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
- Granular materials (sand, gravel, or granulated)
- Concrete

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

- GEOWEB® sections
- Cell fill and backfill materials
- Geocomposite drainage materials
- Geogrids and/or geosynthetic reinforcement
- Subdrain

### Key Components

**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 assistance
- Engineering analysis/technical overview
- SPEC®/A® 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.

**Presto GEOSYSTEMS® Commitment**

Presto GEOSYSTEMS® is committed to helping you apply the best solutions to your soil stabilization problems. Our suitably trained and approach to solving problems adds value to every project. Rely on the leaders in the industry when you need a solution that is right for your application. Contact Presto GEOSYSTEMS® or our worldwide network of knowledgeable distributors/representatives for assistance.

**Leading-Edge Innovation**

Presto is the original developer of the cellular confinement technology and leads the industry in research and development resulting in meaningful product improvements and enhancements, advanced engineering methodologies, and proven field results that provide long-term solutions to unique and difficult problems.

**Unmatched 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 soil/wall strength.
- Materials engineered to established geosynthetic industry guidelines.
- Sections backed by a 10-year limited warranty.

**Cost-Effective, Simple-to-Construct Option**

GEOWEB® retention structures are cost-competitive with conventional earth retention systems. The installed cost will vary with site-specific conditions, including but not limited to accessibility, soil conditions, cost of fill and compaction, labor rates, surcharge loading, and length of wall.

- Construction productivity can be greatly improved compared to conventional wall types.
- Flexible wall sections conform to differential settlement and allow natural conformances to landscape adjacencies and contours.
- Compact sections are easy to transport and construct in difficult access or remote locations.
- Allows use of aggregate to minimize hydrostatic conditions.
- Effective in higher velocity flow channel applications with large aggregate or concrete fill in outer cells.

**Application Overview**

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.

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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 horizontal textures with exposed core fascia cells, creating a natural environment for selected sustainable vegetation.

natural-colored facing

Standard wall sections are available with green, tan, or black fascia colors to blend with natural environments. The polymerethene is chalky white stabilized to meet color facing, and increase system durability and quality performance to meet typical engineering requirements.

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

- steepened slopes
- gravity retaining walls
- multi-layered channel systems

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 F/A and reinforcement support, and can be designed for a broad range of soil, backfill, ground water and exchange conditions.

geocomposite retaining walls

GEOWEB® geocomposite retaining walls are utilized when earth reinforcement materials are included. The system creates a fully confined wall facing that resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur. The multi-layered configuration tolerates differential settlement without loss of system integrity and provides a near-vertical profile, reducing valuable land use.

gravity retaining walls

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 pressure and maintains structural integrity even when significant subgrade deformations occur.

multi-layered channel systems

GEOWEB® sections layered along channel side slopes with vegetation, or fill, offer mixed appearance, stability and protection to channels exposed to erosion conditions ranging from low-to-high flows, either intermittent or continuous. This multi-layered configuration tolerates differential settlement without loss of system integrity and provides a near-vertical profile, reducing valuable land use when applied in areas of anticipated high-velocity 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 granular infill.
The GEOWEB® system adapts to a wide range of design criteria and construction requirements, meeting site challenges even when subgrade soils are compressible. With a high percentage of open area, ability to use natural fills and efficient transportation of materials, the GEOWEB® system is an aesthetically fitting solution for a wide variety of retaining walls.

aesthetics of sustainable vegetation

The multi-layered GEOWEB® system features natural textures with exposed soils that allow vegetation to flourish, creating a natural environment for selected sustainable vegetation. The natural-colored facing standard wall sections are available with green, tan, or black fascia colors to blend with natural environments. The polymer core is chemically resistant and durable and increases system durability and quality performance to meet typical engineering requirements.

low environmental impact

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control. The permeable wall surface is a natural Low Impact Development (LID)/Best Management Practice (BMP) for reducing stormwater runoff and managing stormwater on-site. 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. GEOWEB® 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 resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur.

natural-colored facing

Standard wall sections are available with green, tan, or black fascia colors to blend with natural environments. The polymer core is chemically resistant and durable and increases system durability and quality performance to meet typical engineering requirements.

GEOWEB® retaining walls are suitable for fill and embankment structures, as well as for steepened slopes. Geoweb® geocomposite retaining walls are utilized when earth reinforcement materials are included. The system creates a fully confined wall facing that resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur. Geoweb® sections layered along channel side slopes with vegetative infill offer a natural appearance, stability and protection to channels exposed to erosive conditions ranging from low-to-high flows, either intermittent or continuous. This multi-layered configuration tolerates differential settlement without loss of system integrity and provides a near-vertical profile, reducing valuable land use.

wall selection criteria

The GEOWEB® 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 T-bar and embankment support, and can be designed for a broad range of fills, backfill, ground water and exchange conditions.

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 resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur. GEOWEB® sections layered along channel side slopes with vegetative infill offer a natural appearance, stability and protection to channels exposed to erosive conditions ranging from low-to-high flows, either intermittent or continuous. This multi-layered configuration tolerates differential settlement without loss of system integrity and provides a near-vertical profile, reducing valuable land use.

GEOWEB® multi-layered channel systems

When applied in areas of anticipated high-wash 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 infiltrated with large aggregate or concrete gravel.
GEOWEB® earth retention solutions
LOW-COST RETAINING WALL SYSTEMS

The GEOWEB® retaining wall 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.

GEOWEB® earth retention systems are adaptable to a wide range of design criteria and construction requirements, meeting site challenges even when subgrade soils are compressible. With a high percentage of open area, ability to use coarse fills and efficient transmission of materials, the GEOWEB® system is an aesthetically-sound solution for a wide variety of retaining walls.

