Polyrock GG – Type 1



GEOSYNTHETIC SOLUTIONS **

Polyrock GG is a lightweight expandable cellular confinement system which creates an erosion barrier or structural foundation. The system is used for slope protection, i.e. erosion control, embankment protection, channel linings, ground stabilisation and retaining walls. The product can be successfully used with natural fill materials with 4<ph.<9 and soil temperatures up to 25 °C and is available in a range of cell configurations, wall heights and colours, either perforated or non-perforated.

SPECIFICATIONS

Effective as at: 28.02.2019

SPECIFICATIONS Effective as at: 28.02.2019										
	Property		Val	Test Method						
Base Material	Material Composition	Blends of Po	lyethylene with gsm, up to (ASTM D 1505						
	Colour	Black		Other Colours	on Request	N/A				
	Stabilizer	Carbon Black content 1% - 2% by weight		Stabilizer (Amine Light HALS) 1% - v weight	N/A				
	ESCR		Pass	ASTM D 1693						
Cell and Section Properties	Cell Details	Cell Height (+/- 3mm)	Nominal Cell Size (cm)	Cell Area (cm²)	No. Cells per section width	Dimensions & Coverage Area of Regular Section (m ²)				
	Polyrock GG 8.5		52.7 x 44.4	1170	5	2.78 x 16.9 = 47				
	Polyrock GG 10		48.8 x 41.0	1000	5	2.57 x 15.58 = 40				
	Polyrock GG 20	75mm, 100mm,	33.0 x 27.7	457.0	9	3.09 x 10.52 = 32.5				
	Polyrock GG 20B	150mm, 200mm ¹	34.2 x 28.7	490.8	9	3.18 x 10.9 = 34.6				
	Polyrock GG 34		26.4 x 22.2	293.1	10	2.78 x 8.44 = 23.5				
	Polyrock GG 40		24.2 x 20.5	250.1	10	2.57 x 7.79 = 20				
Strip Properties	Surface Treatment	All Polyrock GG Geocells (perforated or non- perforated) are made with textured cell walls		of rho indentatior	ith multitude mboidal is in depth of 0.5mm	Perforated with multi- horizontal rows of holes of ø20mm each.				
	Strip Thickness		Textured 1.4	ASTM D 5199						

Notes:

1. Other heights are available on request.

.../page 2

The information contained in this publication is provided in good faith and to the best of our knowledge is true and accurate.

Fibertex South Africa reserves the right to make technical modifications to their products without notice.



KZN: (T) +27 (0)31 736 7100 GAUTENG: (T) +27 (0)11 965 0205 W CAPE: (T) +27 (0)21 701 3569

(E) salesza@fibertex.com (E) tenders@geotextilesafrica.co.za (E) adminct@geotextilesafrica.co.za

www.fibertex.com / www.geotextilesafrica.co.za

** GEOTEXTILES • GEOGRIDS • SUBSOIL DRAINAGE PIPE & FITTINGS • GEOCELLS • COMPOSITE DRAINAGE SYTEMS • GABIONS & MATTRESSES • CUSPATED SHEETS • GEOBAGS • GCLS • GEOMEMBRANE

F_11_7013 REV: 01 Date: 28.02.2019

Polyrock GG – Type 1

GEOSYNTHETIC SOLUTIONS **



	Property		Test Method					
Welded – Joint Strength Properties ²	Weld Strength of Perforated Product (Short Term)	Shear Weld Strength	Peel Weld Strength		Split Weld Strength			
		Method A Meth		nod B		Method C	EN ISO 13426-1	
		22.5 kN/m 12.7 k		κN/m 2		24.2 kN/m		
	Weld Strength Hang Test (Long Term)	A sample of 100mm wide shall support 72.5kg load for a period of minimum 30 days in an ambient room temperature of 23 °C ± 2 °C				N/A		
Other Tensile Strength Properties	Full Perforated Strip Strength Properties	Cell Height		Strength		ngth		
		65, 75, 100, 150, 200 mm (+/- 3mm) ¹		>19.5 kN/m (20mm holes)		•	Internal Test Method	
	Connection of Two Adjacent Sections by Polyrock GG Screws	Cell Height		Strength		ngth	based on ISO 10319	
		65, 75, 100, 150, 200 mm (+/- 3mm) ¹		>19.4 kN/m		kN/m	adapted to geocells	

Notes:

- 1. Other heights are available on request.
- 2. The welding is Ultrasonic Welding.

www.fibertex.com / www.geotextilesafrica.co.za

** GEOTEXTILES • GEOGRIDS • SUBSOIL DRAINAGE PIPE & FITTINGS • GEOCELLS • COMPOSITE DRAINAGE SYTEMS • GABIONS & MATTRESSES • CUSPATED SHEETS • GEOBAGS • GCLs • GEOMEMBRANE