

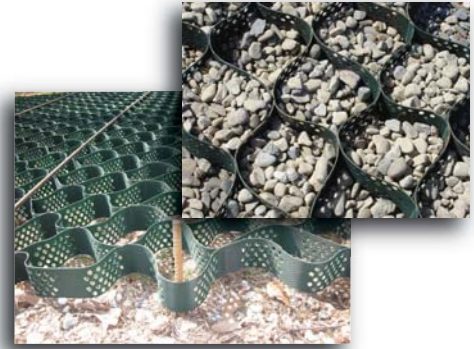
Carthage Mills

Geocells

Geocells

Cellular Confinement Systems (CCS) – also known as geocells – are widely used in construction for erosion control, soil stabilization on flat ground and steep slopes, channel protection, and structural reinforcement for load support and earth retention. Typical cellular confinement systems are made with ultrasonically welded high-density polyethylene (HDPE) strips and expanded on-site to form a honeycomb-like structure, and filled with sand, soil, rock, gravel, or concrete.

Research and development of cellular confinement systems (CCS) began with the U.S. Army Corps of Engineers in 1975 to devise a method for building tactical roads over soft ground. Engineers found that sand-confinement systems performed better than conventional crushed stone sections and they could provide an expedient construction technique for access roads over soft ground, without being adversely affected by wet weather conditions.



Series of Geocells



Carthage Mills CX™ and CXW™ series of geocells are three-dimensional, expandable panels made from high-density polyethylene (HDPE). When expanded during installation, they resemble a honeycomb and form the walls into which specified infill materials are placed and compacted. Typical infill materials are aggregates, local onsite materials, sand, vegetated topsoil, and concrete.

Carthage Mills CX™ and CXW™ series of cellular confinement systems improve the structural and functional behavior of soil and aggregate infill materials. The outer walls of the CXW™ Series are a solid panel (non-perforated) and are used in vertical/stacking applications. The outer walls of the CX™ Series are available in perforated and non-perforated and used in horizontal applications.

CX™ and CXW™ Series of Geocells

There are two types of Geocells in the CX™ series; CX™-20 and CX™-30. The primary difference between the two is that the CX™-30 has larger cell dimensions than the CX™-20. However, each type is suited for specific applications listed below.

CX™-20 Geocell Applications:

Porous Pavements
Overflow Parking Areas
Access Roads
Fire Access Lanes

Boat Ramps
Parking Lots
Golf Cart Paths
Reinforcement

Driveways
Ports and Marinas
RV Parking
Trails and Pathways

CX™-30 Geocell Applications:

Embankment Restoration
Slopes

Green Roofs
Roadside Reinforcement

Swales
Ports & Marinas

CXW™-30 Geocell Applications:

Reinforced Retaining Wall

Reinforced Vegetated
Stacked Wall

Permanent Erosion Control



Call or email for pricing and availability

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