



porous pavement solutions

RIGID PAVERS

GEOBLOCK®
grass pavers



GEOPAVE®
aggregate pavers

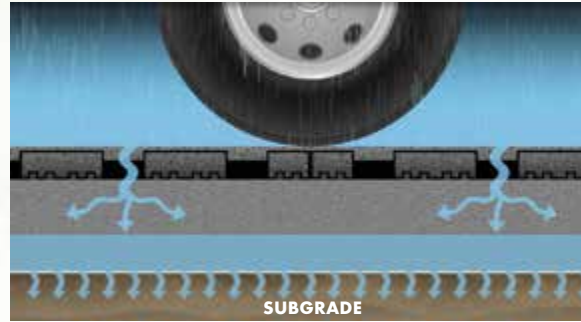


GEOBLOCK® & GEOPAVE®

POROUS PAVEMENT SYSTEMS

RIGID PAVERS DELIVER PERFORMANCE

Environmental regulations that control and limit stormwater runoff, reduce impervious surface, and increase green space have resulted in the growth of permeable pavements for traffic areas. Presto Geosystems manufactures two high-quality rigid pavers that offer numerous environmental and performance benefits over hard surface pavements.



POROUS PAVEMENT OPTIONS

The GEOBLOCK and GEOPAVE systems are both rigid porous pavements designed to handle the most demanding load support requirements while promoting natural stormwater infiltration, reducing runoff, and reducing the need for detention or retention ponds.

GEOBLOCK GRASS PAVERS

Robust design delivers exceptional protection to turf, resistance to torsional loading stresses and support for optimal growing medium.



GEOPAVE AGGREGATE PAVERS

Molded mesh bottom design spreads loads and keeps highly permeable aggregate confined for maximum stormwater infiltration and on-site storage.

Shown with SNAP delineators.





COMMON POROUS PAVEMENT APPLICATIONS

- Access Roads: Emergency, Maintenance & Utility Vehicles
- Roadways: Shoulders, Pull-off Areas
- Parking Areas: Daily, Overflow
- Trails & Walkways: Pedestrian Trails, Greenways, Barrier-Free Access
- Golf Courses: Cart Pathways & Edging, Tee Areas
- Residential: Driveways, Parking Areas, Camper & Boat Bays
- General: Event Areas, Pedestrian

AREAS OF USE:

- Condominiums & Housing Complexes
- Commercial Buildings
- Educational Campuses
- Parks & Nature Preserves
- Hospitals & Medical Centers
- Shopping Centers
- Sports Facilities
- Golf Courses
- Churches
- Residential





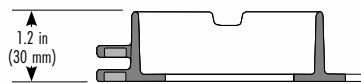
GEOBLOCK® & GEOBLOCK®5150

GRASS PAVERS FOR OCCASIONAL TRAFFIC

The industry's strongest and most proven, high-performance turf protection systems address all vehicle loading and stormwater requirements. The GEOBLOCK & GEOBLOCK5150 systems' engineered base material supports loading up to HS25, is highly permeable to maximize stormwater percolation and, with topsoil infill, offers an optimal growing medium for vegetation.

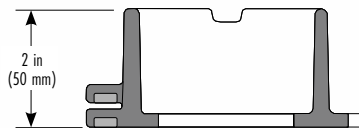


GEOBLOCK
1.2" wall height

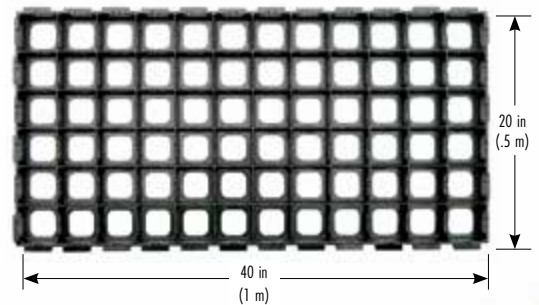


GEOBLOCK

GEOBLOCK5150
2" wall height



GEOBLOCK5150



GEOBLOCK & GEOBLOCK5150

PERFORMANCE POINTS

High Load Transfer & Flexural Strength

The large, rigid surface area with interconnected cell walls and strong interlocking connections offers the highest load transfer and flexural strength in the industry.

Resistance to Torsional Loads

The rigid design with shared walls and strong interlocking connections resists movement or breakage from vehicle turning stresses and torsional loading.

Resistance to Rutting

Interconnected cell walls spread point loads across the paver system with minimal 'flexing', eliminating potential for concentrated drive lane rutting.

