



## GENUINE GEOWEB® GW30V - 150 mm (6 in) Depth

## **PERFORMANCE & MATERIAL SPECIFICATION SUMMARY**

	Property	Value							Test Method	
Base Material	Material Composition	Polymer – Polyethylene with density of 0.935 – 0.965 g/cm <sup>3</sup> (58.4 - 60.2 lb/ft <sup>3</sup> )						ASTM D 1505		
	Color	Black - from Carbon Black			Tan, Green, Oth with no heavy me				N/A	
	Stabilizer	Carbon black content 1.5% - 2% by weigh			t Hindered amine light s 2.0% by weight				ASTM D 1603	
	Minimum ESCR	5000 hr							ASTM D 1693	
Strip Properties	Sheet Thickness	Prior to Texture: 1.27 mm -5% +10% (50 mil –5% +10%) After Texture: 1.52 mm -5% +10% (60 mil –5% +10%)						ASTM D 5199		
	Surface Treatment	<b>Performance:</b> 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 16.8% ±1.0% of the cell wall area.			<b>Material:</b> The polyethylene strips shall be textured with a m (diamond shape) indentations. The rhomboidal indentation density of $22 - 31$ per cm <sup>2</sup> ( $140 - 200$ per in <sup>2</sup> ). In addition, with horizontal rows of 10 mm ( $0.4$ in) diameter holes. Perf shall be 19 mm ( $0.75$ in) on-center. Horizontal rows shall b 12 mm ( $0.50$ in) relative to the hole centers. The edge of si perforation shall be 8 mm ( $0.3$ in) minimum and the centerli edge of perforation shall be 18 mm ( $0.7$ in) minimum. A slo x 35 mm ( $3/8$ in x 1 $3/8$ in) is standard in the center of the number of t				ons shall have a surface n, the strips shall be perforated erforations within each row Il be staggered and separated f strip to the nearest edge of erline of the weld to the nearest slot with a dimension of 10 mm	
Cell & Seam Properties	Cell Details	Depth		Nominal Dimensions ±10%				Density per m² (yd²)	Nominal Area ±1%	
	GW30V	150 mm (6 in)		m (11.3 in)	320 mm (12.6 in)			21.7 (18.2)	460 cm² (71.3 in²)	
	Short-term	Cell Depth			Mi			Minimum Certified Ce	inimum Certified Cell Seam Strength	
	Seam Peel Strength	150 mm (6 in)						2130 N (48	2130 N (480 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 1 sample shall support a 72.5 kg (160 lb) load for a period of 168 hours (7 days) minimum in a temperature-coundergoing a temperature change on a 1-hour cycle from ambient room to 54°C (130°F). Ambient room term						e-controlled environment		
Section Properties	Section Dimension	Section Width		Section Length Range (Cells Long: 18, 21, 25,				25, 29, 34)		
	Section Dimension	Variable		Minimum					Maximum	
	GW30V	2.3 m (7.7 ft) to 2.8 m (9.2 ft)		4.7 m (15.4 ft)					10.7 m (35.1 ft)	
Certifications & Warranties	Geoweb® Material	Geoweb® sections are manufactured under a quality management system that is ISO-9001:2008 certified. For additional certification and warranty information, refer to the <b>Presto Geosystems</b> Geoweb® Cellular Confinement Specification.								

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## PRESTO GEOSYSTEMS PO BOX 2399, APPLETON, WI 54912-2399 PHONE: 800-548-3424 or 920-738-1328 FAX: 920-738-1222 EMAIL: INFO@PRESTOGEO.COM www.prestogeo.com