

Böschungsberechnung nach EC 7
mit Kreisgleitflächen

Profil B

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	3.770	47.010	2	5.100	47.010	3	7.590	47.100	4	10.280	47.470	5	11.100	47.780
6	12.240	47.260	7	15.240	47.720	8	17.580	47.870	9	19.040	47.190	10	20.060	46.910
11	22.160	46.660	12	58.560	65.250	13	62.560	65.250	14	87.160	73.680	15	103.980	74.020

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	61.560	61.510	66.740	64.540	6
2	66.740	64.540	69.380	65.750	6
3	69.380	65.750	78.800	69.290	6
4	78.800	69.290	80.360	69.600	6
5	55.990	59.170	61.560	61.510	6
6	63.680	62.750	66.220	62.750	3
7	66.220	62.750	69.380	60.000	3
8	39.260	49.860	48.420	56.640	6
9	80.360	69.600	87.160	73.680	6
10	87.160	73.680	103.980	74.020	6
11	69.380	60.000	103.980	60.000	3
12	76.760	40.000	103.980	40.000	2
13	35.560	48.640	37.610	49.570	6
14	23.780	46.480	25.480	46.480	6
15	25.480	46.480	27.690	47.360	6
16	27.690	47.360	28.980	47.380	6
17	28.980	47.380	29.840	47.440	6
18	29.840	47.440	30.890	47.450	6

19	30.890	47.450	32.650	47.490	6
20	32.650	47.490	34.160	48.420	6
21	34.160	48.420	35.560	48.640	6
22	37.610	49.570	39.260	49.860	6
23	48.420	56.640	52.450	59.090	6
24	52.450	59.090	55.990	59.170	6
25	55.990	59.170	57.110	58.250	5
26	69.380	60.000	71.470	58.000	2
27	57.110	58.250	71.470	58.000	5
28	57.110	58.250	61.050	55.000	2
29	59.030	55.000	61.050	55.000	5
30	47.560	56.000	57.260	56.000	5
31	57.260	56.000	59.030	55.000	5
32	59.030	55.000	76.760	40.000	2
33	35.560	48.640	66.547	48.640	4
34	22.160	46.660	23.780	46.480	6
35	3.770	30.000	103.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	3.770	-2000.000	2	103.980	-2000.000

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): 60.1103 77.1558

x / y (Ende): 56.3336 35.9178

Anzahl Radian = 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	86.3224	97.8766	28.9684	50	0.2038	4169.123	20460.700	20460.7	0.0	4169.1	0.0
2	86.3224	94.1641	25.2559	50	0.2066	3477.957	16830.290	16830.3	0.0	3478.0	0.0
3	86.3224	90.4516	20.5125	50	0.2106	1775.695	8431.527	8431.5	0.0	1775.7	0.0
4	86.3224	86.7391	15.7690	50	0.2171	742.352	3418.946	3418.9	0.0	742.4	0.0
5	86.3224	83.0267	11.0256	50	0.2301	212.344	922.876	922.9	0.0	212.3	0.0
6	86.3224	79.3142	6.2822	50	0.2693	20.345	75.554	75.6	0.0	20.3	0.0
7	86.3224	75.6017	2.5073	50	0.3706	5.587	15.077	15.1	0.0	5.6	0.0
8	86.3224	71.8892	17.5485	64	0.2666	16182.813	60689.453	60689.5	0.0	16182.8	0.0
9	86.3224	68.1767	17.7090	72	0.2757	19100.311	69276.239	69276.2	0.0	19100.3	0.0
10	86.3224	64.4643	17.8444	74	0.2668	19928.549	74705.423	74705.4	0.0	19928.5	0.0
11	86.3224	60.7518	17.8793	75	0.2587	19497.037	75357.082	75357.1	0.0	19497.0	0.0
12	86.3224	57.0393	nicht berechnet								
13	86.3224	53.3268	Kein Schnitt mit Gelände								
14	86.3224	49.6144	Kein Schnitt mit Gelände								
15	86.3224	45.9019	Kein Schnitt mit Gelände								
16	81.6043	97.8766	24.8446	50	0.4074	0.228	0.561	0.6	0.0	0.2	0.0
17	81.6043	94.1641	22.1631	50	0.3876	356.217	918.996	919.0	0.0	356.2	0.0
18	81.6043	90.4516	18.4506	50	0.4337	266.703	614.925	614.9	0.0	266.7	0.0
19	81.6043	86.7391	14.7381	50	0.4964	178.693	359.987	360.0	0.0	178.7	0.0
20	81.6043	83.0267	11.0256	50	0.5772	91.615	158.733	158.7	0.0	91.6	0.0
21	81.6043	79.3142	7.3131	50	0.5982	17.533	29.308	29.3	0.0	17.5	0.0
22	81.6043	75.6017	4.4138	50	0.5183	66.270	127.857	127.9	0.0	66.3	0.0
23	81.6043	71.8892	18.3161	58	0.3222	20295.380	62995.190	62995.2	0.0	20295.4	0.0
24	81.6043	68.1767	18.8730	67	0.3098	24471.123	78993.862	78993.9	0.0	24471.1	0.0
25	81.6043	64.4643	20.6190	72	0.2938	33137.075	112769.605	112769.6	0.0	33137.1	0.0
26	81.6043	60.7518	17.6685	72	0.2802	21190.549	75632.684	75632.7	0.0	21190.5	0.0
27	81.6043	57.0393	20.1165	74	0.2031	36218.569	178291.604	178291.6	0.0	36218.6	0.0
28	81.6043	53.3268	17.5695	82	0.1879	23148.991	123198.918	123198.9	0.0	23149.0	0.0
29	81.6043	49.6144	Kein Schnitt mit Gelände								
30	81.6043	45.9019	Kein Schnitt mit Gelände								

