

PRESTO



GEOWEB®

Load Support System

Design
Engineering
Resource
Package



LOAD SUPPORT



PRESTO



GEOSYSTEMS®

Design Resources

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GEOWEB®

Load Support System

DESIGN HIGH-PERFORMANCE ROADS & PAVEMENTS

Transform fill materials to create stable roads, long lasting parking areas, and porous road shoulders with the GEOWEB® 3D load support system.

The soil confinement system eliminates problems resulting from unpaved road surface rutting, paved road subgrade material instability and torsional failure.

This engineering design package will equip you with tools & resources to design higher-performing roads & pavements.

Learn About GEOWEB Load Support

See how the System Works

Learn how the GEOWEB 3D Stabilization System works—and how it can work for your project.

- [Overview Brochure](#)
- [Visit our Photo Gallery](#)
- [See Project Case Studies](#)
- [Watch Webcast Presentations](#)





Load Support Key Applications



UNPAVED ROADS & PAVEMENTS



BASE STABILIZATION



ROAD SHOULDERS

PRESTO

GEOSYSTEMS®

Design Resources
for your project



COMPARE

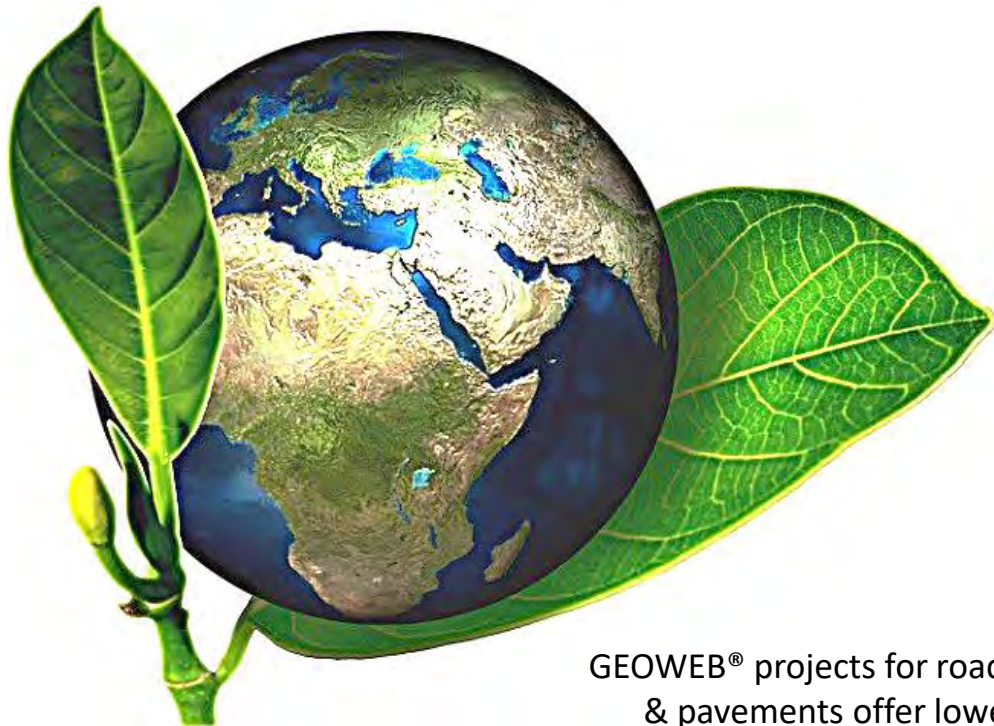
GEOWEB 3D Stabilization to 2D Geogrids>>



PRESTO



Design Resources
for your project 



GEOWEB® projects for roads
& pavements offer lower
environmental impact than
alternative solutions.

Environmental Benefits

[Download the Green Sheet >>](#)



Energy Use



Resource Savings



Land Use



Water Benefit

Development of 3D Geocells

Presto developed 3D geocells nearly 4 decades ago with the US Army Corps of Engineers. The original application was to provide fast access roads across dry sand beaches.

Since then, Presto has catapulted the geocellular technology into new landscapes, applications and markets.

The GEOWEB® system is the original—and most advanced geocell on the market.

- [Learn about development of geocells >>](#)



Create a Specification

Fast & Easy Specification Tools

Create your own custom specification or use industry-standard specifications from ARCAT.com and CADdetails.com

SPECMaker® Tool

[Create a Custom CSI Spec in Minutes](#)

[CSI Specification \(Word doc\)](#)

[Specification Summary](#)

Industry Specifications

[ARCAT](#)

[CADDetails](#)



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CAD Detail Drawings

Design Resources
for your project



Cross-Section Drawings

Find all the drawing details you need to include in your contract documents.

