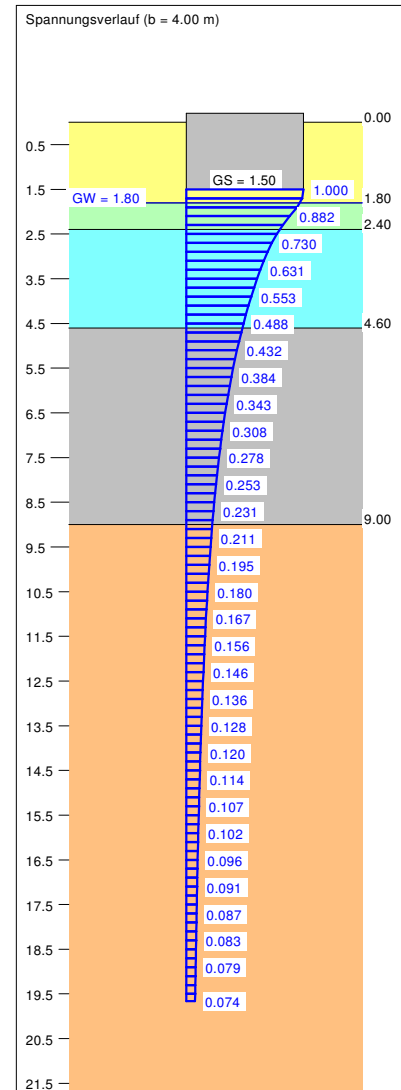
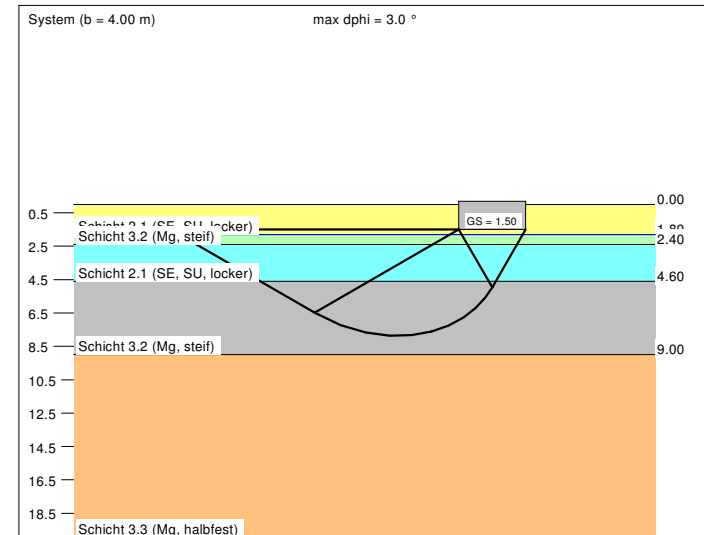


Boden	γ [kN/m ³]	γ' [kN/m ³]	ϕ [°]	c [kN/m ²]	E_s [MN/m ²]	ν [-]	Bezeichnung
	18.0	10.0	32.5	0.0	26.0	0.00	Schicht 2.1 (SE, SU, locker)
	20.0	10.0	29.0	10.0	40.0	0.00	Schicht 3.2 (Mg, steif)
	18.0	10.0	32.5	0.0	26.0	0.00	Schicht 2.1 (SE, SU, locker)
	20.0	10.0	29.0	10.0	40.0	0.00	Schicht 3.2 (Mg, steif)
	21.0	11.0	30.0	12.0	50.0	0.00	Schicht 3.3 (Mg, halbfest)



a [m]	b [m]	$\sigma_{R,d}$ [kN/m ²]	$R_{n,d}$ [kN]	$\sigma_{E,k}$ [kN/m ²]	s [cm]	cal ϕ [°]	cal c [kN/m ²]	γ_2 [kN/m ³]	σ_0 [kN/m ²]	t_g [m]	UK LS [m]
20.00	1.50	668.6	20058.2	469.2	3.54	31.9	1.83	11.43	27.00	12.09	4.04
20.00	1.75	696.0	24358.4	488.4	4.09	32.0	1.56	11.23	27.00	13.08	4.48
20.00	2.00	712.6	28505.1	500.1	4.56	31.3	3.46	11.10	27.00	13.93	4.83
20.00	2.25	729.9	32846.6	512.2	5.04	31.0	4.49	11.00	27.00	14.75	5.19
20.00	2.50	747.6	37382.2	524.7	5.52	30.7	5.13	10.91	27.00	15.53	5.57
20.00	2.75	765.4	42098.4	537.1	5.99	30.6	5.59	10.83	27.00	16.28	5.95
20.00	3.00	783.0	46977.2	549.4	6.46	30.4	5.97	10.77	27.00	17.00	6.33
20.00	3.25	800.4	52024.5	561.7	6.93	30.3	6.27	10.71	27.00	17.70	6.71
20.00	3.50	817.6	57229.0	573.7	7.40	30.2	6.53	10.66	27.00	18.37	7.10
20.00	3.75	834.6	62593.1	585.7	7.87	30.2	6.75	10.62	27.00	19.03	7.48
20.00	4.00	851.4	68113.5	597.5	8.34	30.1	6.95	10.59	27.00	19.66	7.86

$\sigma_{E,k} = \sigma_{01,k} / (\gamma_{Gr} \cdot \gamma_{(G,Q)}) = \sigma_{01,k} / (1.40 \cdot 1.43) = \sigma_{01,k} / 2.00$ (für Setzungen)
 Verhältnis Veränderliche(Q)/Gesamtlasten(G+Q) [-] = 0.50

Berechnungsgrundlagen:
 Grundbruchformel nach DIN 4017:2006
 Teilsicherheitskonzept (EC 7)
 Einzelfundament (a = 20.00 m)
 $\gamma_{Gr} = 1.40$
 $\gamma_G = 1.35$
 $\gamma_Q = 1.50$
 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 = 1.50 m
 Grundwasser = 1.80 m
 Grenztiefe mit p = 20.0 %
 — Sohlendruck
 — Setzungen