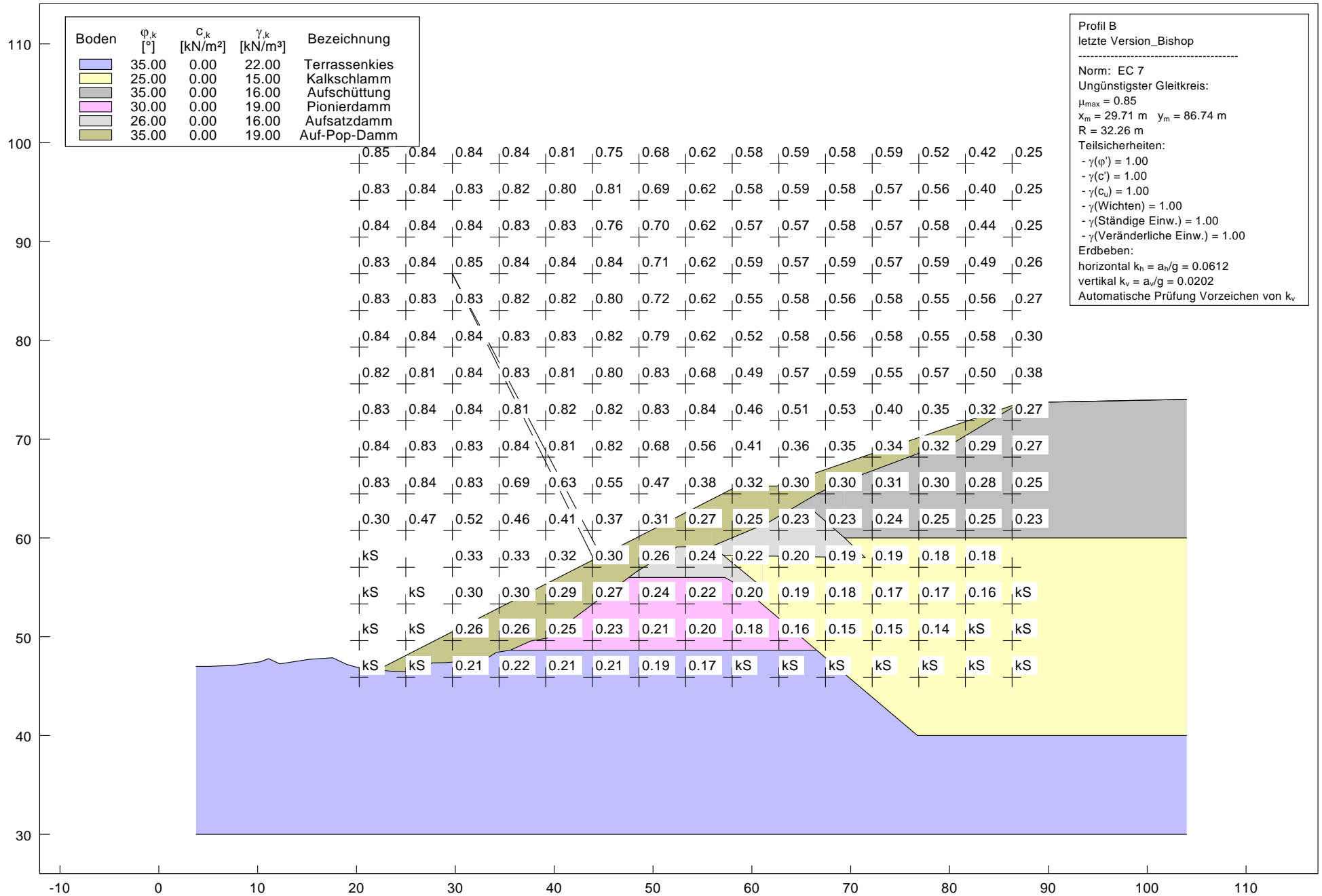
31	76.8862	97.8766	26.9065	50	0.5263	615.800	1170.033	1170.0	0.0	615.8	0.0
32	76.8862	94.1641	23.1940	50	0.5773	385.586	667.856	667.9	0.0	385.6	0.0
33	76.8862	90.4516	19.4815	50	0.6038	150.393	249.083	249.1	0.0	150.4	0.0
34	76.8862	86.7391	15.7690	50	0.6088	17.832	29.289	29.3	0.0	17.8	0.0
35	76.8862	83.0267	13.0875	50	0.5743	456.438	794.768	794.8	0.0	456.4	0.0
36	76.8862	79.3142	9.3750	50	0.5710	190.031	332.803	332.8	0.0	190.0	0.0
37	76.8862	75.6017	5.3671	50	0.5897	14.315	24.273	24.3	0.0	14.3	0.0
38	76.8862	71.8892	14.4780	53	0.3608	11194.413	31022.350	31022.3	0.0	11194.4	0.0
39	76.8862	68.1767	11.8890	62	0.3372	7616.840	22587.342	22587.3	0.0	7616.8	0.0
40	76.8862	64.4643	17.8444	68	0.3176	23713.905	74672.080	74672.1	0.0	23713.9	0.0
41	76.8862	60.7518	16.4040	70	0.2826	19568.846	69250.090	69250.1	0.0	19568.8	0.0
42	76.8862	57.0393	20.1165	71	0.2068	38464.702	186032.421	186032.4	0.0	38464.7	0.0
43	76.8862	53.3268	17.5695	79	0.1903	25584.224	134408.508	134408.5	0.0	25584.2	0.0
44	76.8862	49.6144	19.5806	80	0.1765	37383.160	211818.857	211818.9	0.0	37383.2	0.0
45	76.8862	45.9019	Kein Schnitt mit Gelände								
46	72.1681	97.8766	27.9374	50	0.6081	138.598	227.924	227.9	0.0	138.6	0.0
47	72.1681	94.1641	25.2559	50	0.5900	1468.861	2489.697	2489.7	0.0	1468.9	0.0
48	72.1681	90.4516	21.5434	50	0.5912	834.278	1411.072	1411.1	0.0	834.3	0.0
49	72.1681	86.7391	17.8309	50	0.5930	412.970	696.379	696.4	0.0	413.0	0.0
50	72.1681	83.0267	14.1185	50	0.5958	162.013	271.942	271.9	0.0	162.0	0.0
51	72.1681	79.3142	10.4060	50	0.6005	38.549	64.198	64.2	0.0	38.5	0.0
52	72.1681	75.6017	7.2736	50	0.5680	98.382	173.193	173.2	0.0	98.4	0.0
53	72.1681	71.8892	5.2666	51	0.4159	299.925	721.120	721.1	0.0	299.9	0.0
54	72.1681	68.1767	18.8730	60	0.3576	27242.466	76182.404	76182.4	0.0	27242.5	0.0
55	72.1681	64.4643	15.8625	64	0.3327	18084.365	54359.817	54359.8	0.0	18084.4	0.0
56	72.1681	60.7518	16.4040	67	0.2650	21308.629	80424.531	80424.5	0.0	21308.6	0.0
57	72.1681	57.0393	20.1165	68	0.2096	40286.983	192229.547	192229.5	0.0	40287.0	0.0
58	72.1681	53.3268	23.1870	76	0.1916	65381.115	341220.357	341220.4	0.0	65381.1	0.0
59	72.1681	49.6144	19.5806	80	0.1790	40395.374	225654.612	225654.6	0.0	40395.4	0.0
60	72.1681	45.9019	Kein Schnitt mit Gelände								
61	67.4500	97.8766	29.9993	50	0.5987	1145.031	1912.452	1912.5	0.0	1145.0	0.0
62	67.4500	94.1641	26.2869	50	0.6010	577.462	960.817	960.8	0.0	577.5	0.0
63	67.4500	90.4516	22.5744	50	0.6041	222.063	367.617	367.6	0.0	222.1	0.0
64	67.4500	86.7391	18.8619	50	0.6083	38.619	63.484	63.5	0.0	38.6	0.0
65	67.4500	83.0267	16.1804	50	0.5802	668.397	1151.936	1151.9	0.0	668.4	0.0
66	67.4500	79.3142	12.4679	50	0.5795	316.348	545.890	545.9	0.0	316.3	0.0
67	67.4500	75.6017	8.2268	50	0.6105	0.736	1.206	1.2	0.0	0.7	0.0
68	67.4500	71.8892	5.2666	50	0.5543	55.737	100.551	100.6	0.0	55.7	0.0
69	67.4500	68.1767	15.9630	57	0.3606	15723.970	43604.683	43604.7	0.0	15724.0	0.0
70	67.4500	64.4643	12.6915	60	0.3219	8880.893	27585.262	27585.3	0.0	8880.9	0.0
71	67.4500	60.7518	16.4040	63	0.2480	21513.128	86738.780	86738.8	0.0	21513.1	0.0
72	67.4500	57.0393	20.2421	66	0.2109	41913.878	198694.876	198694.9	0.0	41913.9	0.0
73	67.4500	53.3268	23.1870	73	0.1958	67531.462	344854.158	344854.2	0.0	67531.5	0.0
74	67.4500	49.6144	19.5806	79	0.1805	42499.108	235440.213	235440.2	0.0	42499.1	0.0
75	67.4500	45.9019	Kein Schnitt mit Gelände								
76	62.7319	97.8766	31.0303	50	0.6079	208.033	342.238	342.2	0.0	208.0	0.0
77	62.7319	94.1641	27.3178	50	0.6113	5.006	8.188	8.2	0.0	5.0	0.0
78	62.7319	90.4516	24.6363	50	0.5931	1087.071	1833.015	1833.0	0.0	1087.1	0.0
79	62.7319	86.7391	20.9238	50	0.5949	570.258	958.576	958.6	0.0	570.3	0.0
80	62.7319	83.0267	17.2113	50	0.5976	245.807	411.354	411.4	0.0	245.8	0.0
81	62.7319	79.3142	13.4988	50	0.6017	70.974	117.959	118.0	0.0	71.0	0.0
82	62.7319	75.6017	10.1333	50	0.5906	90.772	153.690	153.7	0.0	90.8	0.0
83	62.7319	71.8892	6.8018	50	0.5267	83.157	157.871	157.9	0.0	83.2	0.0
84	62.7319	68.1767	14.7990	54	0.3601	11446.512	31787.505	31787.5	0.0	11446.5	0.0
85	62.7319	64.4643	13.4843	57	0.3083	10332.173	33518.173	33518.2	0.0	10332.2	0.0
86	62.7319	60.7518	17.6685	61	0.2430	26813.849	110347.362	110347.4	0.0	26813.8	0.0
87	62.7319	57.0393	21.1215	63	0.2163	49112.892	227042.916	227042.9	0.0	49112.9	0.0
88	62.7319	53.3268	23.1870	70	0.2041	69946.770	342789.738	342789.7	0.0	69946.8	0.0
89	62.7319	49.6144	19.5806	77	0.1870	44921.274	240190.141	240190.1	0.0	44921.3	0.0
90	62.7319	45.9019	Kein Schnitt mit Gelände								
91	58.0138	97.8766	41.3398	50	0.5924	58483.808	98725.875	98725.9	0.0	58483.8	0.0
92	58.0138	94.1641	37.6273	50	0.5911	49846.587	84323.789	84323.8	0.0	49846.6	0.0
93	58.0138	90.4516	33.9148	50	0.5900	41272.989	69958.993	69959.0	0.0	41273.0	0.0
94	58.0138	86.7391	21.9547	50	0.6080	70.671	116.241	116.2	0.0	70.7	0.0
95	58.0138	83.0267	26.4899	50	0.5618	25504.470	45397.804	45397.8	0.0	25504.5	0.0
96	58.0138	79.3142	22.7774	50	0.5360	18854.051	35177.176	35177.2	0.0	18854.1	0.0
97	58.0138	75.6017	18.7125	50	0.5039	12082.827	23977.957	23978.0	0.0	12082.8	0.0
98	58.0138	71.8892	15.2456	50	0.4689	8310.186	17723.326	17723.3	0.0	8310.2	0.0
99	58.0138	68.1767	10.7250	51	0.4181	3610.779	8635.197	8635.2	0.0	3610.8	0.0
100	58.0138	64.4643	13.4843	55	0.3307	10359.905	31324.258	31324.3	0.0	10359.9	0.0
101	58.0138	60.7518	16.4040	58	0.2605	22695.426	87128.791	87128.8	0.0	22695.4	0.0

