

*For preliminary evaluation, complete this form and email or fax to your Presto Geosystems distributor/representative or Presto Geosystems.*

*Items marked with a \* are required to proceed with a preliminary evaluation.*

**Project Information**

\*Project Name \_\_\_\_\_  
 \*City \_\_\_\_\_ \*State/Province \_\_\_\_\_ \*Country \_\_\_\_\_  
 Estimated Geoweb® Area \_\_\_\_\_ m<sup>2</sup> ft<sup>2</sup>  
 \*Describe problem to be solved by the Geoweb system: \_\_\_\_\_

**Person Requesting Information**

\*Relationship with Project (check one)  
 Consulting Engineer     Contractor     Owner    Other \_\_\_\_\_  
 \*Company \_\_\_\_\_ \*Contact Name \_\_\_\_\_  
 \*Address \_\_\_\_\_ \*City \_\_\_\_\_ \*State/Province \_\_\_\_\_  
 \*Zip/PC \_\_\_\_\_ Country \_\_\_\_\_  
 \*Phone \_\_\_\_\_ \*Fax \_\_\_\_\_ Email \_\_\_\_\_

**Presto Geosystems Distributor Information**

Company **PSM Technologies (Pty) Ltd**    Contact **joriokot@psmtechnologies.com**  
 Office Location **Johannesburg, South Africa**

**Design Information**

**\*Load Support Structure type**

<input type="checkbox"/> Highway	<input type="checkbox"/> Intermodal Facilities (Heavy Traffic)
<input type="checkbox"/> Residential Street	<input type="checkbox"/> Forestry or Mining Access
<input type="checkbox"/> Parking Lot	<input type="checkbox"/> Path Type _____
<input type="checkbox"/> Construction access	<input type="checkbox"/> Private Drive <input type="checkbox"/> Other _____

**\*What is the final wearing surface of the system?**

<input type="checkbox"/> Paved with asphalt	<input type="checkbox"/> Aggregate surface	<input type="checkbox"/> Vegetated surface
<input type="checkbox"/> Paved with concrete	<input type="checkbox"/> GRC (Geoweb + concrete)	<input type="checkbox"/> Other _____

**PRESTO GEOSYSTEMS**  
 670 N PERKINS STREET, APPLETON, WISCONSIN, USA 54914  
 Ph: 920-738-1328 or 800-548-3424 ■ Fax: 920-738-1222  
 e-mail: [INFO@PRESTOCEO.COM](mailto:INFO@PRESTOCEO.COM)    [WWW.PRESTOCEO.COM](http://WWW.PRESTOCEO.COM)

**What are the traffic details?**

\*Maximum Axle Load \_\_\_\_\_  kg  lb      \*Passes/Day \_\_\_\_\_  
 \*No. Tires/Axle \_\_\_\_\_      \*Design Life \_\_\_\_\_ (Years)  
 \*Tire Pressure  MPa  lb/in<sup>2</sup>

**What is the subgrade soil description?**

\*Description (eg. Medium Dense Silty Sand, Very Soft Clay, etc.) \_\_\_\_\_

**\*What is the subgrade soil strength? Enter at least one value.**

California Bearing Ratio (CBR) Value \_\_\_\_\_ %  
 R-Value \_\_\_\_\_  
 Standard Penetration Resistance \_\_\_\_\_ blows /  300 mm  / ft  
 Unconfined Compressive Strength \_\_\_\_\_  kPa  lb/ft<sup>2</sup>  
 Modulus of Elasticity, M<sub>R</sub> \_\_\_\_\_  MPa  lb/ft<sup>2</sup>

**Other data (if available)**

Gradation (provide curve)   
 Depth to Water Table \_\_\_\_\_ m (ft)

**What are the details of construction?**

<b>Construction Materials</b>	<b>Material Property</b>	<b>Strength Value</b>
Geoweb Infill	Unit Density	<input type="checkbox"/> kN/m <sup>3</sup> <input type="checkbox"/> lb/ft <sup>3</sup>
	Angle of Internal Friction	<input type="checkbox"/> degree
Asphalt Concrete	Modulus of Elasticity	<input type="checkbox"/> MPa <input type="checkbox"/> lb/in <sup>2</sup>
	Other (Specify)	<input type="checkbox"/>
Aggregate Base	Compacted CBR Value	<input type="checkbox"/> %
	R-Value	<input type="checkbox"/>
	Modulus of Elasticity	<input type="checkbox"/> MPa <input type="checkbox"/> lb/in <sup>2</sup>
	Other (Specify)	<input type="checkbox"/>
Aggregate Subbase	Compacted CBR Value	<input type="checkbox"/> %
	R-Value	<input type="checkbox"/>
	Modulus of Elasticity	<input type="checkbox"/> MPa <input type="checkbox"/> lb/in <sup>2</sup>
	Other (Specify)	<input type="checkbox"/>

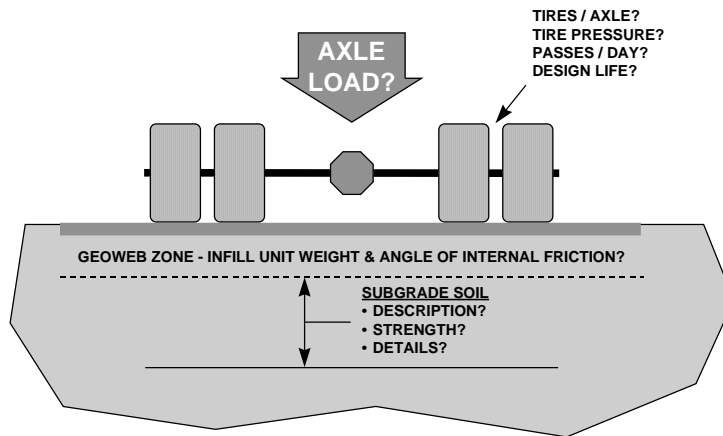
**What are the details of construction (continued)?**

Geotextile Separation     Woven or  Non-Woven  
 Geogrid Type: \_\_\_\_\_  
 Other \_\_\_\_\_

**Schedule**

1) **Deadline Dates:** Project Evaluation Needed By \_\_\_\_\_  
 Projected Bid Date \_\_\_\_\_ Planned Construction Startup \_\_\_\_\_

**Basic Load Support System Definitions**



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*The project evaluation will be performed based on specification characteristics, structural values and limits for the Geoweb® material manufactured under an ISO 9001:2008 Quality Management program. The Evaluation is protected by copyright and any use of this Evaluation with materials manufactured by anyone other than Presto Products Company causes the recommendation and/or drawings to become invalid.*

**REFERENCE**

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

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
CBR (%)	$C_u$ (psi)	$Pq$ (tsf)	SPT (blows/ft)	
< 0.4	< 1.7	< 0.25	< 2	<b>Very Soft</b> (extruded between fingers when squeezed), Man standing sinks >3 inches
0.4 – 0.8	1.7 – 3.5	0.25 – 0.50	2 – 4	<b>Soft</b> (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	<b>Medium</b> (molded by strong finger pressure) Man walking sinks 1 inch
1.6 – 3.2	6.9 – 13.9	1.0 – 2.0	8 – 15	<b>Stiff</b> (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	<b>Very Stiff</b> (readily indented by thumb) Loaded dump truck ruts 1-3 inches
> 6.4	> 27.7	> 4.0	> 30	<b>Hard</b> (indented with difficulty by thumbnail) Loaded dump truck no ruts

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

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
CBR (%)	$C_u$ (kPa)	$Pq$ (kg/cm <sup>2</sup> )	SPT (blows/300 mm)	
< 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