

Penteco EGA-303

3" Cell Depth

HDPE Geocell

- ❖ **Reinforcement**
- ❖ **Erosion Control**
- ❖ **Load Support**
- ❖ **Retaining Wall**

Geocells are a three-dimensional cellular system used to confine and stabilize fill materials within retaining walls, embankments, and other reinforced soil mass structures. The confinement of fill within the geocell prevents lateral spreading and erosion while allowing for vertical drainage. This results in a more stable and durable structure with a smaller footprint than traditional methods.

Geocells are mostly used to improve the load-bearing capacity of weak soils, making them an essential component of many construction projects. In addition, geocell-reinforced soil is highly resistant to erosion, making it an ideal choice for use in areas that are prone to flooding or severe weather conditions.

EGA-303			
Property	Test Method	Imperial	Metric
Polymer Density	ASTM D-1505	(58.4 - 60.2) lb/ft ³	(0.935 - 0.965) g/cm ³
Stress Crack Resistance	ASTM D-5397	>400 hrs	>400 hrs
Stress Crack Resistance	ASTM D-1693	6000 hrs	6000 hrs
Carbon Black Content	ASTM D-1603	1.5 % min (by weight)	1.5 % min (by weight)
Nominal Sheet Thickness BEFORE Texturing	ASTM D-5199	50 mil - 5%, + 10%	1.27 mm - 5%, + 10%
Nominal Sheet Thickness AFTER Texturing	ASTM D-5199	60 mil - 5%, + 10%	1.52 mm - 5%, + 10%
Dimensions			
Cell Depth	Measured	3"	75 mm
Seam Peel Strength	Measured	240 lbf	1060 N
Percent Cell Wall Open Area	Measured	16 ± 1 %	16 ± 1 %
Cell Size (nominal-expanded)	Measured	(12.6 x 11.3) in	(320 x 287) mm
Section Size (nominal-expanded)	Measured	(8.4 x 27.4) ft	(2.56 x 8.35) m
Section Size (minimum-expanded)	Measured	(9.2 x 24.8) ft	(2.8 x 7.6) m
Section Size (maximum-expanded)	Measured	(7.6 x 30) ft	(2.3 x 9.1) m

Notes:

- (1) Polyethylene strip shall be textured with a multitude of rhomboidal (diamond shape) indentations.
- (2) The rhomboidal indentations shall have a surface density of 140 to 200 per in²(22 to 31 per cm²).
- (3) The Nominal Sheet Thickness is an average thickness of the sheet, taken from the mean of 10 readings.
- (4) Penteco is a distributor for this product with manufacturing partner based out of USA.
- (5) Manufacturer's data sheet provided at time of purchase.

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