Turf Performance

Deep, interconnected cells protect topsoil and grass from damage caused by repeated loading. Topsoil infill supports healthy grass that establishes faster, remains hardier, and performs better than systems with sand infill. The engineered base material contributes to good percolation, healthy grass growth, and long-term performance.

Low Base Requirements

Strong unit strength lowers installation costs by requiring less base depth than lighter-weight or rolled systems to achieve HS25 loading.



**GEOBLOCK Rigid Grass Pavers offer
SUPERIOR PERFORMANCE BENEFITS**

GEOBLOCK & GEOBLOCK5150

PERFORMANCE COMPARISON TO ROLLED PRODUCTS

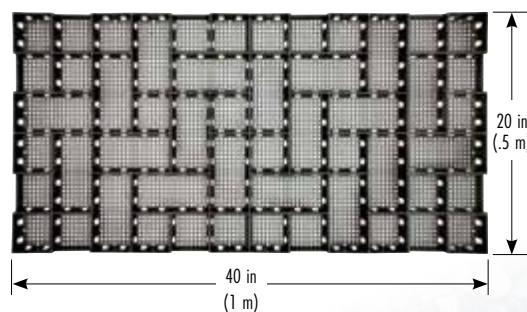
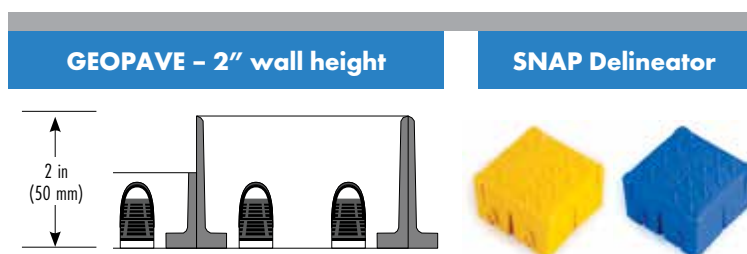
							
Performance Point	Load Distribution & Resistance to Torsional Loads	Resistance to Concentrated Rutting	Base Requirements	Medium for Vegetative Growth	Turf Protection	Turf Performance	Stormwater Infiltration
GEOBLOCK Rigid Pavers	✓ Contiguous pavement with shared walls offers highest load distribution and resistance to vehicle loading stresses.	✓ Interconnected cell walls spread point loads across the paver system for a high resistance to concentrated rutting.	✓ Higher paver strength results in higher performance with less base material. Less base = less excavation cost and less land disturbance. Paver units can even be driven on unfilled.	✓ Engineered base mix of clear stone/topsoil offers high percolation rate and an ideal medium for vegetative root growth. Grass establishes faster and remains hardier without additives.	✓ Deep, interconnected cell walls encapsulate and protect topsoil and grass from damage caused by repeated loading for optimal turf protection.	✓ Good turf protection, and topsoil infill and engineered base offer high percolation to support healthy grass. Grass establishes faster, remains hardier, requires less maintenance and performs better long term.	✓ Topsoil infill and engineered base offer a 5-10X faster percolation rate and better water storage capacity.
Flexible Rolled Systems	Disjointed cell walls flex under loading, offering lower load distribution and resistance to torsional stresses.	Flexible rolled systems flex upon loading, making them extremely prone to rutting.	Flexible rolled systems rely on sand infill and deeper base (up to 2X more) for strength.	Flexible systems require sand infill and roadbase to achieve strength—both poor growing mediums for vegetation.	The gaps between cells allow the pavement to flex under wheel loading, resulting in less protection to the turf.	Sand infill and road gravel base cannot sustain vegetation long term.	Sand infill and road gravel base offer a lower infiltration rate and storage capacity.



GEOPAVE®

AGGREGATE PAVERS FOR EVERYDAY TRAFFIC

The industry's only aggregate paver system designed from the ground up for aggregate infill. The GEOPAVE system's structural framework holds highly-permeable, open-graded base course in place through a unique herringbone cell pattern and monolithic mesh bottom. Strong connections create one contiguous pavement that is highly resistant to traffic loading and torsional stresses. The herringbone surface offers a paver-stone aesthetic and allows colored stone for design options and area differentiation. GEOPAVE pavements are a natural way to infiltrate and store stormwater on-site.



GEOPAVE

PERFORMANCE POINTS

High Load Distribution

A shared wall system, strong connection clips and load-spreading mesh bottom (snow-shoe effect) offers an industry-high load transfer capability.

Resistance to Torsional Loads

A shared wall system and strong connection clips create a contiguous framework that resists movement or breakage from vehicle turning stresses and torsional loads.

Resistance to Rutting

Interconnected cell walls spread point loads across the paver system with minimal 'flexing', eliminating potential for concentrated drive lane rutting.

