

GENUINE GEOWEB® GW40V - 150 mm (6 in) Depth PERFORMANCE & MATERIAL SPECIFICATION SUMMARY

	<u>YSIEMS</u>	-							
	Property	Value							Test Method
Base Material	Material Composition	Polymer – Polyethylene with density of 0.935 – 0.965 g/cm ³ (58.4 - 60.2 lb/ft ³)						ASTM D1505	
	Color	Black - from Carbon Black				Tan, Green, Oth with no heavy me		vy metal content	N/A
	Stabilizer	Carbon black content 1.5% - 2% by weig			ht Hindered amine light s 2.0% by weight		ight stabilizer (HALS) eight of carrier	ASTM D1603	
	Minimum ESCR				5000 hr				ASTM D1693
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 D5199	
	Surface Treatment	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 19.8% \pm 1.0% of the cell wall area.		t the ace of a #40 shall be n angle ested by D 5321.	Material: The polyethylene strips shall be textured with a multi (diamond shape) indentations. The rhomboidal indentations s density of $22 - 31$ per cm ² (140 - 200 per in ²). In addition, the perforated with horizontal rows of 10 mm (0.4 in) diameter hole within each row shall be 19 mm (0.75 in) on-center. Horizonta staggered and separated 12 mm (0.50 in) relative to the hole of strip to the nearest edge of perforation shall be 8 mm (0.3 in) r centerline of the weld to the nearest edge of perforation shall b minimum. A slot with a dimension of 10 mm x 35 mm (3/8 in x in the center of the non-perforated areas and at the center of e				ons shall have a surface a, the strips shall be r holes. Perforations contal rows shall be tole centers. The edge of t in) minimum and the hall be 18 mm (0.7 in) 8 in x 1 3/8 in) is standard
Cell & Seam Properties	Cell Details	Depth			al Dimensions ±10% Width		Density per m² (yd²)	Nominal Area ±1%	
	GW40V	150 mm (6 in)	Length 150 mm (6 in) 475 mm (18.7 ir		1)			8.3 (6.9)	1206 cm² (187.0 in²)
	Short-term	Cell Depth					Minimum Certified Cell Sea		eam Strength
	Seam Peel Strength	150 mm (6 in)				2130 N (480 lb			of)
	Long-term Seam Peel Strength	Long-term seam peel-strength test shall be performed on all resin or pre-manufactured sheet or strips. A 10 seam sample shall support a 72.5 kg (160 lb) load for a period of 168 hours (7 days) minimum in a temperate environment undergoing a temperature change on a 1-hour cycle from ambient room to 54°C (130°F). Amb is per ASTM E 41.							rature-controlled
Section Properties	Section Dimension	Section Width			Section Length Range (Cells Long: 18				29, 34)
		Variable		Minimum				M	Maximum
	GW40V	2.3 m (7.7 ft) to 2.8 m (9.2 ft)			7.7 m (25.4 ft)			17.	17.8 m (58.2 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 Presto Geosystems Geoweb® Cellular Confinement Specification.							

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