



GEO SYSTEMS

GLOBAL LEADER • GLOBAL PARTNER



EARN LEED® GREEN BUILDING CREDITS

GEOBLOCK®, GEOPAVE™ & GEOWEB® SYSTEMS
CONTRIBUTE TO LEED® CERTIFICATION POINTS

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

creating sustainable environments™



GEOBLOCK®



GEOPAVE™



GEOWEB®

Presto Geosystems® focused on green

As an industry leader, Presto offers a variety of solutions for porous pavements and soil stabilization – solutions that provide positive environmental benefits, and have low negative environmental impact.

Presto partners with designers and LEED® Project Managers to provide cost-effective, environmentally-responsible solutions that offer opportunities for LEED® credits in several credit categories.

The Geoblock®, GeoPave™ and Geoweb® systems can be applied to your green building project and contribute to valuable LEED® credits.

GEOBLOCK® | GEOPAWE™ | GEOWEB®

Credit opportunities for **Sustainable Sites** and **Materials and Resources** in the following categories:

- Permeable pavements
- Stormwater detention basins
- Roof gardens
- Vegetated earth retention
- Vegetated swales
- Steepened slopes
- Recycled Material Content

THE LEED® SYSTEM

In 2000, The U.S. Green Building Council (USGBC) introduced the Leadership in Energy and Environmental Design, a comprehensive rating system for designing and certifying sustainable, higher performance green buildings.

The LEED® certification system was designed for rating commercial buildings. The system evaluates environmental performance, provides a common green building standard and recognizes environmental leadership in the building industry.

LEED® has become the national standard for defining green buildings relative to materials and resources, air quality, water and energy use, and site location and development.





SUSTAINABLE SITES

5.1 Site Development: Protect or Restore Habitat

On Greenfield sites, limit all site disturbance within the parameters of the requirements with permeable surfaces (such as pervious paving areas, stormwater detention facilities).

Select a suitable building site and design the building with a minimal footprint to minimize site disruption.

5.2 Site Development: Maximize Open Space

Reduce the development footprint (defined as entire building footprint, access roads and parking) to exceed the local zoning's open space requirement for the site by 25%.

Select a suitable building site and design the building with a minimal footprint to minimize site disruption.



GEOBLOCK® POROUS PAVEMENT SYSTEM (VEGETATED)



1 CREDIT:
Pervious paving for parking or access roads with topsoil/vegetation infill.

BENEFIT: 1, 4



GEOPAVE™ POROUS PAVEMENT SYSTEM (VEGETATED & NON-VEGETATED)



1 CREDIT:
Pervious paving for parking or access roads with aggregate infill.

BENEFIT: 1, 4



GEOWEB® POROUS PAVEMENT SYSTEM (VEGETATED)



1 CREDIT:
Stabilization of steepened slopes and stormwater containment facilities.

BENEFIT: 1, 2, 3



1 CREDIT:
Stabilization of steepened slopes.

BENEFIT: 1, 2, 3



GEOWEB® POROUS PAVEMENT SYSTEM (NON-VEGETATED)



1 CREDIT:
Stabilization of steepened slopes or stormwater containment facilities.

BENEFIT: 1, 2, 3



GEOWEB® EARTH RETENTION SYSTEM



1 CREDIT:
Vegetated retaining walls.

BENEFIT: 1, 2, 3



1 CREDIT:
Retaining walls to minimize the construction footprint and site disruption.

BENEFIT: 1, 2, 3

CREDIT GUIDELINES

SUSTAINABLE SITES

6.1 Stormwater Quantity Control: 6.2 Stormwater Quality Control:

Limit disruption and pollution of natural water flows by reducing impervious cover, increasing onsite infiltration, and managing stormwater runoff (reducing or eliminating pollution and contaminants).

Implement a stormwater management plan that reduces impervious cover, promotes infiltration and captures/treats the stormwater runoff from 90% of the average annual rainfall using acceptable BMPs. Specify pervious paving, garden roofs and vegetated retaining walls to minimize impervious surfaces.

7.1 Heat Island Effect: Non-Roof

Reduce heat islands to minimize impact on microclimate, and human and wildlife habitat. Use an open-grid pavement system for a minimum of 50% of the site hardscape.

Replace constructed surfaces (roads, sidewalks, parking lots) with vegetated or permeable surfaces such as open grid paving for a cooler surface.

7.2 Heat Island Effect: Roof

Reduce heat islands to minimize impact on microclimate, and human and wildlife habitat.

