00	352.532	182.466	170.066	405.976	182.470	223.506
-21.25	375.032	194.729	180.303	428.347	194.731	233.616
-22.50	397.532	206.991	190.541	450.679	206.993	243.686
Laag 1						
-22.50	397.532	206.991	190.541	450.679	206.993	243.686
-23.75	420.032	219.254	200.778	472.974	219.254	253.719
-25.00	442.532	231.516	211.016	495.234	231.516	263.718

Laag nummer	Zwel		Zetting b. Sp		Zetting a. Sp	
	Primair [m]	Secundair [m]	Primair [m]	Secundair 10 [dagen] [m]	Primair [m]	Secundair 10 [dagen] [m]
10	0.0000	0.0000	0.0067	0.0010	0.0828	0.0124
9	0.0000	0.0000	0.0005	0.0000	0.0028	0.0000
8	0.0000	0.0000	0.0224	0.0017	0.0511	0.0040
7	0.0000	0.0000	0.0081	0.0006	0.0016	0.0001
6	0.0000	0.0000	0.0073	0.0006	0.0000	0.0000
5	0.0000	0.0000	0.0065	0.0005	0.0000	0.0000
4	0.0000	0.0000	0.0012	0.0001	0.0000	0.0000
3	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
1	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
Totaal	0.0000	0.0000	0.0533	0.0046	0.1383	0.0165

Diepte		Laag nummer	Totale zetting (100% cons.)			Percentage van originele laaghoogte [%]
Van [m]	Tot [m]		Primair [m]	Secundair 10 [dagen] [m]	Na 10000 [dagen] [m]	
0.56	-1.90	10	0.0894	0.0134	0.1384	5.62
-1.90	-3.10	9	0.0033	0.0000	0.0033	0.27
-3.10	-10.00	8	0.0735	0.0057	0.0957	1.39
-10.00	-12.50	7	0.0097	0.0008	0.0127	0.51
-12.50	-15.00	6	0.0073	0.0006	0.0096	0.38
-15.00	-17.50	5	0.0065	0.0005	0.0085	0.34
-17.50	-18.00	4	0.0012	0.0001	0.0016	0.32
-18.00	-20.00	3	0.0002	0.0000	0.0002	0.01
-20.00	-22.50	2	0.0002	0.0000	0.0002	0.01
-22.50	-25.00	1	0.0002	0.0000	0.0002	0.01
Totaal			0.1916	0.0211	0.2705	

## 4 Zettingen

### 4.1 Zettingen

Verticaal nummer	X-coördinaat [m]	Maaiveld [m]	Zetting [m]
1	-15.60	-0.34	0.468
2	0.00	0.21	0.636
3	16.43	0.56	0.270

### 4.2 Resttijden

Verticaal nummer	Tijd [dagen]	Zetting [m]	Percentage van eindzetting [%]	Restzetting [m]
1	180	0.282	60.327	0.186
	365	0.336	71.691	0.133
	730	0.391	83.536	0.077
2	180	0.488	76.771	0.148
	365	0.554	87.146	0.082
	730	0.585	91.977	0.051
3	180	0.179	65.997	0.092
	365	0.204	75.274	0.067
	730	0.230	84.921	0.041

## Einde Rapport