[CAD Drawings](#)

Industry CAD Details

[ARCAT](#)

[CADDetails](#)



PRESTO



Watch Videos

Design Resources
for your project



See Product in Action



[Visit our Video Gallery >>](#)

[Watch Simple Installation Video >>](#)

[See a Roadbase Project >>](#)

[See a Yard Stabilization Project >>](#)



Free Project Evaluation

Assistance with Your Design

We can provide design support for your project. Take advantage of our technology experience and let us perform a free evaluation for your GEOWEB® project.

[Request Free Project Evaluation](#) (online form)

[Download the Request Form](#) (Word fill form)



Surface Stabilization



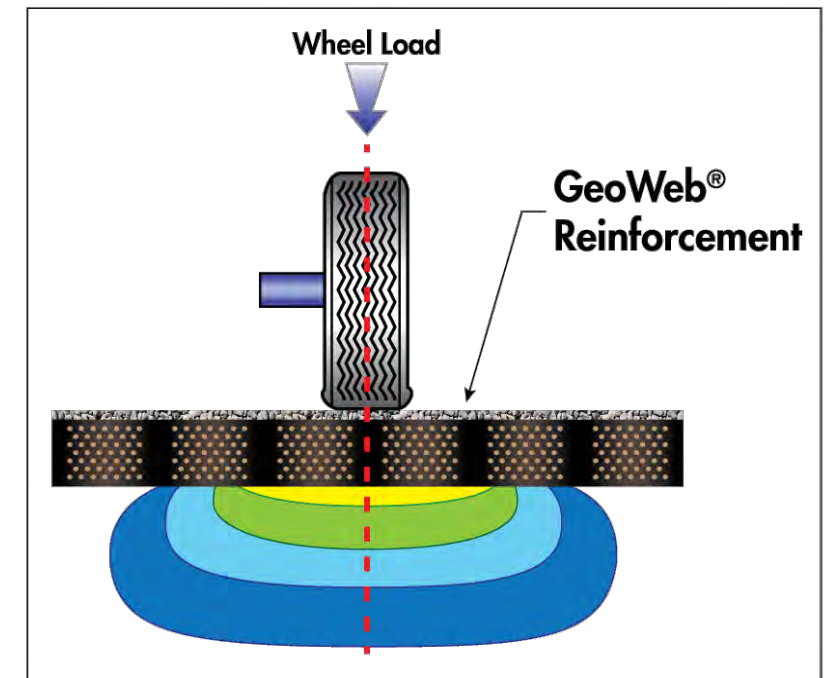
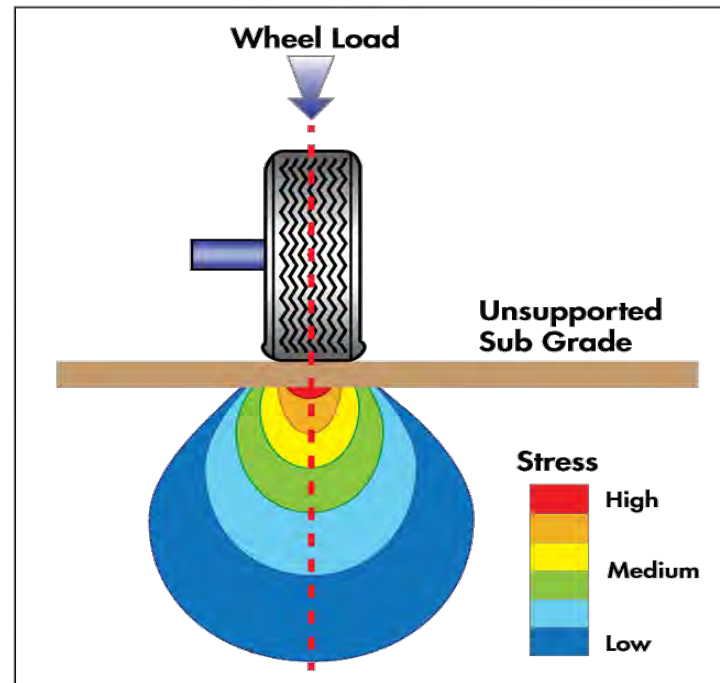
Base Stabilization



Evaluate how the 3D Confinement Technology Works

Learn about the technical details, and design considerations and methods of GEOWEB confinement.

Read Comprehensive
Technical Overview>>



Under concentrated or distributed loads, the GEOWEB® 3D cellular structure confines infill material and controls shearing, lateral and vertical movement of the infill material.

PRESTO



System Accessories

Design Resources
for your project



Fully Integrated for Performance Ensure your project holds up under any condition.

GEOWEB® projects are designed with connection and anchoring components for a 'complete system' solution.

- Weather-resistant, high-strength ATRA® connection keys.
- Corrosion-resistant and weather-resistant ATRA® anchors.
- Fast anchor driving tools.

