

DATA SHEET

GEOCELLS

PRODUCT DESCRIPTION: Cellular confinement system made of light and flexible polyethylene, composed of three-dimensional cells in a honeycomb structure

FUNCTIONS: Reinforcement and protection

RAW MATERIAL: Polyethylene

TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	TYPICAL VALUES	
			Metric	Imperial
PHYSICAL	Minimum polymer density	ASTM D1505	0.941 - 0.960 g/cm ³	
	Sheet nominal thickness	ASTM D5199	1.25 mm	50 mils
	Carbon Black Content	ASTM D1603	1.5 %	
	Nominal-expanded cell size (width x length)	-	259 mm x 224 mm	10.2 in x 8.8 in
	Nominal-expanded cell area	-	289 cm ²	44.8 in ²
	Nominal-expanded section size (width x length)	-	2.56 m x 6.52 m	8.4 ft x 21.4 ft
	Nominal-expanded section area (width x length)	-	16.7 m ²	180.0 ft ²
	Environmental stress crack resistance	ASTM D1693	4000 hours	
MECHANICAL	Seam hang strength	-	A 102 mm (4 in) weld joint which supports a load of 72.5 kg (160 lbs) for at least 30 days or a weld joint 102 mm (4 in) that supports a load of 72.5 kg (160 lbs) for at least 7 days, while undergoing changes in temperature from 23 °C (74 °F) to 54 °C (130 °F) over a one-hour cycle.	

CELL TECHNICAL DATA TABLE

CELL DEPTH		SEAM PEEL STRENGTH		SECTION WEIGHT		SECTIONS PER PALLET
mm	in	N	lb	kg	lb	
100	4	1420	320	25.9	57.0	50
150	6	2130	480	39.0	86.0	30
200	8	2840	640	51.7	114.0	25

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DATA SHEET

GEOCELLS (CONT.)

APPLICATIONS: Retaining walls and embankments
Public access road