

## Tech Cell

Tech Cell 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, Tech Cell can be utilised in various sectors such as roads, railways, ports and others.

### Material Properties

Polymer density	(ASTM D 1505)	g/cm3	0.935-0.965
Environmental Stress Cracking Resistance	(ASTM D 1693)	Hrs	>5000
Carbon Black Content	(ASTM D 1603)	%	Min 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 <sup>2</sup>		
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	TCI330	TCI356	TCI445	TCI660	TCI712	
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%)		cm2	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	12.64	13.78	
Nominal Expanded Section Area		M2	14.90	16.82	26.63	61.70	70.00	
Seam Properties		Cell Depth						
Cell Depth (+/-3%)	mm	75	100	125	150	200	250	300
Seem Peel Strength (US ACE Technical report, GL-86-19)	N	1065	1420	1775	2130	2840	3550	4260

\*The Value can be customized

The properties might be change at the time of manufacturing, storing, handling or shipping

The above values are subject to change as per discretion of the company

