







GEOFABRICS

Grassroots<sup>™</sup> 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<sup>™</sup> 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

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Civic &

Landscaping

#### SECTOR SUITABILITY

Ports and

Water

Primarv

Industries

Waste

Walls Aviation

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Roads

## **BENEFITS**

#### **Halts Erosion**

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

#### Strength

Grassroots<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> showed no loss in tensile strength.

#### Long-term

Grassroots<sup>™</sup> 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 <sup>3</sup>
Wide	60m	4.0m	240m <sup>3</sup>



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