

Böschungsberechnung nach EC 7
mit Kreisgleitflächen

Profil C

letzte Version_Bishop

Parameterliste

φ [°] = Reibungswinkel

c [kN/m²] = Kohäsion

γ [kN/m³] = Wichte

μ [-] = Ausnutzungsgrad

x_m, y_m [m] = x,y-Wert des Gleitkreismittelpunktes

rad [m] = Radius des Gleitkreises

Teilsicherheiten: (GEO-3)

- gam(phi)= 1.25

- gam(c') = 1.25

- gam(cu) = 1.25

- gam(Wichten) = 1.00

- gam(Ständige Einw.) = 1.00

- gam(Veränderliche Einw.) = 1.30

Bewegungsrichtung des Gleitkörpers nach links

Koordinaten der Geländepunkte

Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	47.700	2	4.690	47.660	3	8.730	47.690	4	15.960	45.310	5	17.600	45.240
6	49.730	62.000	7	53.770	62.000	8	77.680	70.960	9	78.300	70.980	10	81.120	71.230
11	90.790	73.320	12	97.420	74.310	13	100.580	74.530	14	102.960	74.570	15	105.750	74.530
16	112.650	74.450	17	122.980	74.430									

Charakteristische Bodenkennwerte

Boden	φ_k	c _k	γ_k	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	35.00	0.00	22.00	Terrassenkies
2	25.00	0.00	15.00	Kalkschlamm
3	35.00	0.00	16.00	Aufschüttung
4	30.00	0.00	19.00	Pionierdamm
5	26.00	0.00	16.00	Aufsatzdamm
6	35.00	0.00	19.00	Auf-Pop-Damm

Bemessungs-Bodenkennwerte

Boden	φ_d	c _d	γ_d	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	29.26	0.00	22.00	Terrassenkies
2	20.46	0.00	15.00	Kalkschlamm
3	29.26	0.00	16.00	Aufschüttung
4	24.79	0.00	19.00	Pionierdamm
5	21.32	0.00	16.00	Aufsatzdamm
6	29.26	0.00	19.00	Auf-Pop-Damm

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	63.000	62.580	64.460	64.590	6
2	64.460	64.590	68.450	66.120	6
3	68.450	66.120	72.610	68.730	6
4	72.610	68.730	75.210	69.790	6
5	53.770	58.510	56.690	60.080	6
6	56.690	60.080	59.230	60.670	6
7	59.230	60.670	61.980	62.380	6
8	42.110	55.220	46.890	58.450	6
9	52.080	58.430	53.770	58.510	6
10	53.770	58.510	54.980	57.500	5
11	61.980	62.380	63.000	62.580	6
12	75.210	69.790	77.680	70.960	6
13	27.160	45.480	38.500	52.430	6
14	17.600	45.240	21.130	45.090	6
15	21.130	45.090	27.160	45.480	6
16	38.500	52.430	42.110	55.220	6
17	46.890	58.450	49.730	59.460	6

18	49.730	59.460	52.080	58.430	6
19	43.264	56.000	53.530	56.000	5
20	53.530	56.000	54.710	55.000	5
21	63.000	62.580	64.460	62.580	3
22	64.460	62.580	67.500	60.000	3
23	77.680	70.960	78.300	70.980	6
24	78.300	70.980	81.120	71.230	6
25	90.790	73.320	97.420	74.310	6
26	97.420	74.310	100.580	74.530	6
27	100.580	74.530	102.960	74.570	6
28	102.960	74.570	105.750	74.530	6
29	105.750	74.530	112.650	74.450	6
30	67.500	60.000	122.980	60.000	3
31	67.500	60.000	70.530	57.500	2
32	54.980	57.500	70.530	57.500	5
33	72.350	40.000	122.980	40.000	2
34	54.980	57.500	57.960	55.000	2
35	54.710	55.000	57.960	55.000	5
36	54.710	55.000	72.350	40.000	2
37	31.280	48.000	62.942	48.000	4
38	0.280	30.000	122.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	-20000.000	2	122.980	-20000.000

Wasserstand vor der Böschung links [m] = 0.00

Wasserstand vor der Böschung rechts [m] = 0.00

γ Wasser [kN/m³] = 10.000

Berechnung mit Berücksichtigung des passiven Erddruckkeils

Ergebnisse

Suchbereich

Art Suchradius

Horizontale Tangenten

x / y (Anfang): 45.1720 79.7891

x / y (Ende): 46.4325 34.4107

Anzahl Radien = 40

Nr	xm	ym	Radius	Lamellen	μ	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]
1	76.1724	101.8572	45.8918	50	0.3919	78291.447	199779.125	199779.1	0.0	78291.4	0.0
2	76.1724	97.7532	42.9222	50	0.3949	78080.940	197716.333	197716.3	0.0	78080.9	0.0
3	76.1724	93.6492	38.8182	50	0.3978	68116.100	171225.337	171225.3	0.0	68116.1	0.0
4	76.1724	89.5452	34.7142	50	0.3962	57239.535	144464.855	144464.9	0.0	57239.5	0.0
5	76.1724	85.4411	28.3412	50	0.3894	34577.444	88796.958	88797.0	0.0	34577.4	0.0
6	76.1724	81.3371	29.9095	50	0.3848	57306.289	148909.849	148909.8	0.0	57306.3	0.0
7	76.1724	77.2331	6.5827	50	0.4000	2.135	5.338	5.3	0.0	2.1	0.0
8	76.1724	73.1291	24.2921	52	0.3636	45115.492	124067.547	124067.5	0.0	45115.5	0.0
9	76.1724	69.0250	25.0742	59	0.3462	58688.133	169500.703	169500.7	0.0	58688.1	0.0
10	76.1724	64.9210	20.3429	63	0.3227	33632.780	104211.908	104211.9	0.0	33632.8	0.0
11	76.1724	60.8170	18.9721	68	0.2816	29040.279	103114.650	103114.6	0.0	29040.3	0.0
12	76.1724	56.7130	22.3022	70	0.2052	52267.929	254705.789	254705.8	0.0	52267.9	0.0
13	76.1724	52.6089	18.6473	79	0.1903	30244.934	158968.654	158968.7	0.0	30244.9	0.0
14	76.1724	48.5049	Kein Schnitt mit Gelände								
15	76.1724	44.4009	Kein Schnitt mit Gelände								
16	71.5610	101.8572	44.7573	50	0.4381	70039.950	159879.261	159879.3	0.0	70039.9	0.0
17	71.5610	97.7532	40.6533	50	0.4463	60981.310	136628.458	136628.5	0.0	60981.3	0.0
18	71.5610	93.6492	36.5493	50	0.4456	51874.787	116411.407	116411.4	0.0	51874.8	0.0
19	71.5610	89.5452	19.9662	50	0.5006	97.038	193.854	193.9	0.0	97.0	0.0
20	71.5610	85.4411	15.8622	50	0.6087	31.844	52.314	52.3	0.0	31.8	0.0
21	71.5610	81.3371	12.8926	50	0.5488	398.884	726.803	726.8	0.0	398.9	0.0
22	71.5610	77.2331	8.5960	50	0.6203	119.867	193.238	193.2	0.0	119.9	0.0
23	71.5610	73.1291	6.6600	50	0.4431	519.886	1173.274	1173.3	0.0	519.9	0.0
24	71.5610	69.0250	20.9004	56	0.3653	33420.653	91491.993	91492.0	0.0	33420.7	0.0
25	71.5610	64.9210	17.2144	63	0.3399	21277.942	62596.195	62596.2	0.0	21277.9	0.0
26	71.5610	60.8170	18.9721	66	0.2643	30418.903	115073.006	115073.0	0.0	30418.9	0.0

