Holding Capacity Table

Holding Strengths F_{limit} in kN (the figures represent the breaking load)

Disc diameter D (mm)	Screw-in depth (m) *	Soil with a heavy consistency, fatty, stiff clays, extremely desiccated soil filled with pebbles, boulders and stones	well-graded sand-gravel mixture, evenly grained gravel with few fine components (medium-heavy soil)	Gravelly sand, rough grains, coarse-grained	Cohesive soils, semisolid, easily to heavily ductility, clay, marl, loess, loam	Backfilled soil that has not been artificially compacted, with little cohesion, fine grained sands
80	0,70	4,9	4,2	3,6	2,3	2,0
100	0,70	6,0	5,1	4,1	3,1	2,4
	1,00	9,3	7,8	6,4	4,9	3,9
120	0,70	7,8	6,7	5,1	4,2	3,2
	1,00	12,2	10,4	8,2	6,3	4,9
150	0,70	10,8	9,3	6,7	5,9	4,4
	1,00	16,7	14,2	10,8	8,6	7,0
	1,50	29,4	27,5	23,5	17,7	11,8
	2,00	54,0	39,2	31,4	24,5	21,6
200	0,70	15,7	14,2	10,8	8,8	6,7
	1,00	24,5	21,6	16,7	12,7	10,8
	1,50	44,2	39,2	35,3	26,5	17,7
	2,00	71,1	58,9	47,0	37,3	29,4

The holding strengthes were determined in pull-out tests in the field. Depending on the soil structure, the soil composition and the moisture content, however, deviations may occur. We therefore recommend to determine the actual holding strenghts on site by performing pull-out tests.

* **Please note:**
Ordering lenght of anchor: Add about 30 cm to the screw-in depth for eyelet and upper distance to the disc