



EGA 30 GEOCELL

EGA 30 geocell have a honeycomb structure, made of high density polyethylene (HDPE). Once expanded becomes an effective confinement for loose materials placed in each cell and at same time provides an effective hydraulic flow through the perforating cells. Cell walls are smooth and if perforations are required 10 % +/- 2% of the cell wall is removed.

EGA(XA)(Y)(P) – (NC) ; Example : EGA 303 P - 29

(XA) Nominal Panel Length in feet (20, 30, and 40) (Y) Cell Depth in inches (3, 4, 6 and 8)

(P) If Perforated (NC) Number of cells long (29)

Typical Applications

Erosion control of slopes, embankment, and lake and river banks. Base stabilization for roads and parking areas.

TECHNICAL AND PHYSICAL CHARACTERISTICS

MATERIAL PROPERTIES	METHOD	UNIT	EGA 30
Minimum Polymer Density	ASTM D 1505	g/cm ³	0.940
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	1.00 +/- 5%

PHYSICAL PROPERTIES	UNIT	EGA 30			
Nominal-Expanded Cell Size (width x length)	(mm)	320 x 287			
Nominal-Expanded Cell Area	(cm ²)	460			
Nominal-Expanded Section (width x length)	(m)	2.56 x 8.36			
Nominal-Expanded Section Area (width x length)	(m ²)	21.4			
Cell Depth	(mm)	75	100	150	200
Seam Peel Strength (1)	(N)	750	999	1500	1997
Flexural Strength	-----	15 layers of a 102 mm 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 /48fc			
Section Weight	(Kg)	19.5			
Sections per Pallet	-----	60			
Seam Hang Strength	-----	A 102 mm weld joint supporting a load of 72.5 kg for 30 days minimum or a 102 mm weld joint supporting a load of 72.5 kg for 7 days minimum while undergoing temperature change from 23°C to 54°C 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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