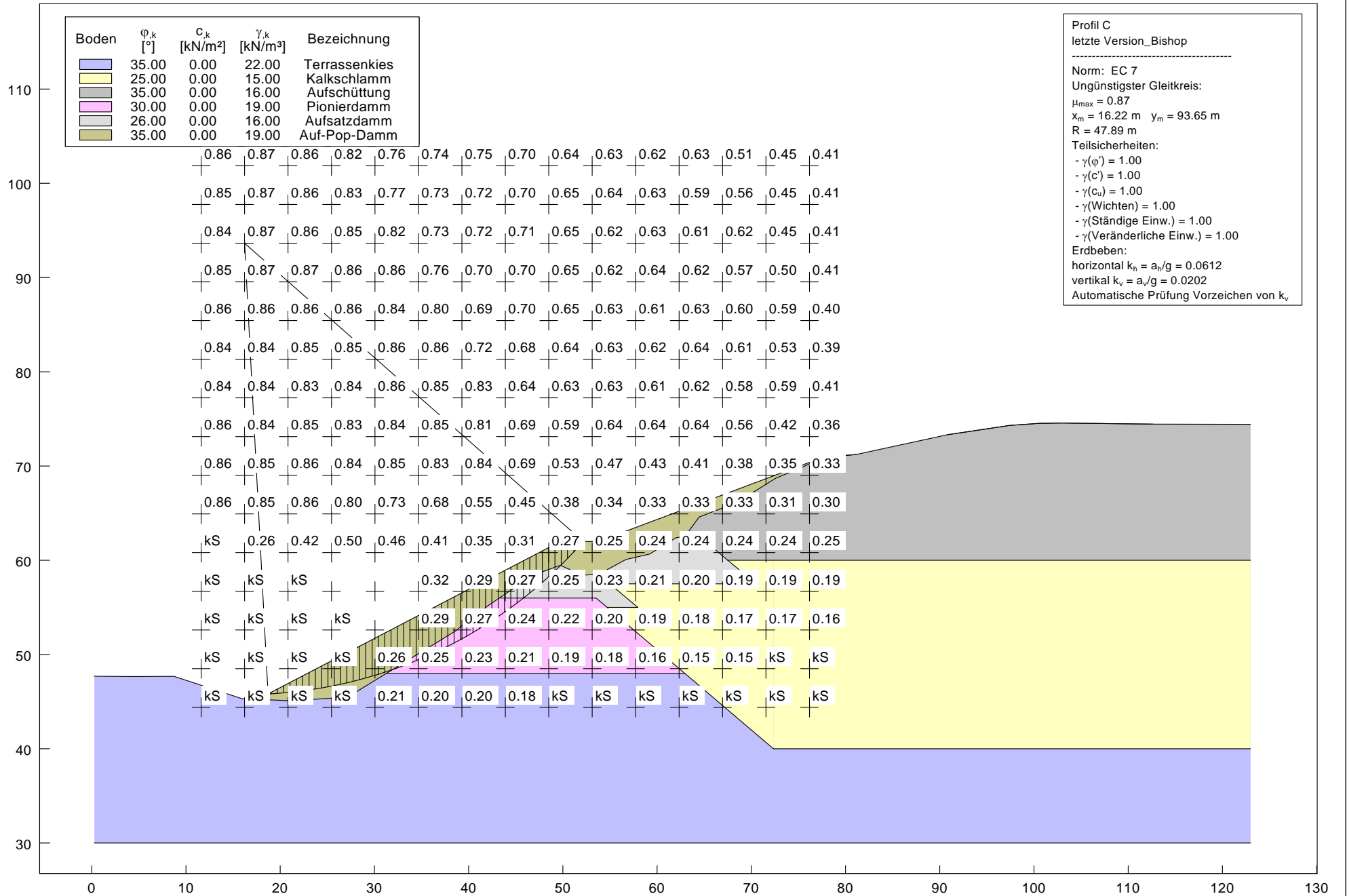
27	71.5610	56.7130	22.3603	68	0.2055	53539.493	260581.303	260581.3	0.0	53539.5	0.0
28	71.5610	52.6089	22.0155	77	0.1905	54279.764	284874.695	284874.7	0.0	54279.8	0.0
29	71.5610	48.5049	Kein Schnitt mit Gelände								
30	71.5610	44.4009	Kein Schnitt mit Gelände								
31	66.9495	101.8572	33.4127	50	0.5169	554.925	1073.605	1073.6	0.0	554.9	0.0
32	66.9495	97.7532	29.3087	50	0.5721	328.568	574.360	574.4	0.0	328.6	0.0
33	66.9495	93.6492	25.2047	50	0.6483	119.289	184.016	184.0	0.0	119.3	0.0
34	66.9495	89.5452	22.2351	50	0.5881	1066.039	1812.740	1812.7	0.0	1066.0	0.0
35	66.9495	85.4411	18.1311	50	0.6292	615.559	978.379	978.4	0.0	615.6	0.0
36	66.9495	81.3371	14.0271	50	0.6416	250.832	390.956	391.0	0.0	250.8	0.0
37	66.9495	77.2331	10.6093	50	0.6044	368.557	609.831	609.8	0.0	368.6	0.0
38	66.9495	73.1291	6.6600	50	0.5931	156.841	264.459	264.5	0.0	156.8	0.0
39	66.9495	69.0250	13.1491	54	0.3975	8581.873	21588.440	21588.4	0.0	8581.9	0.0
40	66.9495	64.9210	14.8681	60	0.3518	13743.731	39064.030	39064.0	0.0	13743.7	0.0
41	66.9495	60.8170	18.9721	63	0.2544	31092.811	122203.198	122203.2	0.0	31092.8	0.0
42	66.9495	56.7130	23.0761	66	0.2074	59765.309	288211.330	288211.3	0.0	59765.3	0.0
43	66.9495	52.6089	22.0155	74	0.1924	55926.249	290630.400	290630.4	0.0	55926.2	0.0
44	66.9495	48.5049	18.3917	80	0.1769	32943.704	186252.049	186252.0	0.0	32943.7	0.0
45	66.9495	44.4009	Kein Schnitt mit Gelände								
46	62.3380	101.8572	34.5472	50	0.6611	274.664	415.438	415.4	0.0	274.7	0.0
47	62.3380	97.7532	31.5776	50	0.6091	2047.019	3360.862	3360.9	0.0	2047.0	0.0
48	62.3380	93.6492	27.4736	50	0.6398	1274.794	1992.583	1992.6	0.0	1274.8	0.0
49	62.3380	89.5452	23.3696	50	0.6519	612.579	939.686	939.7	0.0	612.6	0.0
50	62.3380	85.4411	19.2655	50	0.6588	191.529	290.704	290.7	0.0	191.5	0.0
51	62.3380	81.3371	15.1615	50	0.6665	11.055	16.586	16.6	0.0	11.1	0.0
52	62.3380	77.2331	11.6159	50	0.6504	104.236	160.276	160.3	0.0	104.2	0.0
53	62.3380	73.1291	7.4615	50	0.6652	2.577	3.875	3.9	0.0	2.6	0.0
54	62.3380	69.0250	13.1491	53	0.4225	7685.229	18190.244	18190.2	0.0	7685.2	0.0
55	62.3380	64.9210	14.8681	57	0.3486	13817.930	39638.208	39638.2	0.0	13817.9	0.0
56	62.3380	60.8170	18.9721	60	0.2508	31878.424	127122.996	127123.0	0.0	31878.4	0.0
57	62.3380	56.7130	23.0761	63	0.2119	60816.883	286993.839	286993.8	0.0	60816.9	0.0
58	62.3380	52.6089	22.0155	71	0.1970	57736.062	293114.127	293114.1	0.0	57736.1	0.0
59	62.3380	48.5049	18.3917	80	0.1810	35404.219	195568.837	195568.8	0.0	35404.2	0.0
60	62.3380	44.4009	Kein Schnitt mit Gelände								
61	57.7266	101.8572	36.8161	50	0.6465	2167.925	3353.575	3353.6	0.0	2167.9	0.0
62	57.7266	97.7532	32.7121	50	0.6568	1130.236	1720.794	1720.8	0.0	1130.2	0.0
63	57.7266	93.6492	28.6081	50	0.6613	411.407	622.087	622.1	0.0	411.4	0.0
64	57.7266	89.5452	24.5040	50	0.6665	47.267	70.917	70.9	0.0	47.3	0.0
65	57.7266	85.4411	21.5345	50	0.6418	1164.267	1813.997	1814.0	0.0	1164.3	0.0
66	57.7266	81.3371	17.4304	50	0.6444	532.315	826.062	826.1	0.0	532.3	0.0
67	57.7266	77.2331	13.6293	50	0.6358	396.603	623.738	623.7	0.0	396.6	0.0
68	57.7266	73.1291	9.0644	50	0.6669	1.909	2.862	2.9	0.0	1.9	0.0
69	57.7266	69.0250	10.7641	52	0.4457	3196.850	7172.439	7172.4	0.0	3196.8	0.0
70	57.7266	64.9210	14.8681	55	0.3368	12766.134	37907.918	37907.9	0.0	12766.1	0.0
71	57.7266	60.8170	19.1580	58	0.2559	33334.060	130249.411	130249.4	0.0	33334.1	0.0
72	57.7266	56.7130	23.0761	61	0.2233	62968.309	281959.193	281959.2	0.0	62968.3	0.0
73	57.7266	52.6089	22.0155	68	0.2059	60150.602	292195.630	292195.6	0.0	60150.6	0.0
74	57.7266	48.5049	18.3917	79	0.1881	37883.556	201351.532	201351.5	0.0	37883.6	0.0
75	57.7266	44.4009	Kein Schnitt mit Gelände								
76	53.1151	101.8572	37.9506	50	0.6626	732.472	1105.452	1105.5	0.0	732.5	0.0
77	53.1151	97.7532	33.8465	50	0.6665	125.270	187.949	187.9	0.0	125.3	0.0
78	53.1151	93.6492	30.8770	50	0.6492	2138.141	3293.415	3293.4	0.0	2138.1	0.0
79	53.1151	89.5452	26.7729	50	0.6520	1106.820	1697.453	1697.5	0.0	1106.8	0.0
80	53.1151	85.4411	22.6689	50	0.6559	456.046	695.279	695.3	0.0	456.0	0.0
81	53.1151	81.3371	18.5649	50	0.6615	108.229	163.605	163.6	0.0	108.2	0.0
82	53.1151	77.2331	14.6359	50	0.6631	37.282	56.225	56.2	0.0	37.3	0.0
83	53.1151	73.1291	10.6673	50	0.6681	0.899	1.345	1.3	0.0	0.9	0.0
84	53.1151	69.0250	12.5528	51	0.4742	4332.492	9136.188	9136.2	0.0	4332.5	0.0
85	53.1151	64.9210	15.6502	53	0.3483	14306.884	41080.471	41080.5	0.0	14306.9	0.0
86	53.1151	60.8170	26.2204	56	0.2616	85621.572	327278.384	327278.4	0.0	85621.6	0.0
87	53.1151	56.7130	23.0761	59	0.2400	66545.257	277249.532	277249.5	0.0	66545.3	0.0
88	53.1151	52.6089	22.4646	65	0.2201	67277.542	305642.878	305642.9	0.0	67277.5	0.0
89	53.1151	48.5049	18.3917	76	0.2019	41460.140	205303.096	205303.1	0.0	41460.1	0.0
90	53.1151	44.4009	Kein Schnitt mit Gelände								
91	48.5036	101.8572	44.7573	50	0.6584	38242.238	58086.961	58087.0	0.0	38242.2	0.0
92	48.5036	97.7532	40.6533	50	0.6687	31773.237	47511.647	47511.6	0.0	31773.2	0.0
93	48.5036	93.6492	36.5493	50	0.6713	25486.965	37968.335	37968.3	0.0	25487.0	0.0
94	48.5036	89.5452	32.4452	50	0.6728	19861.028	29520.131	29520.1	0.0	19861.0	0.0
95	48.5036	85.4411	28.3412	50	0.6721	15054.789	22399.083	22399.1	0.0	15054.8	0.0
96	48.5036	81.3371	24.2372	50	0.6639	10939.118	16476.070	16476.1	0.0	10939.1	0.0
97	48.5036	77.2331	20.6759	50	0.6499	9148.806	14076.220	14076.2	0.0	9148.8	0.0

