

Capacity Chart Based on Standard 7ft (2.1 m) Anchor Rod Depth in Soil

Soil Type	Common Soil Type Description	Type Blow count "N" per ASTM-D 1586	MR-4		MR-3		MR-2		MR-1		MR-SR		MK-8	
			KIPS	KN	KIPS	KN	KIPS	KN	KIPS	KN	KIPS	KN	KIPS	KN
ULTIMATE STRENGTH			16	71	20	89	40	178	40	178	40	178	40	178
1/2	Dense fine compacted sand: Very hard silts and clays	45-60	9-16	40-71	17-20	76-89	21-28	93-125	36-40	160-178	N/A	N/A	N/A	N/A
			(2,3,4)		(2,3,4)		(2,4)		(1,2,3)		(5)		(5)	
2/3	Dense clays, sands and gravel: Hard silts and clays	35-50	6-9	27-40	12-18	53-80	15-22	67-98	24-36	107-160	32-40	142-178	N/A	N/A
			(4)		(4)		(2,4)		(2,4)		(2,3,4)		(5)	
3/4	Medium dense sandy gravel: Very stiff to hard silts and clays	24-40	4.5-6	20-25	9-14	40-62	12-18	53-80	18-20	80-89	24-34	107-151	N/A	N/A
			(4)		(4)		(4)		(4)		(2,4)		(5)	
5/6	Medium dense coarse sand and sandy gravel: Stiff to very stiff silts and clays	14-25	3.5-4.5	16-20	7-9	31-40	9-12	40-53	15-20	67-89	18-24	80-107	N/A	N/A
			(4)		(4)		(4)		(4)		(4)		(5)	
6/7	Loose to medium dense fine to coarse sand: Firm to stiff clays and silts	7-14	2.5-4.0	11.-18	5-8	22-36	7-10	31-44	10-15	44-67	14-18	62-80	20-24	89-107
			(4)		(4)		(4)		(4)		(4)		(4)	
7/8	Loose fine sand: Alluvium Soft-firm clays: Varied clays, fill, fine saturated silty sand	4-8	1.5-2.5	7-11	3-5	13-22	5-8	22-36	8-12	36-53	9-14	40-62	13-20	58-89
			(4,6)		(4,6)		(4,6)		(4,6)		(4,6)		(4,6)	
RATING Anchors are compatible with industry standard anchor rods.			Up to 12M in hard soils. Up to 6M in average soils. Dual purpose anchor. Used with 5/8" anchor rods.		Up to 12M for average/normal soils. Used with 5/8" anchor rods.		Up to 32M in hard soil. Up to 18M in average soils. Dual purpose anchor. Used with 3/4" and 1" anchor rods.		Up to 32M for average/normal soils. Used with 3/4" and 1" anchor rods.		Up to 32M for loose or wet soils. Used with 3/4" and 1" anchor rods.		Up to 32M for very loose or wet soils. Used with 3/4" and 1" anchor rods.	
PROOF LOAD Maximum anchor proof load necessary (2-1 safety factor) on anchor rod strength.			4,000 lbs - 5/8" rod		8,000 lbs - 5/8" rod		16,000 lbs - 1" rod 12,000 lbs - 3/4" rod		16,000 lbs - 1" rod 12,000 lbs - 3/4" rod		16,000 lbs - 1" rod 12,000 lbs - 3/4" rod		16,000 lbs - 1" rod 12,000 lbs - 3/4" rod	