Aggregate Containment

A monolithic mesh bottom design keeps aggregate infill contained and prevents the 'lifting' effect from granular fill downward migration.

Low Base Requirements

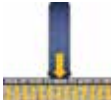
Strong paver strength lowers installation costs by requiring less base depth than lighter-weight or rolled systems to achieve HS25 loading.



**GEOPAVE Rigid Aggregate Pavers offer
SUPERIOR PERFORMANCE BENEFITS**

GEOPAVE

PERFORMANCE COMPARISON TO ROLLED PRODUCTS

						
Performance Point	Load Distribution	Resistance to Torsional Loading	Resistance to Concentrated Rutting	Aggregate Containment	Base Requirements	Storm water Infiltration
GEOPAVE Rigid Pavers	✓ Contiguous pavement with shared walls, strong connection clips, and load-spreading mesh bottom offers high distribution of vehicle loads.	✓ A shared wall system and strong connections create a framework highly resistant to movement or breakage from vehicle turning stresses and torsional loads.	✓ A shared wall system and strong connections distribute point loads laterally and is highly resistant to concentrated rutting even in high traffic areas.	✓ An integral mesh bottom keeps aggregate contained, preventing the 'lifting' effect from granular fill downward migration.	✓ Interconnected cell walls and strong connections create a robust paver structure with low base requirements for structural strength.	✓ Highly-permeable open-graded aggregate infill infiltrates stormwater exceptionally fast.
Flexible Rolled System	Disjointed cell walls that 'flex' and shallow cells do not effectively spread loading across the pavement surface.	Disjointed cell walls and weak connection points are susceptible to movement and breakage under vehicle torsional loads.	Disjointed cell walls that 'flex' under loading allow for deep rutting over time in wheel lanes.	Flexible rolled systems are typical with glued-on fabric bottoms, which are susceptible to tearing, allowing aggregate to push through the bottom.	Shallow cell walls and cell wall gaps have lower load-spreading capability, creating need for higher base requirements for structural strength.	Rolled systems with glued fabric bottoms clog and percolate much more slowly.

STORMWATER & ENVIRONMENTAL BENEFITS

Achieve your green building and stormwater goals by incorporating the proven **GEOBLOCK & GEOPAVE** porous pavements in your landscape plans.

HIGH PERMEABILITY

Highly permeable systems increase groundwater recharge and decrease surface runoff associated with stormwater discharge from paved areas.

Our systems minimize site disruption and the development footprint by reducing or eliminating the need for larger, on-site stormwater ponds.

STORMWATER STORAGE

GEOPAVE pavements function as a stormwater detention/retention layer storage 'basin' and can complement underground storage systems. Depth of base can be increased when additional stormwater storage is required.

IMPROVES STORMWATER QUALITY

Both pavements increase natural water infiltration, filter contaminants and reduce non-point source pollution.

RECYCLED MATERIAL CONTENT

GEOBLOCK and GEOPAVE pavers are manufactured from up to 97% recycled polyethylene.

COOLER SURFACE

Grass and aggregate are cooler pavements that reduce the heat island effect associated with traditional hard pavements.

ENHANCE THE BUILT ENVIRONMENT.
Design long-lasting, permeable pavements that perform to stringent loading and stormwater requirements and minimize environmental impacts.



CONTRIBUTIONS TO GREEN INFRASTRUCTURE (GI) & LOW IMPACT DEVELOPMENT (LID) DESIGN

GEOBLOCK and GEOPAVE solutions are suitable for green infrastructure (GI) and low impact development (LID) land planning. Both systems promote stormwater infiltration and reduce environmental impact through their permeable pavement surfaces to effectively manage stormwater runoff at its source.

Contributions to U.S. Green Building LEED® Credits

Both the GEOBLOCK and GEOPAVE systems offer contributions to USGBC LEED® credits in these categories:

- Reduced Site Disturbance
- Stormwater Management
- Reduced Heat Island Effect
- Recycled Content

Many prestigious LEED® projects have included GEOBLOCK and GEOPAVE porous pavements because of their numerous credit contributions and the systems' sustainability and performance.

DESIGN RESOURCES

SPECIFICATION & PLANNING TOOLS

Presto Geosystems offers comprehensive and easy-to-use resources and tools for designing GEOBLOCK®, GEOBLOCK®5150 and GEOPAVE® porous pavements. CSI-specifications, design resources and videos are available for each product.



