



# GeoGlobe® GeoCell Series

## \* Material Specifications ①

	Property	Value				Test Method
Base Material	Material Composition	Blends of Polyethylene with average density of 0.9425 g/cm <sup>3</sup> , up to 0.965 g/cm <sup>3</sup>				ASTM D 1505
	Color	Black	Other colors upon request			N/A
	Stabilizer	Carbon Black content 2% - 3% by weight	Hindered amine light stabilizer (HALS) 2.0% by weight			N/A
	ESCR	Passed				ASTM D 1693
Cell and Section Properties (Examples)	Cell Details	Cell Height (+/-3mm)	Nominal Cell Size (cm)	Cell Area (cm <sup>2</sup> )	No. Of Cells In Width Of Section	Dimensions & Covered Area Of Regular Section (m <sup>2</sup> )
	GeoGlobe® 8.5	75mm, 100mm, 150mm, 200mm *③	52.7x 44.4	1170	5	2.78m x 16.9m = 47
	GeoGlobe® 10	75mm, 100mm, 150mm, 200mm *③	48.8 x 41.0	1000	5	2.57m x 15.58m = 40
	GeoGlobe® 20	75mm, 100mm, 150mm, 200mm *③	33.0 x 27.7	457.0	9	3.09m x 10.52m = 32.50
	GeoGlobe® 34	75mm, 100mm, 150mm, 200mm *③	26.4 x 22.2	293.1	10	2.78m x 8.44m = 23.50
	GeoGlobe® 40	75mm, 100mm, 150mm, 200mm *③	24.4 x 20.5	250.1	10	2.57m x 7.79m = 20
Strip Properties	Surface Treatment	All GeoGlobe® GeoCells (perforated or non perforated) are made with textured cell walls	Textured with multitude of rhomboidal indentations in depth of 0.2 - 0.5mm	Perforated with multi-horizantal rows of holes of Ø20mm each.*②		
	Strip Thickness	Textured 1.45mm (-10% +10%) Smooth 1.27mm (-10% +10%)				ASTM D 5199

\* ① This performance and material specifications relates to some of the GeoCell products of **GeoGlobe® Europe Ltd**

All dimensions and details are nominal and subject to manufacturing tolerances. **GeoGlobe® Europe Ltd** reserves the right to revise this document and to make changes in the content without notice. The stipulate specifications are the data which is published and updated from time to time.

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# GeoGlobe<sup>®</sup> GeoCell Series

## Performance Specifications\*

	Property	Value			Test Method
		Shear Weld Strength	Peel Weld Strength	Split Weld Strength	
Welded - Joint Strength Properties* <sup>④</sup>	Weld Strength Of Perforated Product (short term)	Method A	Method B	Method C	EN ISO 13426-1
		24.5kN/m	13.7kN/m	26.3kN/m	
	Weld Strength Hang Test (long term)	A sample of 100 mm wide shall support 72.5kg load for a period of minimum 30 days in an ambient room temperature of 23°C ±2°C			Passed
Other Tensile Strength Properties	Full Perforated Strip Strength Properties	Cell Height	Strength		GeoGlobe <sup>®</sup> Test Method
		75,100,150,200 mm (+/-3mm)* <sup>③</sup>	>24.5 kN/m		
	Cell Height	Strength			
	Connection of Two Adjacent Sections by GeoGlobe <sup>®</sup> - Screws	75,100,150,200 mm (+/-3mm)* <sup>③</sup>	>21.4 kN/m		

All details are subject to tolerance of +/-10%

\*<sup>②</sup> 10 mm perforation also possible

\*<sup>③</sup> Other heights are optional upon request.

\*<sup>④</sup> The welding is ultrasonic welding.

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