

BC Geo cell

Description:-

BC Geocell is a light weight yet strong, 3D honeycomb like cellular confinement system, which offer unique, eco-friendly solution for various civil engineering challenges. Engineered for diversity, it can be utilized in various sectors such as roads, railways, ports and others.

Material Properties			
Polymer density	(ASTM D 1505)	g/cm ³	0.935-0.965
Environmental Stress Cracking Resistance	(ASTM D 1693)	Hrs	≥5000
Carbon Black Content	(ASTM D 1603)	%	2.0
Nominal Sheet Thickness (Post Texturing)	(ASTM D 5199)	mm	1.52
Material	Blend of various Polyethylene and additives		
Texture	Polyethylene strip consists of a multiple rhomboidal indentations over the entire strip area on both sides of strip. The indentation have a surface density of 22 to 32 per cm ²		
Perforations	Polyethylene strip is perforated with horizontal rows of maximum 10mm diameter holes. Cell perforations area is less than 12% of cell surface area.		

Cell / Section properties								
Property		UNIT TC330 TC356 TC445 TC660 TC712						
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 Dimension (± 3%)	Width	m	2.44	2.59	3.20	4.88	5.08	
	Length	m	6.10	6.50	8.32	12.6	13.7	
Nominal Expanded Section Area		m ²	14.9	16.8	26.6	61.7	70.0	
			0	2	3	0	0	
Seam Properties		Cell Depth						
Cell Depth (± 3%)	mm	75	100	125	150	200	250	300
Seam Peel Strength, (US ACE Technical report, GL-86-19)	N	106	1420	1775	2130	2840	3550	4260

