

## GENUINE GEOWEB® GW40V - 100 mm (4 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 weig			nt	Hindered amine light stabilizer (HALS 2.0% by weight of carrier			N/A
	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 19.8% ±1.0% of the cell wall area.			<b>Material:</b> The polyethylene strips shall be textured with a r (diamond shape) indentations. The rhomboidal indentation density of $22 - 31$ per cm <sup>2</sup> ( $140 - 200$ per in <sup>2</sup> ). In addition, perforated with horizontal rows of 10 mm ( $0.4$ in) diameter within each row shall be 19 mm ( $0.75$ in) on-center. Horizo staggered and separated 12 mm ( $0.50$ in) relative to the horizon strip to the nearest edge of perforation shall be 8 mm ( $0.3$ is centerline of the weld to the nearest edge of perforation shall be 8 mm ( $3/8$ in the center of the non-perforated areas and at the center				ions shall have a surface in, the strips shall be er holes. Perforations izontal rows shall be hole centers. The edge of 3 in) minimum and the shall be 18 mm (0.7 in) /8 in x 1 3/8 in) is standard
Cell & Seam Properties	Cell Details	Depth	Depth		Nominal Dimensions ±10%		-	Density per m² (yd²)	Nominal Area ±1%
	GW40V	100 mm (4 in)	475 mm (18.7 in)		,	508 mm (20.0 in)		8.3 (6.9)	1206 cm² (187.0 in²)
	Short-term	Cell Depth			· ·	Minimum Certified Cell Se			Seam Strength
	Seam Peel Strength	100 mm (4 in)				1420 N (320 I			bf)
	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 seam sample shall support a 72.5 kg (160 lb) load for a period of 168 hours (7 days) minimum in a tempera environment undergoing a temperature change on a 1-hour cycle from ambient room to 54°C (130°F). Amb is per ASTM E 41.							erature-controlled
Section Properties	Section Dimension	Section Width			Section Length Range (Cells Long: 18, 21, 25, 29				29, 34)
		Variable			Minimum			N	Maximum
	GW40V	2.3 m (7.7 ft) to 2.8 m	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 <b>Presto Geosystems</b> Geoweb® Cellular Confinement Specification.							

© 2016 Presto Products Company. This specification is copyrighted and based on the use of Genuine Geoweb® manufactured by Presto Products Company (Presto Geosystems). Any use of this specification for any product other than that manufactured by Presto Products Company is strictly prohibited

GW40V4SPEC 1 APRIL 2016

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

