

# TeMa - CELL HD

Functions: Slope Protection, Channel Linings, Ground Stabilization, Erosion Control, Embankment Protection and Retaining Walls

**STRUCTURE**: TeMa-CELL HD is an expandable geocell system made from textured HDPE and available in a variety of cell dimensions, heights and panel sizes with perforated or non-perforated side walls.

### **BASE MATERIAL**

Material Composition	Blends of F	Blends of Polyethylene with average density of 0.9425gsm, up to 0.965gsm.			ASTM D 1505
Colour		Black with other colours available on request.			
Stabilizer	Carbon Black content 1%		Hindered Amine light stabilizer		
		weight	(HALS) 1 – 2% by weight		
ESCR		Passed			ASTM D 1693
CELL SECTIONS					
Grade	Height (cm)	Nominal Size (cm)	Area (cm2)	No. Cells /Width	Panel (m2)

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GG 6		63.0 x 52.9	1 666	4	2.62 x 20.10
GG 8	- - - 50, 65, 75, 100, - 125, 150, 200* - -	55.6 x 46.7	1 290	5	2.91 x 17.74
GG8.5		52.7 x 44.4	1 170	5	2.78 x 16.90
GG 10		48.8 x 41.0	1 000	5	2.57 x 15.58
GG 15T1		40.7 x 34.2	696	7	2.97 x 13.00
GG 20B		34.2 x 28.7	491.0	9	3.18 x 10.90
GG 20		33.0 x 27.7	457.0	9	3.09 x 10.52
GG 34		26.4 x 22.2	293.1	10	2.78 x 8.44
GG 40		24.4 x 20.5	250.1	10	2.57 x 7.79

## STRIP PROPERTIES

Surface Treatment	Textured with a multitude of rhomboidal indentations in depth of	Perforated with multi-horizontal rows of holes of 20mm** dia. each	
	0.2 – 0.5mm		
Strip Thickness	1.40mm (-10% to +10%)		ASTM D 5199

#### **WELDED JOINTS\*\*\***

	Shear Weld Strength	Peel Weld Strength	Split Weld Strength	
Short-term Strength	Method A	Method B	Method C	EN ISO 13426-1
	22.5 kN/m	12.7 kN/m	24.2 kN/m	
Long Term Strength (Hang Test)	A sample of 100mm wide shall support a		Passed	
	72.5kg load for a perio	d of min. 30 days in an		
	ambient temperatures of 23°C ± 2°C			

## **OTHER TENSILE PROPERTIES**

Property	Cell Height	Strength	<u>Method</u>
Full Perforated Strip Strength Properties 75, 100, 150, 200 mm*		10 F l-N /	
		19.5 kN/m	Test method based on ISO
Connection of two adjacent sections by specialist screws	(±3mm)	19.4 kN/m	10319 adapted to Geocells

<sup>\*</sup> Other heights are available on request



The information given is this datasheet is to the best of our knowledge true and correct. TeMa SA reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for the design and procurement purposes are current and consistent with the products used in each instance.

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<sup>\*\* 10</sup>mm dia. Holes are also available

<sup>\*\*\*</sup> The Welding is Ultrasonic welding