102	58.0138	57.0393	21.1215	61	0.2325	52044.101	223846.757	223846.8	0.0	52044.1	0.0
103	58.0138	53.3268	23.1870	67	0.2186	73567.627	336555.785	336555.8	0.0	73567.6	0.0
104	58.0138	49.6144	19.5806	77	0.2023	48801.118	241288.359	241288.4	0.0	48801.1	0.0
105	58.0138	45.9019	Kein Schnitt mit Gelände								
106	53.2957	97.8766	40.3088	50	0.6387	39575.804	61961.403	61961.4	0.0	39575.8	0.0
107	53.2957	94.1641	37.6273	50	0.6437	41532.121	64518.312	64518.3	0.0	41532.1	0.0
108	53.2957	90.4516	33.9148	50	0.6420	33968.865	52912.119	52912.1	0.0	33968.9	0.0
109	53.2957	86.7391	29.1714	50	0.6446	21083.320	32709.585	32709.6	0.0	21083.3	0.0
110	53.2957	83.0267	24.4280	50	0.6435	12036.234	18703.520	18703.5	0.0	12036.2	0.0
111	53.2957	79.3142	21.7464	50	0.6445	12223.519	18965.295	18965.3	0.0	12223.5	0.0
112	53.2957	75.6017	12.0398	50	0.7173	91.408	127.426	127.4	0.0	91.4	0.0
113	53.2957	71.8892	8.3371	50	0.9084	2.026	2.231	2.2	0.0	2.0	0.0
114	53.2957	68.1767	10.1430	50	0.6014	3018.179	5018.903	5018.9	0.0	3018.2	0.0
115	53.2957	64.4643	12.6915	53	0.3972	9027.804	22727.241	22727.2	0.0	9027.8	0.0
116	53.2957	60.7518	16.4040	56	0.2880	23700.821	82301.369	82301.4	0.0	23700.8	0.0
117	53.2957	57.0393	21.1215	59	0.2569	56142.917	218528.500	218528.5	0.0	56142.9	0.0
118	53.2957	53.3268	23.0265	64	0.2380	77331.945	324908.442	324908.4	0.0	77331.9	0.0
119	53.2957	49.6144	19.5806	73	0.2212	53596.774	242300.318	242300.3	0.0	53596.8	0.0
120	53.2957	45.9019	15.8333	76	0.2053	31336.926	152664.358	152664.4	0.0	31336.9	0.0
121	48.5776	97.8766	41.3398	50	0.7078	38579.517	54508.186	54508.2	0.0	38579.5	0.0
122	48.5776	94.1641	36.5964	50	0.7220	24108.307	33392.345	33392.3	0.0	24108.3	0.0
123	48.5776	90.4516	32.8839	50	0.7341	19635.250	26747.489	26747.5	0.0	19635.3	0.0
124	48.5776	86.7391	30.2023	50	0.7445	21314.016	28628.603	28628.6	0.0	21314.0	0.0
125	48.5776	83.0267	25.4589	50	0.7570	12351.217	16317.025	16317.0	0.0	12351.2	0.0
126	48.5776	79.3142	17.6226	50	0.8459	430.700	509.146	509.1	0.0	430.7	0.0
127	48.5776	75.6017	13.9463	50	0.8995	67.939	75.532	75.5	0.0	67.9	0.0
128	48.5776	71.8892	10.6399	50	0.8957	45.091	50.341	50.3	0.0	45.1	0.0
129	48.5776	68.1767	11.3070	50	0.7469	3763.320	5038.379	5038.4	0.0	3763.3	0.0
130	48.5776	64.4643	12.6915	51	0.5097	9433.231	18507.914	18507.9	0.0	9433.2	0.0
131	48.5776	60.7518	16.4040	54	0.3368	25032.912	74318.031	74318.0	0.0	25032.9	0.0
132	48.5776	57.0393	20.3929	57	0.2839	53052.643	186852.427	186852.4	0.0	53052.6	0.0
133	48.5776	53.3268	19.4955	61	0.2639	53028.193	200952.530	200952.5	0.0	53028.2	0.0
134	48.5776	49.6144	17.1578	69	0.2437	40850.467	167637.980	167638.0	0.0	40850.5	0.0
135	48.5776	45.9019	15.8333	77	0.2266	33625.328	148397.308	148397.3	0.0	33625.3	0.0
136	43.8595	97.8766	41.3398	50	0.7910	27585.716	34874.779	34874.8	0.0	27585.7	0.0
137	43.8595	94.1641	32.4726	50	0.8708	9.718	11.160	11.2	0.0	9.7	0.0
138	43.8595	90.4516	33.9148	50	0.8090	18770.480	23202.500	23202.5	0.0	18770.5	0.0
139	43.8595	86.7391	26.0785	50	0.9017	275.369	305.395	305.4	0.0	275.4	0.0
140	43.8595	83.0267	23.3970	50	0.8674	1432.305	1651.352	1651.4	0.0	1432.3	0.0
141	43.8595	79.3142	19.6845	50	0.8899	454.796	511.081	511.1	0.0	454.8	0.0
142	43.8595	75.6017	16.8060	50	0.8636	921.681	1067.196	1067.2	0.0	921.7	0.0
143	43.8595	71.8892	12.9428	50	0.8876	149.941	168.928	168.9	0.0	149.9	0.0
144	43.8595	68.1767	9.5610	50	0.8863	65.559	73.973	74.0	0.0	65.6	0.0
145	43.8595	64.4643	12.6915	51	0.5989	7764.941	12966.109	12966.1	0.0	7764.9	0.0
146	43.8595	60.7518	16.4040	53	0.3912	25147.862	64277.191	64277.2	0.0	25147.9	0.0
147	43.8595	57.0393	20.1165	55	0.3181	52939.962	166402.902	166402.9	0.0	52940.0	0.0
148	43.8595	53.3268	17.4090	59	0.3000	41447.622	138137.750	138137.7	0.0	41447.6	0.0
149	43.8595	49.6144	15.7733	65	0.2677	33851.788	126475.712	126475.7	0.0	33851.8	0.0
150	43.8595	45.9019	15.8333	77	0.2439	34062.919	139654.051	139654.1	0.0	34062.9	0.0
151	39.1414	97.8766	38.2469	50	0.8686	678.593	781.209	781.2	0.0	678.6	0.0
152	39.1414	94.1641	39.6892	50	0.8483	29156.649	34369.269	34369.3	0.0	29156.6	0.0
153	39.1414	90.4516	31.8529	50	0.8951	1265.244	1413.597	1413.6	0.0	1265.2	0.0
154	39.1414	86.7391	28.1404	50	0.9062	170.531	188.189	188.2	0.0	170.5	0.0
155	39.1414	83.0267	25.4589	50	0.8834	1450.110	1641.480	1641.5	0.0	1450.1	0.0
156	39.1414	79.3142	21.7464	50	0.8954	395.655	441.869	441.9	0.0	395.7	0.0
157	39.1414	75.6017	18.7125	50	0.8798	690.812	785.231	785.2	0.0	690.8	0.0
158	39.1414	71.8892	15.2456	50	0.8820	335.330	380.201	380.2	0.0	335.3	0.0
159	39.1414	68.1767	11.8890	50	0.8775	196.221	223.614	223.6	0.0	196.2	0.0
160	39.1414	64.4643	12.6915	50	0.6942	5309.125	7647.410	7647.4	0.0	5309.1	0.0
161	39.1414	60.7518	16.4040	52	0.4382	22521.941	51392.415	51392.4	0.0	22521.9	0.0
162	39.1414	57.0393	20.1919	59	0.3539	53379.522	150834.932	150834.9	0.0	53379.5	0.0
163	39.1414	53.3268	17.4090	63	0.3162	38830.830	122809.357	122809.4	0.0	38830.8	0.0
164	39.1414	49.6144	15.7733	69	0.2800	31656.127	113056.400	113056.4	0.0	31656.1	0.0
165	39.1414	45.9019	15.8333	82	0.2502	31768.888	126966.185	126966.2	0.0	31768.9	0.0
166	34.4233	97.8766	40.3088	50	0.9055	595.865	658.061	658.1	0.0	595.9	0.0
167	34.4233	94.1641	37.6273	50	0.8900	3148.948	3538.148	3538.1	0.0	3148.9	0.0
168	34.4233	90.4516	33.9148	50	0.8985	1101.188	1225.647	1225.6	0.0	1101.2	0.0
169	34.4233	86.7391	30.2023	50	0.9091	68.647	75.511	75.5	0.0	68.6	0.0
170	34.4233	83.0267	30.6137	50	0.8940	18287.852	20457.064	20457.1	0.0	18287.9	0.0
171	34.4233	79.3142	23.8083	50	0.9000	315.823	350.909	350.9	0.0	315.8	0.0
172	34.4233	75.6017	20.6190	50	0.8931	411.752	461.044	461.0	0.0	411.8	0.0

