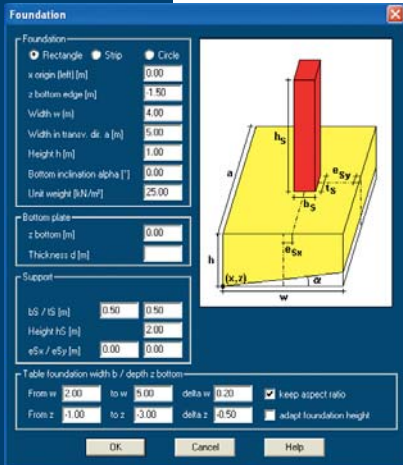


Bearing capacity analysis DC-Bearing



- Different excavation conditions are possible
- Variable layering, calculation with weighted layer parameters (no limitation to +/- 5°)
- Inclined foundation base possible
- Water levels in order to consider the lift
- Graphic of support/wall and foundation slab
- Slopes through terrain-inclination coefficients
- Calculation of the failure load, permissible load or safety
- Table for different foundation widths and depths
- Graphic with view, plan view and unit of failure

Footing input

- Bearing capacity analysis acc. to DIN 1054:2005, DIN 4017:2006, Eurocode 7, ÖNORM B 4435-2, SIA 267, Terzaghi and Brinch Hansen
- Analysis with partial safety factors or global safety
- German, English, French, Romanian program version
- Rectangular, strip and circular foundations
- Several load cases, eccentric and inclined loads

Table of foundation widths

Failure load and safeties with different foundation widths (aspect ratio b/a = 0.80)							
Width Found. [m]	Equivalent width [m]	Unit weight γ_1 [kN/m ³]	Unit weight γ_2 [kN/m ³]	Friction φ [°]	Cohesion c [kN/m ²]	Failure load V_u [kN]	Safety η
2.00	1.84	18.33	11.40	27.82	2.62	2049.99	0.48
2.20	2.04	18.33	11.45	27.48	2.88	2481.45	0.58
2.40	2.24	18.33	11.50	27.20	3.10	2961.27	0.68
2.60	2.44	18.33	11.54	26.97	3.29	3490.24	0.80
2.80	2.64	18.33	11.57	26.66	3.22	3974.43	0.90
3.00	2.84	18.33	11.55	26.25	2.85	4347.82	0.98
3.20	3.04	18.33	11.50	25.88	2.72	4787.63	1.07
3.40	3.24	18.33	11.46	25.43	2.64	5193.74	1.15
3.60	3.45	18.33	11.40	25.12	2.59	5695.64	1.25
3.80	3.65	18.33	11.34	24.88	2.56	6254.25	1.36
4.00	3.85	18.33	11.29	24.66	2.53	6856.01	1.47
4.20	4.05	18.33	11.23	24.48	2.51	7530.27	1.60
4.40	4.25	18.33	11.17	24.31	2.50	8250.65	1.74
4.60	4.45	18.33	11.12	24.18	2.48	9033.45	1.88
4.80	4.66	18.33	11.07	24.04	2.47	9848.30	2.02
5.00	4.86	18.33	11.03	23.92	2.45	10704.78	2.17

