






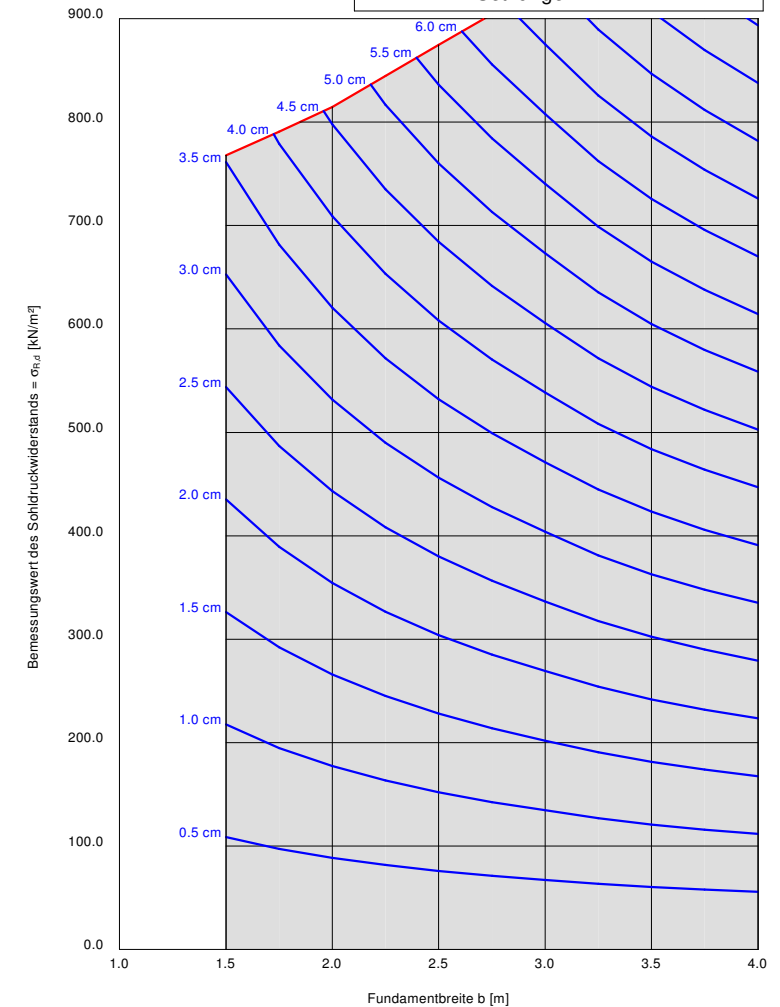
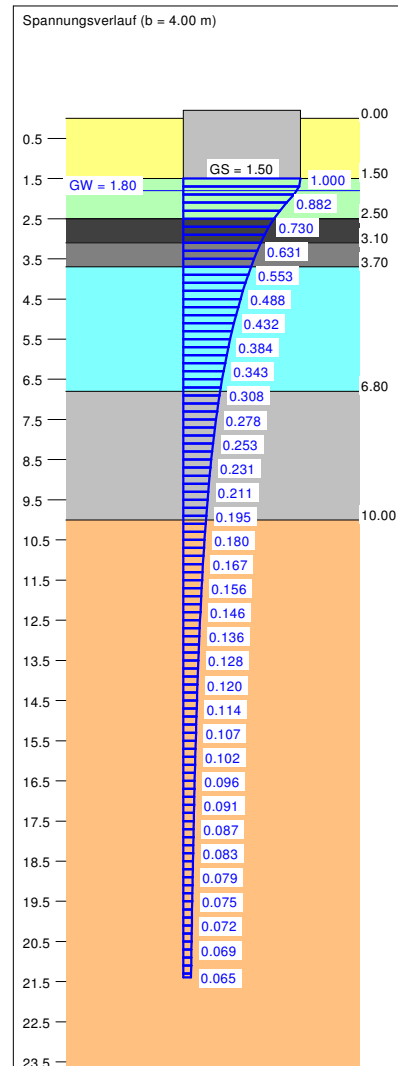
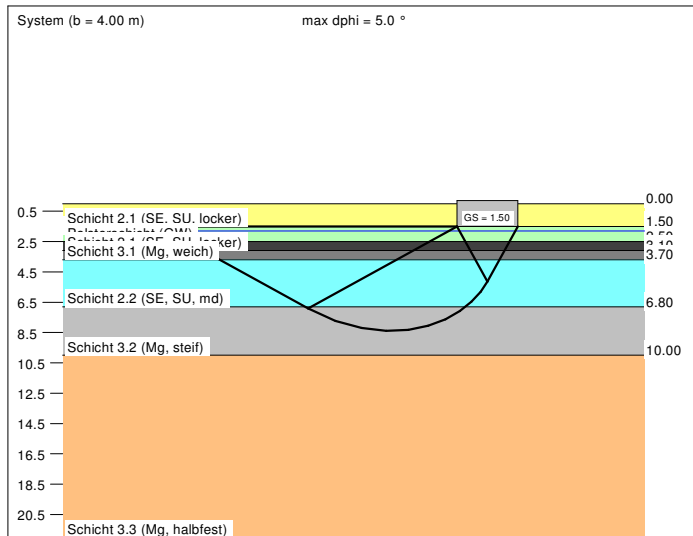