173	34.4233	71.8892	17.5485	50	0.8779	621.124	707.544	707.5	0.0	621.1	0.0
174	34.4233	68.1767	13.6350	50	0.9083	9.262	10.196	10.2	0.0	9.3	0.0
175	34.4233	64.4643	12.6915	50	0.7511	2378.384	3166.703	3166.7	0.0	2378.4	0.0
176	34.4233	60.7518	16.4040	51	0.4994	19127.758	38301.775	38301.8	0.0	19127.8	0.0
177	34.4233	57.0393	20.1165	58	0.3596	46588.861	129568.270	129568.3	0.0	46588.9	0.0
178	34.4233	53.3268	17.4090	62	0.3223	34554.475	107200.159	107200.2	0.0	34554.5	0.0
179	34.4233	49.6144	13.6966	69	0.2916	19635.129	67345.736	67345.7	0.0	19635.1	0.0
180	34.4233	45.9019	14.7698	80	0.2523	23894.886	94722.521	94722.5	0.0	23894.9	0.0
181	29.7052	97.8766	42.3707	50	0.9076	371.534	409.358	409.4	0.0	371.5	0.0
182	29.7052	94.1641	42.7821	50	0.8952	30528.145	34100.453	34100.5	0.0	30528.1	0.0
183	29.7052	90.4516	39.0696	50	0.9045	23951.061	26478.448	26478.4	0.0	23951.1	0.0
184	29.7052	86.7391	32.2642	50	0.9117	0.360	0.395	0.4	0.0	0.4	0.0
185	29.7052	83.0267	29.5827	50	0.8924	1281.839	1436.362	1436.4	0.0	1281.8	0.0
186	29.7052	79.3142	25.8702	50	0.9039	221.287	244.813	244.8	0.0	221.3	0.0
187	29.7052	75.6017	22.5255	50	0.9043	134.951	149.233	149.2	0.0	135.0	0.0
188	29.7052	71.8892	19.0838	50	0.9095	13.798	15.172	15.2	0.0	13.8	0.0
189	29.7052	68.1767	15.9630	50	0.8984	115.237	128.266	128.3	0.0	115.2	0.0
190	29.7052	64.4643	12.6915	50	0.8926	100.191	112.252	112.3	0.0	100.2	0.0
191	29.7052	60.7518	16.4040	51	0.5669	14866.683	26222.958	26223.0	0.0	14866.7	0.0
192	29.7052	57.0393	20.1165	57	0.3543	40172.697	113387.040	113387.0	0.0	40172.7	0.0
193	29.7052	53.3268	17.4090	61	0.3179	29914.229	94105.416	94105.4	0.0	29914.2	0.0
194	29.7052	49.6144	13.6966	67	0.2860	16614.573	58093.482	58093.5	0.0	16614.6	0.0
195	29.7052	45.9019	11.5793	79	0.2473	10478.605	42376.138	42376.1	0.0	10478.6	0.0
196	24.9871	97.8766	44.4326	50	0.9095	166.612	183.185	183.2	0.0	166.6	0.0
197	24.9871	94.1641	44.8440	50	0.9082	33930.139	37357.815	37357.8	0.0	33930.1	0.0
198	24.9871	90.4516	43.1934	50	0.9123	52459.735	57505.180	57505.2	0.0	52459.7	0.0
199	24.9871	86.7391	39.4809	50	0.9127	41445.946	45409.328	45409.3	0.0	41445.9	0.0
200	24.9871	83.0267	31.6446	50	0.8961	1146.392	1279.360	1279.4	0.0	1146.4	0.0
201	24.9871	79.3142	27.9321	50	0.9072	121.422	133.839	133.8	0.0	121.4	0.0
202	24.9871	75.6017	25.3852	50	0.8798	1722.086	1957.386	1957.4	0.0	1722.1	0.0
203	24.9871	71.8892	21.3866	50	0.9030	147.336	163.164	163.2	0.0	147.3	0.0
204	24.9871	68.1767	18.2910	50	0.8911	334.501	375.378	375.4	0.0	334.5	0.0
205	24.9871	64.4643	14.6734	50	0.9053	30.190	33.349	33.3	0.0	30.2	0.0
206	24.9871	60.7518	16.4040	51	0.4932	8944.397	18136.497	18136.5	0.0	8944.4	0.0
207	24.9871	57.0393	nicht berechnet								
208	24.9871	53.3268	Kein Schnitt mit Gelände								
209	24.9871	49.6144	Kein Schnitt mit Gelände								
210	24.9871	45.9019	Kein Schnitt mit Gelände								
211	20.2690	97.8766	46.4945	50	0.9113	16.967	18.619	18.6	0.0	17.0	0.0
212	20.2690	94.1641	43.8130	50	0.8982	2431.650	2707.125	2707.1	0.0	2431.6	0.0
213	20.2690	90.4516	40.1005	50	0.9062	486.226	536.543	536.5	0.0	486.2	0.0
214	20.2690	86.7391	37.4190	50	0.8907	2951.028	3313.203	3313.2	0.0	2951.0	0.0
215	20.2690	83.0267	33.7065	50	0.8993	981.998	1091.986	1092.0	0.0	982.0	0.0
216	20.2690	79.3142	29.9940	50	0.9101	32.496	35.705	35.7	0.0	32.5	0.0
217	20.2690	75.6017	27.2917	50	0.8898	1214.645	1365.013	1365.0	0.0	1214.6	0.0
218	20.2690	71.8892	23.6895	50	0.8978	402.639	448.465	448.5	0.0	402.6	0.0
219	20.2690	68.1767	20.0370	50	0.9111	2.571	2.822	2.8	0.0	2.6	0.0
220	20.2690	64.4643	17.0516	50	0.8938	219.693	245.797	245.8	0.0	219.7	0.0
221	20.2690	60.7518	19.9868	51	0.2904	14133.798	48675.862	48675.9	0.0	14133.8	0.0
222	20.2690	57.0393	Kein Schnitt mit Gelände								
223	20.2690	53.3268	Kein Schnitt mit Gelände								
224	20.2690	49.6144	Kein Schnitt mit Gelände								
225	20.2690	45.9019	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]
199	24.9871	86.7391	39.4809	50	0.9127	41445.946	45409.328	45409.3	0.0	41445.9	0.0



Böschungsberechnung nach EC 7
mit Kreisgleitflächen

Profil B

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	3.770	47.010	2	5.100	47.010	3	7.590	47.100	4	10.280	47.470	5	11.100	47.780
6	12.240	47.260	7	15.240	47.720	8	17.580	47.870	9	19.040	47.190	10	20.060	46.910
11	22.160	46.660	12	58.560	65.250	13	62.560	65.250	14	87.160	73.680	15	103.980	74.020

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	61.560	61.510	66.740	64.540	6
2	66.740	64.540	69.380	65.750	6
3	69.380	65.750	78.800	69.290	6
4	78.800	69.290	80.360	69.600	6
5	55.990	59.170	61.560	61.510	6
6	63.680	62.750	66.220	62.750	3
7	66.220	62.750	69.380	60.000	3
8	39.260	49.860	48.420	56.640	6
9	80.360	69.600	87.160	73.680	6
10	87.160	73.680	103.980	74.020	6
11	69.380	60.000	103.980	60.000	3
12	76.760	40.000	103.980	40.000	2
13	35.560	48.640	37.610	49.570	6
14	23.780	46.480	25.480	46.480	6
15	25.480	46.480	27.690	47.360	6
16	27.690	47.360	28.980	47.380	6
17	28.980	47.380	29.840	47.440	6
18	29.840	47.440	30.890	47.450	6

19	30.890	47.450	32.650	47.490	6
20	32.650	47.490	34.160	48.420	6
21	34.160	48.420	35.560	48.640	6
22	37.610	49.570	39.260	49.860	6
23	48.420	56.640	52.450	59.090	6
24	52.450	59.090	55.990	59.170	6
25	55.990	59.170	57.110	58.250	5
26	69.380	60.000	71.470	58.000	2
27	57.110	58.250	71.470	58.000	5
28	57.110	58.250	61.050	55.000	2
29	59.030	55.000	61.050	55.000	5
30	47.560	56.000	57.260	56.000	5
31	57.260	56.000	59.030	55.000	5
32	59.030	55.000	76.760	40.000	2
33	35.560	48.640	66.547	48.640	4
34	22.160	46.660	23.780	46.480	6
35	3.770	30.000	103.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	3.770	-2000.000	2	103.980	-2000.000

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): 60.1103 77.1558

x / y (Ende): 56.3336 35.9178

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	86.3224	97.8766	27.9374	50	0.2451	3909.186	15947.020	15947.0	0.0	2594.3	1314.9
2	86.3224	94.1641	24.2250	50	0.2475	3218.489	13005.621	13005.6	0.0	2161.3	1057.2
3	86.3224	90.4516	19.4815	50	0.2515	1415.922	5629.366	5629.4	0.0	952.8	463.2
4	86.3224	86.7391	14.7381	50	0.2580	440.632	1707.726	1707.7	0.0	297.4	143.2
5	86.3224	83.0267	9.9947	50	0.2692	50.219	186.540	186.5	0.0	34.0	16.2
6	86.3224	79.3142	6.2822	50	0.3027	27.757	91.698	91.7	0.0	19.9	7.8
7	86.3224	75.6017	2.5073	50	0.3801	6.935	18.245	18.2	0.0	5.5	1.5
8	86.3224	71.8892	17.5485	66	0.2708	19903.093	73501.684	73501.7	0.0	16196.1	3707.0
9	86.3224	68.1767	17.7090	75	0.2676	22824.232	85307.449	85307.4	0.0	19241.8	3582.4
10	86.3224	64.4643	17.8444	77	0.2497	23605.715	94553.932	94553.9	0.0	20679.3	2926.4
11	86.3224	60.7518	17.8793	77	0.2322	23032.235	99188.967	99189.0	0.0	21462.1	1570.1
12	86.3224	57.0393	nicht berechnet								
13	86.3224	53.3268	Kein Schnitt mit Gelände								
14	86.3224	49.6144	Kein Schnitt mit Gelände								
15	86.3224	45.9019	Kein Schnitt mit Gelände								
16	81.6043	97.8766	24.8446	50	0.4211	0.285	0.677	0.7	0.0	0.2	0.1
17	81.6043	94.1641	22.1631	50	0.4026	447.151	1110.549	1110.5	0.0	349.0	98.1
18	81.6043	90.4516	18.4506	50	0.4405	326.816	741.920	741.9	0.0	261.3	65.5
19	81.6043	86.7391	14.7381	50	0.4922	213.324	433.388	433.4	0.0	175.1	38.2
20	81.6043	83.0267	11.0256	50	0.5594	106.595	190.553	190.6	0.0	89.8	16.8
21	81.6043	79.3142	7.3131	50	0.5778	20.310	35.153	35.2	0.0	17.2	3.1

