

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.

Material properties		
Polymer density (ASTM D 1505)	g/cm ³	0.935-0.965
Environmental stress crack resistance (ASTM D 1693)	hrs	>5000
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 18to 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	JC445
Weld spacing (±3%)		mm	445
Expanded cell	Width	mm	320
Dimensions (± 3%)	Length	mm	287
Expanded cell area (± 3%)		cm ²	460
Nominal expanded	Width	m	2.56
Section2 (± 3%)	Length	m	8.61
Nominal expanded Section area (± 3%)		m ²	22.1
Seam Properties		Cell depth	
		mm	150
Seam peel strength (US ACE Technical report, GL-86-19)		N	2130