



AUSTRALIAN-MADE WITH RECYCLED MATERIAL

MEGAFLO® GREEN PANEL DRAINAGE SYSTEM

TECHNICAL DATA SHEET

Megaflo® Green is a wide and flat-shaped drainage panel system that provides the dimensional stability and field-proven structural strength for quick and effective sub-surface drainage.

- Made using 100% Australian recycled HDPE plastic material and covered with Bidim® Green non-woven geotextile
- Has twice the inflow capacity and can drain water in less than 60% of the response time compared to 100mm round pipe
- Applicable for Road, Rail, Slopes & Walls, Waste, Sport, Mining sectors



MEGAFLO GREEN - TECHNICAL DATA

MEGAFLO PANEL PROPERTIES		TEST METHOD	UNITS	MEG170G	MEG300G	MEG450G	MEG170G ULTRA	MEG300G ULTRA	MEG450G ULTRA
Panel Height		ASTM D2122	mm	170	315	460	170	315	460
Panel Thickness		ASTM D2122	mm	> 40			> 40		
Slot Size		ASTM D2122	mm	2.8 x 30			2.8 x 30		
Compressive Strength ^{1,2}	Horizontal	ASTM D2412 (mod)	kPa	> 200			> 300		
	Vertical			> 300			> 400		
Planar flow @ 0.01 gradient & 200kPa confining pressure (Megaflo® Green installed horizontally)	Rigid Plate Interface	ASTM D4716	litres/min	25	47	68	25	47	68
	Coarse Sand Interface			25	47	68	25	47	68
Planar flow @ 0.1 gradient & 200kPa confining pressure (Megaflo® Green installed horizontally)	Rigid Plate Interface	ASTM D4716	litres/min	66	122	178	66	122	178
	Coarse Sand Interface			66	122	178	66	122	178
Change in core cross-sectional area under confining pressure of 156.5 kPa		ASTM D6244	%	< 5%			< 5%		

1. The compressive strength of Megaflo® Green should be considered in conjunction with the granular drainage medium. Geofabrics engaged an external consultant to perform a Finite Element Analysis which established that under extreme loads, the effective stress imposed on a Megaflo® Green panel due to its stiffness and profile is significantly reduced through soil arching of the granular cover.
2. Geofabrics has also conducted compressive testing in a purpose made crush test rig to show Megaflo® Green can withstand extreme loads of up to 1580kPa due to the soil arching effect of the granular fill.

GEOTEXTILE PROPERTIES - TYPICAL	WIDE STRIP TENSILE STRENGTH	TRAPEZOIDAL TEAR STRENGTH	PORE SIZE	FLOW RATE @100MM HEAD
Test	AS 3706.2	AS 3706.3	AS 3706.7	AS 3706.9
Bidim A14G	11 kN/m	300 N	110 µm	320 l/m2/sec

Bidim Green nonwoven geotextile complies with the following road authority specifications: TfNSW R63, Queensland MRTS 27, MRTS 03, MRTS 38, NZ Transit TNZ F/7.



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