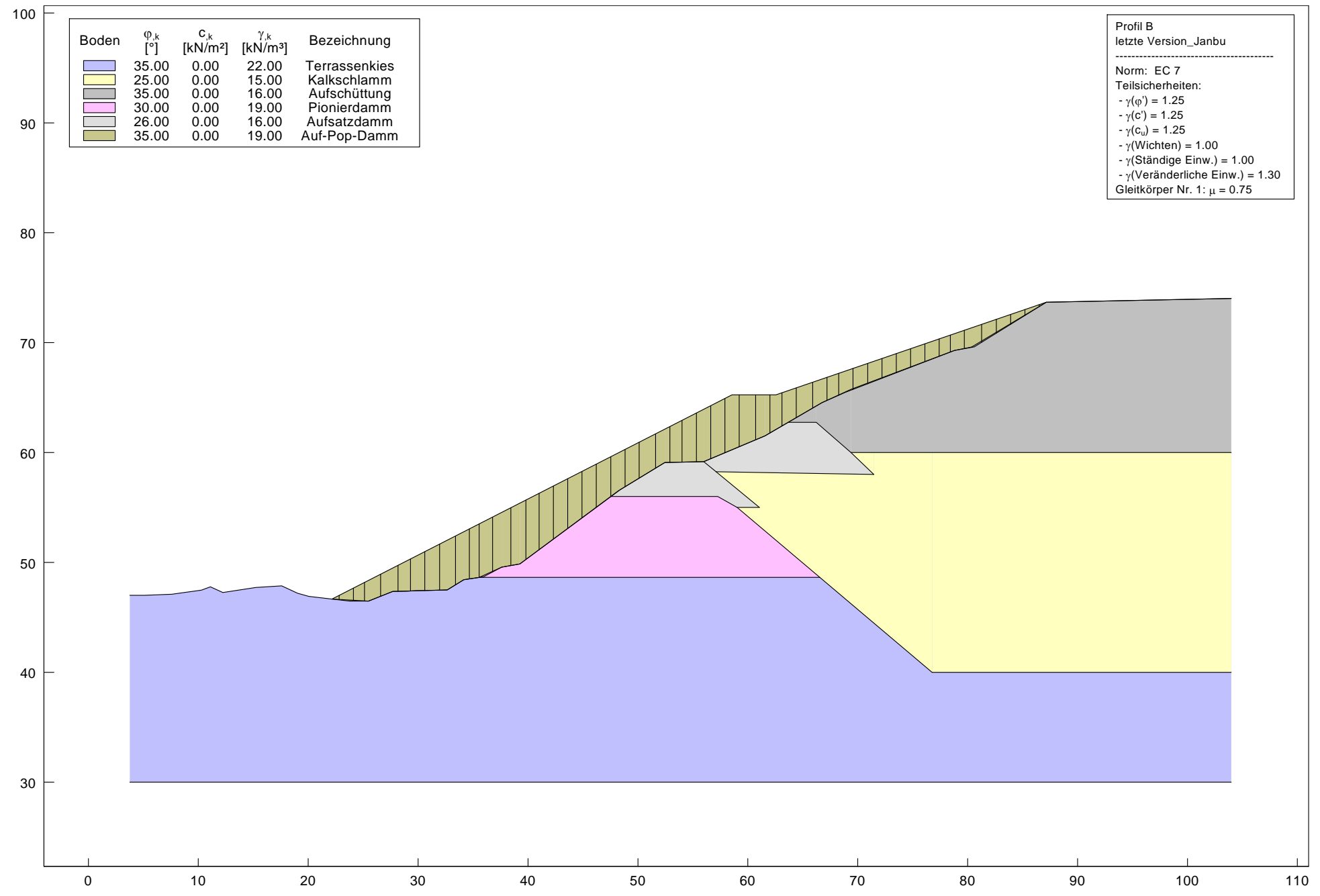
22	81.6043	75.6017	4.4138	50	0.4985	76.765	153.982	154.0	0.0	64.9	11.8
23	81.6043	71.8892	21.3866	59	0.3160	37343.211	118156.597	118156.6	0.0	30836.8	6506.4
24	81.6043	68.1767	13.6350	70	0.2906	12146.732	41802.565	41802.6	0.0	10538.7	1608.0
25	81.6043	64.4643	19.8263	74	0.2772	35015.624	126333.652	126333.7	0.0	30492.2	4523.4
26	81.6043	60.7518	16.8255	74	0.2495	21247.214	85156.654	85156.7	0.0	19848.5	1398.7
27	81.6043	57.0393	20.2421	76	0.1776	41586.954	234114.372	234114.4	0.0	39484.9	2102.1
28	81.6043	53.3268	22.7055	85	0.1589	61385.457	386270.484	386270.5	0.0	59832.8	1552.6
29	81.6043	49.6144	Kein Schnitt mit Gelände								
30	81.6043	45.9019	Kein Schnitt mit Gelände								
31	76.8862	97.8766	26.9065	50	0.5180	728.855	1406.954	1407.0	0.0	603.4	125.5
32	76.8862	94.1641	23.1940	50	0.5607	449.505	801.617	801.6	0.0	377.8	71.7
33	76.8862	90.4516	19.4815	50	0.5833	174.213	298.668	298.7	0.0	147.4	26.9
34	76.8862	86.7391	15.7690	50	0.5883	20.656	35.110	35.1	0.0	17.5	3.2
35	76.8862	83.0267	13.0875	50	0.5539	528.731	954.512	954.5	0.0	447.2	81.5
36	76.8862	79.3142	9.3750	50	0.5506	220.129	399.764	399.8	0.0	186.2	33.9
37	76.8862	75.6017	5.3671	50	0.5693	16.582	29.128	29.1	0.0	14.0	2.6
38	76.8862	71.8892	14.4780	54	0.3509	13121.343	37390.666	37390.7	0.0	11156.9	1964.5
39	76.8862	68.1767	20.6190	65	0.3186	38433.275	120625.683	120625.7	0.0	32642.5	5790.8
40	76.8862	64.4643	17.4480	70	0.2971	25945.979	87322.406	87322.4	0.0	22846.4	3099.5
41	76.8862	60.7518	16.4040	72	0.2501	22291.283	89124.359	89124.4	0.0	20574.2	1717.1
42	76.8862	57.0393	20.2421	74	0.1839	44345.431	241201.160	241201.2	0.0	41436.5	2908.9
43	76.8862	53.3268	23.1870	82	0.1657	69919.567	421851.759	421851.8	0.0	66600.0	3319.6
44	76.8862	49.6144	19.5806	84	0.1440	41938.314	291313.114	291313.1	0.0	45648.0	-3709.7
45	76.8862	45.9019	Kein Schnitt mit Gelände								
46	72.1681	97.8766	27.9374	50	0.5876	160.551	273.232	273.2	0.0	135.8	24.8
47	72.1681	94.1641	25.2559	50	0.5695	1701.510	2987.605	2987.6	0.0	1439.2	262.3
48	72.1681	90.4516	21.5434	50	0.5708	966.417	1693.153	1693.2	0.0	817.4	149.0
49	72.1681	86.7391	17.8309	50	0.5726	478.380	835.507	835.5	0.0	404.6	73.8
50	72.1681	83.0267	14.1185	50	0.5753	187.674	326.224	326.2	0.0	158.7	28.9
51	72.1681	79.3142	10.4060	50	0.5800	44.655	76.992	77.0	0.0	37.8	6.9
52	72.1681	75.6017	7.2736	50	0.5477	113.964	208.072	208.1	0.0	96.4	17.6
53	72.1681	71.8892	5.2666	51	0.4008	349.184	871.249	871.2	0.0	295.5	53.7
54	72.1681	68.1767	17.7090	63	0.3442	25858.224	75134.516	75134.5	0.0	22173.8	3684.4
55	72.1681	64.4643	15.0698	66	0.3091	17499.309	56605.200	56605.2	0.0	15421.4	2077.9
56	72.1681	60.7518	16.4040	69	0.2396	24243.224	101200.672	101200.7	0.0	22063.1	2180.1
57	72.1681	57.0393	20.2421	71	0.1897	46619.362	245689.917	245689.9	0.0	42886.4	3733.0
58	72.1681	53.3268	23.1870	79	0.1721	73707.397	428254.618	428254.6	0.0	69141.8	4565.6
59	72.1681	49.6144	19.5806	83	0.1495	45441.257	304002.899	304002.9	0.0	47600.3	-2159.1
60	72.1681	45.9019	Kein Schnitt mit Gelände								
61	67.4500	97.8766	29.9993	50	0.5782	1326.392	2293.817	2293.8	0.0	1121.9	204.5
62	67.4500	94.1641	26.2869	50	0.5805	668.926	1152.268	1152.3	0.0	565.8	103.1
63	67.4500	90.4516	22.5744	50	0.5836	257.235	440.793	440.8	0.0	217.6	39.7
64	67.4500	86.7391	18.8619	50	0.5878	44.736	76.103	76.1	0.0	37.8	6.9
65	67.4500	83.0267	16.1804	50	0.5598	774.261	1383.035	1383.0	0.0	654.9	119.4
66	67.4500	79.3142	12.4679	50	0.5591	366.452	655.431	655.4	0.0	310.0	56.5
67	67.4500	75.6017	8.2268	50	0.5900	0.853	1.446	1.4	0.0	0.7	0.1
68	67.4500	71.8892	5.2666	50	0.5341	64.565	120.885	120.9	0.0	54.6	10.0
69	67.4500	68.1767	15.9630	58	0.3507	18523.868	52812.270	52812.3	0.0	15815.5	2708.4
70	67.4500	64.4643	13.4843	61	0.3014	12482.104	41418.804	41418.8	0.0	10869.5	1612.6
71	67.4500	60.7518	16.6148	65	0.2303	25709.290	111635.406	111635.4	0.0	22955.7	2753.6
72	67.4500	57.0393	20.2421	68	0.1947	48118.325	247157.926	247157.9	0.0	43570.9	4547.4
73	67.4500	53.3268	23.1870	76	0.1783	76595.461	429558.374	429558.4	0.0	70794.2	5801.3
74	67.4500	49.6144	19.5806	83	0.1544	48235.267	312316.388	312316.4	0.0	48827.8	-592.5
75	67.4500	45.9019	Kein Schnitt mit Gelände								
76	62.7319	97.8766	31.0303	50	0.5874	240.983	410.275	410.3	0.0	203.8	37.2
77	62.7319	94.1641	27.3178	50	0.5908	5.799	9.814	9.8	0.0	4.9	0.9
78	62.7319	90.4516	24.6363	50	0.5726	1259.249	2199.226	2199.2	0.0	1065.1	194.1
79	62.7319	86.7391	20.9238	50	0.5744	660.580	1149.970	1150.0	0.0	558.7	101.8
80	62.7319	83.0267	17.2113	50	0.5771	284.740	493.414	493.4	0.0	240.8	43.9
81	62.7319	79.3142	13.4988	50	0.5812	82.216	141.458	141.5	0.0	69.5	12.7
82	62.7319	75.6017	10.1333	50	0.5702	105.149	184.420	184.4	0.0	88.9	16.2
83	62.7319	71.8892	6.8018	50	0.5125	97.361	189.954	190.0	0.0	81.5	15.9
84	62.7319	68.1767	14.2170	55	0.3557	11988.100	33706.558	33706.6	0.0	10138.6	1849.5
85	62.7319	64.4643	13.4843	58	0.2978	12178.137	40889.080	40889.1	0.0	10477.0	1701.1
86	62.7319	60.7518	23.5695	62	0.2320	74048.522	319232.839	319232.8	0.0	64337.4	9711.1
87	62.7319	57.0393	21.1215	65	0.2025	56686.150	279928.253	279928.3	0.0	50525.3	6160.8
88	62.7319	53.3268	23.1870	72	0.1875	79591.650	424395.926	424395.9	0.0	72598.2	6993.4
89	62.7319	49.6144	19.5806	80	0.1628	49253.864	302537.653	302537.7	0.0	48374.9	878.9
90	62.7319	45.9019	Kein Schnitt mit Gelände								
91	58.0138	97.8766	41.3398	50	0.5780	68561.895	118627.691	118627.7	0.0	57302.4	11259.5
92	58.0138	94.1641	37.6273	50	0.5752	58278.222	101315.805	101315.8	0.0	48839.7	9438.5

93	58.0138	90.4516	33.9148	50	0.5731	48186.374	84084.209	84084.2	0.0	40439.3	7747.1
94	58.0138	86.7391	21.9547	50	0.5875	81.865	139.349	139.3	0.0	69.2	12.6
95	58.0138	83.0267	26.4899	50	0.5455	29803.120	54632.165	54632.2	0.0	24989.3	4813.8
96	58.0138	79.3142	22.7774	50	0.5213	22085.729	42364.684	42364.7	0.0	18493.9	3591.9
97	58.0138	75.6017	18.7125	50	0.4946	14294.093	28899.183	28899.2	0.0	11949.5	2344.6
98	58.0138	71.8892	14.4780	50	0.4641	7992.034	17221.673	17221.7	0.0	6668.6	1323.4
99	58.0138	68.1767	10.1430	52	0.4136	3600.559	8705.423	8705.4	0.0	3008.8	591.7
100	58.0138	64.4643	13.4843	56	0.3189	12150.749	38105.376	38105.4	0.0	10435.7	1715.0
101	58.0138	60.7518	24.8340	60	0.2489	90315.674	362842.913	362842.9	0.0	78507.0	11808.7
102	58.0138	57.0393	21.1215	63	0.2183	59948.543	274588.974	274589.0	0.0	53191.2	6757.3
103	58.0138	53.3268	23.1870	69	0.2019	83689.090	414425.429	414425.4	0.0	75658.4	8030.7
104	58.0138	49.6144	19.5806	80	0.1783	53684.404	301118.598	301118.6	0.0	51520.9	2163.5
105	58.0138	45.9019	Kein Schnitt mit Gelände								
106	53.2957	97.8766	40.3088	50	0.6191	46025.262	74343.430	74343.4	0.0	38776.4	7248.9
107	53.2957	94.1641	37.6273	50	0.6219	48167.644	77446.860	77446.9	0.0	40693.2	7474.5
108	53.2957	90.4516	32.8839	50	0.6200	30825.758	49718.506	49718.5	0.0	25989.4	4836.4
109	53.2957	86.7391	28.1404	50	0.6238	18293.738	29326.360	29326.4	0.0	15386.8	2906.9
110	53.2957	83.0267	24.4280	50	0.6220	14002.184	22510.568	22510.6	0.0	11793.1	2209.1
111	53.2957	79.3142	21.7464	50	0.6192	14151.095	22855.074	22855.1	0.0	11976.6	2174.5
112	53.2957	75.6017	12.0398	50	0.6778	103.174	152.215	152.2	0.0	89.6	13.6
113	53.2957	71.8892	8.3371	50	0.8423	2.228	2.645	2.6	0.0	2.0	0.2
114	53.2957	68.1767	10.1430	51	0.5646	3424.869	6066.398	6066.4	0.0	2973.2	451.6
115	53.2957	64.4643	12.6915	54	0.3776	10374.089	27471.192	27471.2	0.0	9013.7	1360.4
116	53.2957	60.7518	16.4040	57	0.2710	27213.284	100436.406	100436.4	0.0	23926.2	3287.1
117	53.2957	57.0393	21.1215	60	0.2403	64126.598	266807.767	266807.8	0.0	56952.8	7173.8
118	53.2957	53.3268	23.1870	66	0.2186	88271.077	403712.288	403712.3	0.0	79331.5	8939.5
119	53.2957	49.6144	19.5806	76	0.1954	58084.739	297263.996	297264.0	0.0	54794.7	3290.0
120	53.2957	45.9019	15.8333	86	0.1687	33523.812	198770.663	198770.7	0.0	35142.9	-1619.1
121	48.5776	97.8766	41.3398	50	0.6801	44477.453	65402.414	65402.4	0.0	37800.2	6677.2
122	48.5776	94.1641	36.5964	50	0.6935	27800.414	40087.849	40087.8	0.0	23621.3	4179.1
123	48.5776	90.4516	32.8839	50	0.7029	22586.679	32132.515	32132.5	0.0	19238.6	3348.1
124	48.5776	86.7391	30.2023	50	0.7094	24414.046	34417.074	34417.1	0.0	20883.5	3530.6
125	48.5776	83.0267	25.4589	50	0.7184	14093.207	19618.081	19618.1	0.0	12101.7	1991.5
126	48.5776	79.3142	17.6226	50	0.7863	476.059	605.451	605.5	0.0	422.0	54.1
127	48.5776	75.6017	13.9463	50	0.8336	74.708	89.618	89.6	0.0	66.6	8.1
128	48.5776	71.8892	10.6399	50	0.8300	49.583	59.742	59.7	0.0	44.2	5.4
129	48.5776	68.1767	11.3070	50	0.6842	4142.150	6054.403	6054.4	0.0	3687.3	454.8
130	48.5776	64.4643	12.6915	52	0.4710	10534.059	22363.893	22363.9	0.0	9334.4	1199.7
131	48.5776	60.7518	16.4040	55	0.3135	28333.444	90368.502	90368.5	0.0	25087.6	3245.9
132	48.5776	57.0393	20.3929	58	0.2646	60172.296	227419.473	227419.5	0.0	53551.3	6621.0
133	48.5776	53.3268	19.1745	63	0.2403	56389.666	234624.835	234624.8	0.0	51380.4	5009.2
134	48.5776	49.6144	19.5806	71	0.2146	61351.524	285851.349	285851.3	0.0	57086.1	4265.4
135	48.5776	45.9019	15.8333	86	0.1887	36017.552	190888.036	190888.0	0.0	36428.8	-411.2
136	43.8595	97.8766	41.3398	50	0.7533	31510.355	41829.581	41829.6	0.0	27028.5	4481.9
137	43.8595	94.1641	32.4726	50	0.8104	10.740	13.252	13.3	0.0	9.5	1.2
138	43.8595	90.4516	33.9148	50	0.7650	21277.322	27815.050	27815.1	0.0	18391.3	2886.0
139	43.8595	86.7391	26.0785	50	0.8359	302.847	362.297	362.3	0.0	269.8	33.0
140	43.8595	83.0267	23.3970	50	0.8037	1577.273	1962.400	1962.4	0.0	1403.4	173.9
141	43.8595	79.3142	19.6845	50	0.8243	500.108	606.716	606.7	0.0	445.6	54.5
142	43.8595	75.6017	16.8060	50	0.7989	1013.507	1268.690	1268.7	0.0	903.1	110.4
143	43.8595	71.8892	12.9428	50	0.8221	164.879	200.564	200.6	0.0	146.9	18.0
144	43.8595	68.1767	9.5610	50	0.8208	72.091	87.832	87.8	0.0	64.2	7.9
145	43.8595	64.4643	12.6915	51	0.5483	8584.475	15657.715	15657.7	0.0	7631.6	952.8
146	43.8595	60.7518	16.6148	54	0.3651	29620.654	81132.278	81132.3	0.0	26416.8	3203.8
147	43.8595	57.0393	20.1165	59	0.3007	60649.061	201700.232	201700.2	0.0	54251.6	6397.5
148	43.8595	53.3268	17.4090	65	0.2708	45448.966	167836.336	167836.3	0.0	41524.6	3924.3
149	43.8595	49.6144	17.1578	73	0.2350	44902.745	191105.611	191105.6	0.0	41876.7	3026.1
150	43.8595	45.9019	15.8333	88	0.2057	35375.299	171943.104	171943.1	0.0	34685.7	689.6
151	39.1414	97.8766	38.2469	50	0.8078	749.549	927.862	927.9	0.0	664.9	84.7
152	39.1414	94.1641	39.6892	50	0.7963	32803.275	41192.716	41192.7	0.0	28567.7	4235.6
153	39.1414	90.4516	31.8529	50	0.8293	1391.331	1677.631	1677.6	0.0	1239.7	151.6
154	39.1414	86.7391	28.1404	50	0.8401	187.521	223.202	223.2	0.0	167.1	20.4
155	39.1414	83.0267	25.4589	50	0.8180	1594.584	1949.328	1949.3	0.0	1420.8	173.8
156	39.1414	79.3142	21.7464	50	0.8297	435.074	524.394	524.4	0.0	387.7	47.4
157	39.1414	75.6017	18.7125	50	0.8145	759.638	932.681	932.7	0.0	676.9	82.8
158	39.1414	71.8892	15.2456	50	0.8166	368.739	451.540	451.5	0.0	328.6	40.2
159	39.1414	68.1767	11.8890	50	0.8123	215.771	265.636	265.6	0.0	192.3	23.5
160	39.1414	64.4643	12.6915	50	0.6340	5839.647	9210.974	9211.0	0.0	5201.9	637.8
161	39.1414	60.7518	16.6148	52	0.4062	26449.860	65116.805	65116.8	0.0	23538.6	2911.3
162	39.1414	57.0393	20.1165	61	0.3248	58683.054	180696.654	180696.7	0.0	52264.4	6418.7
163	39.1414	53.3268	17.4090	65	0.2865	42729.758	149150.172	149150.2	0.0	38459.9	4269.9

