

OVERVIEW

Geotrax GC is an expandable cellular confinement system that can be filled with sand, soil, gravel or other site materials for use in the construction of three dimensional load spreading or containment systems, suitable for subbase and slope stabilisation.

Constructed from 1.6mm perforated and textured HDPE and available in 75mm, 100mm, 150mm and 200mm deep variants. Typical uses include tree root protection, erosion control, retaining structures and temporary or permanent track and compound construction when a no-dig system has been specified.

They can also be used to reduce the overall construction depth thereby reducing the cost of the infill material. Geotrax Geocells work by confining the infill material and ensuring that the downward forces from traffic are spread laterally, thereby greatly reducing the pressure on the sub base by distributing the load over a wider area.



The geocells arrive flat packed on pallets and are expanded on site to form a honeycomb like structure.

The supplied steel pins and plastic caps are used to hold the cells open prior to filling. For erosion control and bank stabilisation or other applications on sloping ground. Adjacent geocell panels are connected with plastic connectors.

This is a high performance product with a high lateral limits with anti-slip material to increase fill material friction and increasing stability.

The HDPE has stable chemical properties which is resistant to abrasion, photo oxidation, acid and alkali.



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<u>Dimensions</u>	
Cell Wall Thickness	1.6mm
Expanded Cell Size	224mm x 259mm
Cell Depths	75mm 100mm 150mm 200mm
Expanded Panel Dimensions	2.71m x 7.41m

<u>Material, Structural integrity and System Performance</u>		
Material	1.6mm HDPE with perforated and textured sidewalls	Test Method
Density	>0.94g/m ³	ASTM D 1505
Carbon Black Content	>1.5%	ASTM D 1603
ESCR	>7000 hours	ASTM D 1693
Seam Weld Strength	75mm depth cell: 900N 100mm depth cell: 1200N 150mm depth cell: 1800N 200mm depth cell: 2400N	
Tensile Strength	>25kN/m	
Material Seam Peel Strength	>16kN/m >14.5 kN/m when including perforations	US ACE GL-86-189
Perforations	10mm diameter holes with perforations less than 12% of cell surface area	
Panel Weights (20m²)	75mm depth cell: 18.0 kg 100mm depth cell: 24.5 kg 150mm depth cell: 36.0 kg 200mm depth cell: 48.5 kg	

