

## GENUINE GEOWEB® GW20V - 200 mm (8 in) Depth

## PERFORMANCE & MATERIAL SPECIFICATION SUMMARY

	Property	Value							Test Method
Base Material	Material Composition	Polymer – Polyethylene with density of 0.935 – 0.965 g/cm³ (58.4 - 60.2 lb/ft³)						ASTM D 1505	
	Color	Black - from Carbon Black			Tan, Green, Other Colors with no heavy metal content			N/A	
	Stabilizer	Carbon black content 1.5% - 2% by weig			Llindarad amina light atabilizar /			light stabilizer (HALS)	N/A
	Minimum ESCR	5000 hr						ASTM D 1693	
	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	
Strip Properties	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 21.2% ± 1.0% of the cell wall area.			<b>Material:</b> The polyethylene strips shall be textured with a multitude of rh (diamond shape) indentations. The rhomboidal indentations shall have a density of 22 – 31 per cm² (140 – 200 per in²). In addition, the strips shaperforated with horizontal rows of 10 mm (0.4 in) diameter holes. Perfor within each row shall be 19 mm (0.75 in) on-center. Horizontal rows shat staggered and separated 12 mm (0.50 in) relative to the hole centers. The strip to the nearest edge of perforation shall be 8 mm (0.3 in) minimum a centerline of the weld to the nearest edge of perforation shall be 18 mm minimum. A slot with a dimension of 10 mm x 35 mm (3/8 in x 1 3/8 in) in the center of the non-perforated areas and at the center of each weld.				ations shall have a surface on, the strips shall be ter holes. Perforations orizontal rows shall be to hole centers. The edge of 0.3 in) minimum and the shall be 18 mm (0.7 in) 3/8 in x 1 3/8 in) is standard
Cell & Seam Properties	Cell Details	Depth Nomina Length			I Dimensions ±10% Width		Density per m² (yd²)	Nominal Area ±1%	
	GW20V	200 mm (8 in)	224 mm (8.8 in)			259 mm (10.2 in)		36.4 (28.9)	289 cm² (44.8 in²)
	Short-term	Cell Depth			<u> </u>	Minimum Certific		Minimum Certified Cel	Seam Strength
	Seam Peel Strength	200 mm (8 in)				2840 N (640 lbf)			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 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). Ambis per ASTM E 41.							perature-controlled
Section Properties	Section Dimension	Section Width			Section Length Range (Cells Long: 18, 21, 25, 29				5, 29, 34)
		Variable			Minimum				Maximum
	GW20V	2.3 m (7.7 ft) to 2.8 m (9.2 ft)			3.7 m (12.0 ft)				8.3 m (27.3 ft)
Certifications & Warranties	Geoweb® Material	Geoweb® sections are manufactured under a quality management system that is ISO-9001:2015 certified. For additional certification and warranty information, refer to the <b>Presto Geosystems</b> <i>Geoweb® Cellular Confinement Specification</i> .							

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