Depth of Engineered BASE Recommendation

DESCRIPTION	GEOBLOCK		GEOBLOCK5150		GEOPAVE	
	VEGETATED SURFACES Topsoil Infill Topsoil/Aggregate Base		VEGETATED SURFACES Topsoil Infill Topsoil/Aggregate Base		AGGREGATE SURFACES Aggregate Infill Aggregate Base	
	CBR ¹ 2-4	CBR >4	CBR ¹ 2-4	CBR >4	CBR ¹ 2-4	CBR >4
Heavy Fire Truck Access & H/HS25 loading - Maximum Single Axle Loading of 40,000 lbs (178 kN) - Maximum Tire Pressure of 110 psi (758 kPa)	8 in (200 mm)	6 in (150 mm)	6 in (150 mm)	4 in (100 mm)	6 in (150 mm)	6 in (150 mm)
	Infrequent Passes		Infrequent Passes		Normal Traffic	
Heavy Fire Truck Access & H/HS20 loading - Maximum Single Axle Loading of 32,000 lbs (145 kN) - Maximum Tire Pressure of 110 psi (758 kPa)	8 in (200 mm)	6 in (150 mm)	6 in (150 mm)	4 in (100 mm)	6 in (150 mm)	6 in (150 mm)
	Infrequent Passes		Infrequent Passes		Normal Traffic	
Light Fire Truck & H/HS15 Loading - Maximum Single Axle Loading of 24,000 lbs (110 kN) - Maximum Tire Pressure of 85 psi (586 kPa)	6 in (150 mm)	4 in (100 mm)	4 in (100 mm)	2 in (50 mm)	6 in (150 mm)	4 in (100 mm)
	Infrequent Passes		Infrequent Passes		Normal Traffic	
Utility/Delivery Truck & H/HS10 Loading - Maximum Single Axle Loading of 16,000 lbs (75 kN) - Maximum Tire Pressure of 60 psi (414 kPa)	4 in (100 mm)	4 in (100 mm)	2 in (50 mm)	2 in (50 mm)	4 in (100 mm)	2 in (50 mm)
	Infrequent Passes		Infrequent Passes		Normal Traffic	
Cars & Pickup Truck Access - Maximum Single Axle Loading of 4,000 lbs (18 kN) - Maximum Tire Pressure of 45 psi (310 kPa)	2 in (50 mm)	2 in (50 mm)	None	None	2 in (50 mm)	None ²
	Occasional Passes		Occasional Passes		Normal Traffic	
Trail Use: Surface Stabilization <1,000 lb - Loading for ATVs, golf carts, campers, boats, equestrian, motorcycle, bicycle, pedestrian, wheelchairs	2 in (50 mm)	2 in (50 mm)	None	None	None	None
	Occasional Passes		Occasional Passes		Normal Traffic	

¹ For CBR<2, contact Reynolds Presto Products, Inc. for recommendations. CBR is the abbreviation for California Bearing Ratio.

² A minimum of 2 inches of aggregate base should be placed below the GEOPAVE units as a drainage layer and an infiltration storage area. Greater depth may be required depending upon design rainfall requirements and subbase permeability.

The Engineer of Record shall be responsible for the design and stability of the open graded base course.



SITE PLANNING & DESIGN

CREATE YOUR DESIGN VISION

Enhance your site plans with two unique porous pavement solutions that will define your design vision. Include GEOBLOCK® and GEOPAVE® systems in your landscape plan for optimal performance and stormwater benefits—as well as to make unique aesthetic design statements.



CONSTRUCTION RESOURCES

INSTALLATION TOOLS

GEOBLOCK and GEOPAVE systems are designed for easy installation—requiring less site preparation, less subgrade improvement, less excavation and less structural base than other porous pavement systems.

The paver units are easily cut with ordinary hand or power tools for installing around obstructions and contours, as well as irrigation systems. Their easy-to-handle size minimizes the quantity of units required on a given job, reducing labor and installation costs.

Product is shipped in cubes that allow stacking for maximum shipping efficiency.

GEOBLOCK and GEOPAVE pavers can be driven on when unfilled, facilitating construction equipment for installation of the topsoil infill.

Site Evaluation and On-Site Installation Support

A qualified manufacturer's representative may be contracted to assist with pre-construction site evaluation, construction training or on-site supervision.

Contact Presto Geosystems for details.



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

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

Contact Presto Geosystems or their network of knowledgeable distributors/representatives for assistance with your permeable pavement needs.





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We are a global business with accessibility
through a worldwide distribution network.



PRESTO | GEOSYSTEMS®

STRENGTH. FROM THE GROUND UP.

— Since 1979

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GEOSYNTHETICS

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Loveland, CO 970.535.0863

Des Moines, IA
515.289.1271

Portland, OR
971.339.1020

SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS