GEOWEB®
Channel Protection System

Construction
Resource Package

Channel Stabilization
Install Resources

What You Will Find

Learn About GEOWEB® Channel Protection

Complete System Accessories
  • ATRA® Keys
  • ATRA® Anchors & Drivers
  • Tendons & ATRA® Tendon Clips

Installation Resources + Video
  Watch How-To & Project Videos

Evaluate Your Site

Construction Training & Oversight

See Markets & Industries

Get a Material Estimate

Support resources for a successful project.
What is the GEOWEB System?

Get Familiar with the 3D System
See how the GEOWEB® system is installed for channel protection:

- Overview Brochure
- Visit our Photo Gallery
- See Project Case Studies
Channel Infill Options

VEGETATED CHANNELS

AGGREGATE CHANNELS

CONCRETE CHANNELS
All Weather Material

GEOWEB® projects are installed in extreme temperatures and weather—from the coldest to the hottest regions of the world.

Rain or snow—keep your crews working through any weather condition.
Are these Accessories on your Project?

ATRA® Keys
Fast Section Connection
Download Spec

ATRA® Anchors
Corrosion-Resistant Anchors
Download Spec

ATRA® Drivers
Fast Anchor Driving Tool
Download Spec
Fastest Way to Connect GEOWEB Sections

ATRA® Keys
Connect GEOWEB Sections Fast & Efficiently
Faster than Stapling & Non-Corrosive
Side to side and end to end connections

3X Faster than Stapling Operations
The Key to Getting the Job Done Faster & Safer!

See how ATRA® Keys outperform stapling 3:1 and will give you the time advantage on your project.

See the time lapse video >>

Download the Comparison>>

COMPARE
Installation Speed of ATRA® Keys vs. Stapling

ATRA Key Connector

Stapling Operations
ATRA® Anchors & Drivers
Corrosion-Resistant Anchors
Speed Stakes & Glass-Fiber Reinforced
Strongest hold-down; most secure cell wall connection.

10X Faster Driving Tool than sledge hammering
Fully Integrated for Performance

GEOWEB® projects may require tendons and ATRA® Tendon Clips as critical integrated components for securing sections over steep slopes, soils that are difficult to penetrate with anchors, and over impervious liners.

See How to Install Tendons & ATRA Tendon Clips
Watch Short Install Videos
See how the GEOWEB® channel system is installed in this quick step-by-step overview of the construction steps.

Channels with Anchors
Channels with Tendons & Tendon Clips
Review Installation Sequence

The GEOWEB® system is fast & easy to install. See simple installation in this step-by-step overview guide.

- Channels with Anchors
- Channels with Tendons & Tendon Clips

Want to Learn More?

- Read the Full Installation Guide

Secured with
ATRA® Anchors

Secured with
Tendons & ATRA® Tendon Clips
Our 40+ Years Experience Will Help You on Your Project

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

We developed the technology and advanced the technology.

We have the knowledge & experience to help you solve your site problems.

- Learn about development of geocells >>
See Product in Action

Watch Videos

Visit our Video Gallery >>

Watch Cross-Section Animation>>

Watch Simple Installation Video >>
(Anchors)

Watch Simple Installation Video >>
(Tendons & Tendon Clips)

See Colorado Canal Project Installation>>
Can it handle your Site Problems?

Let Us Evaluate Your Project

Your site has problems.

Scour, undermining and erosion problems caused by intermittent or continuous flows and insufficiently protected subgrades. Pore water pressure. Wash out of unconfined material. Unprotected liners. Storm events.

Will our solution work?

We can arrange a meeting to discuss your site and evaluate the feasibility of our solutions for your site challenges.

Email info@prestogeo.com to request a site evaluation.
Can we help Train your Crews?

Learn Efficient Techniques
Before You Install
Pre-Construction Training.
Construction Oversight.

We can arrange to train your crew before installation—with pre-construction meetings and demos—and be there for on-site support during construction.

Email info@prestogeo.com to request construction site support.
Transforming Markets & Industries

See GEOWEB® projects in action in a variety of applications & industries.
• Build naturally-vegetated channels to protect low-flow drainage swales in place of maintenance prone rip rap.

• Build GEOWEB vegetated channels adjacent to parking lots and roads for natural runoff infiltration.

• The GEOWEB/TRM system can withstand velocities as high as 30 ft/s (9 m/s) and 16 psf shear stresses=7.5 times greater than unprotected channels.
Build deep multi-layered vegetated channels to maximize stormwater volume and mitigate flooding potential.

Build vegetated channels for natural aesthetics instead of costly, higher-maintenance rip rap.

Lower Cost Than Rip Rap
Streambanks
Natural Vegetation

- Build naturally-vegetated streambank embankments to resist erosive forces caused by water fluctuations and storm events.
- Protect culvert outfall area from scour and erosion caused by short-term, high-velocity flows & turbulence with naturally-vegetated upper embankments.
- Integrate coir fabric wrapped around the channel face to resist infill loss.
Build low-flow conveyance channels and drainage ways with aggregate.

Reduce bank erosion from water fluctuations and wave chop.

Use decorative angular rock for aesthetic appeal.

Stormwater Conveyance
Aggregate

Less Washout
Confined Rock is Stable
Peak Conveyance Aggregate

- Build flood control channels to accommodate high flow conditions during peak storm events.
- Aggregate fill offers low maintenance channel with lower cost, smaller particle size.

Smaller Rock
Replace Larger, Expensive Rock
Stormwater Channels
Mixed Infill

- Build space-constrained flood control channels with deep, narrow profiles to contain higher stormwater volume during peak events.
- Seamlessly integrate a single-layered vegetated upper embankment with tiered, hard-armored wall to the high water level for maximum resistance.
• Build hard-armored canals to protect liners, resist freeze-thaw expansion and contraction issues.

• Build low-maintenance ‘flexible’ concrete channels to flex and conform to minor subgrade movement without cracking.
Build hard-armored channels adjacent to parking areas to control/capture runoff.

Lower cost solution than reinforced or articulated concrete block systems—No additional formwork or reinforcement required.
Golf Courses

- Build concrete spillways at golf courses to direct stormwater flow to ponds.
- Protect pipe discharge areas with hard-armed system.
- More economical solution than reinforced concrete or articulated concrete block systems.

Flexible Form
No Extra Reinforcement
Mines

- Build flexible, hard-armored drainage & diversion channels to convey higher flowrates across tailings on mine sites.
- Use on-site aggregate fill and reduce rock size 10X for large project savings.
Railroads
Stormwater Channel

- Build hard-armored flood control channels at rail sites to convey high flowrates and mitigate flooding potential.
- Protect impervious liners with a tendoned anchoring system (no puncturing anchors).

Save $ on Each Project
Fast Placement without Extra Reinforcement
Presto Geosystems

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
What is the Price?

Get an Estimate

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

Find Local Distributor/Rep >>
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