98	48.5036	73.1291	17.0790	50	0.6129	7017.479	11450.375	11450.4	0.0	7017.5	0.0
99	48.5036	69.0250	12.5528	50	0.5433	3398.295	6255.296	6255.3	0.0	3398.3	0.0
100	48.5036	64.9210	15.2592	52	0.3935	12875.502	32717.025	32717.0	0.0	12875.5	0.0
101	48.5036	60.8170	18.9721	55	0.2841	32986.999	116103.278	116103.3	0.0	32987.0	0.0
102	48.5036	56.7130	22.9020	57	0.2642	69322.098	262405.614	262405.6	0.0	69322.1	0.0
103	48.5036	52.6089	22.4646	62	0.2400	72081.636	300370.393	300370.4	0.0	72081.6	0.0
104	48.5036	48.5049	18.3917	72	0.2195	45427.692	206943.627	206943.6	0.0	45427.7	0.0
105	48.5036	44.4009	Kein Schnitt mit Gelände								
106	43.8922	101.8572	44.7573	50	0.7234	26652.798	36842.918	36842.9	0.0	26652.8	0.0
107	43.8922	97.7532	40.6533	50	0.7288	21425.269	29398.347	29398.3	0.0	21425.3	0.0
108	43.8922	93.6492	36.5493	50	0.7318	16849.716	23025.373	23025.4	0.0	16849.7	0.0
109	43.8922	89.5452	33.5797	50	0.7326	19618.446	26779.046	26779.0	0.0	19618.4	0.0
110	43.8922	85.4411	29.4757	50	0.7307	15037.175	20580.439	20580.4	0.0	15037.2	0.0
111	43.8922	81.3371	25.3716	50	0.7053	11019.047	15622.386	15622.4	0.0	11019.0	0.0
112	43.8922	77.2331	21.6825	50	0.6667	9083.519	13624.871	13624.9	0.0	9083.5	0.0
113	43.8922	73.1291	13.0717	50	0.7306	137.900	188.741	188.7	0.0	137.9	0.0
114	43.8922	69.0250	11.3603	50	0.7343	1407.900	1917.341	1917.3	0.0	1407.9	0.0
115	43.8922	64.9210	14.8681	51	0.4788	11602.987	24235.604	24235.6	0.0	11603.0	0.0
116	43.8922	60.8170	18.9721	53	0.3230	34002.504	105285.463	105285.5	0.0	34002.5	0.0
117	43.8922	56.7130	22.3022	56	0.2882	66073.607	229275.821	229275.8	0.0	66073.6	0.0
118	43.8922	52.6089	20.6682	60	0.2659	61015.569	229491.964	229492.0	0.0	61015.6	0.0
119	43.8922	48.5049	17.9619	68	0.2420	45359.869	187445.980	187446.0	0.0	45359.9	0.0
120	43.8922	44.4009	13.7999	77	0.2195	23199.522	105709.756	105709.8	0.0	23199.5	0.0
121	39.2807	101.8572	45.8918	50	0.7765	24947.378	32127.577	32127.6	0.0	24947.4	0.0
122	39.2807	97.7532	42.9222	50	0.7496	29927.826	39925.520	39925.5	0.0	29927.8	0.0
123	39.2807	93.6492	38.8182	50	0.7571	24110.876	31847.841	31847.8	0.0	24110.9	0.0
124	39.2807	89.5452	34.7142	50	0.7348	18877.551	25688.986	25689.0	0.0	18877.6	0.0
125	39.2807	85.4411	30.6101	50	0.7245	14449.216	19942.495	19942.5	0.0	14449.2	0.0
126	39.2807	81.3371	25.3716	50	0.7524	6399.622	8505.954	8506.0	0.0	6399.6	0.0
127	39.2807	77.2331	18.6626	50	0.8927	222.353	249.070	249.1	0.0	222.4	0.0
128	39.2807	73.1291	15.4761	50	0.8790	653.551	743.527	743.5	0.0	653.6	0.0
129	39.2807	69.0250	11.3603	50	0.9066	101.741	112.225	112.2	0.0	101.7	0.0
130	39.2807	64.9210	14.8681	51	0.6005	10779.179	17949.730	17949.7	0.0	10779.2	0.0
131	39.2807	60.8170	18.9721	52	0.3766	34626.795	91947.258	91947.3	0.0	34626.8	0.0
132	39.2807	56.7130	22.3022	57	0.3173	67453.242	212600.856	212600.9	0.0	67453.2	0.0
133	39.2807	52.6089	18.1982	59	0.2996	45118.497	150608.848	150608.8	0.0	45118.5	0.0
134	39.2807	48.5049	14.9537	64	0.2660	29165.582	109634.333	109634.3	0.0	29165.6	0.0
135	39.2807	44.4009	13.7999	78	0.2381	23255.786	97682.547	97682.5	0.0	23255.8	0.0
136	34.6693	101.8572	48.1607	50	0.7798	34465.014	44196.628	44196.6	0.0	34465.0	0.0
137	34.6693	97.7532	44.0567	50	0.7708	27954.011	36267.425	36267.4	0.0	27954.0	0.0
138	34.6693	93.6492	35.4148	50	0.7722	268.018	347.085	347.1	0.0	268.0	0.0
139	34.6693	89.5452	34.7142	50	0.8020	10440.914	13018.650	13018.6	0.0	10440.9	0.0
140	34.6693	85.4411	28.3412	50	0.8592	904.553	1052.759	1052.8	0.0	904.6	0.0
141	34.6693	81.3371	24.2372	50	0.9263	89.125	96.220	96.2	0.0	89.1	0.0
142	34.6693	77.2331	20.6759	50	0.9219	142.902	155.010	155.0	0.0	142.9	0.0
143	34.6693	73.1291	17.0790	50	0.9176	141.382	154.071	154.1	0.0	141.4	0.0
144	34.6693	69.0250	13.7454	50	0.8939	335.392	375.190	375.2	0.0	335.4	0.0
145	34.6693	64.9210	14.8681	50	0.7420	8462.517	11404.380	11404.4	0.0	8462.5	0.0
146	34.6693	60.8170	18.9721	51	0.4407	33713.762	76494.476	76494.5	0.0	33713.8	0.0
147	34.6693	56.7130	22.3022	61	0.3441	66105.034	192114.145	192114.1	0.0	66105.0	0.0
148	34.6693	52.6089	18.1982	65	0.3229	43554.782	134892.612	134892.6	0.0	43554.8	0.0
149	34.6693	48.5049	14.0942	72	0.2858	23939.637	83760.697	83760.7	0.0	23939.6	0.0
150	34.6693	44.4009	13.7999	85	0.2472	21067.296	85238.720	85238.7	0.0	21067.3	0.0
151	30.0578	101.8572	44.7573	50	0.8093	325.066	401.650	401.7	0.0	325.1	0.0
152	30.0578	97.7532	44.0567	50	0.8190	14942.806	18246.285	18246.3	0.0	14942.8	0.0
153	30.0578	93.6492	37.6837	50	0.8745	1172.695	1340.982	1341.0	0.0	1172.7	0.0
154	30.0578	89.5452	33.5797	50	0.9295	46.473	49.996	50.0	0.0	46.5	0.0
155	30.0578	85.4411	30.6101	50	0.9089	1713.878	1885.636	1885.6	0.0	1713.9	0.0
156	30.0578	81.3371	28.7750	50	0.9273	9043.332	9752.363	9752.4	0.0	9043.3	0.0
157	30.0578	77.2331	22.6892	50	0.9277	44.216	47.664	47.7	0.0	44.2	0.0
158	30.0578	73.1291	19.4834	50	0.9063	520.571	574.363	574.4	0.0	520.6	0.0
159	30.0578	69.0250	15.5341	50	0.9186	94.834	103.233	103.2	0.0	94.8	0.0
160	30.0578	64.9210	16.0413	50	0.7969	7772.704	9753.720	9753.7	0.0	7772.7	0.0
161	30.0578	60.8170	18.9721	51	0.5013	30120.669	60080.453	60080.5	0.0	30120.7	0.0
162	30.0578	56.7130	22.3022	60	0.3544	61186.626	172637.525	172637.5	0.0	61186.6	0.0
163	30.0578	52.6089	18.1982	65	0.3252	38369.214	118002.782	118002.8	0.0	38369.2	0.0
164	30.0578	48.5049	14.0942	73	0.2936	20806.923	70865.159	70865.2	0.0	20806.9	0.0
165	30.0578	44.4009	11.2600	88	0.2486	10585.383	42586.888	42586.9	0.0	10585.4	0.0
166	25.4463	101.8572	47.0262	50	0.8871	1357.993	1530.865	1530.9	0.0	1358.0	0.0
167	25.4463	97.7532	45.1911	50	0.8919	12348.419	13844.739	13844.7	0.0	12348.4	0.0
168	25.4463	93.6492	39.9526	50	0.9153	2217.437	2422.510	2422.5	0.0	2217.4	0.0