See How the System
Components Work



Transforming Markets & Industries

Learn how the GEOWEB® 3D
soil confinement system's
versatility and capabilities will
benefit your project's
performance in a wide range
of applications and industries.



PRESTO



Heavy Loading

Site Access Roads

- Design fast-built access roads to sites, even in remote areas.
- Use salvaged or low-quality aggregate fill and up to 50% less base.
- One layer solution, even over soft subgrades.

LEARN MORE 



Surface Stabilization

PRESTO



Heavy Loading

Roadbase

- Design pavements to reduce deflection and settlement that cause rutting, potholes and pavement degradation.
- Build a stronger base that extends pavement life, even over soft subbase soils.
- Use 50% less cross-section through the strength characteristics of confined aggregate.

LEARN MORE 



Base Stabilization

PRESTO



Heavy Loading

Oil & Gas Roads & Pads

- Build access road to energy sources that are fast to deploy, even to remote locations.
- Use salvaged or low-quality aggregate fill.
- All-weather HDPE material allows construction 365 days a year.



LEARN MORE



Surface Stabilization

PRESTO



Heavy Loading

Wind Energy Roads & Pads

- Support heavy trucks and equipment across undeveloped, soft ground for wind farm construction and maintenance.
- Create stable staging areas and crane pads for wind tower and turbine installation.
- Use up to 50% less fill—even low-quality aggregate or sand.

LEARN MORE



Surface Stabilization

PRESTO



Heavy Loading

Airports

- Design to stabilize pavement base or reinforce shoulders for runways and taxiways.
- Reduce deterioration of overlying asphalt and concrete pavements.
- Create a stabilized drainage layer to capture de-icing liquid runoff.

LEARN MORE 



Base & Surface Stabilization

PRESTO



Heavy Loading

'Power' Concrete Roads & Pavements

- Design stronger concrete roads and pavements that exhibit the flexibility of articulating permeable pavers and the strength of hard-armored concrete slabs.
- No formwork and reinforcement required.
- Reduce pavement costs 15-25%.

LEARN MORE



Surface Stabilization

PRESTO



Heavy Loading

Mine Haul Roads

- Design haul roads to support heavy loaded mining trucks with faster cycle times, lower rolling resistance & higher fuel savings, and reduced tire wear & maintenance.
- Fast deployment even to remote locations.
- Use waste rock or low-quality aggregate fill.
- All-weather road materials allow working year round in any temperature or soil condition.

[LEARN MORE](#) 