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 tie-back and embankment support, and can be designed for a broad range of soils, backfill, ground water and discharge conditions.

ecosystems and the desired aesthetics of the completed wall. GEOWEB® retaining walls are suitable for tie-back and embankment support, and can be designed for a broad range of soils, backfill, ground water and discharge conditions.

natural-colored facing

Standard wall sections are available with green, tan, or black fascia colors to blend with natural environments. The polyethylene is ultraviolet-light-stabilized to resist color fading, and black fascia colors to blend with natural environments. The polyethylene is ultraviolet-light-stabilized to resist color fading, and black fascia colors to blend with natural environments.

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

GEOWEB® retaining walls are suitable for tie-back and embankment support, and can be designed for a broad range of soils, backfill, ground water and discharge conditions.

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

aesthetics of sustainable vegetation

The multi-layered GEOWEB® system features horizontal terraces with exposed surface fascia cells, 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.

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

low environmental impact

The high-permeable wall surface is a natural Low Impact Development (LID)/Rainwater Management Practice (RMP) for reducing stormwater runoff and managing stormwater on site. The highly permeable wall surface is a natural Low Impact Development (LID)/Rainwater Management Practice (RMP) for reducing stormwater runoff and managing stormwater on site.

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standard walls

GEOWEB® retaining walls are suitable for fill and embankment stabilization, and can be designed for a broad range of infill, backfill, ground water and discharge conditions.

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 with a fully confined wall facing that resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur.

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

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GEOWEB® 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 with a fully confined wall facing that resists lateral pressures and maintains structural integrity even when significant subgrade deformations occur.

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

multi-layered channel systems

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

- Steepened slopes
- Geocomposite retaining walls
- Gravity retaining walls
- Multi-layered channel systems

GEOWEB® retaining walls can contribute to LEED® green building credits for reducing site disruption, reducing the heat island effect and for stormwater quality and quantity control.

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multi-layered channel systems

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The GEOWEB® system is suitable for a wide range of infill materials and foundation abilities to conform to reasonable differential settlement making it inherently flexible, unique load deformation behavior, and of design requirements and site conditions. The system’s concrete, granular, topsoil, and asphaltic drainage materials are engineered to established geosynthetic industry standards and CE certification. Materials are manufactured from high-quality polyethylene and backed by a 10-year limited warranty.

**Applications**

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

- **GEOWEB® sections**
- **Cell fill and basefill materials**
- Geopنصر and/or geotextile reinforcement
- **Subbase**

**Key components**

**Comprehensive tools and services**

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

**Tools**

- Technical resource binder
- Engineering services/technical seminars
- **SPEC®/Geosys** specification development tool
- Project case studies
- Detailed construction instructions

**Presto GEOSYSTEMS® Commitment** — To provide the highest quality products and solutions.

Presto GEOSYSTEMS® is committed to helping you apply the best solutions to your soil stabilization problems. Our state-of-the-art approach to solving problems adds value to every project. Rely on the leaders in the industry when you need a solution that is right for your application. Contact Presto GEOSYSTEMS® or our worldwide network of knowledgeable distributors/representatives for assistance.

**LEADING-EDGE INNOVATION**

Presto is the original developer of the cellular confinement technology and leads the industry in research and development resulting in meaningful product improvements and enhancements, advanced engineering methodologies, and proven field results that provide long-term solutions to unique and difficult problems.

**Cost-effective, simple-to-construct option**

GEOWEB® retention structures are cost-competitive with conventional earth retention systems. The installed cost will vary with site-specific conditions, including but not limited to accessibility, soil conditions, cost of cell and components, labor rate, surcharge loading, and length of wall.

- Construction productivity can be greatly improved compared to conventional wall forms.
- Flexible wall sections conform to differential settlement and allow natural conformance to landscape obstructions and contours.
- Compact sections are easy to transport and construct in difficult access or remote locations.
- Allows use of aggregate to minimize hydrostatic conditions.
- Effective in higher velocity-flow channel applications with large aggregates or concrete fill in valve cells.

**Cost-effective**

**Flexible Design Solution**

- GEOWEB® earth retention systems adapt 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
  - Geotextile materials (bark, gravel, or gravel/stone)
  - Concrete of various strengths and surface finishes

**Cost-Effective, Simple-to-Construct Option**

**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.

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

• GEOWEB® sections
• Cell fill and backfill materials
• Geosynthetic drainage materials
• Geogrids and/or geosynthetic reinforcement
• Subdrain

The system’s inherent flexibility, unique load deformation behavior, and ability to conform to measurable differential settlement make it suitable for a wide range of infill materials and foundation soils, including:

• Topsoil (with various selected vegetation)
• Granular materials (sand, gravel or graded stone)
• Concrete
• Large aggregate or concrete infill in outer cells.

Effective and contours. allow natural conformance to landscape obstructions

Flexible Construction

Construction productivity can be greatly improved compared to conventional wall forms.

Flexible wall sections conform to differential settlement and allow natural conformance to landscape obstructions and contours.

Compact sections are easy to transport and construct in all-weather conditions.

Allows use of aggregate to minimize hydrostatic conditions.

Effective in higher velocity-flow channel applications with large aggregates or concrete fill in outer cells.

comprehensive tools and services

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

TOOLS:

• Technical resources binder
• Engineering analysis/technical overviews
• SPEC®/V® specification development tool
• Project case studies
• Detailed construction instructions

SERVICES:

Preconstruction Services: 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 post-installation supervision.

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F.D. Box 2399
670 North Perkins Street
Appleton, Wisconsin 54912-2399, USA

P: 920-738-1222
F: 920-738-1282
T: 800-548-3424
E: info@prestogeo.com
www.prestogeo.com

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eco-economic solutions for vegetated retaining walls

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