

# Geocell GS GC

## HDPE geocell cellular confinement system



Geocell GS GC is a lightweight, strong 3D honeycomb cellular confinement systems, which offers unique, eco-friendly solutions for various civil engineering challenges. Engineered for diversity, they can be used in various sectors such as roads, railways, slope stabilization and load support.

### TECHNICAL DATA SHEET

MECHANICAL PROPERTIES	TEST	UNIT	NOMINAL VALUE
Polymer Type	Virgin Polymers with additives.		
Polymer Density	ASTM D 1505	g/m <sup>3</sup>	0.935 - 0.965
Environmental Stress Crack Resistance	ASTM D 1693	Hours	> 5000
Carbon Black Content	ASTM D 1603	%	min. 2.0
Nominal Sheet Thickness (post texturing)	ASTM D 5199	mm	min. 1.52
Texture	Polyethylene strip consist of multiple rhomboidal indentations, having a surface density of 18 to 33 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 the cell surface area.		

CELL / SECTION PROPERTIES		UNIT	GS330	GS356	GS445	GS660	GS712
Welding Spacing (± 3%)		mm	330	356	445	660	712
Expanded Cell Dimensions (± 3%)	Width	mm	224	259	320	488	508
	Length		210	224	287	436	475
Expected Section Area (± 3%)	Width	m	2.44	2.59	2.56	2.44	2.56
	Length		6.10	6.50	8.35	12.63	13.72
Expanded Section Area (± 3%)		m <sup>2</sup>	14.9	16.8	21.4	30.8	35.1

SEAM PROPERTIES		CELL DEPTH (Available for all welds)						
Cell Depth	mm	75	100	125	150	200	250	300
Seam Peal Strength (± 5%) (US ACE Technical Report, GL-86-19)	N	1065	1420	1775	2130	2840	3550	4260

Above values are obtained in the manufacturer's laboratory and are Typical Values • There may be variations in above values due to factors when tested in other laboratories • The above values may also vary if the fabric converted in to any value added product or used in combination with other products • The values may also change due to transport damages & improper storage and handling on site • Client shall ensure storage is strictly done as per ASTM standards.

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