Surface Stabilization

PRESTO

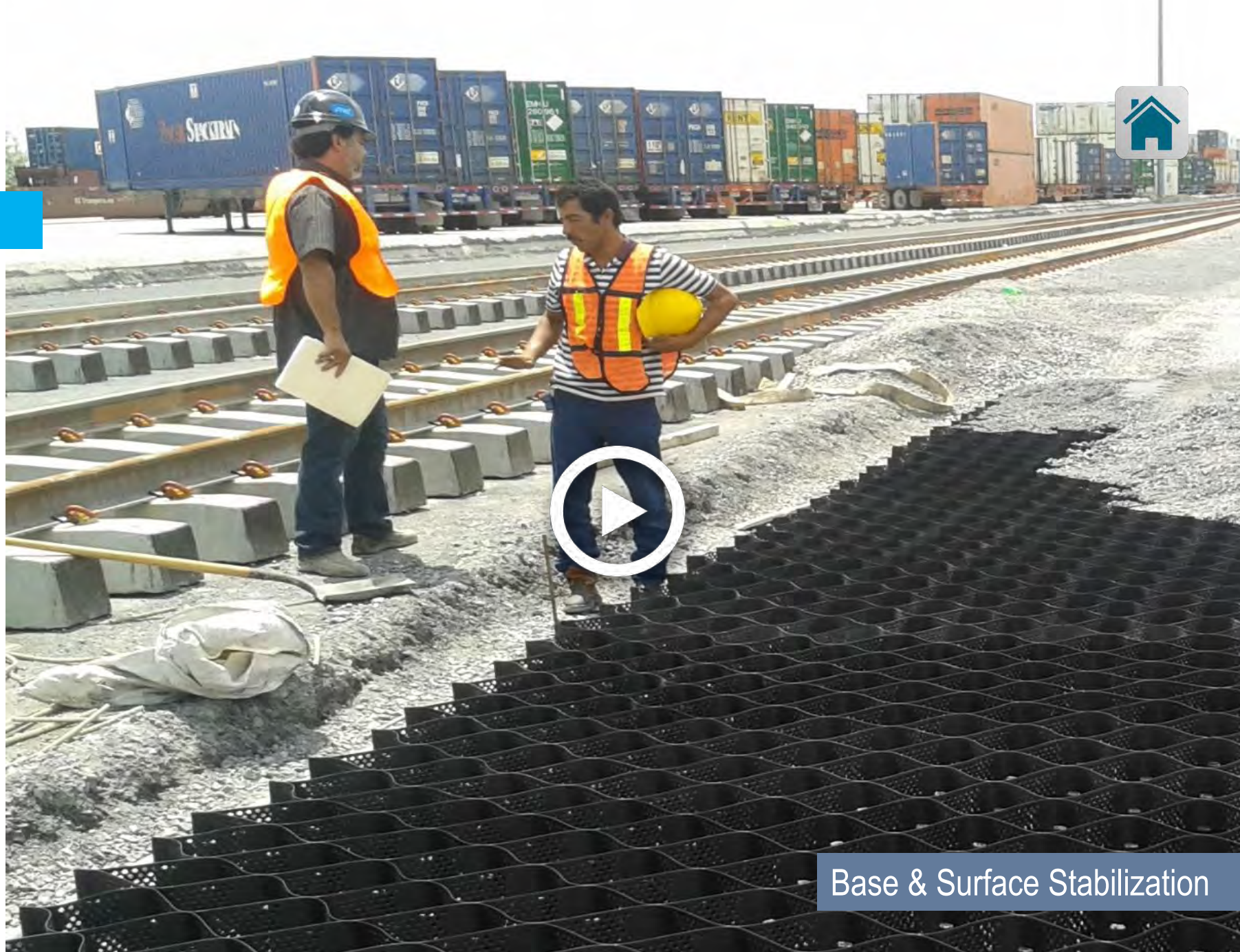


Heavy Loading

Port & Intermodal Yards

- Design stable pavements to support heavy container traffic.
- Solve surface stability problems inherent with unpaved yards (deep ruts, potholes) with durable, aggregate & permeable pavements.
- Place under asphalt & concrete pavements to resist base settlement with 50% less base materials.

LEARN MORE 



Base & Surface Stabilization

PRESTO



Heavy Loading

Rail Ballast

- Stabilize and stiffen the track ballast layer more efficiently than 2D geogrids, especially in soft soil areas.
- Eliminate differential settlement problems at x-ings, wyes, and frogs.

[LEARN MORE](#)



Accredited Performance

- Extreme field testing and research at TCI and Oregon State University and SmartRock testing at U Kansas.

See the Accredited
Research >>



Base Stabilization

PRESTO



Medium-Heavy Loading

Permeable Pavements

- Design highly-porous pavements to manage stormwater onsite and reduce runoff.
- Meet stormwater regs and low impact development (LID) and green infrastructure (GI) goals.
- Design with open-graded aggregate for maximum infiltration—the pavement layer and base act as a stormwater detention 'basin'.

LEARN MORE



Water Flow



Surface Stabilization

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Medium-Heavy Loading

Road Shoulders

- Design stable road shoulders to eliminate problematic low and soft shoulders, erosion areas and rutting.
- Lower typical maintenance up to 3X.
- Protect sealed pavement from deterioration and edge breaks.
- Use aggregate or topsoil for vegetated shoulders.



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Surface Stabilization

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GEOSYSTEMS®



Light-Medium Loading

Multi-Use Trails

- Build permeable, stable trail surfaces with 3D confined fill.
- Design for pedestrian, equestrian, ATVs, bicycles and vehicle loading.
- Build across soft soils and environmentally-sensitive areas with minimal disturbance.



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Surface Stabilization

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Light-Medium Loading

Tree Root Protection

- Protect a tree's Critical Root Zone from compaction and root damage from construction equipment or access vehicles.
- Design to protect trees in soft soil areas or where no-dig restrictions apply.

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Surface Stabilization



Your Project is Important. See How We Can Help.

THE PRESTO ADVANTAGE

See how our advanced, adaptable geocells, porous pavers and mats put your project on track for success, and keeps your projects on time and on budget.

[WATCH THE VIDEO](#)



Customized Technical Presentations

Learn more about how the
GEOWEB® 3D technology can
work on your upcoming
projects.

Learn & Earn PDH
Credits.

[SCHEDULE a Lunch & Learn Presentation >>](#)



Local Support Get an Estimate

Our global network of distributors and representatives will work with you to provide a price estimate.

[Find Local Distributor/Rep >>](#)





PRESTO

GEOSYSTEMS®

GEOWEB®

Load Support System

Design with Certainty.

Get answers to your questions and help with your design. Our solution will be tailored for your unique project and site challenges. You can rely on our experience, tools & resources to help you create a quality design package.



**Certainty and Peace of Mind—
from project start to finish.**

Contact Us 1-800-548-3424 | www.prestogeo.com

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