Boden	γ [kN/m³]	γ' [kN/m³]	ϕ [°]	c [kN/m²]	E_s [MN/m²]	ν [-]	Bezeichnung
	18.0	10.0	32.5	0.0	26.0	0.00	Schicht 2.1 (SE, SU, locker)
	21.0	12.0	37.5	0.0	50.0	0.00	Polsterschicht (GW)
	18.0	10.0	32.5	0.0	26.0	0.00	Schicht 2.1 (SE, SU, locker)
	19.0	9.0	28.0	6.0	20.0	0.00	Schicht 3.1 (Mg, weich)
	18.5	10.0	35.0	0.0	45.0	0.00	Schicht 2.2 (SE, SU, md)
	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)

Berechnungsgrundlagen:
 Grundbruchformel nach DIN 4017:2006
 Teilsicherheitskonzept (EC 7)
 Einzelfundament (a = 20.00 m)
 $\gamma_{Gr} = 1.40$
 $\gamma_G = 1.35$
 $\gamma_O = 1.50$
 Anteil Veränderliche Lasten = 0.500
 $\gamma_{(G,Q)} = 0.500 \cdot \gamma_G + (1 - 0.500) \cdot \gamma_G$
 $\gamma_{(G,Q)} = 1.425$
 Gründungssohle = 1.50 m
 Grundwasser = 1.80 m
 Grenztiefe mit p = 20.0 %
 — Sohlbruck
 — Setzungen



a [m]	b [m]	$\sigma_{R,d}$ [kN/m²]	$R_{n,d}$ [kN]	$\sigma_{E,k}$ [kN/m²]	s [cm]	cal ϕ [°]	cal c [kN/m²]	γ_2 [kN/m³]	$\sigma_{\dot{0}}$ [kN/m²]	t_g [m]	UK LS
20.00	1.50	767.8	23034.5	538.8	3.53	33.0 *	1.19	12.41	27.00	12.77	4.15
20.00	1.75	790.7	27675.1	554.9	4.06	33.0 *	0.94	12.07	27.00	13.75	4.59
20.00	2.00	814.5	32578.1	571.5	4.59	32.9 *	0.80	11.81	27.00	14.69	5.03
20.00	2.25	844.6	38006.2	592.7	5.17	33.0 *	0.70	11.61	27.00	15.63	5.47
20.00	2.50	874.5	43727.1	613.7	5.75	33.0 *	0.63	11.45	27.00	16.53	5.91
20.00	2.75	904.3	49736.7	634.6	6.34	33.0 *	0.57	11.32	27.00	17.40	6.36
20.00	3.00	932.5	55947.4	654.4	6.93	33.0 *	0.60	11.21	27.00	18.22	6.81
20.00	3.25	1024.2	66574.0	718.7	8.06	33.0 *	2.70	11.12	27.00	19.52	7.25
20.00	3.50	1070.2	74917.5	751.1	8.85	32.9	3.46	11.04	27.00	20.44	7.66
20.00	3.75	1072.4	80426.3	752.5	9.25	32.6	3.96	10.98	27.00	21.00	8.04
20.00	4.00	1056.3	84502.5	741.3	9.46	32.2 *	4.32	10.94	27.00	21.40	8.38

* phi wegen 5° Bedingung abgemindert
 $\sigma_{E,k} = \sigma_{Dik} / (\gamma_{Gr} \cdot \gamma_{(G,Q)}) = \sigma_{Dik} / (1.40 \cdot 1.43) = \sigma_{Dik} / 2.00$ (für Setzungen)
 Verhältnis Veränderliche(Q)/Gesamtlasten(G+Q) [-] = 0.50