



GEO SYSTEMS[®]
GLOBAL LEADER • GLOBAL PARTNER



*creating
sustainable
environments*[®]



GEOTERRA[®]
structural mat system

PRODUCT CATALOG

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

stabilizing challenging environments with reinforced surfaces

GEOTERRA[®]



GEOTERRA® structural mat system

Durable, Portable and Reusable Surface-Hardening Mat

The GEOTERRA® structural mat system is ideal as a ground-surface reinforcement layer to support loads over soft subgrades or for creating reinforced pavements in less-than-ideal environments.

More cost-efficient than other reinforcement mat systems, the GEOTERRA® system can be utilized for either temporary or permanent applications.

Individual GEOTERRA® units are locked together to form a network of interconnected structural mats suitable for supporting a wide variety of vehicle and equipment loads over access roads, platforms, helipads and other areas.

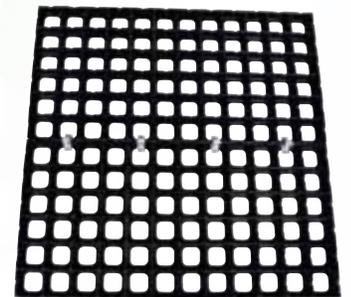
With high crush strength, the GEOTERRA® system has demonstrated the ability to handle the forces from some of the heaviest wheeled and tracked vehicle loads.



UNIT PROPERTIES

Physical details of the individual GEOTERRA® units used to form the top load-distribution/surface-wear layer:

GEOTERRA® UNIT PROPERTIES	
Length	0.96 m (3.15 ft)
Width	0.48 m (1.57 ft)
Depth	50 mm (2 in)
Area	0.46 m ² (4.95 ft ²)
Weight	4.1 kg (9 lb)
Material	Polyethylene Blend
Crush Strength	2,900 kPa (420 psi) Empty



TRADITIONAL MATS VS GEOTERRA® MATS



CUT TIMBER MATS

Environmental Impact: Negative
 Installation: Costly, Slow
 Design Flexibility: Moderate
 Reusability: Low-Medium
 Recycled Materials: Low-None



GEOTERRA® MATS

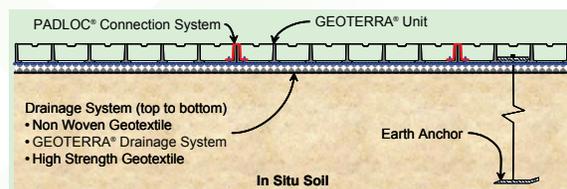
Environmental Impact: Low-None
 Installation: Economical, Quick
 Design Flexibility: High
 Reusability: High
 Recycled Materials: High

GEOTERRA® sections are lightweight, easy to handle, and require less labor for a given area.

INTEGRAL SYSTEM COMPONENTS

The GEOTERRA® system includes the GEOTERRA® units and PADLOC® connecting device. Depending on the design requirements, the system may also include the following components:

- non-woven and high-strength geotextile layers
- impermeable geomembrane layer
- stakes/earth anchors
- GEOTERRA® permeable drainage system



GEOTERRA® *system attributes*

VERSATILITY

The GEOTERRA® system provides benefits in a wide range of environments (system components may include geosynthetic layers and/or a drainage system):

- Prevents rutting of soils and protects turf
- Provides load support over poor/wet soils
- Prevents subbase degradation/contamination
- Allows access over sand
- Creates a uniform/stable surface
- Allows for an integrated, drainable surface

HIGH-STRUCTURAL STRENGTH

With a high crush strength, the GEOTERRA® structure is designed to support heavy vehicle loads over soft subgrades, as well as over areas where structural infill materials are unavailable or cost-prohibitive.

DESIGN FLEXIBILITY

The versatile GEOTERRA® system can be used with varying site-specific subgrade conditions and loading requirements. Flexible design options allow the complete system to accommodate the most-challenging site conditions. System components may include separation, filtering, drainage and other components.

CONSTRUCTION FLEXIBILITY

The versatile mat system allows for customizing the construction layout configuration to specific site needs with little to no waste. GEOTERRA® units can be pre-assembled into partial mats for transportation and installation efficiency.

PORTABLE & REUSABLE

Significantly lighter weight than other systems, the GEOTERRA® mat system is easily transported to even difficult-access sites and may be handled without special unloading equipment. The system can be disassembled, removed and reused at other locations.



typical applications

- Temporary or Permanent Use
- Access Roads over Soft Ground / Remote Locations
- Oil-drilling Platforms
- Construction Site Access
- Cemetery and Utility Access over Lawns
- Light-to-Heavy Equipment / Vehicle Storage
- Helipads
- Equipment / Vehicle Display at Expos and Special Events
- Emergency Site Access

GEOTERRA® system unique features

The GEOTERRA® structural mat system contains features that offer advantages over other conventional mat systems:



- **PADLOC® locking mechanism**, a connection device that provides high load transfer between units, and allows varying-sized mats to be assembled to meet specific project size. The mats can be unlocked to allow removal, reuse, and storage of the individual GEOTERRA® units.
- **polyethylene-blend material** is UV-stabilized, is inert to moisture, most chemicals, oils and mud, and can be cleaned for repeated use.
- **strong, light-weight design** beneficial for transporting even to remote sites.



environmental benefits

CONSERVES RESOURCES

- The GEOTERRA® mat system may be removed from sites, allowing total reclamation of an area after use. Depending on application and use, the mat system may be reused multiple times, conserving use of raw materials and eliminating waste.
- In remote forest areas, utilizing the GEOTERRA® mat system instead of traditional timber-based systems and methods preserves hundreds of acres of forest.

PERMEABLE SURFACE

- With open top and bottom cells, the GEOTERRA® structure's **permeable wearing surface** allows rain water to infiltrate the system. When an underlying drainage layer is part of the system, rainwater is captured and managed below surface, minimizing the accumulation of water and resulting saturated soils below the loading surface.

FLEXIBLE DESIGN AND CONSTRUCTION

Presto GEOSYSTEMS® technical team can evaluate information and make solution recommendations using the most effective combination of system components.



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 solutions-focused 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.



PRESTO GEOSYSTEMS®

P.O. Box 2399
670 North Perkins Street
Appleton, Wisconsin 54912-2399, USA

P: 920-738-1328

TF: 800-548-3424

F: 920-738-1222

E: info@prestogeo.com

www.prestogeo.com

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GT-O FEB 2012
Printed in the U.S.A.
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AP-5418-R1