



GS HD Virgin HDPE Geocell (Textured)

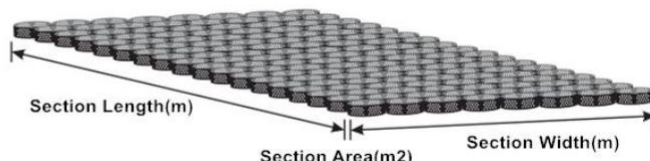
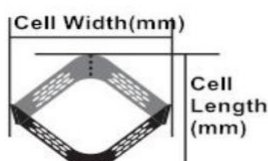
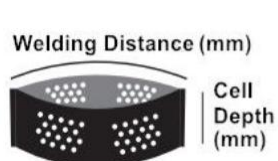
GS HD VIRGIN HDPE GEOCELL is a high strength cellular confinement system, which is made from virgin HDPE (high density polyethylene) sheets through ultrasonic welding to 3-dimensional network structure. It is used to help improve the performance of standard construction materials and erosion-control treatments. The GS HD VIRGING HDPE GEOCELL system can be filled with a wide range of material: aggregate, concrete, sand, soil, etc.

Applications:

- ✧ Erosion control, Slope protection
- ✧ Load support, Soil stabilization
- ✧ Retaining wall, Earth retention
- ✧ Channel protection

Specifications:

Index Properties	Test Method		Units	Values	
Material	-		-	100% Virgin HDPE	
Carbon Black Content	ASTM D 1603		%	≥1.5	
Density	ASTM D 1505		g/cm3	0.935-0.965	
Sheet Thickness ±5%	ASTM D 5199		mm	1.5	
Seam Peel Strength	USACE GL-86-19		KN/m	≥14.2	
Tensile Strength at Yield	ASTM D 638		KN/m	≥22	
Environmental Stress Crack Resistance ESCR	ASTM D 1693		hrs	≥5000	
Oxidation Induction Time OIT	ASTM D 3895		min	≥150	
Type No.	GS HD330	GS HD356	GS HD445	GS HD660	GS HD712
Welding Distance(mm) ±3%	330	356	445	660	712
Cell Depth(mm) ±3%	50, 75, 100, 150, 200, 250				
Dimensions					
Expanded Cell Size (width×length) (mm) ±3%	250 x 210	260 x 225	320 x 288	470 x 450	510 x 475
Expanded Cell Numbers (width×length)	10 x 34	9 x 34	8 x 34	5 x 34	5 x 34
Expanded Section Size (width×length) (m) ±3%	2.50 x 7.14	2.34 x 7.65	2.56 x 9.8	2.35 x 15.3	2.55 x 16.15
Expanded Section Area (m2) ±5%	17.85	17.9	25.1	36	41.2



Custom Panel Sizes: Geosynthetics Africa also supply the 3m x11m wide format panels for efficient transportation and installation. The 3m x 11m Panels are only available for South African market, with expanded panel size of 33sqm