



PRESTO GEOSYSTEMS

**GENUINE GEOWEB®
CELLULAR CONFINEMENT**

Correlation of Subgrade Soil Strength Parameters for Cohesive Soils (Fine-Grained)

California Bearing Ratio	Undrained Shear Strength*	Hand Penetrometer Readings	Standard Penetration Resistance	Field Identification / Visual
<i>CBR (%)</i>	<i>C_u (psi)</i>	<i>P_q (tsf)</i>	<i>SPT (blows/ft)</i>	
< 0.4	< 1.7	< 0.25	< 2	Very Soft (extruded between fingers when squeezed), Man standing sinks >3 inches
0.4 – 0.8	1.7 – 3.5	0.25 – 0.50	2 – 4	Soft (molded by light finger pressure) Man walking sinks 2-3 inches
0.8 – 1.6	3.5 – 6.9	0.50 – 1.0	4 – 8	Medium (molded by strong finger pressure) Man walking sinks 1 inch
1.6 – 3.2	6.9 – 13.9	1.0 – 2.0	8 – 15	Stiff (readily indented by thumb but not penetrated with great effort) Pick-up ruts ½-1 inch
3.2 – 6.4	13.9 – 27.7	2.0 – 4.0	15 – 30	Very Stiff (readily indented by thumb) Loaded dump truck ruts 1-3 inches
> 6.4	> 27.7	> 4.0	> 30	Hard (indented with difficulty by thumbnail) Loaded dump truck no ruts