



**PRESTO GEOSYSTEMS**

**GENUINE GEOWEB®  
CELLULAR CONFINEMENT**

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

<b>California Bearing Ratio</b>	<b>Undrained Shear Strength*</b>	<b>Hand Penetrometer Readings</b>	<b>Standard Penetration Resistance</b>	<b>Field Identification / Visual</b>
<i>CBR (%)</i>	<i>C<sub>u</sub> (kPa)</i>	<i>P<sub>q</sub> (kg/cm<sup>2</sup>)</i>	<i>SPT (blows/300 mm)</i>	
< 0.4	< 11.7	< 0.25	< 2	<b>Very Soft</b> (extruded between fingers when squeezed), Man standing sinks >75 mm
0.4 – 0.8	11.7 – 24.2	0.25 – 0.50	2 – 4	<b>Soft</b> (molded by light finger pressure) Man walking sinks 50 -75 mm
0.8 – 1.6	24.2 – 47.6	0.50 – 1.0	4 – 8	<b>Medium</b> (molded by strong finger pressure) Man walking sinks 25 mm
1.6 – 3.2	47.6 – 95.9	1.0 – 2.0	8 – 15	<b>Stiff</b> (readily indented by thumb but not penetrated with great effort) Pick-up ruts 13 – 25 mm
3.2 – 6.4	95.9 – 191	2.0 – 4.0	15 – 30	<b>Very Stiff</b> (readily indented by thumb) Loaded dump truck ruts 25 – 75 mm
> 6.4	> 191	> 4.0	> 30	<b>Hard</b> (indented with difficulty by thumbnail) Loaded dump truck no ruts

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