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TECHNICAL DATA SHEET

GS Geo-Cell

"GEO SOURCE, Geo Cell is a Lightweight yet Strong, 3D Honeycomb-like Cellular Confinement System, which Offers Unique, Eco-Friendly Solutions for Various Civil Engineering Challenges. Engineered for Diversity, Geocell can be Utilized in Various Sectors such as Roads, Railways, Airports and others.

GEO SOURCE is GAI-LAP, NTPEP, CE-MARKING & ISO 9001-2015 Certified Company.



Material Properties

Polymer Density (ASTM D 1505)	g/cm3	0.935-0.965
Environmental Stress Crack Resistance (ASTM D 1693)	hrs	> 5000
Carbon Black Content (ASTM D 1603)	%	1.5 - 2.0
Nominal Sheet Thickness (ASTM D 5199)	mm	min 1.2
Base Material	High Density Polyethylene	
Texture	High Density Polyethylene strip consists of multiple rhomboidal indentations.	
Perforations	PE Strip is perforated with horizontal rows of mats 10 mm diameter holes at less than 12% of cell surface area.	

Cell/Section Properties

PROPERTY		UNIT	GS-C-330	GS-C-356	GS-C-445	GS-C-660	GS-C-712
Welding Spacing (± 3%)		mm	330	356	445	660	712
Expanded Cell Dimensions (± 3%)	Width	mm	244	259	320	488	508
	Length	mm	210	224	287	436	475
Expected Section Area (± 3%)	Width	m	2.44	2.59	2.56	2.44	2.56
	Length	m	6.10	6.50	8.35	12.63	13.72
Expanded section area (± 3%)		m^2	14.9	16.8	21.4	30.8	35.1

		Cell Depth						
Seam Properties	mm	75	100	125	150	200	250	300
Seam Peel Strength	N	1065	1420	1775	2130	2840	3550	4260

- Above values are obtaining in our laboratory
- There may be variation in above values due to various factors when tested at another laboratory.
- The values may also change due to transportation damages & improper storage and handling at site.
- Client shall ensure that Storage is strictly done as per ASTM standard.
- The values are not intended as warranty / guarantee and Geo Source assumes no liability in connection with this information.

ISO 9001 : 2015

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