



GLOBAL LEADER • GLOBAL PARTNER



*creating  
sustainable  
environments™*



# The GEOWEB® System *mining*

APPLICATION OVERVIEW

*our commitment:  
providing the highest quality  
products/solutions*

*stabilization and protection solutions for the mining industry*



**GEOWEB®**

**PRESTO GEOSYSTEMS** works together with the mining industry and their consultants to solve specific soil stabilization problems.

The Geoweb® system is used to develop unique and cost-effective solutions that solve problems in load support, slope and channel stabilization, dike and lagoon protection, pipeline support and protection, and earth retention.

The Geoweb® system resolves problems in all phases of the mining operation:

- Developing and establishing new mining operations.
- Supporting mining operation activities.
- Facilitating mine closure.
- Site remediation.

## **GEOWEB® load support system**

The Geoweb® load support system strengthens and stabilizes granular infill materials, providing load distribution in the following key areas:

- Base stabilization over weak soils or under paved surfaces.
- Surface stabilization for unpaved aggregate surfaces.
- Temporary stabilization for site access and equipment mobilization.

### **APPLICATION AREAS**

- Access roads into and around all mining operation areas.
- Base improvement for pavement areas subjected to all types of equipment loading.
- Surface pipeline protection from dynamic loading of rock-falls.
- Tailings containment.
- Leachate collection systems in Heap-leaching operations.

## **GEOWEB® slope stabilization / protection system**

The Geoweb® slope protection system effectively solves challenging slope-surface stability problems while meeting a wide range of performance and aesthetic requirements. The system provides a means of fully-vegetating slope surfaces that otherwise could not support sustainable plant life. Single or multi-layered systems offer a broad range of surface protection treatments.

The system provides long-term stability and effectiveness of both vegetated and armored slope surfaces in the following key areas:

- Upper soil mass stabilization and erosion control.
- Geomembrane protection (armored or vegetated).
- Slope weather proofing / Unique slope drainage.

### **APPLICATION AREAS**

- Stabilization of slopes created through cuts or fills.
- Dam face stabilization.
- Process and waste water lagoons.
- Hazardous waste confinement.
- Pipeline support protection.





## **GEOWEB® channel stabilization / protection system**

The Geoweb® channel protection system uses a wide variety of infill materials to develop solutions for open channels and hydraulic structures. The system:

- Provides protection and stabilization for continuous or intermittent flow channels exposed to all types of conditions.
- Provides flexible armor protection with concrete infills.
- Provides stable vegetated channels with proper components.

### **APPLICATION AREAS**

- Surface storm water diversion channels.
- Surface process water channels.
- Movement of tailings/waste materials.
- Environmental remediation creating natural channels.

## **GEOWEB® earth retention / free standing wall system**

The Geoweb® earth retention system offers structural stability with the distinct advantage of a sustainable, completely vegetated facia. Flexible stabilized soil systems:

- Withstand significant differential settlement without loss of structural integrity.
- Withstand most seismic events.
- Can use on-site materials many times.
- Can be constructed in remote areas without specialized equipment.

### **APPLICATION AREAS**

- Steepened embankment stabilization in areas with limited site access.
- Road cut and fill stabilization through mountainous areas.
- Berm protection and stabilization of tailings/waste containment lagoons.
- Natural free-standing site barrier walls.
- Free-standing walls for systems and personnel protection against ballistics.



# GEOWEB® soil stabilization/ protection system

- Geoweb® sections are manufactured from specialized high-density polyethylene in a variety of cell sizes, cell depths and section lengths to meet project requirements.
- The three-dimensional structure of inter-connected cells dramatically improves the stability of infill materials through confinement.
- A variety of infill materials — from topsoil and sustainable vegetation to aggregate of all types and concrete are used to develop the system and required solutions.
- Integral system components may include geotextile, geomembrane, geogrid, tendons, and anchors.
- The fully-engineered system offers cost-effective solutions in load support, slope protection, channel protection, earth retention, and many other areas of mine operations.
- With close to 30 years of successful in-ground applications, the Geoweb® system is a proven solution for many stabilization and protection needs.



## PRESTO GEOSYSTEMS' COMMITMENT — *To provide the highest quality products and solutions.*

Presto Geosystems is committed to helping you apply the best solution to your mining operation requirements. Rely on the leaders in the industry when you need a solution that is right for your application.

Contact Presto Geosystems or Presto Geosystems' worldwide network of knowledgeable distributors / representatives for assistance with your soil stabilization needs.



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