169	25.4463	89.5452	38.1175	50	0.9285	13124.523	14135.850	14135.8	0.0	13124.5	0.0
170	25.4463	85.4411	35.1480	50	0.9275	16825.049	18140.826	18140.8	0.0	16825.0	0.0
171	25.4463	81.3371	32.1784	50	0.9231	19783.047	21431.824	21431.8	0.0	19783.0	0.0
172	25.4463	77.2331	28.7291	50	0.9149	18131.231	19816.783	19816.8	0.0	18131.2	0.0
173	25.4463	73.1291	21.8877	50	0.8976	1158.354	1290.474	1290.5	0.0	1158.4	0.0
174	25.4463	69.0250	17.9191	50	0.9072	384.179	423.475	423.5	0.0	384.2	0.0
175	25.4463	64.9210	14.8681	50	0.8667	965.021	1113.500	1113.5	0.0	965.0	0.0
176	25.4463	60.8170	18.9721	52	0.5466	24348.469	44545.356	44545.4	0.0	24348.5	0.0
177	25.4463	56.7130									
178	25.4463	52.6089									
179	25.4463	48.5049									
180	25.4463	44.4009	9.9901	88	0.2414	5837.178	24178.008	24178.0	0.0	5837.2	0.0
181	20.8349	101.8572	49.2952	50	0.9194	2591.324	2818.376	2818.4	0.0	2591.3	0.0
182	20.8349	97.7532	45.1911	50	0.9285	229.335	246.986	247.0	0.0	229.3	0.0
183	20.8349	93.6492	44.4905	50	0.9311	23035.806	24740.523	24740.5	0.0	23035.8	0.0
184	20.8349	89.5452	41.5209	50	0.9378	28190.685	30060.288	30060.3	0.0	28190.7	0.0
185	20.8349	85.4411	38.5513	50	0.9350	32433.644	34687.995	34688.0	0.0	32433.6	0.0
186	20.8349	81.3371	34.4473	50	0.9278	23916.294	25776.633	25776.6	0.0	23916.3	0.0
187	20.8349	77.2331	27.7225	50	0.9025	1861.061	2062.136	2062.1	0.0	1861.1	0.0
188	20.8349	73.1291	23.4906	50	0.9208	247.520	268.812	268.8	0.0	247.5	0.0
189	20.8349	69.0250	19.7079	50	0.9257	56.741	61.297	61.3	0.0	56.7	0.0
190	20.8349	64.9210	16.0413	50	0.9260	27.534	29.733	29.7	0.0	27.5	0.0
191	20.8349	60.8170	18.9721	52	0.4380	15408.380	35175.506	35175.5	0.0	15408.4	0.0
192	20.8349	56.7130									
193	20.8349	52.6089									
194	20.8349	48.5049									
195	20.8349	44.4009									
196	16.2234	101.8572	53.8330	50	0.9354	29428.259	31459.248	31459.2	0.0	29428.3	0.0
197	16.2234	97.7532	50.8634	50	0.9450	36967.651	39117.591	39117.6	0.0	36967.7	0.0
198	16.2234	93.6492	47.8939	50	0.9468	43816.570	46276.833	46276.8	0.0	43816.6	0.0
199	16.2234	89.5452	43.7898	50	0.9465	33953.520	35872.910	35872.9	0.0	33953.5	0.0
200	16.2234	85.4411	36.2824	50	0.9311	0.440	0.472	0.5	0.0	0.4	0.0
201	16.2234	81.3371	33.3129	50	0.9123	1727.425	1893.501	1893.5	0.0	1727.4	0.0
202	16.2234	77.2331	29.7358	50	0.9081	1656.292	1823.870	1823.9	0.0	1656.3	0.0
203	16.2234	73.1291	25.8950	50	0.9120	832.571	912.944	912.9	0.0	832.6	0.0
204	16.2234	69.0250	22.0929	50	0.9156	379.200	414.174	414.2	0.0	379.2	0.0
205	16.2234	64.9210	18.3876	50	0.9158	213.416	233.035	233.0	0.0	213.4	0.0
206	16.2234	60.8170	18.9721	53	0.2412	6892.884	28581.417	28581.4	0.0	6892.9	0.0
207	16.2234	56.7130									
208	16.2234	52.6089									
209	16.2234	48.5049									
210	16.2234	44.4009									
211	11.6119	101.8572	56.1019	50	0.9338	36160.210	38722.625	38722.6	0.0	36160.2	0.0
212	11.6119	97.7532	49.7290	50	0.9236	1461.668	1582.548	1582.5	0.0	1461.7	0.0
213	11.6119	93.6492	46.7594	50	0.9098	5758.465	6329.511	6329.5	0.0	5758.5	0.0
214	11.6119	89.5452	42.6554	50	0.9179	2143.827	2335.614	2335.6	0.0	2143.8	0.0
215	11.6119	85.4411	38.5513	50	0.9278	204.166	220.052	220.1	0.0	204.2	0.0
216	11.6119	81.3371	35.5818	50	0.9099	2510.391	2758.875	2758.9	0.0	2510.4	0.0
217	11.6119	77.2331	31.7491	50	0.9131	1405.210	1539.011	1539.0	0.0	1405.2	0.0
218	11.6119	73.1291	27.4979	50	0.9312	0.122	0.131	0.1	0.0	0.1	0.0
219	11.6119	69.0250	23.8817	50	0.9303	7.129	7.664	7.7	0.0	7.1	0.0
220	11.6119	64.9210	20.3429	50	0.9255	65.907	71.215	71.2	0.0	65.9	0.0
221	11.6119	60.8170									
222	11.6119	56.7130									
223	11.6119	52.6089									
224	11.6119	48.5049									
225	11.6119	44.4009									

Ungünstigster Gleitkreis

Nr	xm	ym	Radius	Lamellen	μ	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]
198	16.2234	93.6492	47.8939	50	0.9468	43816.570	46276.833	46276.8	0.0	43816.6	0.0



Böschungsberechnung nach EC 7
mit Kreisgleitflächen

Profil C

letzte Version_Bishop

Parameterliste

φ [°] = Reibungswinkel

c [kN/m²] = Kohäsion

γ [kN/m³] = Wichte

μ [-] = Ausnutzungsgrad

x_m, y_m [m] = x,y-Wert des Gleitkreismittelpunktes

rad [m] = Radius des Gleitkreises

Teilsicherheiten: (GEO-3)

- gam(phi)= 1.00

- gam(c') = 1.00

- gam(cu) = 1.00

- gam(Wichten) = 1.00

- gam(Ständige Einw.) = 1.00

- gam(Veränderliche Einw.) = 1.00

Bewegungsrichtung des Gleitkörpers nach links

Koordinaten der Geländepunkte

Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	47.700	2	4.690	47.660	3	8.730	47.690	4	15.960	45.310	5	17.600	45.240
6	49.730	62.000	7	53.770	62.000	8	77.680	70.960	9	78.300	70.980	10	81.120	71.230
11	90.790	73.320	12	97.420	74.310	13	100.580	74.530	14	102.960	74.570	15	105.750	74.530
16	112.650	74.450	17	122.980	74.430									

Charakteristische Bodenkennwerte

Boden	φ_k	c _k	γ_k	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	35.00	0.00	22.00	Terrassenkies
2	25.00	0.00	15.00	Kalkschlamm
3	35.00	0.00	16.00	Aufschüttung
4	30.00	0.00	19.00	Pionierdamm
5	26.00	0.00	16.00	Aufsatzdamm
6	35.00	0.00	19.00	Auf-Pop-Damm

Bemessungs-Bodenkennwerte

Boden	φ_d	c _d	γ_d	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	35.00	0.00	22.00	Terrassenkies
2	25.00	0.00	15.00	Kalkschlamm
3	35.00	0.00	16.00	Aufschüttung
4	30.00	0.00	19.00	Pionierdamm
5	26.00	0.00	16.00	Aufsatzdamm
6	35.00	0.00	19.00	Auf-Pop-Damm

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	63.000	62.580	64.460	64.590	6
2	64.460	64.590	68.450	66.120	6
3	68.450	66.120	72.610	68.730	6
4	72.610	68.730	75.210	69.790	6
5	53.770	58.510	56.690	60.080	6
6	56.690	60.080	59.230	60.670	6
7	59.230	60.670	61.980	62.380	6
8	42.110	55.220	46.890	58.450	6
9	52.080	58.430	53.770	58.510	6
10	53.770	58.510	54.980	57.500	5
11	61.980	62.380	63.000	62.580	6
12	75.210	69.790	77.680	70.960	6
13	27.160	45.480	38.500	52.430	6
14	17.600	45.240	21.130	45.090	6
15	21.130	45.090	27.160	45.480	6
16	38.500	52.430	42.110	55.220	6
17	46.890	58.450	49.730	59.460	6

18	49.730	59.460	52.080	58.430	6
19	43.264	56.000	53.530	56.000	5
20	53.530	56.000	54.710	55.000	5
21	63.000	62.580	64.460	62.580	3
22	64.460	62.580	67.500	60.000	3
23	77.680	70.960	78.300	70.980	6
24	78.300	70.980	81.120	71.230	6
25	90.790	73.320	97.420	74.310	6
26	97.420	74.310	100.580	74.530	6
27	100.580	74.530	102.960	74.570	6
28	102.960	74.570	105.750	74.530	6
29	105.750	74.530	112.650	74.450	6
30	67.500	60.000	122.980	60.000	3
31	67.500	60.000	70.530	57.500	2
32	54.980	57.500	70.530	57.500	5
33	72.350	40.000	122.980	40.000	2
34	54.980	57.500	57.960	55.000	2
35	54.710	55.000	57.960	55.000	5
36	54.710	55.000	72.350	40.000	2
37	31.280	48.000	62.942	48.000	4
38	0.280	30.000	122.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	-20000.000	2	122.980	-20000.000

Erdbeben

horizontal $k_h = a_h/g = 0.0612$

vertikal $k_v = a_v/g = 0.0202$

Automatische Prüfung Vorzeichen von k_v

k_v (maßgebend) = 0.0202

(a_h = horizontale Erdbebenbeschleunigung in m/s^2)

(a_v = vertikale Erdbebenbeschleunigung in m/s^2)

(g = Erdschwerebeschleunigung = 9,81 m/s^2)

Wasserstand vor der Böschung links [m] = 0.00

Wasserstand vor der Böschung rechts [m] = 0.00

γ Wasser [kN/m^3] = 10.000

Berechnung mit Berücksichtigung des passiven Erddruckkeils

Ergebnisse

Suchbereich

Art Suchradius

Horizontale Tangenten

x / y (Anfang): 45.1720 79.7891

x / y (Ende): 46.4325 34.4107

Anzahl Radien = 40

Nr	xm	ym	Radius	Lamellen	μ	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN^*m/m]	[kN^*m/m]	[kN^*m/m]	[kN^*m/m]	[kN^*m/m]	[kN^*m/m]
1	76.1724	101.8572	47.0262	50	0.4136	113150.468	273579.807	273579.8	0.0	87584.4	25566.0
2	76.1724	97.7532	42.9222	50	0.4137	98813.841	238840.337	238840.3	0.0	77092.0	21721.9
3	76.1724	93.6492	37.6837	50	0.4128	74283.655	179965.583	179965.6	0.0	58494.3	15789.4
4	76.1724	89.5452	34.7142	50	0.4051	70690.457	174489.631	174489.6	0.0	56011.0	14679.5
5	76.1724	85.4411	31.7446	50	0.3997	66991.569	167585.090	167585.1	0.0	53756.5	13235.1
6	76.1724	81.3371	26.5061	50	0.3909	45758.983	117062.995	117063.0	0.0	37147.5	8611.5
7	76.1724	77.2331	6.5827	50	0.4141	2.670	6.446	6.4	0.0	2.1	0.6
8	76.1724	73.1291	25.8950	53	0.3557	64974.362	182652.124	182652.1	0.0	54151.8	10822.5
9	76.1724	69.0250	22.6892	61	0.3332	49734.484	149242.372	149242.4	0.0	42094.8	7639.7
10	76.1724	64.9210	18.7786	66	0.3031	31280.245	103194.838	103194.8	0.0	27216.4	4063.9
11	76.1724	60.8170	18.9721	70	0.2538	33270.910	131078.524	131078.5	0.0	29824.7	3446.2
12	76.1724	56.7130	23.0181	73	0.1850	65557.289	354358.171	354358.2	0.0	59894.0	5663.3
13	76.1724	52.6089	22.4646	82	0.1646	62654.540	380694.998	380695.0	0.0	60631.0	2023.6
14	76.1724	48.5049	Kein Schnitt mit Gelände								
15	76.1724	44.4009	Kein Schnitt mit Gelände								
16	71.5610	101.8572	45.8918	50	0.4482	99027.249	220965.061	220965.1	0.0	78369.7	20657.6
17	71.5610	97.7532	40.6533	50	0.4538	74773.561	164776.950	164776.9	0.0	59806.1	14967.5

