



EnviroGrid®

EnviroGrid® Adjustable (EGA) Series is designed to provide more flexibility in section size than regular EnviroGrid®. Section and cell size will change as each section is expanded to the required dimension. Section length can be increased or decreased by adding or subtracting cells at no additional charge.

EGA Series Nomenclature

- (XA) Nominal Panel Length in feet (20, 30, and 40)
- (P) If Perforated
- EGAXAYP – NC (number of cells long)
- (Y) Cell Depth in Inches (3, 4, 6, 8, 10, and 12)

EGA20

Example EGA204P - 29

EGA Standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 10 cells wide. Each strip is the appropriate width and 142 inches (3.6m) in length. Weld spacing is 14.0 in ± .12 in (355 ± 3mm). Cell density is 35 cells per meter squared. Cell walls are smooth and if perforations are required 11% ± 2% of the cell wall is removed.

MATERIAL PROPERTIES	TEST METHOD	UNIT	TEST VALUE
Minimum Polymer Density	ASTM D 1505	g/cm ³ (lb/ft ³)	0.940 (58.7)
Environmental Stress Crack Resistance	ASTM D 1693	hours	3400
Carbon Black Content	ASTM D 1603	% by weight	1.5% minimum
Nominal Sheet Thickness	ASTM D 5199	mm (mil)	1.25 (50)±5%

PHYSICAL PROPERTIES	UNIT	TYPICAL VALUE			
Nominal-Expanded Cell Size (width x length)	mm (in)	259 (10.2) x 224 (8.8)			
Nominal-Expanded Cell Area	cm ² (in ²)	289 (44.8)			
Nominal-Expanded Section (width x length)	m (ft)	2.56 (8.4) x 6.52 (21.4)			
Nominal-Expanded Section Area (width x length)	m ² (ft ²)	16.7 (180)			
Cell Depth	mm (in)	75 (3)	100 (4)	150 (6)	200 (8)
Seam Peel Strength ¹	N (lbs)	1065 (240)	1420 (320)	2130 (480)	2840 (640)
Flexural Strength	--	15 layers of a 102mm (4in) perforated material shall be tested for flexural strength (simply supported beam) per ASTM D 790 modified. Minimum value Flexural Stiffness (EI) of 40,000 (lb-in ²), cross-head speed 0.5, in/min, EI = PL ³ /48f _c			
Section Weight	kg(lbs)	19.5 (43)	25.9 (57)	39 (86)	51.7 (114)
Sections per Pallet	--	60	50	30	25
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 Seam Peel Strength per U.S. Army Corps of Engineers Technical Report GL-86-19, Appendix A
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