

Geo Cell (75mm - 250mm)

TerraShield Geocell is a 3D rhomboidal cellular confinement system, having unique, environment-friendly solutions for various civil and construction engineering challenges. Geocells are engineered for diverse applications in various sectors such as roads, highways, railways, ports, industries and others.

Applications

Rrosion Control

Subgrade Stabilization

Slope & Hill Slope Protection

Ground Improvement

MSE Wall / RE Wall

🚷 Railway Track-bed Stabilization

Canal slope protection & lining

🥀 Reservoir & Landfill



Specifications

MECHANICAL PROPERTIES		
PROPERTIES (STANDARD)	UNIT	VALUE
Polymer Density [ASTM D 1505]	g/cm3	0.935-0.965
Environmental Stress Crack Resistance [ASTM D 1693]	hours	>5000
Carbon Black Content [ASTM D1603]	%	1.5-2.0
Nominal Sheet Thickness (Post Texturing) [ASTM D 5199]	mm	Min 1.2

Material: Polyethylene

Texture: PE strip consists of multiple rhomboidal indentations

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Perforations: PE strip is perforated with horizontal rows of max 10mm diameter holes.											
Cell perforations area is less than 12% of the cell surface area.											
CELL/SECTION PROPERTIES											
PROPERTIES (STANDARD)		UNIT	IC 330) IC	356	IC 44	5 IC	660	IC712		
Weld Spacing(+/-3%)		mm	330	3	556	445		660	712		
Expanded cell dimensions(+/-3%)	Width	mm	244	259		320		488	508		
	Length	mm	210	224		287		436	475		
Expanded section (+/-3%)	Width	М	2.44	2.59		2.56		2.44	2.56		
	Length	M	6.10	.10 6.50		8.35	1	2.63	13.72		
Expanded section area (+/-3%)		m ²	14.9	14.9 16.8		21.4	30.8		35.1		
SEAM PROPERTIES											
CELL DEPTH – for all Weld Spacing Grades		mm	75	100	125	150	200	250	300		
Seam Peel Strength (+/-5%) US ACE Technical Report. GL-86-19		N	650	850	1050	1280	1700	2130	2550		





