



MACLEAN POWER SYSTEMS

A Maclean-Fogg Company

No-Wrench Anchor Application Data

Soil Classification Data

Class	Common Soil-Type Description	Geological Soil Classification	Typical Blow Count "N" per ASTM-D1586
0	Sound hard rock, unweathered	Granite, Basalt, Massive Limestone	N.A. ROD = 50-1/2
1	Very dense and/or cemented sands; coarse gravel and cobbles	Caliche, (Nitrate-bearing gravel/rock)	60-100+
2	Dense Fine sand; very hard silts and clays (may be preloaded)	Basal till; boulder clay; caliche; weathered laminated rock	45-60
3	Dense clays, sands and gravel; hard silts and clays	Glacial till; weathered shales, schist, gneiss and siltstone	35-50
4	Medium dense sandy gravel; very stiff to hard silts and clays	Glacial fill; hardpan; marls	24-40
5	Medium dense coarse sand and sandy gravels; stiff to very stiff silts and clays	Saprolites, residual soils	14-25
6	Loose to medium dense fine to coarse sand; firm stiff clays and silts	Dense hydraulic fill; compacted fill; residual soils	7-14
7**	Loose fine sand; Alluvium; loess; soft-firm clays; varied clays; fill	Flood plain soils; lake clays; adobe; gumbo, fill	4-8
8**	Peat, organic silts; inundated silts, fly ash	Miscellaneous fill, swamp marsh	0-5

Notes: Class 1 soils are difficult to probe consistently and the ASTM blow count may be of questionable value.

**** It is advisable to install anchors deep enough, by the use of extensions, to penetrate a Class 5 or 6 underlying the Class 7 or 8 soils.**

Application Table

Catalog Number	Helix Diameter (Inches)	Shaft Diameter (Inches)	Ultimate Holding Strength (Lbs)			
			Soil Class 8	Soil Class 7	Soil Class 6	Soil Class 5
J6524WCA	4	3/4	500	1,500	3,000	4,000
J6526WCA	6	3/4	1,000	2,000	4,000	6,500
J6528WCA	8	1	2,000	4,000	7,000	10,000
J6530WCA	10	1-1/4	3,000	6,000	9,000	12,000
J6584WCA	14	1-1/5	5,000	10,000	14,000	16,000
J6885WCA	15	1-1/6	6,000	13,000	16,000	18,000