HULK Earth Anchors

HOLDING CAPACITY CHART

Hulk H50, H80, and H110 based on an installation depth of 1.2m cabled with an 8mm wire rope tendon.

Hulk HG100 and HG180 based on an installation depth of 2.1m, installed with a 22mmØ CTB anchor rod.

Soil Description	Blow Count (N)	HULK H50	HULK H80	HULK H110	HULK HG100	HULK HG180	HULK HG320
Ultimate anchor strength	N/A	45kN	45kN	45kN	280kN	280kN	280kN
Very dense / cemented sands; Coarse gravel and cobbles	60+	45kN (1,3)	45kN (1,3)	45kN (1,3)	140-280kN (1,3)	N/A (5)	N/A (5)
Dense fine compacted sands; Very hard silts or clays	45-60	27-45kN (2,3,4)	45kN (2,3)	45kN (2,3)	105-140kN (2,4)	170-280kN (1,3,4)	201-280kN (1,3)
Dense clays, sands and gravels; Hard silts and clays	35-50	18-27kN (4)	24-36kN (4)	45kN (2,3)	75-100kN (2,4)	113-170kN (2,4)	160-201kN (2,3,4)
Medium dense sandy gravel; Stiff to hard silts and clays	24-40	13-18kN (4)	18-22kN (4)	23-30kN (4)	60-90kN (4)	85-95kN (2,4)	121-170kN (2,4)
Mediums dense coarse sand and sandy gravel; Stiff to very stiff silts and clays	14-25	9-13kN (4)	14-18kN (4)	18-23kN (4)	45-60kN (4)	40-95kN (4)	90-121kN (4)
Loose to medium dense fine to coarse sand; Firm to stiff clays and silts	7-14	7-11kN (4)	9-16kN (4)	13-20kN (4)	35-50kN (4)	47-71kN (4)	70-90kN (4)
Loose fine sand; Alluvium; Soft clays; Fine saturated silty sand	4-8	4-7kN (4,6)	6-10kN (4,6)	8-13kN (4,6)	25-40kN (4,6)	38-56kN (4,6)	45-70kN (4,6)

1) Drilled pilot hole required for efficient installation.
2) Ease of installation may be improved by drilling a pilot hole.
3) Holding capacity limited by ultimate strength of anchors.
4) Holding capacity limited by soil structure.
5) Not recommended in these soils.

Wide variation in soil properties reduces prediction accuracy. Pre-construction field test is recommended.

Predicted ultimate holding capacities are based on the results of extensive testing and are offered as an application guide only. Users must factor in their individual, appropriate safety factors.

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