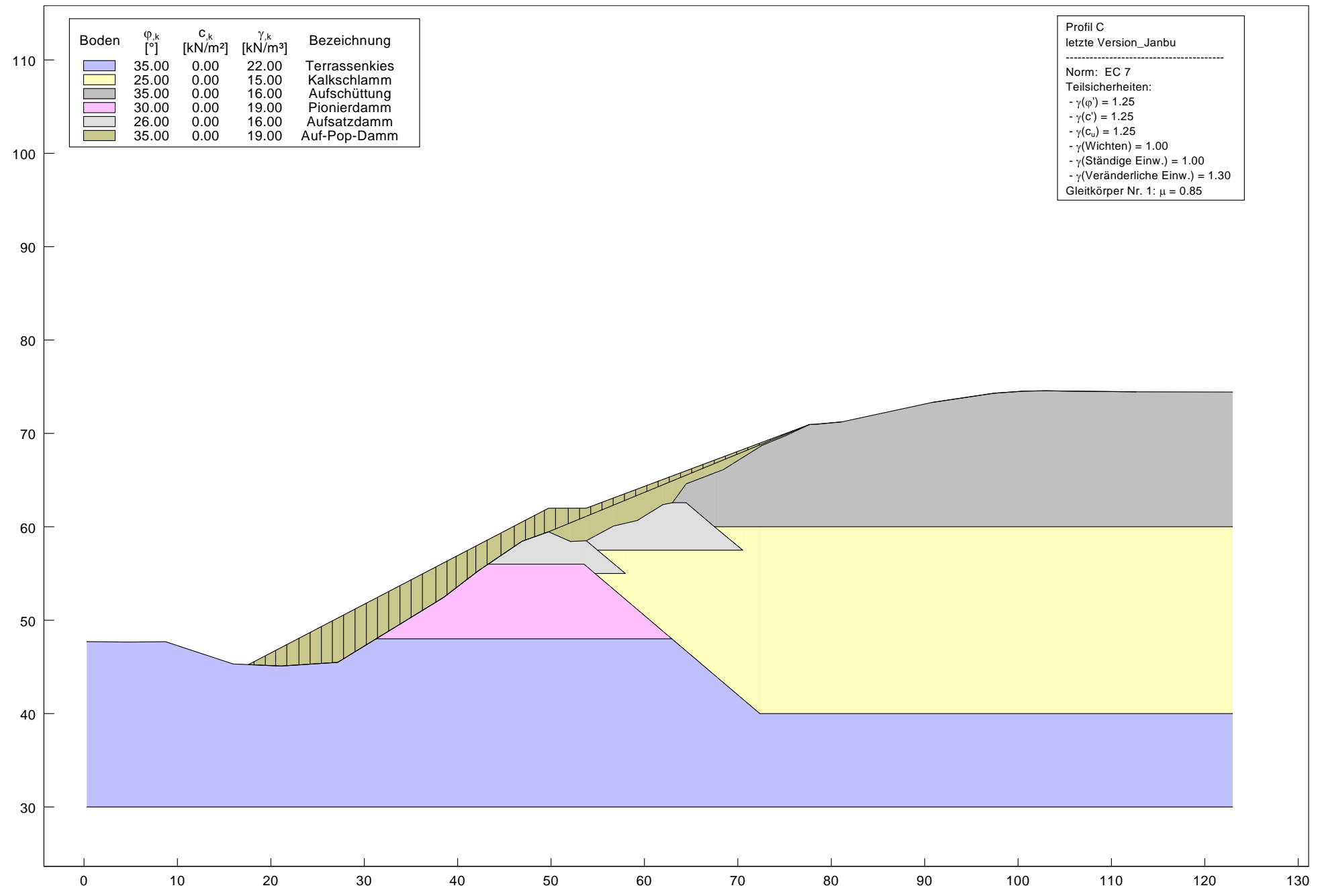
18	71.5610	93.6492	37.6837	50	0.4517	73732.906	163232.761	163232.8	0.0	59290.9	14442.0
19	71.5610	89.5452	19.9662	50	0.4974	116.033	233.299	233.3	0.0	95.1	21.0
20	71.5610	85.4411	15.8622	50	0.5880	36.876	62.714	62.7	0.0	31.2	5.7
21	71.5610	81.3371	12.8926	50	0.5325	465.299	873.758	873.8	0.0	390.8	74.5
22	71.5610	77.2331	8.5960	50	0.5925	137.293	231.701	231.7	0.0	117.4	19.8
23	71.5610	73.1291	6.6600	51	0.4242	601.057	1416.815	1416.8	0.0	511.7	89.3
24	71.5610	69.0250	16.1304	57	0.3500	18375.326	52497.396	52497.4	0.0	15649.9	2725.4
25	71.5610	64.9210	17.2144	65	0.3119	24074.873	77180.280	77180.3	0.0	20860.4	3214.4
26	71.5610	60.8170	18.9721	67	0.2422	35094.272	144879.065	144879.1	0.0	31173.0	3921.3
27	71.5610	56.7130	23.0761	70	0.1884	67625.885	358855.957	358856.0	0.0	60995.8	6630.0
28	71.5610	52.6089	22.4646	80	0.1682	65021.655	386513.960	386514.0	0.0	61718.2	3303.5
29	71.5610	48.5049	Kein Schnitt mit Gelände								
30	71.5610	44.4009	Kein Schnitt mit Gelände								
31	66.9495	101.8572	33.4127	50	0.5108	659.628	1291.337	1291.3	0.0	543.7	115.9
32	66.9495	97.7532	29.3087	50	0.5570	384.046	689.474	689.5	0.0	321.9	62.1
33	66.9495	93.6492	25.2047	50	0.6213	136.854	220.282	220.3	0.0	116.9	20.0
34	66.9495	89.5452	22.2351	50	0.5676	1234.853	2175.610	2175.6	0.0	1044.5	190.3
35	66.9495	85.4411	18.1311	50	0.6019	705.762	1172.482	1172.5	0.0	603.1	102.6
36	66.9495	81.3371	14.0271	50	0.6128	286.982	468.286	468.3	0.0	245.8	41.2
37	66.9495	77.2331	10.6093	50	0.5772	422.358	731.786	731.8	0.0	361.1	61.2
38	66.9495	73.1291	6.6600	50	0.5645	179.285	317.586	317.6	0.0	153.7	25.6
39	66.9495	69.0250	13.1491	55	0.3849	9983.750	25935.666	25935.7	0.0	8557.5	1426.3
40	66.9495	64.9210	14.8681	61	0.3327	15983.556	48048.819	48048.8	0.0	13851.8	2131.8
41	66.9495	60.8170	18.9721	65	0.2370	36150.069	152511.604	152511.6	0.0	31787.1	4362.9
42	66.9495	56.7130	23.0761	68	0.1930	69129.398	358232.131	358232.1	0.0	61650.1	7479.3
43	66.9495	52.6089	22.4646	77	0.1729	67391.477	389667.801	389667.8	0.0	62857.7	4533.8
44	66.9495	48.5049	18.3917	83	0.1465	37008.741	252686.357	252686.4	0.0	39328.2	-2319.5
45	66.9495	44.4009	Kein Schnitt mit Gelände								
46	62.3380	101.8572	34.5472	50	0.6322	314.232	497.080	497.1	0.0	269.1	45.1
47	62.3380	97.7532	31.5776	50	0.5861	2362.166	4030.097	4030.1	0.0	2005.7	356.5
48	62.3380	93.6492	27.4736	50	0.6120	1460.737	2386.643	2386.6	0.0	1249.0	211.7
49	62.3380	89.5452	23.3696	50	0.6227	700.555	1124.969	1125.0	0.0	600.2	100.4
50	62.3380	85.4411	19.2655	50	0.6293	218.939	347.904	347.9	0.0	187.7	31.3
51	62.3380	81.3371	15.1615	50	0.6369	12.637	19.841	19.8	0.0	10.8	1.8
52	62.3380	77.2331	11.6159	50	0.6209	119.153	191.903	191.9	0.0	102.1	17.0
53	62.3380	73.1291	7.4615	50	0.6356	2.946	4.636	4.6	0.0	2.5	0.4
54	62.3380	69.0250	13.1491	54	0.4076	8961.410	21983.431	21983.4	0.0	7608.6	1352.8
55	62.3380	64.9210	14.8681	58	0.3328	16120.343	48434.876	48434.9	0.0	13891.3	2229.0
56	62.3380	60.8170	18.9721	62	0.2376	37217.355	156642.989	156643.0	0.0	32482.4	4735.0
57	62.3380	56.7130	23.0761	65	0.1999	70769.146	353970.003	353970.0	0.0	62525.2	8243.9
58	62.3380	52.6089	22.4646	74	0.1797	69981.477	389431.239	389431.2	0.0	64309.0	5672.5
59	62.3380	48.5049	18.3917	83	0.1536	40050.407	260818.723	260818.7	0.0	40959.0	-908.6
60	62.3380	44.4009	Kein Schnitt mit Gelände								
61	57.7266	101.8572	36.8161	50	0.6183	2482.632	4015.534	4015.5	0.0	2124.1	358.5
62	57.7266	97.7532	32.7121	50	0.6274	1292.175	2059.588	2059.6	0.0	1107.4	184.8
63	57.7266	93.6492	28.6081	50	0.6318	470.285	744.387	744.4	0.0	403.1	67.2
64	57.7266	89.5452	24.5040	50	0.6369	54.032	84.834	84.8	0.0	46.3	7.7
65	57.7266	85.4411	21.5345	50	0.6125	1330.885	2172.952	2173.0	0.0	1140.7	190.1
66	57.7266	81.3371	17.4304	50	0.6150	608.495	989.386	989.4	0.0	521.6	86.9
67	57.7266	77.2331	13.6293	50	0.6066	453.361	747.403	747.4	0.0	388.6	64.8
68	57.7266	73.1291	9.0644	50	0.6373	2.182	3.424	3.4	0.0	1.9	0.3
69	57.7266	69.0250	10.7641	53	0.4337	3759.794	8668.410	8668.4	0.0	3159.1	600.7
70	57.7266	64.9210	14.8681	56	0.3275	15114.272	46149.346	46149.3	0.0	12860.0	2254.3
71	57.7266	60.8170	18.9721	60	0.2447	37927.656	154990.616	154990.6	0.0	32902.5	5025.1
72	57.7266	56.7130	23.0761	63	0.2118	73357.352	346357.103	346357.1	0.0	64470.0	8887.4
73	57.7266	52.6089	22.0155	70	0.1897	68605.188	361733.582	361733.6	0.0	62433.4	6171.8
74	57.7266	48.5049	18.3917	83	0.1630	41470.275	254463.888	254463.9	0.0	41048.6	421.7
75	57.7266	44.4009	Kein Schnitt mit Gelände								
76	53.1151	101.8572	37.9506	50	0.6330	837.298	1322.687	1322.7	0.0	717.7	119.6
77	53.1151	97.7532	33.8465	50	0.6369	143.198	224.834	224.8	0.0	122.7	20.5
78	53.1151	93.6492	30.8770	50	0.6198	2444.133	3943.533	3943.5	0.0	2095.0	349.2
79	53.1151	89.5452	26.7729	50	0.6226	1265.219	2032.214	2032.2	0.0	1084.5	180.8
80	53.1151	85.4411	22.6689	50	0.6264	521.311	832.220	832.2	0.0	446.8	74.5
81	53.1151	81.3371	18.5649	50	0.6320	123.718	195.767	195.8	0.0	106.0	17.7
82	53.1151	77.2331	14.6359	50	0.6335	42.617	67.272	67.3	0.0	36.5	6.1
83	53.1151	73.1291	10.6673	50	0.6384	1.027	1.609	1.6	0.0	0.9	0.1
84	53.1151	69.0250	11.9566	51	0.4694	4226.924	9004.990	9005.0	0.0	3501.7	725.2
85	53.1151	64.9210	14.8681	54	0.3410	14400.868	42226.816	42226.8	0.0	12208.3	2192.5
86	53.1151	60.8170	26.4062	58	0.2525	102797.730	407095.270	407095.3	0.0	88457.6	14340.1
87	53.1151	56.7130	23.0761	61	0.2276	77160.932	339077.891	339077.9	0.0	67755.3	9405.7
88	53.1151	52.6089	22.4646	67	0.2042	76770.321	376022.148	376022.1	0.0	69180.1	7590.2

