

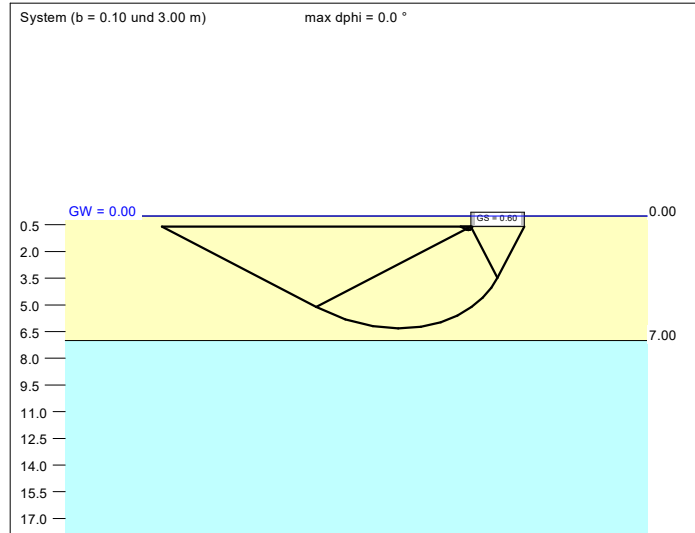
Boden	γ [kN/m³]	γ' [kN/m³]	φ [°]	c [kN/m²]	E _s [MN/m²]	v [-]	Bezeichnung
	20.0	10.0	35.0	0.0	50.0	0.00	Kies
	19.0	9.0	25.0	0.0	5.0	0.00	Beckenablagerungen