Install a "green" (vegetated) roof for at least 50% of the roof area to reduce heat absorption and increase energy efficiency.



1 CREDIT:
Pervious surfaces for parking, or emergency/access roads with turf infill.

BENEFIT: 1, 4



1 CREDIT:
Open-grid, pervious surfaces for parking or access roads with turf infill.

BENEFIT: 1, 4



1 CREDIT:
Pervious surfaces for parking or emergency/access roads with aggregate infill.

BENEFIT: 1, 4



1 CREDIT:
Open-grid, pervious surfaces for parking or access roads with aggregate infill.

BENEFIT: 1, 4



1 CREDIT:
Vegetated roof gardens and vegetated swales to minimize impervious surfaces.

AMERICAN HYDROTECH IS PRESTO GEOSYSTEMS' PARTNER IN SLOPED GREEN ROOF APPLICATIONS.

BENEFIT: 1, 2



1 CREDIT:
Open-grid, pervious surfaces for parking or access roads with turf infill.

BENEFIT: 1, 2, 3



1 CREDIT:
Vegetated roof gardens to minimize heat absorption and increase energy efficiency.

AMERICAN HYDROTECH IS PRESTO GEOSYSTEMS' PARTNER IN SLOPED GREEN ROOF APPLICATIONS.

BENEFIT: 1, 2



1 CREDIT:
Open-grid, pervious surfaces for parking or access roads with aggregate infill.

BENEFIT: 1, 2, 3



1 CREDIT:
Reduce stormwater runoff using vegetated retaining walls instead of concrete/modular block walls.

BENEFIT: 1, 2, 3

MATERIALS & RESOURCES

4.1 Recycled Content Post Consumer: (10%) 4.2 Recycled Content Post Consumer: (20%)

Increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials.

Use materials with recycled content such that post-consumer recycled content constitutes at least 10% (Credit 4.1) or 20% (Credit 4.2) of the total value of the materials in the project.

Establish a project goal for recycled content materials and identify material suppliers that can achieve this goal.

5.1 Regional Materials: 10% Extracted, Processed & Manufactured Regionally

5.2 Regional Materials: 20% Extracted, Processed & Manufactured Regionally

Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Use a minimum of 10% (Credit 5.1) or 20% (Credit 5.2) of building materials and products that are manufactured regionally within a radius of 500 miles. Identify suppliers that can achieve this goal.



1 CREDIT (10%):
2 CREDITS (20%):

BENEFIT: 1, 4



1 CREDIT:
Geoblock® and Geopave™ material manufactured in Appleton, Wisconsin. Companies using materials within 500-mile radius qualify for credit.



1 CREDIT (10%):
2 CREDITS (20%):

BENEFIT: 1, 4



BENEFIT: 1, 4, 5



1 CREDIT:
Geoweb® material manufactured in Appleton, Wisconsin. Companies using materials within 500-mile radius qualify for credit.



BENEFIT: 1, 2, 3, 5

BENEFIT KEY

	1 PERMEABILITY	2 STABILIZATION	3 LAND USE	4 RECYCLED MATERIAL	5 LOCAL SOURCE
A (for Geoblock®, Geopave®) High percentage open area and permeable infill reduces stormwater runoff		<ul style="list-style-type: none"> Stabilizes upper soil layer Protects from the negative effects of erosion 	<ul style="list-style-type: none"> Minimizes site disruption/construction footprint 		
B (for Geoweb®) 97% permeable; reduces stormwater runoff		<ul style="list-style-type: none"> Allows slopes to be steeper than when soils are unconfined 	<ul style="list-style-type: none"> Reduces valuable land consumption 	Manufactured from up to 97% recycled post-consumer plastic	Reduction of associated transportation costs and negative impacts on the environment



the green heart of pittsburgh

The Phipps Conservatory and Botanical Gardens, Pittsburgh, PA, USA, featuring state-of-the-art energy-saving initiatives, earns its prestigious title as the most energy-efficient conservatory in the world.

To address visitor parking limitations, a 100-space green parking area was designed to accommodate expected overflow traffic during peak times and special events.

The Geoblock® porous pavement system was chosen at the popular conservatory to provide the required overflow

parking while protecting the turf during peak-time traffic loadings. The permeable system promotes natural infiltration of storm water, provides a cooler surface and offers the desired aesthetics of green space.

Continuing with the facility's low-environmental-impact thinking, grass parking is just one example of integrating revolutionary and creative green solutions that protect and preserve the environment in one of the nation's greenest cities.



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