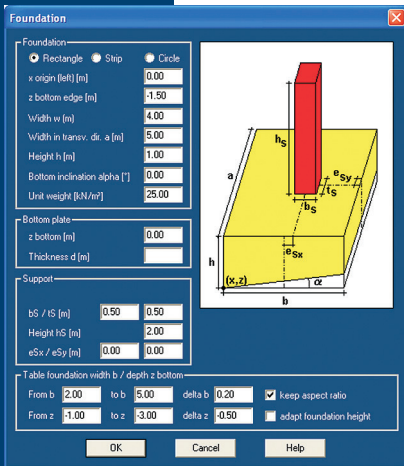


Bearing capacity analysis DC-Bearing



- Bearing capacity analysis acc. to Eurocode 7, DIN 1054:2010, DIN 4017:2006, OENORM B 4435-2, SIA 267, Terzaghi and Brinch Hansen
- Analysis with partial safety factors or global safety
- German, English, French, Romanian, Bosnian language
- Rectangular, strip and circular footings
- Several load cases, eccentric and inclined loads
- Different excavation conditions are possible
- Variable layering, calculation with weighted soil layer parameters (no limitation to +/- 5°)
- Inclined foundation base possible
- Water levels in order to consider the lift

Footing input

- Graphic of support/wall and foundation slab
- Slopes through ground inclination coefficients
- Calculation of the limit load, permissible load or safety factor
- Table for different footing widths and depths
- Graphic with view, plan view and unit of failure

Table of footing widths

Failure load and safeties with different foundation depths and widths
Depth of the foundation bottom edge: -1.00 m
(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 τ
2.00	1.84	18.25	12.88	29.56	1.74	1837.13	0.43
2.20	2.04	18.25	12.76	28.62	2.10	2094.91	0.49
2.40	2.24	18.25	12.63	28.07	2.38	2443.71	0.56
2.60	2.44	18.25	12.53	27.69	2.61	2857.51	0.66
2.80	2.64	18.25	12.48	27.41	2.81	3330.64	0.76
3.00	2.84	18.25	12.43	27.14	2.99	3833.07	0.87
3.20	3.04	18.25	12.38	26.82	2.89	4262.34	0.95
3.40	3.24	18.25	12.31	26.44	2.60	4606.33	1.02
3.60	3.45	18.25	12.23	26.08	2.47	4998.55	1.10
3.80	3.65	18.25	12.16	25.67	2.40	5383.13	1.17
4.00	3.85	18.25	12.08	25.34	2.36	5844.39	1.26
4.20	4.05	18.25	12.00	25.10	2.33	6381.23	1.36
4.40	4.25	18.25	11.92	24.87	2.32	6950.79	1.46
4.60	4.45	18.25	11.84	24.68	2.30	7568.14	1.57
4.80	4.66	18.25	11.76	24.51	2.29	8232.16	1.69
5.00	4.86	18.25	11.69	24.37	2.29	8958.69	1.82

