



PROTECT FROM EROSION & RESTORE THE ENVIRONMENT

GRASSROOTS® SYNTHETIC EROSION CONTROL MAT

TECHNICAL DATA SHEET: TYPICAL VALUES

Grassroots® is made in Australia from heavily UV stabilised synthetic fibres which are needle-punched together into an open weave three-dimensional structure, designed to offer a permanent engineered solution that assists the establishment of vegetation even in extreme environmental conditions.

- An ideal erosion control mat or surface treatment for applications such as channels, swale drains, wetlands, floodways, spillways and embankments, where immediate or long-term erosion control is required
- Traps seed, soil and water to rapidly produce fuller vegetation, promoting restoration to a natural ecological environment for both wildlife and the community
- Designed to protect underlying soil in steep slopes and channels from high to moderate velocity water flow, rain, wind and other erosive conditions
- Allows seeds to germinate and grow through the matting providing permanent vegetative reinforcement



GRASSROOTS SPECIFICATIONS

MATERIAL	MASS PER UNIT AREA	GERMINATION ENHANCEMENT	LIMITING VELOCITY ¹	LIMITING SHEAR STRESS ¹	TENSILE STRENGTH
UV stable synthetic polypropylene fibres, needle punched onto a polypropylene scrim	380 - 400 g/m ² (nominal)	555% increase in biomass after 21 days	2.9m/s (unvegetated)	180N/m ² (unvegetated)	Not less than 3.5 kN/m (Cross & Machine Direction)
			7.5m/s (with 6 months vegetation growth)	510N/m ² (with 6 months vegetation growth)	

Note 1: Flume test performed at independent laboratory – Flow duration of 1 hour

DIMENSIONS	LENGTH	WIDTH	AREA
Standard	60m	2.0m	120m ²
Wide	60m	4.0m	240m ²

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