164	39.1414	49.6144	17.1578	72	0.2485	42998.783	173057.523	173057.5	0.0	39259.6	3739.2
165	39.1414	45.9019	15.3015	88	0.2137	30540.127	142941.769	142941.8	0.0	29093.5	1446.6
166	34.4233	97.8766	40.3088	50	0.8395	655.232	780.523	780.5	0.0	583.8	71.4
167	34.4233	94.1641	37.6273	50	0.8244	3462.679	4200.190	4200.2	0.0	3085.3	377.3
168	34.4233	90.4516	33.9148	50	0.8326	1210.900	1454.305	1454.3	0.0	1078.9	132.0
169	34.4233	86.7391	30.2023	50	0.8430	75.486	89.545	89.5	0.0	67.3	8.2
170	34.4233	83.0267	30.6137	50	0.8240	20124.139	24422.950	24422.9	0.0	17918.4	2205.7
171	34.4233	79.3142	23.8083	50	0.8341	347.289	416.339	416.3	0.0	309.4	37.8
172	34.4233	75.6017	20.6190	50	0.8274	452.776	547.219	547.2	0.0	403.4	49.3
173	34.4233	71.8892	17.5485	50	0.8126	683.007	840.493	840.5	0.0	608.6	74.4
174	34.4233	68.1767	13.6350	50	0.8422	10.185	12.092	12.1	0.0	9.1	1.1
175	34.4233	64.4643	12.6915	50	0.6909	2615.304	3785.553	3785.6	0.0	2330.3	285.0
176	34.4233	60.7518	16.4040	51	0.4610	21322.792	46248.552	46248.6	0.0	18949.4	2373.4
177	34.4233	57.0393	20.1165	60	0.3319	52213.698	157297.014	157297.0	0.0	45844.1	6369.6
178	34.4233	53.3268	17.5695	64	0.2996	40169.288	134086.974	134087.0	0.0	35544.7	4624.6
179	34.4233	49.6144	13.6966	72	0.2602	21358.591	82069.694	82069.7	0.0	19292.6	2066.0
180	34.4233	45.9019	13.1746	87	0.2168	18575.777	85679.063	85679.1	0.0	17381.1	1194.7
181	29.7052	97.8766	42.3707	50	0.8415	408.551	485.480	485.5	0.0	364.0	44.5
182	29.7052	94.1641	42.7821	50	0.8288	33703.464	40666.183	40666.2	0.0	29911.5	3792.0
183	29.7052	90.4516	35.9767	50	0.8354	1001.774	1199.108	1199.1	0.0	892.6	109.2
184	29.7052	86.7391	32.2642	50	0.8455	0.396	0.468	0.5	0.0	0.4	0.0
185	29.7052	83.0267	29.5827	50	0.8268	1409.550	1704.900	1704.9	0.0	1255.9	153.6
186	29.7052	79.3142	25.8702	50	0.8379	243.334	290.398	290.4	0.0	216.8	26.5
187	29.7052	75.6017	22.5255	50	0.8383	148.397	177.016	177.0	0.0	132.2	16.2
188	29.7052	71.8892	19.0838	50	0.8434	15.173	17.991	18.0	0.0	13.5	1.7
189	29.7052	68.1767	15.9630	50	0.8326	126.718	152.196	152.2	0.0	112.9	13.8
190	29.7052	64.4643	12.6915	50	0.8269	110.173	133.238	133.2	0.0	98.2	12.0
191	29.7052	60.7518	16.4040	51	0.5196	16430.725	31620.594	31620.6	0.0	14579.5	1851.2
192	29.7052	57.0393	20.1165	59	0.3326	45738.535	137503.470	137503.5	0.0	39525.4	6213.2
193	29.7052	53.3268	17.4090	64	0.2959	33877.386	114488.554	114488.6	0.0	29308.7	4568.6
194	29.7052	49.6144	13.6966	71	0.2607	18532.697	71083.867	71083.9	0.0	16214.5	2318.2
195	29.7052	45.9019	10.5158	85	0.2146	8572.895	39949.990	39950.0	0.0	7836.5	736.4
196	24.9871	97.8766	44.4326	50	0.8434	183.211	217.226	217.2	0.0	163.2	20.0
197	24.9871	94.1641	44.8440	50	0.8384	37327.452	44521.611	44521.6	0.0	33244.8	4082.7
198	24.9871	90.4516	43.1934	50	0.8410	57766.839	68685.795	68685.8	0.0	51400.0	6366.8
199	24.9871	86.7391	39.4809	50	0.8406	45594.956	54241.203	54241.2	0.0	40608.7	4986.2
200	24.9871	83.0267	31.6446	50	0.8303	1260.608	1518.240	1518.2	0.0	1123.2	137.4
201	24.9871	79.3142	27.9321	50	0.8412	133.520	158.731	158.7	0.0	119.0	14.6
202	24.9871	75.6017	25.3852	50	0.8145	1893.657	2324.939	2324.9	0.0	1687.3	206.4
203	24.9871	71.8892	21.3866	50	0.8371	162.015	193.555	193.6	0.0	144.4	17.7
204	24.9871	68.1767	18.2910	50	0.8255	367.828	445.590	445.6	0.0	327.7	40.1
205	24.9871	64.4643	14.6734	50	0.8393	33.198	39.556	39.6	0.0	29.6	3.6
206	24.9871	60.7518	16.4040	51	0.4706	10286.031	21855.062	21855.1	0.0	8886.0	1400.0
207	24.9871	57.0393	nicht berechnet								
208	24.9871	53.3268	Kein Schnitt mit Gelände								
209	24.9871	49.6144	Kein Schnitt mit Gelände								
210	24.9871	45.9019	Kein Schnitt mit Gelände								
211	20.2690	97.8766	46.4945	50	0.8451	18.658	22.077	22.1	0.0	16.6	2.0
212	20.2690	94.1641	43.8130	50	0.8324	2673.918	3212.208	3212.2	0.0	2382.5	291.4
213	20.2690	90.4516	40.1005	50	0.8402	534.669	636.365	636.4	0.0	476.4	58.3
214	20.2690	86.7391	37.4190	50	0.8251	3245.041	3933.006	3933.0	0.0	2891.4	353.6
215	20.2690	83.0267	33.7065	50	0.8334	1079.836	1295.649	1295.6	0.0	962.2	117.7
216	20.2690	79.3142	29.9940	50	0.8440	35.733	42.339	42.3	0.0	31.8	3.9
217	20.2690	75.6017	27.2917	50	0.8243	1335.661	1620.442	1620.4	0.0	1190.1	145.6
218	20.2690	71.8892	23.6895	50	0.8320	442.755	532.150	532.1	0.0	394.5	48.2
219	20.2690	68.1767	20.0370	50	0.8449	2.827	3.346	3.3	0.0	2.5	0.3
220	20.2690	64.4643	17.0516	50	0.8281	241.582	291.729	291.7	0.0	215.3	26.3
221	20.2690	60.7518	17.4578	51	0.3039	7457.666	24542.537	24542.5	0.0	5826.1	1631.6
222	20.2690	57.0393	Kein Schnitt mit Gelände								
223	20.2690	53.3268	Kein Schnitt mit Gelände								
224	20.2690	49.6144	Kein Schnitt mit Gelände								
225	20.2690	45.9019	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]
184	29.7052	86.7391	32.2642	50	0.8455	0.396	0.468	0.5	0.0	0.4	0.0



