



Cellular Confinement Systems - Geocell

EGA30

Envirogrid EGA 30 standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 8 cells wide. Each strip is the appropriate width and 142 inches (3.6m) in length. Weld spacing is 17.5 in \pm .12 in (446 \pm 3mm). Cell density is 22 cells per meter squared. Cell walls are textured and if perforations are required 16% \pm 3% of the cell wall is removed.



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Material Properties	Test Method	Unit	Test Value
Polymer Density	ASTM D 1505	g/cm ³ (lb/ft ³)	0.935-0.965 (58.4-60.2)
Environmental Stress Crack Resistance	ASTM D 5397	hours	> 400
Environmental Stress Crack Resistance	ASTM D 1693	hours	6000
Carbon Black Content	ASTM D 1603	% by weight	1.5% minimum
Nominal Sheet Thickness ⁽¹⁾	ASTM D 5199	mm (mil)	1.27 (50) -5%, +10%

Polyethylene strip shall be textured with a multitude of rhomboidal (diamond shape) indentations. The rhomboidal indentations shall have a surface density of 22 to 31 per cm² (140 to 200 per in²).

Physical Properties	Unit	Test Value			
Nominal - Expanded Cell Size (width x length)	mm (in)	320 (12.6) x 287 (11.3)			
Nominal - Expanded Cell Area	cm ² (in ²)	460 (71.3)			
Nominal - Expanded Panel Size (width x length)	m (ft)	2.56 (8.4) x 8.35 (27.4)			
Nominal - Expanded Panel Area	m ² (ft ²)	21.4 (230)			
Cell Depth	mm (in)	75 (3)	100 (4)	150 (6)	200 (8)
Seam Peel Strength	N (lbf)	1065 (240)	1420 (320)	2130 (480)	2840 (640)
Seam Hang Strength	A 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 30 days minimum or a 102mm (4in) weld joint supporting a load of 72.5 kg (160 lbs) for 7 days minimum while undergoing temperature change from 23°C (74°F) to 54°C (130°F) on a 1 hour cycle.				

⁽¹⁾ The Nominal Sheet Thickness is an average thickness of the sheet, taken from the mean of 10 readings.



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