

**MacMat® R** is reinforced geomat obtained by a polymer made 3D matrix extruded onto a double twisted steel woven mesh. The wire has a Zn-Al5% coating. **MacMat® R** is used for erosion control applications on natural slope or embankments, for channel linings and soil veneer applications.

MACMAT			R1 6822GN	R1 8127GN	R1 6822G0	R1 8127G0
<b>Geomat</b>						
Polymer			POLYPROPYLENE			
Mass/Unit Area	ASTM D6566	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	13.3 (450 ±10%)			
UV Stability	ASTM D 1682 ASTM D G53		stabilized			
<b>Reinforcement</b>						
Type			double twisted woven steel wire mesh heavily Galmac® coated		double twisted woven steel wire mesh heavily Galmac® coated, with a polymeric protective layer	
Mesh Type	ASTM A975		6x8	8x10	6x8	8x10
Wire diameter (int./ext.)	ASTM A975	in (mm)	0.086 (2.2)	0.106 (2.7)	0.086 / 0.126 (2.2 / 3.2)	0.106 / 0.145 (2.7 / 3.7)
Tensile strength	ASTM A975	lb/ft (kN/m)	2,300 (33.6)	3,425 (50)	2,300 (33.6)	3,425 (50)
<b>Geocomposite</b>						
Mass/Unit Area <sup>(1)</sup>	ASTM D6566	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	48.1 (1630)	54.6 (1850)	56.6 (1920)	62.8 (2130)
Thickness <sup>(2)</sup>	ASTM D 6525	in (mm)	0.47 (12)			
Ground cover	ASTM D 6567	%	35-45			
Light Penetration	ASTM D 6567	%	55-65			
Ability to protect soil from rain splash and associated runoff under bench-scale conditions <sup>(2,3)</sup>	ECTC method 2 6 in (150 mm)/hr for 30 min	soil loss ratio	> 4.4			
Ability to protect soil from hydraulically induced shear stresses under bench-scale conditions <sup>(2,3)</sup>	ECTC method 3	1.98 psf for 30 min 3.21 psf for 30 min 4.31 psf for 30 min	< 45 g < 430 g < 1700 g			
Performance in encouraging seed germination and plant growth <sup>(2,3)</sup>	ECTC method 4	%	> 390			
Roll size <sup>(4)</sup>		ft (m)	6.56x82 (2x25)			

1. Nominal value, on such value a standard tolerance of 10% is normally admitted.
2. Typical value. A standard tolerance of 10% is admissible.
3. Determined on full scale tests by independent laboratories.
4. Roll width and length values are nominal and 5% tolerance is normally admitted.
5. Geomat color is black. Brown and green colors are available upon request.

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