

# HOLDING CAPACITY CHARTS

## CHANCE® ANCHORING PRODUCTS

### SOIL CLASSIFICATION CHART

#### SOIL CLASSIFICATION DATA

Class	Common Soil-Type Description	Geological Soil Classification	Probe Values ft.-lbs. in.-lbs. (NM)	Typical Blow Count “N” per ASTM-D1586
0	Sound hard rock un-weathered (bedrock)	Granite, Basalt, Massive Limestone	N.A.	N.A.
1	Very dense and/or cemented sands; coarse gravel and cobbles	Caliche, (Nitrate-bearing gravel/rock)	63 - 133	60-100+
			750 - 1600	
			(85-181)	
2	Dense fine sands; very hard silts and clays (may be preloaded)	Basal till; boulder clay; caliche; weathered laminated rock	50 - 63	45-60
			600 - 750	
			(68-85)	
3	Dense sands and gravel; hard silts and clays	Glacial till; weathered shales, schist, gneiss and siltstone	42 - 50	35-50
			500 - 600	
			(56 - 68)	
4	Medium dense sand and gravel; very stiff to hard silts and clays	Glacial till; hardpan; marls	33 - 42	24-40
			400 - 500	
			(45 - 56)	
5	Medium dense coarse sands and sandy gravels; stiff to very stiff silts and clays	Saprolites, residual soils	25 - 33	14-25
			300 - 400	
			(34 - 45)	
6*	Loose to medium dense fine to coarse sands to stiff clays and silts	Dense hydraulic fill; compacted fill; residual soils	17 - 25	7-14
			200 - 300	
			(23 - 34)	
7	Loose fine sands; Alluvium; loess; medium - stiff and varied clays; fill	Flood plain soils; lake clays; adobe; gumbo, fill	8 - 16	4-8
			100 - 200	
			(11 - 23)	
8	Peat, organic silts; inundated silts, fly ash very loose sands, very soft to soft clays	Miscellaneous fill, swamp marsh	<8	0-5
			<100	
			(0 - 11)	

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

\*In areas only seasonally wet with slow drain as in fairly flat terrain.