



EGA 40

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Envirogrid® Adjustable Series

EnviroGrid® adjustable series is designed to provide more flexibility in section size. 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:

EGAXA^YP-NC

(XA) Nominal Panel Length in feet (20, 30 & 40)

(Y) Cell Depth in Inches (3, 4, 6 & 8)

(P) Perforated

(NC) number of cells long

Example: EGA40⁴P-29

EGA 40 ft panel length, 4-inch cell depth, perforated, 29-cell section length. Standard sections are manufactured from 58 strips of HDPE, resulting in a section length of 29 cells and 5 cells wide. Each strip is the appropriate width and 142 inches (3.6 m) in length. Weld spacing is 28.0 in ± .12 in (711 ± 3 mm). Cell density is 9 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	hrs	3400
Carbon Black Content	ASTM D-1603	% by weight	1.5% minimum
Nominal Sheet Thickness	ASTM D-5199	mm (mils)	1.25 (50) ± 5%

PHYSICAL PROPERTIES	UNIT	TYPICAL VALUE			
Nominal Expanded Cell Size (width x length)	mm (in)	508 (20) x 475 (18.7)			
Nominal Expanded Cell Area	cm ² (in ²)	1206 (187)			
Nominal Expanded Section (width x length)	m (ft)	2.56 (8.4) x 13.72 (45)			
Nominal Expanded Section Area (width x length)	m ² (ft ²)	35.14 (378)			
Cell Depth	mm (in)	75 (3.0)	100 (4.0)	150 (6.0)	200 (8.0)
Seam Peel Strength ¹	N (lbs)	1065 (240)	1420 (320)	2130 (480)	2840 (640)
Flexural Strength	---	15 layers of a 102 mm (4.0 in) 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 = PL3/48fc.			
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 102 mm (4.0 in) weld joint supporting a load of 72.5 kg (160 lbs) for 30 days minimum or a 102 mm (4.0 in) 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 ² Licensed from the United States Army under Patent No. 4,797,026.

The above information is to the best of our knowledge accurate, but is not intended to be considered as a guarantee. Any implied warranty for a particular use or purpose is excluded. If the Product does not meet the above properties, and notice is given to US Fabrics, Inc., the product will be replaced or refunded. (1/2009).