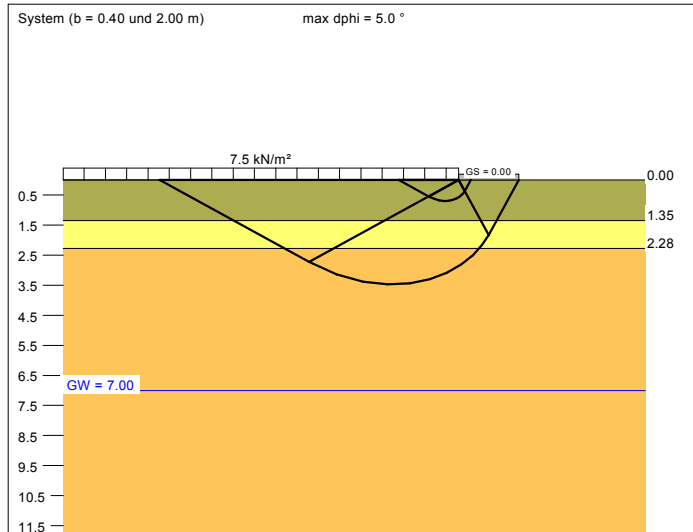
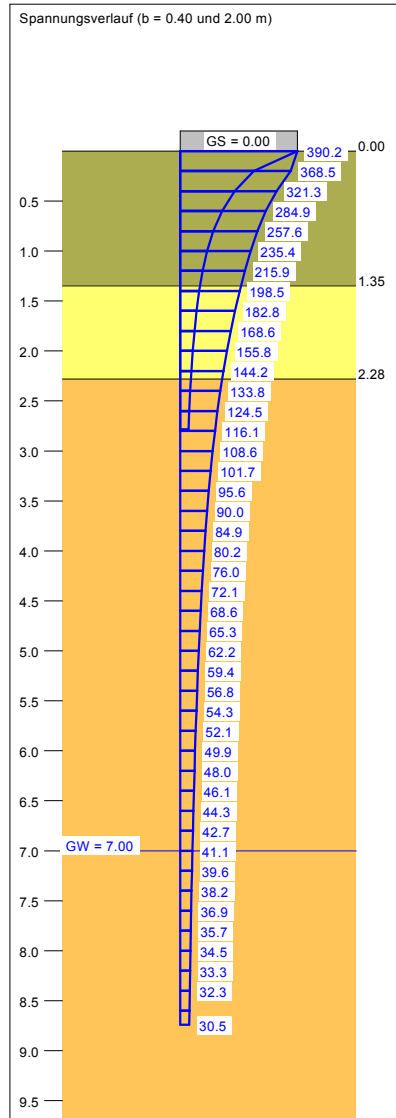


Boden	$\gamma$ [kN/m³]	$\gamma'$ [kN/m³]	$\varphi$ [°]	c [kN/m²]	$E_s$ [MN/m²]	$\nu$ [-]	Bezeichnung
	18.0	10.0	32.5	0.0	30.0	0.00	Bodenaustausch
	21.0	11.0	27.5	5.0	12.0	0.00	UL halbfest
	19.0	11.0	35.0	0.0	40.0	0.00	SE dicht



a [m]	b [m]	$\sigma_{R,d}$ [kN/m²]	$R_{n,d}$ [kN/m]	$\sigma_{E,k}$ [kN/m²]	s [cm]	cal $\varphi$ [°]	cal c [kN/m²]	$\gamma_2$ [kN/m³]	$\sigma_0$ [kN/m²]	$t_g$ [m]	UK LS [m]	$k_s$ [MN/m²]
10.00	0.40	210.9	84.4	148.0	0.42	32.5	0.00	18.00	7.50	2.78	0.69	35.1
10.00	0.50	230.4	115.2	161.7	0.55	32.5	0.00	18.00	7.50	3.19	0.87	29.4
10.00	0.60	249.8	149.9	175.3	0.69	32.5	0.00	18.00	7.50	3.58	1.04	25.5
10.00	0.70	269.0	188.3	188.8	0.83	32.5	0.00	18.00	7.50	3.95	1.21	22.6
10.00	0.80	283.4	226.7	198.9	0.97	32.1	0.43	18.00	7.50	4.28	1.37	20.5
10.00	0.90	290.9	261.9	204.2	1.09	31.3	1.26	18.09	7.50	4.56	1.49	18.8
10.00	1.00	301.3	301.3	211.5	1.21	30.9	1.68	18.21	7.50	4.84	1.63	17.5
10.00	1.10	311.8	342.9	218.8	1.34	30.6	2.01	18.35	7.50	5.12	1.78	16.3
10.00	1.20	322.4	386.9	226.3	1.47	30.3	2.25	18.48	7.50	5.39	1.92	15.4
10.00	1.30	332.9	432.8	233.6	1.60	30.1	2.46	18.61	7.50	5.65	2.07	14.6
10.00	1.40	343.5	480.9	241.1	1.74	29.9 *	2.62	18.72	7.50	5.91	2.21	13.9
10.00	1.50	417.0	625.6	292.7	2.23	31.5 *	1.69	18.87	7.50	6.62	2.51	13.1
10.00	1.60	454.3	726.9	318.8	2.55	31.9 *	1.46	18.92	7.50	7.07	2.72	12.5
10.00	1.70	488.4	830.3	342.7	2.86	32.2 *	1.30	18.95	7.50	7.57	2.92	12.0
10.00	1.80	519.5	935.1	364.5	3.17	32.4 *	1.20	18.98	7.50	8.03	3.11	11.5
10.00	1.90	541.0	1027.9	379.6	3.42	32.5 *	1.12	19.00	7.50	8.42	3.29	11.1
10.00	2.00	556.0	1111.9	390.2	3.63	32.4 *	1.05	19.01	7.50	8.74	3.47	10.7

\* phi wegen 5° Bedingung abgemindert  
 $\sigma_{E,k} = \sigma_{R,k} / ((\gamma_{R,v} \cdot \gamma_{(G,Q)}) = \sigma_{R,k} / (1.40 \cdot 1.43) = \sigma_{R,k} / 1.99$  (für Setzungen)  
 Verhältnis Veränderliche(Q)/Gesamtlasten(G+Q) [-] = 0.50



Berechnungsgrundlagen:  
 Norm: EC 7  
 BS: DIN 1054: BS-P  
 Grundbruchformel nach DIN 4017:2006  
 Teilsicherheitskonzept (EC 7)  
 Streifenfundament (a = 10.00 m)  
 $\gamma_{R,v} = 1.40$   
 $\gamma_G = 1.35$   
 $\gamma_Q = 1.50$   
 Anteil Veränderliche Lasten = 0.500

$\gamma_{(G,Q)} = 0.500 \cdot \gamma_Q + (1 - 0.500) \cdot \gamma_G$   
 $\gamma_{(G,Q)} = 1.425$   
 Gründungssohle = 0.00 m  
 Grundwasser = 7.00 m  
 Grenztiefe mit p = 20.0 %  
 Grenztiefen spannungsvariabel bestimmt

— Sohldruck  
 — Bettungsmodule