89	53.1151	48.5049	18.3917	78	0.1774	45509.958	256578.112	256578.1	0.0	43925.9	1584.1
90	53.1151	44.4009	Kein Schnitt mit Gelände								
91	48.5036	101.8572	44.7573	50	0.6395	44557.879	69673.920	69673.9	0.0	37469.7	7088.1
92	48.5036	97.7532	40.6533	50	0.6484	36952.307	56991.904	56991.9	0.0	31131.4	5820.9
93	48.5036	93.6492	36.5493	50	0.6506	29641.856	45561.665	45561.7	0.0	24972.1	4669.7
94	48.5036	89.5452	32.4452	50	0.6521	23116.219	35448.650	35448.7	0.0	19459.8	3656.4
95	48.5036	85.4411	28.3412	50	0.6509	17534.836	26937.431	26937.4	0.0	14750.7	2784.2
96	48.5036	81.3371	24.2372	50	0.6431	12758.160	19837.193	19837.2	0.0	10718.1	2040.0
97	48.5036	77.2331	20.6759	50	0.6277	10657.646	16978.978	16979.0	0.0	8964.0	1693.6
98	48.5036	73.1291	17.0790	50	0.5908	8172.476	13832.581	13832.6	0.0	6875.7	1296.8
99	48.5036	69.0250	12.5528	50	0.5271	3986.455	7562.567	7562.6	0.0	3333.3	653.1
100	48.5036	64.9210	14.8681	53	0.3820	13845.239	36243.112	36243.1	0.0	11808.4	2036.8
101	48.5036	60.8170	18.9721	56	0.2722	38383.922	141000.063	141000.1	0.0	33201.0	5183.0
102	48.5036	56.7130	23.0761	59	0.2493	81438.877	326684.267	326684.3	0.0	71703.6	9735.3
103	48.5036	52.6089	22.4646	64	0.2218	81343.383	366727.104	366727.1	0.0	73011.7	8331.6
104	48.5036	48.5049	18.3917	74	0.1944	49683.697	255618.358	255618.4	0.0	47107.1	2576.6
105	48.5036	44.4009	Kein Schnitt mit Gelände								
106	43.8922	101.8572	44.7573	50	0.6995	30906.454	44182.811	44182.8	0.0	26114.4	4792.0
107	43.8922	97.7532	40.6533	50	0.7041	24839.752	35280.653	35280.7	0.0	20992.5	3847.3
108	43.8922	93.6492	36.5493	50	0.7067	19535.458	27641.447	27641.4	0.0	16509.4	3026.1
109	43.8922	89.5452	33.5797	50	0.7035	22652.265	32198.539	32198.5	0.0	19222.2	3430.1
110	43.8922	85.4411	29.4757	50	0.7006	17347.073	24760.214	24760.2	0.0	14733.4	2613.6
111	43.8922	81.3371	25.3716	50	0.6765	12709.208	18786.879	18786.9	0.0	10796.5	1912.7
112	43.8922	77.2331	21.6825	50	0.6369	10454.055	16414.081	16414.1	0.0	8900.0	1554.0
113	43.8922	73.1291	13.0717	50	0.6888	155.227	225.364	225.4	0.0	135.1	20.1
114	43.8922	69.0250	11.3603	50	0.6894	1588.171	2303.711	2303.7	0.0	1379.5	208.7
115	43.8922	64.9210	14.8681	51	0.4526	13260.907	29298.927	29298.9	0.0	11480.2	1780.7
116	43.8922	60.8170	18.9721	54	0.3062	39087.029	127655.153	127655.2	0.0	34060.4	5026.6
117	43.8922	56.7130	22.3022	57	0.2708	75440.144	278624.033	278624.0	0.0	66566.6	8873.5
118	43.8922	52.6089	19.9946	61	0.2438	62279.960	255489.433	255489.4	0.0	56242.9	6037.1
119	43.8922	48.5049	18.3917	70	0.2133	51297.921	240539.658	240539.7	0.0	47848.9	3449.0
120	43.8922	44.4009	13.7999	90	0.1786	24157.425	135225.884	135225.9	0.0	25381.2	-1223.8
121	39.2807	101.8572	45.8918	50	0.7457	28731.459	38527.658	38527.7	0.0	24443.4	4288.0
122	39.2807	97.7532	42.9222	50	0.7164	34353.873	47955.676	47955.7	0.0	29323.3	5030.6
123	39.2807	93.6492	38.8182	50	0.7220	27634.144	38275.040	38275.0	0.0	23623.8	4010.3
124	39.2807	89.5452	34.7142	50	0.7005	21608.262	30849.031	30849.0	0.0	18496.2	3112.0
125	39.2807	85.4411	29.4757	50	0.6924	9985.388	14420.904	14420.9	0.0	8536.0	1449.4
126	39.2807	81.3371	25.3716	50	0.7153	7296.487	10200.201	10200.2	0.0	6270.3	1026.1
127	39.2807	77.2331	18.6626	50	0.8275	244.634	295.615	295.6	0.0	217.9	26.8
128	39.2807	73.1291	15.4761	50	0.8123	717.600	883.401	883.4	0.0	640.3	77.3
129	39.2807	69.0250	11.3603	50	0.8383	111.623	133.152	133.2	0.0	99.7	11.9
130	39.2807	64.9210	14.8681	51	0.5539	12013.101	21688.079	21688.1	0.0	10581.8	1431.3
131	39.2807	60.8170	18.9721	53	0.3524	39205.993	111265.732	111265.7	0.0	34489.7	4716.3
132	39.2807	56.7130	22.3022	64	0.2938	75684.689	257573.273	257573.3	0.0	66787.4	8897.3
133	39.2807	52.6089	18.1982	67	0.2723	49758.565	182740.291	182740.3	0.0	45068.6	4690.0
134	39.2807	48.5049	14.9537	72	0.2327	30983.656	133130.388	133130.4	0.0	29231.6	1752.1
135	39.2807	44.4009	13.7999	94	0.1959	24073.101	122883.869	122883.9	0.0	24369.7	-296.6
136	34.6693	101.8572	48.1607	50	0.7414	39320.496	53037.900	53037.9	0.0	33768.8	5551.7
137	34.6693	97.7532	44.0567	50	0.7320	31838.531	43493.215	43493.2	0.0	27389.3	4449.2
138	34.6693	93.6492	38.8182	50	0.7299	15448.923	21164.837	21164.8	0.0	13293.8	2155.2
139	34.6693	89.5452	34.7142	50	0.7592	11833.413	15587.471	15587.5	0.0	10230.0	1603.4
140	34.6693	85.4411	28.3412	50	0.7987	999.262	1251.065	1251.1	0.0	886.3	113.0
141	34.6693	81.3371	24.2372	50	0.8574	97.781	114.038	114.0	0.0	87.3	10.5
142	34.6693	77.2331	20.6759	50	0.8532	156.781	183.759	183.8	0.0	140.0	16.8
143	34.6693	73.1291	17.0790	50	0.8491	155.113	182.688	182.7	0.0	138.5	16.6
144	34.6693	69.0250	13.7454	50	0.8260	367.966	445.457	445.5	0.0	328.6	39.3
145	34.6693	64.9210	14.8681	50	0.6772	9299.986	13732.644	13732.6	0.0	8291.6	1008.4
146	34.6693	60.8170	18.9721	52	0.4071	37640.726	92459.431	92459.4	0.0	33380.4	4260.3
147	34.6693	56.7130	22.3022	65	0.3159	73650.322	233167.327	233167.3	0.0	64729.1	8921.2
148	34.6693	52.6089	18.1982	69	0.2908	47485.045	163267.650	163267.6	0.0	42530.0	4955.1
149	34.6693	48.5049	14.0942	77	0.2499	25184.837	100770.254	100770.3	0.0	23331.4	1853.4
150	34.6693	44.4009	12.5299	95	0.2036	16556.334	81315.034	81315.0	0.0	16408.2	148.1
151	30.0578	101.8572	44.7573	50	0.7577	362.211	478.036	478.0	0.0	318.5	43.7
152	30.0578	97.7532	44.0567	50	0.7731	16869.433	21821.331	21821.3	0.0	14641.0	2228.5
153	30.0578	93.6492	39.9526	50	0.8153	13152.174	16132.205	16132.2	0.0	11486.9	1665.3
154	30.0578	89.5452	33.5797	50	0.8606	50.987	59.243	59.2	0.0	45.5	5.5
155	30.0578	85.4411	32.8791	50	0.8430	13661.257	16205.351	16205.4	0.0	12065.4	1595.9
156	30.0578	81.3371	28.7750	50	0.8563	9956.103	11626.598	11626.6	0.0	8860.7	1095.4
157	30.0578	77.2331	22.6892	50	0.8588	48.511	56.486	56.5	0.0	43.3	5.2
158	30.0578	73.1291	19.4834	50	0.8381	571.130	681.472	681.5	0.0	510.1	61.1
159	30.0578	69.0250	15.5341	50	0.8500	104.045	122.401	122.4	0.0	92.9	11.1

