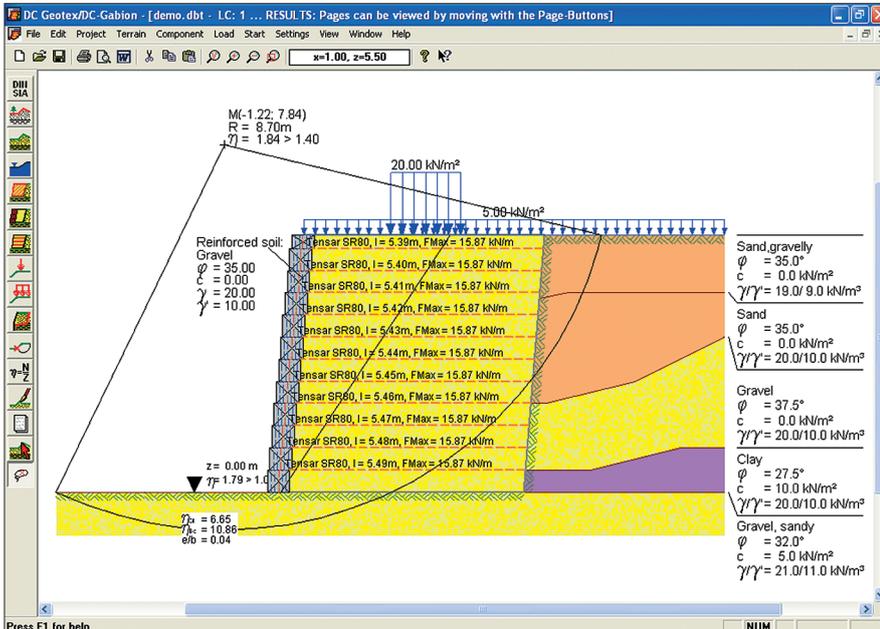


Analysis of Reinforced Earth with geosynthetics and gabions

DC-Geotex / DC-Gabion



- Different types of facing with checks (eccentricity, sliding, transfer of the fastening force, gabion wire)
- Selection of predefined geosynthetics with reduction factors, freely extendable
- Automatic function for a fast input of many geosynthetics layers
- Different load cases
- Arbitrary course of soil layers by earth pressure calculation acc. to Culmann
- Appealing result graphics

- Reinforced earth and gabions
- German, English, French, Romanian language
- Analysis of Reinforced Earth with geosynthetics based on EBGEO with partial safety factors (DC-Geotex)
- Analysis of gabions etc. acc. to the bulletin on supporting structures from concrete elements, layered blocks and gabions (DC-Gabion)

- Analysis acc. to Eurocode 7, DIN 1054:2010, SIA 267, British Standard BS 8006

z [m]	h [m]	v [m]	h/v	Q [kN]	M [kNm]	A [kN]	F _{act} [kN]	F _{req} [kN]	e [cm]	e _{req} [cm]
0.62	5.80	3.14	1.85	0.00	0.00	0.00	0.00	0.00	0.00	< 50/6
0.59	5.50	3.00	1.83	-3.82	-1.06	-0.15	2.39	< F _{act}	4.03	< 50/6
0.55	5.50	3.72	1.48	1.32	-0.15	0.54	0.54	< 1.50	4.30	< 50/6
0.54	5.00	3.50	1.43	1.15	-1.46	-0.16	3.23	< F _{act}	1.54	< 50/6
0.54	5.00	5.87	1.07	8.73	1.75	-0.16	1.11	< 1.50	1.59	< 50/6
0.50	4.50	7.62	1.50	16.30	-2.15	-0.22	4.55	< F _{act}	1.33	< 50/6
0.48	4.00	8.21	1.70	15.86	2.37	-0.22	1.34	< 1.50	1.36	< 50/6
0.45	3.50	8.96	1.99	15.59	-2.70	-0.26	5.65	< F _{act}	1.15	< 50/6
0.45	4.00	10.54	2.37	21.99	2.92	-0.26	1.51	> 1.50	1.18	< 50/6
0.40	3.50	12.30	3.51	28.80	-3.32	-0.32	6.97	< F _{act}	1.11	< 50/6
0.40	3.50	12.58	3.59	28.11	3.62	-0.32	1.55	> 1.50	1.14	< 50/6
0.35	3.00	15.22	5.07	34.29	3.74	-0.32	7.57	< F _{act}	0.93	< 50/6
0.30	2.50	20.51	8.20	41.29	-4.44	-0.46	10.29	< F _{act}	1.12	< 50/6
0.25	2.50	21.18	8.43	40.27	5.80	-0.46	1.39	< 1.50	1.15	< 50/6
0.25	2.00	23.16	11.58	47.61	-5.81	-0.42	10.89	< F _{act}	0.88	< 50/6
0.25	2.00	23.80	11.90	46.54	5.03	-0.42	1.85	> 1.50	0.90	< 50/6
0.20	1.50	25.70	17.13	54.00	-7.87	-1.09	19.61	> F _{act} = 15.87 !	2.02	< 50/6
0.20	1.50	26.33	17.55	52.07	11.65	-1.09	0.89	< 1.50	2.09	< 50/6
0.15	1.00	28.19	24.19	59.66	-2.51	1.25	-7.96	< F _{act}	-2.09	< 50/6
0.15	1.00	28.80	25.80	60.44	-10.43	1.25	1.16	< 1.50	-2.06	< 50/6