Böschungsberechnung nach EC 7
mit polygonalen Gleitflächen

Profil B

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	3.770	47.010	2	5.100	47.010	3	7.590	47.100	4	10.280	47.470	5	11.100	47.780
6	12.240	47.260	7	15.240	47.720	8	17.580	47.870	9	19.040	47.190	10	20.060	46.910
11	22.160	46.660	12	58.560	65.250	13	62.560	65.250	14	87.160	73.680	15	103.980	74.020

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	61.560	61.510	66.740	64.540	6
2	66.740	64.540	69.380	65.750	6
3	69.380	65.750	78.800	69.290	6
4	78.800	69.290	80.360	69.600	6
5	55.990	59.170	61.560	61.510	6
6	63.680	62.750	66.220	62.750	3
7	66.220	62.750	69.380	60.000	3
8	39.260	49.860	48.420	56.640	6
9	80.360	69.600	87.160	73.680	6
10	87.160	73.680	103.980	74.020	6
11	69.380	60.000	103.980	60.000	3
12	76.760	40.000	103.980	40.000	2
13	35.560	48.640	37.610	49.570	6
14	23.780	46.480	25.480	46.480	6
15	25.480	46.480	27.690	47.360	6
16	27.690	47.360	28.980	47.380	6
17	28.980	47.380	29.840	47.440	6
18	29.840	47.440	30.890	47.450	6
19	30.890	47.450	32.650	47.490	6
20	32.650	47.490	34.160	48.420	6

21	34.160	48.420	35.560	48.640	6
22	37.610	49.570	39.260	49.860	6
23	48.420	56.640	52.450	59.090	6
24	52.450	59.090	55.990	59.170	6
25	55.990	59.170	57.110	58.250	5
26	69.380	60.000	71.470	58.000	2
27	57.110	58.250	71.470	58.000	5
28	57.110	58.250	61.050	55.000	2
29	59.030	55.000	61.050	55.000	5
30	47.560	56.000	57.260	56.000	5
31	57.260	56.000	59.030	55.000	5
32	59.030	55.000	76.760	40.000	2
33	35.560	48.640	66.547	48.640	4
34	22.160	46.660	23.780	46.480	6
35	3.770	30.000	103.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	3.770	-2000.000	2	103.980	-2000.000

Wasserstand vor der Böschung links [m] = 0.00

Wasserstand vor der Böschung rechts [m] = 0.00

γ Wasser [kN/m³] = 10.000

Ergebnisse

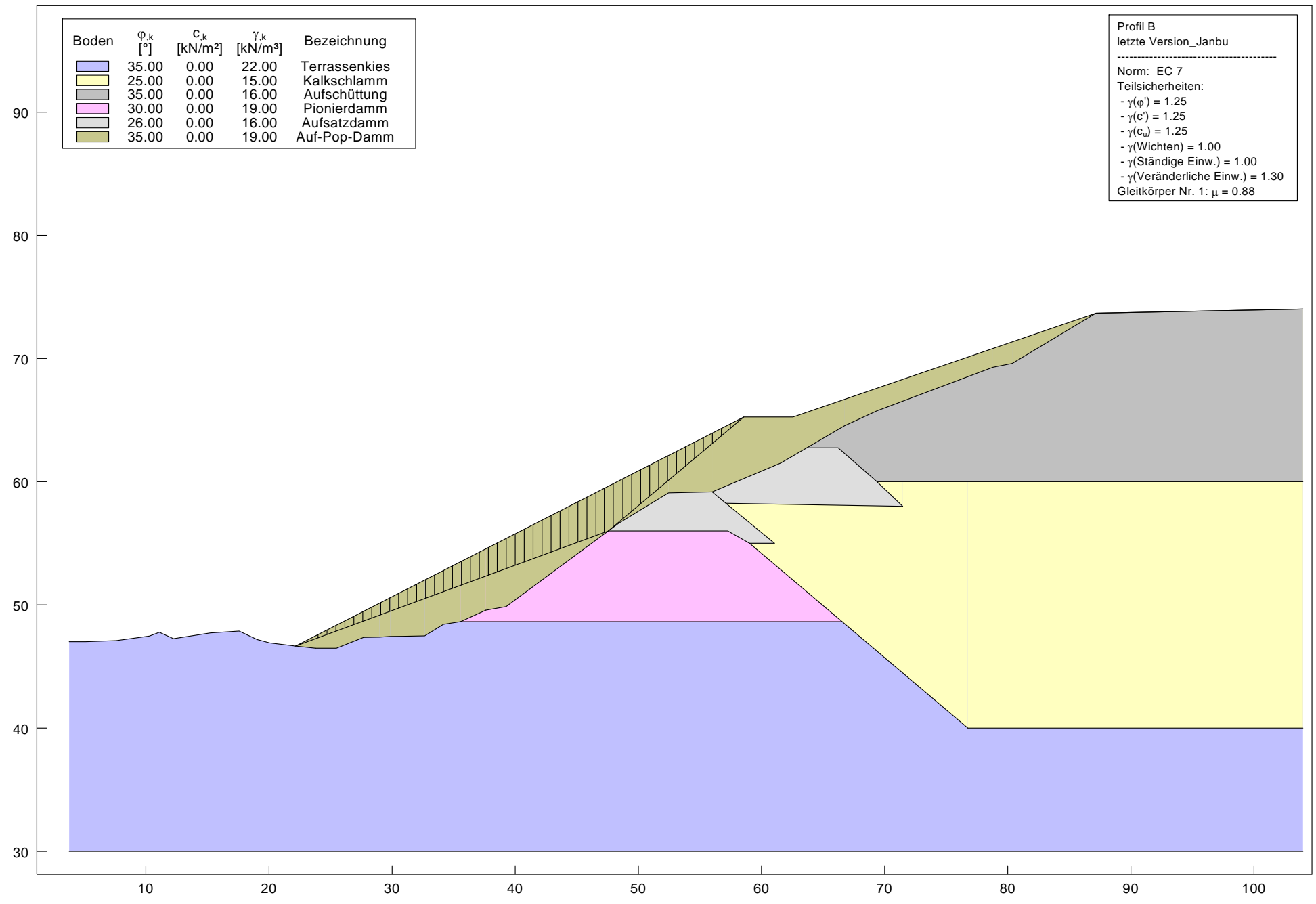
Nr	μ	Zähler	Nenner	H(Ti)	H(R)	H(Gi)	H(S)	Lamellen
[-]	[-]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[kN/m]	[-]
1	0.751	1594.125	2122.989	2122.989	0.000	1594.125	0.000	50

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	0.751	1594.125	2122.989	2122.989	0.000	1594.125	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	22.160	46.660	2	25.480	46.480	3	27.690	47.360	4	32.650	47.490
5	34.160	48.420	6	35.947	48.685	7	37.610	49.570	8	39.260	49.860
9	48.198	56.494	10	52.450	59.090	11	55.990	59.170	12	61.560	61.510
13	66.740	64.540	14	68.868	65.475	15	78.800	69.290	16	80.593	69.605
17	87.160	73.680									



Böschungsberechnung nach EC 7
mit polygonalen Gleitflächen

Profil B

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	3.770	47.010	2	5.100	47.010	3	7.590	47.100	4	10.280	47.470	5	11.100	47.780
6	12.240	47.260	7	15.240	47.720	8	17.580	47.870	9	19.040	47.190	10	20.060	46.910
11	22.160	46.660	12	58.560	65.250	13	62.560	65.250	14	87.160	73.680	15	103.980	74.020

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	61.560	61.510	66.740	64.540	6
2	66.740	64.540	69.380	65.750	6
3	69.380	65.750	78.800	69.290	6
4	78.800	69.290	80.360	69.600	6
5	55.990	59.170	61.560	61.510	6
6	63.680	62.750	66.220	62.750	3
7	66.220	62.750	69.380	60.000	3
8	39.260	49.860	48.420	56.640	6
9	80.360	69.600	87.160	73.680	6
10	87.160	73.680	103.980	74.020	6
11	69.380	60.000	103.980	60.000	3
12	76.760	40.000	103.980	40.000	2
13	35.560	48.640	37.610	49.570	6
14	23.780	46.480	25.480	46.480	6
15	25.480	46.480	27.690	47.360	6
16	27.690	47.360	28.980	47.380	6
17	28.980	47.380	29.840	47.440	6
18	29.840	47.440	30.890	47.450	6
19	30.890	47.450	32.650	47.490	6
20	32.650	47.490	34.160	48.420	6

21	34.160	48.420	35.560	48.640	6
22	37.610	49.570	39.260	49.860	6
23	48.420	56.640	52.450	59.090	6
24	52.450	59.090	55.990	59.170	6
25	55.990	59.170	57.110	58.250	5
26	69.380	60.000	71.470	58.000	2
27	57.110	58.250	71.470	58.000	5
28	57.110	58.250	61.050	55.000	2
29	59.030	55.000	61.050	55.000	5
30	47.560	56.000	57.260	56.000	5
31	57.260	56.000	59.030	55.000	5
32	59.030	55.000	76.760	40.000	2
33	35.560	48.640	66.547	48.640	4
34	22.160	46.660	23.780	46.480	6
35	3.770	30.000	103.980	30.000	1

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y	Nr.	x	y
[-]	[m]	[m]	[-]	[m]	[m]
1	3.770	-2000.000	2	103.980	-2000.000

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	0.881	640.754	727.387	727.387	0.000	640.754	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	0.881	640.754	727.387	727.387	0.000	640.754	0.000	50

Koordinaten (Gleitkörper 1)

Nr	x[m]	y[m]	Nr	x[m]	y[m]	Nr	x[m]	y[m]
1	22.160	46.660	2	47.550	55.999	3	58.560	65.250