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AZ: 25-11-04

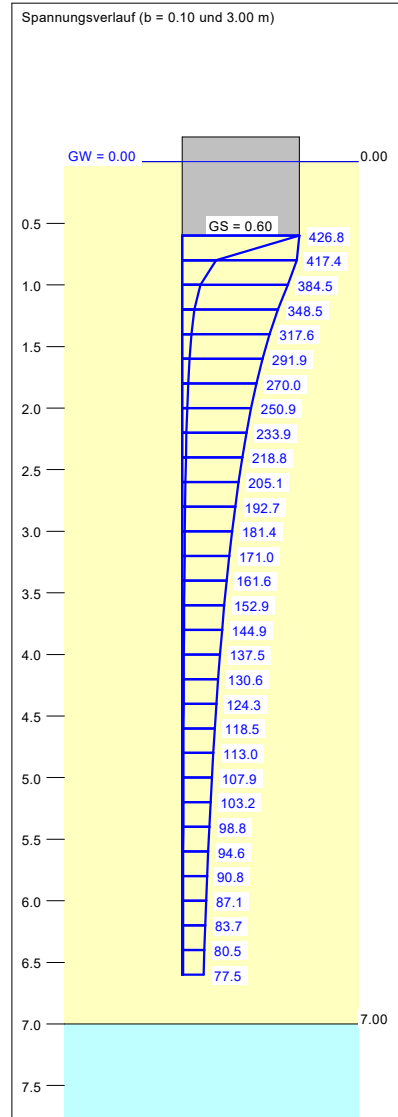
Anlage 6.1



a [m]	b [m]	$\sigma_{R,d}$ [kN/m²]	R _{n,d} [kN/m]	$\sigma_{E,k}$ [kN/m²]	s [cm]	cal φ [°]	cal c [kN/m²]	γ_2 [kN/m³]	σ_0 [kN/m²]	t _g [m]	UK LS [m]
10.00	0.10	159.6	16.0	112.0	0.07	35.0	0.00	10.00	6.00	6.60	0.79
10.00	0.20	176.4	35.3	123.8	0.12	35.0	0.00	10.00	6.00	6.60	0.98
10.00	0.30	193.2	58.0	135.6	0.18	35.0	0.00	10.00	6.00	6.60	1.17
10.00	0.40	209.8	83.9	147.2	0.24	35.0	0.00	10.00	6.00	6.60	1.36
10.00	0.50	226.3	113.2	158.8	0.31	35.0	0.00	10.00	6.00	6.60	1.55
10.00	0.60	242.8	145.7	170.4	0.37	35.0	0.00	10.00	6.00	6.60	1.74
10.00	0.70	259.1	181.4	181.8	0.44	35.0	0.00	10.00	6.00	6.60	1.94
10.00	0.80	275.4	220.3	193.2	0.51	35.0	0.00	10.00	6.00	6.60	2.13
10.00	0.90	291.5	262.4	204.6	0.58	35.0	0.00	10.00	6.00	6.60	2.32
10.00	1.00	307.6	307.6	215.8	0.65	35.0	0.00	10.00	6.00	6.60	2.51
10.00	1.10	323.5	355.9	227.0	0.72	35.0	0.00	10.00	6.00	6.60	2.70
10.00	1.20	339.4	407.3	238.2	0.80	35.0	0.00	10.00	6.00	6.60	2.89
10.00	1.30	355.1	461.7	249.2	0.87	35.0	0.00	10.00	6.00	6.60	3.08
10.00	1.40	370.8	519.1	260.2	0.95	35.0	0.00	10.00	6.00	6.60	3.27
10.00	1.50	386.4	579.5	271.1	1.02	35.0	0.00	10.00	6.00	6.60	3.46
10.00	1.60	401.8	642.9	282.0	1.10	35.0	0.00	10.00	6.00	6.60	3.65
10.00	1.70	417.2	709.2	292.8	1.18	35.0	0.00	10.00	6.00	6.60	3.84
10.00	1.80	432.5	778.5	303.5	1.26	35.0	0.00	10.00	6.00	6.60	4.03
10.00	1.90	447.7	850.6	314.1	1.34	35.0	0.00	10.00	6.00	6.60	4.22
10.00	2.00	462.7	925.5	324.7	1.42	35.0	0.00	10.00	6.00	6.60	4.42
10.00	2.10	477.7	1003.2	335.2	1.50	35.0	0.00	10.00	6.00	6.60	4.61
10.00	2.20	492.6	1083.7	345.7	1.58	35.0	0.00	10.00	6.00	6.60	4.80
10.00	2.30	507.4	1167.0	356.1	1.66	35.0	0.00	10.00	6.00	6.60	4.99
10.00	2.40	522.1	1253.0	366.4	1.74	35.0	0.00	10.00	6.00	6.60	5.18
10.00	2.50	536.7	1341.7	376.6	1.82	35.0	0.00	10.00	6.00	6.60	5.37
10.00	2.60	551.2	1433.1	386.8	1.90	35.0	0.00	10.00	6.00	6.60	5.56
10.00	2.70	565.6	1527.1	396.9	1.98	35.0	0.00	10.00	6.00	6.60	5.75
10.00	2.80	579.9	1623.7	406.9	2.06	35.0	0.00	10.00	6.00	6.60	5.94
10.00	2.90	594.1	1722.9	416.9	2.15	35.0	0.00	10.00	6.00	6.60	6.13
10.00	3.00	608.2	1824.7	426.8	2.23	35.0	0.00	10.00	6.00	6.60	6.32

$$\sigma_{E,k} = \sigma_{R,k} / (\gamma_{R,v} \cdot \gamma_{G,Q}) = \sigma_{R,k} / (1.40 \cdot 1.43) = \sigma_{R,k} / 1.99 \text{ (für Setzungen)}$$

$$\text{Verhältnis Veränderliche(Q)/Gesamtlasten(G+Q) [-] = 0.50}$$



Berechnungsgrundlagen:
Norm: EC 7
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 = 0.60 m
Grundwasser = 0.00 m
Grenztiefe mit festem Wert von 6.00 m u. GS
— Sohldruck
— Setzungen

