

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.

<b>Material properties</b>		
Polymer density (ASTM D 1505)	g/cm <sup>3</sup>	0.935-0.965
Environmental stress crack resistance (ASTM D 1693)	hrs	>5000
Carbon black content	%	min. 1.5
Nominal sheet thickness <sup>1</sup> (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 18to 33 per cm <sup>2</sup>	
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	

<b>Cell/Section properties</b>			
<b>Property</b>		<b>Unit</b>	<b>JC330</b>
Weld spacing ( $\pm 3\%$ )		mm	330
Cell Depth ( $\pm 3\%$ )		mm	75
Expanded cell	Width	mm	244
Dimensions ( $\pm 3\%$ )	Length	mm	210
Expanded cell area ( $\pm 3\%$ )		cm <sup>2</sup>	250
Nominal expanded	Width	m	2.44
Section <sup>2</sup> ( $\pm 3\%$ )	Length	m	6.30
Nominal expanded Section area ( $\pm 3\%$ )		m <sup>2</sup>	15.40
<b>Seam Properties</b>		<b>Cell depth</b>	
		<b>mm</b>	<b>75</b>
<b>Seam peel strength</b> (US ACE Technical report, GL-86-19)		N	1065