PRESTO GEOSYSTEMS

GEOWEB® RAILROAD LOAD SUPPORT REQUEST FOR PROJECT EVALUATION

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 _____ ft²

*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 _____ *Country _____ *Zip/PC_____

*Phone _____ *Fax _____ Email _____

Presto Geosystems Distributor Information (if known)

Company _____

Contact _____

Office Location _____

PRESTO GEOSYSTEMS
670 N PERKINS STREET, APPLETON, WISCONSIN, USA 54914
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e-mail: INFO@PRESTOGEO.COM WWW.PRESTOGEO.COM/

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Design Information

What are the traffic/loading details?

*Rail Car Weight _____ tons
*No. Axle _____
Wheel Diameter _____ inches

*Passes/Day _____
*Design Life _____ (Years)
Maximum Train Speed _____(mph)

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 / ft
Unconfined Compressive Strength _____ lb/ft²
Modulus of Elasticity, M_R _____ lb/ft²
Other _____

Other data (if available)

Gradation (provide curve) _____
Moisture Content _____%
Depth to Water Table _____ ft

Rail Details – (lbs/yd)

☐ 115 RE
☐ 136 RE
☐ 141 RE
Other _____

BALLAST

Primary Ballast depth (in) _____
Sub-ballast depth (in) _____

Geotextile (type) _____

TIE DETAILS

Type (Wood, Concrete, Steel, Plastic) _____
Width of tie (in) _____
Length of tie (in) _____
Tie spacing (in) _____

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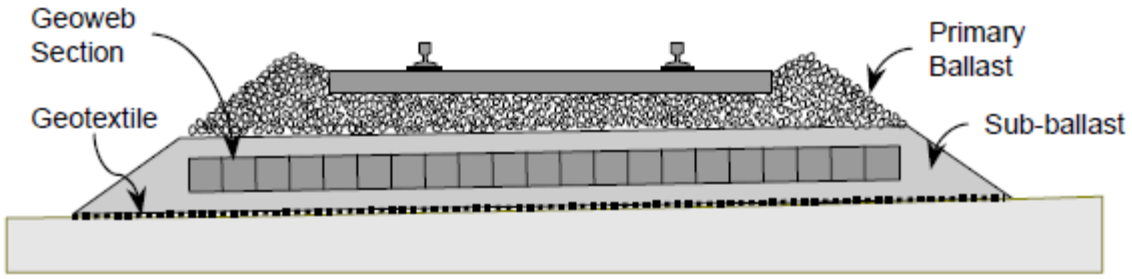
Schedule

1) **Deadline Dates:** Project Evaluation Needed By: _____

Projected Bid Date _____ Planned Construction Startup_____

Basic Load Support System Definitions



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	**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

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/cm2)*	*SPT (blows/300 mm)*	
< 0.4	< 11.7	< 0.25	< 2	**Very Soft** (extruded between fingers when squeezed), Man standing sinks >75 mm
0.4 – 0.8	11.7 – 24.2	0.25 – 0.50	2 – 4	**Soft** (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	**Medium** (molded by strong finger pressure) Man walking sinks 25 mm
1.6 – 3.2	47.6 – 95.9	1.0 – 2.0	8 – 15	**Stiff** (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	**Very Stiff** (readily indented by thumb) Loaded dump truck ruts 25 – 75 mm
> 6.4	> 191	> 4.0	> 30	**Hard** (indented with difficulty by thumbnail) Loaded dump truck no ruts