

ECOCELL is a three-dimensional honeycomb-like cellular confinement system primarily used for load support system primarily used for load support, slope protection, earth retention systems and channel protection systems.

GRADE-AA

Material properties		
Polymer density (ASTM D 1505)	g/cm ³	0.935-0.965
Environmental stress crack resistance (ASTM D 1693)	hrs	>3000
Carbon black content	%	min. 1.5
Nominal sheet thickness ¹ (post texturing) (ASTM D 5199)(-5%+10%)	mm	min. 1.2
Base Material	Virgin polymers with additives	
Texture	Polyethylene strip consists of multiple rhomboidal indentations, over the entire strip area on both sides of the strip. The indentations have a surface density of 18 to 33 per cm ²	
Perforations	Polyethylene strip is perforated with horizontal rows of maximum 10 mm diameter holes. Cell perforations area is less than 13% of cell surface area	

Cell/Section properties								
Property	Unit	JC330	JC356	JC445	JC660	JC712		
Weld spacing (±3%)	mm	330	356	445	660	712		
Cell Depth (± 3%)	mm	75, 100, 125, 150, 200, 250, 300						
Expanded cell Dimensions (± 3%)	Width	mm	244	259	320	488	508	
	Length	mm	210	224	287	436	475	
Expanded cell area (± 3%)	cm ²	250	289	460	1000	1206		
Nominal expanded Section ² (± 3%)	Width	m	2.44	2.59	2.56	3.91	3.6	
	Length	m	6.30	6.72	8.61	13.08	14.3	
Nominal expanded Section area (± 3%)	m ²	15.40	17.41	22.1	51.2	52.0		
Seam Properties	Cell depth							
	mm	75	100	125	150	200	250	300
Seam peel strength (US ACE Technical report, GL-86-19)	N	1065	1420	1775	2130	2840	3550	4260
^{1/2} The values can be customized as per requirements								