PRESTO GEOSYSTEMS

GENUINE GEOWEB®
GW20V - 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/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 weight	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	**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.	**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 10 mm (0.4 in) diameter holes. Perforations within each row shall be 19 mm (0.75 in) on-center. Horizontal rows shall be staggered and separated 12 mm (0.50 in) relative to the hole centers. The edge of strip to the nearest edge of perforation shall be 8 mm (0.3 in) minimum and the centerline of the weld to the nearest edge of perforation shall be 18 mm (0.7 in) minimum. A slot with a dimension of 10 mm x 35 mm (3/8 in x 1 3/8 in) is standard in the center of the non-perforated areas and at the center of each weld.			
Cell & Seam Properties	**Cell Details**	**Depth**	**Nominal Dimensions ±10%**		**Density per m² (yd²)**	**Nominal Area ±1%**
			Length	**Width**		
	GW20V	150 mm (6 in)	224 mm (8.8 in)	259 mm (10.2 in)	36.4 (28.9)	289 cm² (44.8 in²)
	Short-term Seam Peel Strength	**Cell Depth**			**Minimum Certified Cell Seam Strength**	
		150 mm (6 in)			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 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.				
Section Properties	**Section Dimension**	**Section Width**	**Section Length Range (Cells Long: 18, 21, 25, 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-9001:2008 certified. For additional certification and warranty information, refer to the **Presto Geosystems *Geoweb® Cellular Confinement Specification.***				

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