







GEOFABRICS

Grassroots[™] is an Australian made permanent erosion control matting made from heavily UV stabilised synthetic fibres which are needle punched together into an open weave three dimensional structure. Grassroots[™] has been designed to protect underlying soil in steep slopes and channels from moderate to high velocity water flows, rain splash and other erosive conditions, while allowing seeds to germinate successfully and grow through the matting providing permanent vegetative reinforcement.

APPLICATIONS

A synthetic long-lasting grass establishment and erosion control matting ideal for:

- Channels.
- Swale drains.
- Riparian areas.
- Steep batters.
- Spillways and dam embankments

• Floodways.

- Golf courses.
- Alpine areas.
- Coastal sites.

Sports &

Recreation

· Reinforced soil slopes

Mining

Building

Ŵ

Civic &

Landscaping

SECTOR SUITABILITY

Ports and

Water

Primarv

Industries

Waste

Walls Aviation

/i\

Roads

BENEFITS

Halts Erosion

Extremely tough and flexible, Grassroots[™] will provide immediate protection against soil loss and may be exposed for extended periods before grass is established.

Strength

Grassroots[™] has been used successfully in many channel lining and road edge rehabilitation applications requiring increased resistance to soil loss as a result of hydraulically induced shear stresses.

Durability

The fibres used in Grassroots[™] contain high levels of stabilisers used to inhibit photooxidative degradation of the polymer. After 1,000 hours of accelerated testing in a xenon arc weatherometer, Grassroots[™] showed no loss in tensile strength.

Long-term

Grassroots[™] is an aesthetically pleasing surface treatment that provides an enhanced long-term structure to assist with seed germination and reinforcement to the vegetation which, when mature, will eventually hide the erosion control mat.

SPECIFICATIONS

	Name	Grassroots™	
k 5	Material	UV stable synthetic polypropylene fibres, needle punched onto a polypropylene scrim.	
	Mass	380 - 400 g/m2 (nominal).	
	Density	90 - 107 kg/m3.	
	Limiting Velocity:		
		- Product only = 2.8m/s	
		- With 6 month vegetation growth = 7.5m/s	
	Limiting Shea	r:	
		- Product only = 180Pa	
,		- With 6 month vegetation growth = 510Pa	
	Scrim	Polypropylene mesh, black, 4 x 4 squares, weight 80gsm. Tensile strength (Cross Directional): not less than 5 kN/m2. Tensile strength (Machine Directional): not less than 5 kN/m2.	

Pinning Rate 3 pins per m2 (see Installation Sheet).

Dimensions	Length	Width	Area
Standard	60m	2.0m	120m ³
Wide	60m	4.0m	240m ³



IMPORTANT NOTICE - DISCLAIMER - The information contained in this brochure is general in nature. In particular the content of this brochure does not take account of specific conditions that may be present at your site. Site conditions may alter the performance and longevity of the product and in extreme cases may make the product wholly unsuitable. Actual dimensions and performance may vary. If your project requires accuracy to a certain specified tolerance level you must advise us before ordering the product from us. We can then advise whether the product will meet the required tolerances. Where provided, installation instructions cover installation of product in site conditions that are conducive to its use and optimum performance. If you have any doubts as to the installation instructions or their application to your site, please contact us for clarification before commencing installation. This brochure should not be used for construction purposes and in all cases we recommend that advice be obtained from a suitably qualified consulting engineer or industry specialist before proceeding with installation. © Copyright held by Geofabrics Australasia Pty Ltd. All rights are reserved and no part of this publication may be copied without prior permission. Published March 2019.

