The GEOWEB® earth retention system adapts to a wide range of design requirements and site conditions. The system’s inherent flexibility, unique load deformation behavior, and ability to conform to reasonable differential settlement make it suitable for a wide range of infill materials and foundation soils, including:

- Topsoil with various selected vegetation
- Granulic materials (sand, gravel or graded stone)
- Geocomposite drainage materials
- Geosynthetic reinforcement
- Subdrain

**Key components**

The complete GEOWEB® earth retention system may include some or all of the following:

- **GEOWEB®** sections
- Cell infill and backfill materials
- Geotype and/or geosynthetic reinforcement
- Subdrain

**Comprehensive tools and services**

Presto GEOSYSTEMS® and our distributors/representatives offer the most complete services in the industry to support project design and installation requirements.

**Tools:**
- Technical assurance binder
- Engineering analysis/technical overview
- **SPECMaker** specification development tool
- Project case studies
- Detailed construction instructions

**Services:**
- Project Evaluation Service: We analyze specific project needs and provide recommended preliminary designs for each project.
- Construction Services: Qualified on-site field support specialists can be available for construction training and start-up installation supervision.

**Unsurpassed Quality**

Presto’s commitment to quality begins with manufacturing and continues through final installation.

- Quality management system certified to ISO 9001:2008 and CE certification.
- Sections manufactured from high-quality polyethylene provide consistent and maximum seam weld strength.
- Materials engineered to established geosynthetic industry guidelines.
- Sections backed by a 10-year limited warranty.

**Application Overview**

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GEOWEB® earth retention solutions

LOW-COST RETAINING WALL SYSTEMS

The GEOWEB® earth retention system provides an economical, structurally-sound, green alternative to conventional retaining wall systems. The GEOWEB® system meets all design requirements while providing desired aesthetics through a terraced face where vegetation can flourish, creating a natural living wall.

aesthetics of sustainable vegetation

The multi-layered GEOWEB® system features naturalistic terraces with exposed rock fascia colors, creating a natural environment for selected sustainable vegetation. The vegetated system reduces stormwater runoff by allowing rain water to fall on the exposed horizontal soil surface, maximizing water collection.

low environmental impact

The highly permeable wall surface is a natural Low Impact Development (LID)/Best Management Practice (BMP) for reducing stormwater runoff and managing stormwater on site. The multi-layered GEOWEB® system meets all design criteria and construction requirements, seeking to reduce site disruption, reducing the heat island effect and for stormwater quality and quantity control.

natural-colored facing

Standard wall sections are available with green, tan, or black fascia colors to blend with natural environments. The polyester is a chloride-free material that resists lateral pressures and maintains structural integrity, ensuring system durability and quality performance to meet typical engineering requirements.

wall selection criteria

The GEOWEB® earth retention system can be designed in a variety of wall configurations to meet specific site and reinforcement requirements. Selection of the wall type is influenced by the site soil conditions, space accessibility/ restrictions, availability of suitable backfill materials, project economics and the desired aesthetics of the completed wall. GEOWEB® retaining walls are suitable for FRP reinforcement support, and can be designed for a broad range of infill, backfill, ground water and exchange conditions.

GEOWEB® wall structure types

The flexible nature of GEOWEB® retaining walls makes them adaptable to specific applications and wall types, including:

- Steepened slopes
- Multi-layered channel systems
- Gravity retaining walls
- Geocomposite retaining walls
- Geocomposite retaining walls are utilized when earth reinforcement materials are included. The system is constructed as a layered gravity wall that meets lateral pressures and maintains structural integrity even when significant subgrade deformations occur.

GEOWEB®-gravity retaining walls are effective when space constraints do not allow the use of earth reinforcement materials. The system is constructed as a layered gravity wall that meets lateral pressures and maintains structural integrity even when significant subgrade deformations occur.

multi-layered channel systems

When applied in areas of anticipated high-volume water impact, GEOWEB® sections can be wrapped with coir fabric to reduce soil loss potential in the outer face while vegetation is being established, or infilled with large aggregate or concrete grout.