

TECHNICAL DATA SHEET OF GEOCELLS

Geocell is a 3D cellular confinement system manufactured from permeable nonwoven. Geocell is expanded on-site to form a honeycomb-like structure which can be filled with sand, soil or other site material. This cost effective solution has multiple applications enabling reduced projects costs and lower environmental impact.

PROPERTIES	UNITS	PANEL GRADES				
		22/20	25/10	25/15	35/10	35/15
PHYSICAL						
Cell Nominal Diameter	mm	220	250	250	350	350
Cell Length	mm	275	295	295	415	415
Cell Width	mm	230	250	250	370	370
Cell Depth ¹	mm	200	100	150	100	150
Panel Length ¹	mm	6176	5175	5175	5199	5199
Panel Width ¹	mm	3227	7300	7300	7438	7438
Panel Weight	kg	20	17	25	11	17
Cells per m ² (nominal)	-	30	26	26	12	12
MECHANICAL & HYDRAULIC						
Cell Wall Tensile Strength ²	kN/m	20.7				
Cell Junction Peel Strength ²	kN/m	10				
Cell Wall Permeability ³	l/m ² s	45				

1. - Other Sizes are available to order.
2. - Results derived from wide-width tensile test. (EN ISO 10319).
3. - Results derived from a single cell wall permeability test (EN ISO 11058).

Composition: Polypropylene & Polyethylene.

Durability: Predicted to be durable for more than 100 years in Natural soils with a range of pH 4-9.

Chemical Resistance: Resistant to naturally occurring soil alkalis. Resistant to all naturally occurring soil acids. (i.e. to acids of pH $\geq$ 2).

Exposure to Sunlight: The product is delivered in colored polyethylene wrappers to protect it from the harmful effects of ultra-violet rays: it is recommended that it remains wrapped until it is to be used. The unwrapped product shall be completely covered within 30 days after installation to avoid UV radiation exposure.

Notes: The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

Markets Application Function

Highways	Slope protection, Ground improvement and load platforms, Gravity walls
Landfills	Capping and slope stabilization, Earth retention systems
Coastals	Flood protection systems and Controlling slope erosion and soil retention
Structures	Soil structures and Earth reinforcement

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