160	30.0578	64.9210	16.0413	50	0.7282	8527.400	11709.731	11709.7	0.0	7615.7	911.7
161	30.0578	60.8170	18.9721	51	0.4623	33527.698	72529.060	72529.1	0.0	29836.1	3691.6
162	30.0578	56.7130	nicht berechnet								
163	30.0578	52.6089	nicht berechnet								
164	30.0578	48.5049	14.0942	78	0.2595	22303.948	85954.752	85954.8	0.0	20027.5	2276.4
165	30.0578	44.4009	10.6251	95	0.2060	9144.252	44388.810	44388.8	0.0	8883.6	260.7
166	25.4463	101.8572	47.0262	50	0.8235	1496.405	1817.059	1817.1	0.0	1330.6	165.8
167	25.4463	97.7532	45.1911	50	0.8316	13721.880	16501.280	16501.3	0.0	12099.0	1622.9
168	25.4463	93.6492	42.2216	50	0.8493	19118.409	22510.479	22510.5	0.0	16882.9	2235.5
169	25.4463	89.5452	38.1175	50	0.8592	14464.768	16834.715	16834.7	0.0	12859.4	1605.4
170	25.4463	85.4411	35.1480	50	0.8560	18520.968	21637.235	21637.2	0.0	16485.2	2035.8
171	25.4463	81.3371	32.1784	50	0.8498	21747.725	25592.368	25592.4	0.0	19383.4	2364.3
172	25.4463	77.2331	28.7291	50	0.8404	19900.280	23678.365	23678.4	0.0	17765.0	2135.3
173	25.4463	73.1291	21.8877	50	0.8296	1270.856	1531.854	1531.9	0.0	1135.0	135.9
174	25.4463	69.0250	17.9191	50	0.8389	421.491	502.423	502.4	0.0	376.4	45.1
175	25.4463	64.9210	14.8681	50	0.7997	1058.744	1323.955	1324.0	0.0	945.5	113.2
176	25.4463	60.8170	18.9721	54	0.4995	26919.628	53887.854	53887.9	0.0	23848.8	3070.8
177	25.4463	56.7130	nicht berechnet								
178	25.4463	52.6089	Kein Schnitt mit Gelände								
179	25.4463	48.5049	Kein Schnitt mit Gelände								
180	25.4463	44.4009	Kein Schnitt mit Gelände								
181	20.8349	101.8572	51.5641	50	0.8552	24831.883	29036.172	29036.2	0.0	21933.3	2898.6
182	20.8349	97.7532	45.1911	50	0.8597	251.609	292.684	292.7	0.0	224.7	26.9
183	20.8349	93.6492	44.4905	50	0.8609	25381.010	29481.426	29481.4	0.0	22570.5	2810.5
184	20.8349	89.5452	41.5209	50	0.8654	31027.903	35854.595	35854.6	0.0	27621.2	3406.7
185	20.8349	85.4411	38.5513	50	0.8610	35656.221	41412.900	41412.9	0.0	31778.5	3877.7
186	20.8349	81.3371	34.4473	50	0.8531	26242.589	30761.688	30761.7	0.0	23433.2	2809.4
187	20.8349	77.2331	27.7225	50	0.8343	2041.812	2447.207	2447.2	0.0	1823.5	218.3
188	20.8349	73.1291	23.4906	50	0.8521	271.560	318.686	318.7	0.0	242.5	29.0
189	20.8349	69.0250	19.7079	50	0.8569	62.252	72.650	72.7	0.0	55.6	6.7
190	20.8349	64.9210	16.0413	50	0.8572	30.208	35.239	35.2	0.0	27.0	3.2
191	20.8349	60.8170	18.9721	54	0.4215	17955.521	42597.872	42597.9	0.0	15316.9	2638.6
192	20.8349	56.7130	Kein Schnitt mit Gelände								
193	20.8349	52.6089	Kein Schnitt mit Gelände								
194	20.8349	48.5049	Kein Schnitt mit Gelände								
195	20.8349	44.4009	Kein Schnitt mit Gelände								
196	16.2234	101.8572	53.8330	50	0.8660	32442.277	37463.135	37463.1	0.0	28833.8	3608.5
197	16.2234	97.7532	50.8634	50	0.8733	40722.264	46630.508	46630.5	0.0	36220.9	4501.4
198	16.2234	93.6492	47.8939	50	0.8736	48219.773	55196.764	55196.8	0.0	42931.5	5288.3
199	16.2234	89.5452	43.7898	50	0.8716	37263.946	42754.418	42754.4	0.0	33267.7	3996.3
200	16.2234	85.4411	36.2824	50	0.8622	0.482	0.560	0.6	0.0	0.4	0.1
201	16.2234	81.3371	33.3129	50	0.8439	1895.197	2245.875	2245.9	0.0	1692.5	202.7
202	16.2234	77.2331	29.7358	50	0.8398	1817.156	2163.782	2163.8	0.0	1622.8	194.3
203	16.2234	73.1291	25.8950	50	0.8435	913.433	1082.859	1082.9	0.0	815.8	97.7
204	16.2234	69.0250	22.0929	50	0.8470	416.029	491.161	491.2	0.0	371.5	44.5
205	16.2234	64.9210	18.3876	50	0.8473	234.143	276.349	276.3	0.0	209.1	25.0
206	16.2234	60.8170	18.9721	54	0.2641	9178.749	34754.280	34754.3	0.0	6906.7	2272.0
207	16.2234	56.7130	Kein Schnitt mit Gelände								
208	16.2234	52.6089	Kein Schnitt mit Gelände								
209	16.2234	48.5049	Kein Schnitt mit Gelände								
210	16.2234	44.4009	Kein Schnitt mit Gelände								
211	11.6119	101.8572	56.1019	50	0.8622	39719.083	46066.732	46066.7	0.0	35429.8	4289.3
212	11.6119	97.7532	49.7290	50	0.8549	1603.630	1875.874	1875.9	0.0	1432.1	171.5
213	11.6119	93.6492	46.7594	50	0.8414	6317.744	7508.448	7508.4	0.0	5642.1	675.6
214	11.6119	89.5452	42.6554	50	0.8493	2352.043	2769.405	2769.4	0.0	2100.5	251.5
215	11.6119	85.4411	38.5513	50	0.8590	223.995	260.777	260.8	0.0	200.0	24.0
216	11.6119	81.3371	35.5818	50	0.8416	2754.207	3272.717	3272.7	0.0	2459.7	294.5
217	11.6119	77.2331	31.7491	50	0.8446	1541.688	1825.338	1825.3	0.0	1376.8	164.9
218	11.6119	73.1291	27.4979	50	0.8622	0.134	0.155	0.2	0.0	0.1	0.0
219	11.6119	69.0250	23.8817	50	0.8613	7.822	9.081	9.1	0.0	7.0	0.8
220	11.6119	64.9210	20.3429	50	0.8567	72.308	84.406	84.4	0.0	64.6	7.7
221	11.6119	60.8170	Kein Schnitt mit Gelände								
222	11.6119	56.7130	Kein Schnitt mit Gelände								
223	11.6119	52.6089	Kein Schnitt mit Gelände								
224	11.6119	48.5049	Kein Schnitt mit Gelände								
225	11.6119	44.4009	Kein Schnitt mit Gelände								

Ungünstigster Gleitkreis

Nr	xm	ym	Radius	Lamellen	μ	Zähler	Nenner	M(Ti)	M(R)	M(Gi)	M(S)
[-]	[m]	[m]	[m]	[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]
198	16.2234	93.6492	47.8939	50	0.8736	48219.773	55196.764	55196.8	0.0	42931.5	5288.3



Böschungsberechnung nach EC 7
mit polygonalen Gleitflächen

Profil C

letzte Version_Janbu

Parameterliste

φ [°] = Reibungswinkel

c [kN/m²] = Kohäsion

γ [kN/m³] = Wichte

μ [-] = Ausnutzungsgrad

Teilsicherheiten: (GEO-3)

- gam(phi) = 1.25
- gam(c') = 1.25
- gam(cu) = 1.25
- gam(Wichten) = 1.00
- gam(Ständige Einw.) = 1.00
- gam(Veränderliche Einw.) = 1.30

Bewegungsrichtung des Gleitkörpers nach links

Koordinaten der Geländepunkte

Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	47.700	2	4.690	47.660	3	8.730	47.690	4	15.960	45.310	5	17.600	45.240
6	49.730	62.000	7	53.770	62.000	8	77.680	70.960	9	78.300	70.980	10	81.120	71.230
11	90.790	73.320	12	97.420	74.310	13	100.580	74.530	14	102.960	74.570	15	105.750	74.530
16	112.650	74.450	17	122.980	74.430									

Charakteristische Bodenkennwerte

Boden	φ_k	c_k	γ_k	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	35.00	0.00	22.00	Terrassenkies
2	25.00	0.00	15.00	Kalkschlamm
3	35.00	0.00	16.00	Aufschüttung
4	30.00	0.00	19.00	Pionierdamm
5	26.00	0.00	16.00	Aufsatzdamm
6	35.00	0.00	19.00	Auf-Pop-Damm

Bemessungs-Bodenkennwerte

Boden	φ_d	c_d	γ_d	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	29.26	0.00	22.00	Terrassenkies
2	20.46	0.00	15.00	Kalkschlamm
3	29.26	0.00	16.00	Aufschüttung
4	24.79	0.00	19.00	Pionierdamm
5	21.32	0.00	16.00	Aufsatzdamm
6	29.26	0.00	19.00	Auf-Pop-Damm

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	63.000	62.580	64.460	64.590	6
2	64.460	64.590	68.450	66.120	6
3	68.450	66.120	72.610	68.730	6
4	72.610	68.730	75.210	69.790	6
5	53.770	58.510	56.690	60.080	6
6	56.690	60.080	59.230	60.670	6
7	59.230	60.670	61.980	62.380	6
8	42.110	55.220	46.890	58.450	6
9	52.080	58.430	53.770	58.510	6
10	53.770	58.510	54.980	57.500	5
11	61.980	62.380	63.000	62.580	6
12	75.210	69.790	77.680	70.960	6
13	27.160	45.480	38.500	52.430	6
14	17.600	45.240	21.130	45.090	6
15	21.130	45.090	27.160	45.480	6
16	38.500	52.430	42.110	55.220	6
17	46.890	58.450	49.730	59.460	6
18	49.730	59.460	52.080	58.430	6
19	43.264	56.000	53.530	56.000	5

