



A Permanent Solution to an Array of Problems

Geoweb CELLULAR CONFINEMENT

FEATURES

- Geoweb can come in a variety of lengths and cell depths, as well as cell sizes
- The perforated and non-perforated cell walls provide exceptional strength
- Engineered backing and design review for projects
- Geoweb is an anchored system with tendons

Geoweb is used to solve complicated and extreme erosion control and slope issues. Geoweb is a permanent solution to an array of problems like concrete in-filled access ramps over liners.

We can supply you with materials or facilitate a full installation with one of our certified installation crews. We also offer AutoCAD details and layouts. We want to work with you to make your job a success!

APPLICATIONS

- Dam faces
- Soil and slope stabilization
- Wildlife escape ramps
- Liner protection
- Access roads
- Porous pavement
- Parking lots

FOR MORE INFO CALL 800.524.8672



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Product Data



Geoweb Material Information

Property		Value		Test Method		
Base Material	Material Composition Color	Polymer - Polyethylene with density of 0.935 - 0.965 g/cm ³ (58.4 - 60.2 lb/ft ³)		ASTM D 1505		
		Black - from Carbon Black	Tan, Green, Other colors with no heavy metal content	N/A		
	Stabilizer	Carbon black content 1.5% - 2% by weight	Hindered amine light stabilizer (HALS) 1.0% by weight of carrier	N/A		
	Minimum ESCR	3000 hr		ASTM D 1693		
	Sheet Thickness	1.27 mm -5% +10% (50 mil -5% +10%)		ASTM D 5199		
Strip Properties	Surface Treatment	<p>Performance: The polyethylene strips shall be textured and perforated such that the peak friction angle between the surface of the textured/perforated plastic and a #40 silica sand at 100% relative density shall be no less than 85% of the peak friction angle of the silica sand in isolation when tested by the direct shear method per ASTM D 5321. The quantity of perforations shall remove 19.6% ± 3% of the cell wall area.</p>	<p>Material: The polyethylene strips shall be textured with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 22-31 per cm² (140-200 per in²). In addition, the strips shall be perforated with horizontal rows of 10mm (0.4 in) diameter holes. Perforations within each row shall be 19mm (0.75 in) on-center. Horizontal rows shall be staggered and separated 12mm (0.5 in) relative to the hole centers. The edge of strip to the nearest edge of perforation shall be 8mm (0.3 in) minimum and the centerline of the weld to the nearest edge of perforation shall be 18mm (0.7 in) minimum.</p>			
Cell & Seam Properties	Cell Details	Cell Depth	Nominal Dimensions ±10%	Density per m ² (yd ²)	Nominal Area ±1%	
	GW ₂₀ V GW ₃₀ V GW ₄₀ V	75 mm (3 in) 100 mm (4 in) 150 mm (6 in) 200 mm (8 in)	Length	Width	34.6 (28.9) 21.7 (18.2) 8.3 (6.9)	289 cm ² (44.8 in ²) 460 cm ² (71.3 in ²) 1,206 cm ² (187.0 in ²)
			224 mm (8.8 in)	259 mm (10.2 in)		
			287 mm (11.3 in)	320 mm (12.6 in)		
			475 mm (18.7 in)	508 mm (20.0 in)		
	Short-term Seam Peel Strength	Cell Depth		Average Certified Cell Seam Strength		
		75 mm (3 in) 100 mm (4 in) 150 mm (6 in) 200 mm (8 in)		1060 N (240 lbf) 1420 N (320 lbf) 2130 N (480 lbf) 2840 N (640 lbf)		
Long-term Seam Peel Strength	Long-term seam peel strength test shall be performed on all resin or pre-manufactured sheet or strips. A 100 mm (4.0 in) wide seam sample shall support a 72.5 kg (160 lb) load for a period of 168 hours (7 days) minimum in a temperature-controlled environment undergoing a temperature change on a 1-hour cycle from ambient room to 54°C (130°F). Ambient room temperature is per ASTM E 41.					
10,000-hour Seam Peel Strength Certification	Presto shall provide data showing that the high-density polyethylene resin used to produce the Geoweb sections has been tested using an appropriate number of seam samples and varying loads to generate data indicating that the seam peel strength shall survive a loading of at least 95 kg (209 lbf) for a minimum of 10,000 hours.					
Section Dimension	Section Width		Section Length Range (Cells Long: 18, 21, 25, 29, 34)			
	Variable		Minimum	Maximum		
Section Properties	GW ₂₀ V GW ₃₀ V GW ₄₀ V	2.3 m (7.7 ft) to 2.8 m (9.2 ft)	3.7 m (12.0 ft) 4.7 m (15.4 ft) 7.7 m (25.4 ft)	8.3 m (27.3 ft) 10.7 m (35.1 ft) 17.8 m (58.2 ft)		

FOR SALES INFORMATION

Corporate Headquarters - Denver: 800.524.8672 / 303.841.2022

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CLI has over 35 years of experience in the geosynthetics industry, and we offer custom Design-Build solutions that are cost effective and reliable. Our services include Geomembrane and Spray Coating Materials, Custom Fabrication, and Certified Installation.