



GEOWEB[®] *porous pavement system*

APPLICATION OVERVIEW



AESTHETICS/PERMEABILITY

The Geoweb[®] system offers options for creating attractive and permeable pavement systems for pedestrian and vehicular traffic requirements:

- grass pavements with an engineered topsoil/aggregate infill
- porous pavements with aggregate infill

THE PERMEABLE GEOWEB[®] SOLUTION

As communities grow and experience increases in surface runoff from newly constructed buildings and hard parking surfaces, the capacity of existing stormwater runoff systems are often pushed beyond their limits. This problem has led to environmental regulations that require the use of stormwater retention and porous pavement systems.

The Geoweb[®] system is a polyethylene, three-dimensional, cellular structure that provides structural stability and permeability through confinement of porous infill materials. The Geoweb system provides maximum load support for a variety of loading requirements through aggregate infill or an aggregate-stabilized turf, and is a cost-effective alternative to hard-surface paving.



GEOWEB®

POROUS PAVEMENT SYSTEM



EASY INSTALLATION

Geoweb® sections collapse into lightweight, compact bundles for easier shipping and handling. During installation, sections remain flexible and easy to handle. Infill placement may be performed immediately following expansion and connection of the sections.



Geoweb® porous pavement system

TURF PROTECTION

AESTHETIC ALTERNATIVE TO HARD PAVEMENTS

From fire emergency access lanes to utility roads, trails, walkways, and other occasional-use areas, the Geoweb® grass pavement system is designed to handle the most demanding turf protection and load support requirements, while allowing for vigorous growth of turf grass. Grass-covered pavements constructed with the Geoweb system and native granular soil are an attractive, functional and cost-effective alternative to hard-surface paving.

PERMEABLE AGGREGATE

NATURAL STORMWATER STORAGE AND DRAINAGE

The Geoweb® system and an aggregate infill with 35-45% void space creates a pavement that functions as a natural on-site water detention/retention basin. The Geoweb system's 98% open-surface area helps to decrease stormwater runoff and promote natural groundwater replacement by allowing stormwater to slowly permeate into the existing ground.

The perforated Geoweb system's 16% open cell-wall area has added benefits:

- facilitates lateral cell-to-cell drainage beneath traffic areas, resulting in better performance in saturated soils.
- reduces the negative effects of cell ponding when the system is over a low permeable base.

Features/Benefits of the Geoweb® System

- The system's 98% open-surface area addresses environmental issues; the system maximizes stormwater replenishment and minimizes runoff.
- Perforations allow the passage of water and nutrients from cell to cell, improving lateral drainage.
- The perforated system provides root lock-up with vegetated systems and provides greater cell wall infill lockup with coarse materials.
- Perforations reduce the negative effects of cell ponding.
- Contributes to LEED® green building credits for stormwater management, reduced heat island effect.

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