20	53.530	56.000	54.710	55.000	5
21	63.000	62.580	64.460	62.580	3
22	64.460	62.580	67.500	60.000	3
23	77.680	70.960	78.300	70.980	6
24	78.300	70.980	81.120	71.230	6
25	90.790	73.320	97.420	74.310	6
26	97.420	74.310	100.580	74.530	6
27	100.580	74.530	102.960	74.570	6
28	102.960	74.570	105.750	74.530	6
29	105.750	74.530	112.650	74.450	6
30	67.500	60.000	122.980	60.000	3
31	67.500	60.000	70.530	57.500	2
32	54.980	57.500	70.530	57.500	5
33	72.350	40.000	122.980	40.000	2
34	54.980	57.500	57.960	55.000	2
35	54.710	55.000	57.960	55.000	5
36	54.710	55.000	72.350	40.000	2
37	31.280	48.000	62.942	48.000	4
38	0.280	30.000	122.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	-20000.000	2	122.980	-20000.000

Wasserstand vor der Böschung links [m] = 0.00

Wasserstand vor der Böschung rechts [m] = 0.00

γ Wasser [kN/m³] = 10.000

Ergebnisse

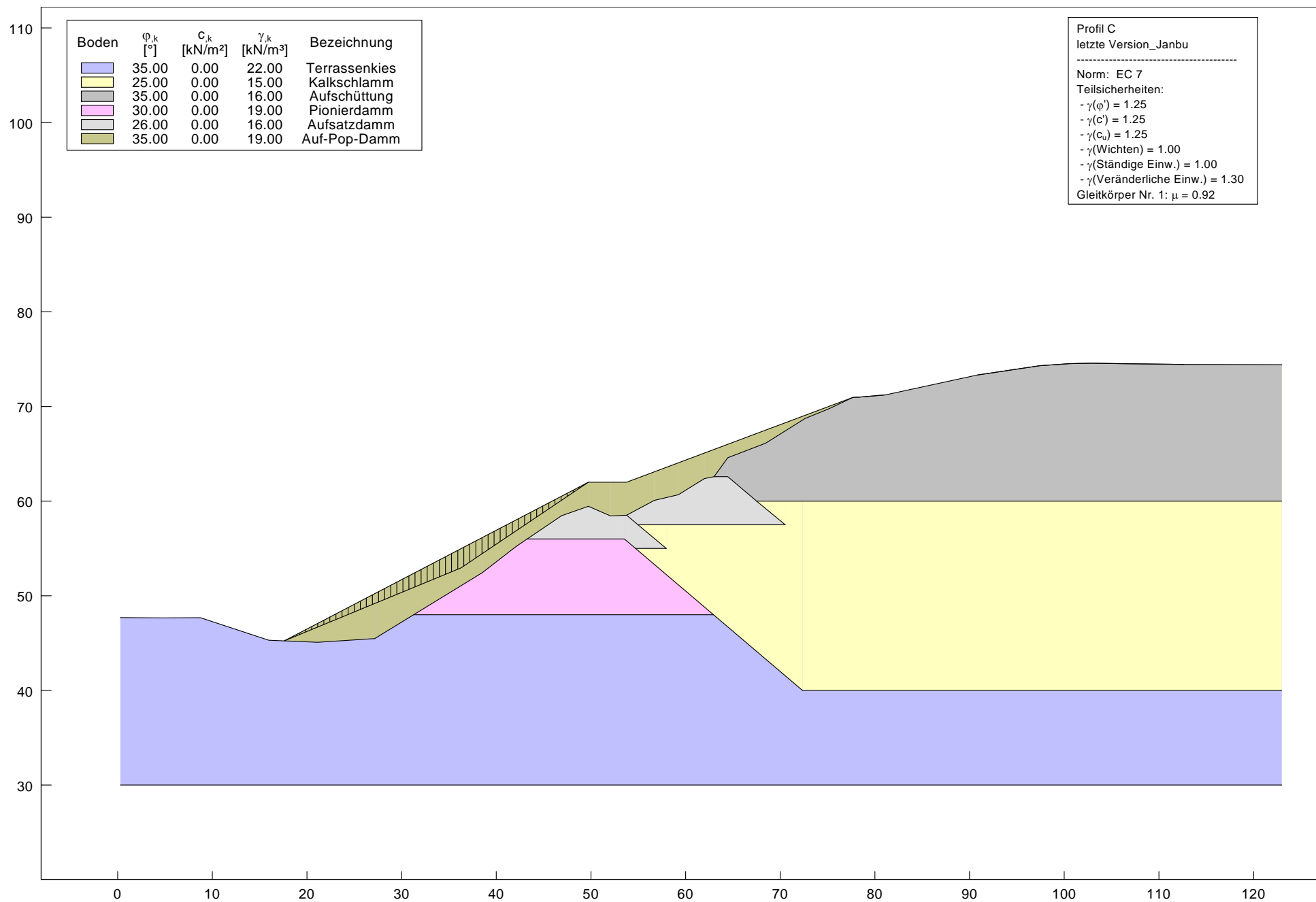
Nr	μ	Zähler	Nenner	H(Ti)	H(R)	H(Gi)	H(S)	Lamellen
[-]	[-]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[-]
1	0.849	1083.838	1277.265	1277.265	0.000	1083.838	0.000	50

Ungünstigster Gleitkörper 1

Nr	μ	Zähler	Nenner	H(Ti)	H(R)	H(Gi)	H(S)	Lamellen
[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[-]
1	0.849	1083.838	1277.265	1277.265	0.000	1083.838	0.000	50

Koordinaten (Gleitkörper 1)

Nr	x[m]	y[m]	Nr	x[m]	y[m]	Nr	x[m]	y[m]	Nr	x[m]	y[m]
1	17.600	45.240	2	21.016	45.082	3	27.160	45.480	4	38.500	52.430
5	42.266	55.320	6	46.890	58.450	7	49.730	59.460	8	77.680	70.960



Böschungsberechnung nach EC 7
mit polygonalen Gleitflächen

Profil C

letzte Version_Janbu

Parameterliste

φ [°] = Reibungswinkel

c [kN/m²] = Kohäsion

γ [kN/m³] = Wichte

μ [-] = Ausnutzungsgrad

Teilsicherheiten: (GEO-3)

- gam(phi) = 1.25
- gam(c') = 1.25
- gam(cu) = 1.25
- gam(Wichten) = 1.00
- gam(Ständige Einw.) = 1.00
- gam(Veränderliche Einw.) = 1.30

Bewegungsrichtung des Gleitkörpers nach links

Koordinaten der Geländepunkte

Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	47.700	2	4.690	47.660	3	8.730	47.690	4	15.960	45.310	5	17.600	45.240
6	49.730	62.000	7	53.770	62.000	8	77.680	70.960	9	78.300	70.980	10	81.120	71.230
11	90.790	73.320	12	97.420	74.310	13	100.580	74.530	14	102.960	74.570	15	105.750	74.530
16	112.650	74.450	17	122.980	74.430									

Charakteristische Bodenkennwerte

Boden	φ_k	c_k	γ_k	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	35.00	0.00	22.00	Terrassenkies
2	25.00	0.00	15.00	Kalkschlamm
3	35.00	0.00	16.00	Aufschüttung
4	30.00	0.00	19.00	Pionierdamm
5	26.00	0.00	16.00	Aufsatzdamm
6	35.00	0.00	19.00	Auf-Pop-Damm

Bemessungs-Bodenkennwerte

Boden	φ_d	c_d	γ_d	Bezeichnung
[-]	[°]	[kN/m ²]	[kN/m ³]	
1	29.26	0.00	22.00	Terrassenkies
2	20.46	0.00	15.00	Kalkschlamm
3	29.26	0.00	16.00	Aufschüttung
4	24.79	0.00	19.00	Pionierdamm
5	21.32	0.00	16.00	Aufsatzdamm
6	29.26	0.00	19.00	Auf-Pop-Damm

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	63.000	62.580	64.460	64.590	6
2	64.460	64.590	68.450	66.120	6
3	68.450	66.120	72.610	68.730	6
4	72.610	68.730	75.210	69.790	6
5	53.770	58.510	56.690	60.080	6
6	56.690	60.080	59.230	60.670	6
7	59.230	60.670	61.980	62.380	6
8	42.110	55.220	46.890	58.450	6
9	52.080	58.430	53.770	58.510	6
10	53.770	58.510	54.980	57.500	5
11	61.980	62.380	63.000	62.580	6
12	75.210	69.790	77.680	70.960	6
13	27.160	45.480	38.500	52.430	6
14	17.600	45.240	21.130	45.090	6
15	21.130	45.090	27.160	45.480	6
16	38.500	52.430	42.110	55.220	6
17	46.890	58.450	49.730	59.460	6
18	49.730	59.460	52.080	58.430	6
19	43.264	56.000	53.530	56.000	5

20	53.530	56.000	54.710	55.000	5
21	63.000	62.580	64.460	62.580	3
22	64.460	62.580	67.500	60.000	3
23	77.680	70.960	78.300	70.980	6
24	78.300	70.980	81.120	71.230	6
25	90.790	73.320	97.420	74.310	6
26	97.420	74.310	100.580	74.530	6
27	100.580	74.530	102.960	74.570	6
28	102.960	74.570	105.750	74.530	6
29	105.750	74.530	112.650	74.450	6
30	67.500	60.000	122.980	60.000	3
31	67.500	60.000	70.530	57.500	2
32	54.980	57.500	70.530	57.500	5
33	72.350	40.000	122.980	40.000	2
34	54.980	57.500	57.960	55.000	2
35	54.710	55.000	57.960	55.000	5
36	54.710	55.000	72.350	40.000	2
37	31.280	48.000	62.942	48.000	4
38	0.280	30.000	122.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	0.280	-20000.000	2	122.980	-20000.000

Wasserstand vor der Böschung links [m] = 0.00

Wasserstand vor der Böschung rechts [m] = 0.00

γ Wasser [kN/m³] = 10.000

Ergebnisse

Nr	μ	Zähler	Nenner	H(Ti)	H(R)	H(Gi)	H(S)	Lamellen
[-]	[-]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[-]
1	0.920	324.133	352.464	352.464	0.000	324.133	0.000	50

Ungünstigster Gleitkörper 1

Nr	μ	Zähler	Nenner	H(Ti)	H(R)	H(Gi)	H(S)	Lamellen
[-]	[-]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[kN*m/m]	[-]
1	0.920	324.133	352.464	352.464	0.000	324.133	0.000	50

Koordinaten (Gleitkörper 1)

Nr	x[m]	y[m]	Nr	x[m]	y[m]	Nr	x[m]	y[m]
1	17.600	45.240	2	36.264	52.940	3	49.730	62.000