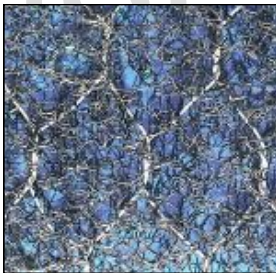


**MACMAT® R1 6822GN**  
**STEEL REINFORCED GEOMAT**

MacMat® R is a reinforced geomat made from a polymeric three-dimensional matrix extruded onto a double twisted steel wire woven mesh 6x8 type made of Galmac® (a Zn/Al5% alloy).  
Units are produced in compliance with CPR - Construction Product Regulation 305/2011 and EN 10223-3.

MacMat® R			R1 6822GN
<b>Geomat properties</b>			
Polymer			Polypropylene
Mass per unit area <sup>(1)</sup>	EN ISO 9864	g/m <sup>2</sup>	450 (±30)
Melting point <sup>(2)</sup>	ISO 306	°C	150
Density <sup>(2)</sup>	ISO 1183	kg/m <sup>3</sup>	900
UV resistance			Stabilized
<b>Reinforcement properties</b>			
Type	EN 10244-2 EN 10245-1		Double twisted woven steel wire mesh GalMac® coated
Mesh type	EN 10233-3		6x8
Wire diameter	EN 10233-3	mm	2.20
Galmac coating	EN 10244-2	kN/m	Class A
Nominal mesh tensile strength	EN 10233-3	kN/m	37
Nominal Punching Load	UNI 14437	kN	43
<b>Composite Physical Properties</b>			
Mass per unit area <sup>(1)</sup>	EN ISO 9864	g/m <sup>2</sup>	1630 (±163)
Voids index <sup>(1)</sup>		%	> 90
Thickness at 2 kPa <sup>(3)</sup>	EN ISO 9863-1	mm	16 (±4)
Roll width <sup>(4)</sup>		m	2.00
Roll length <sup>(5)</sup>		m	25
<b>Composite Erosion Control Properties</b>			
Light Penetration (passing)	ASTM D6567	%	35 - 45
Ground Coverage		%	55 - 65
C factor (cover management factor) <sup>(6)</sup> : - rainfall intensity i = 50 mm/h - rainfall intensity i = 100 mm/h - rainfall intensity i = 150 mm/h	ASTM D6459		≤ 0.0028 ≤ 0.012 ≤ 0.032
<b>Environmental and Sustainability Properties</b>			
Content of SVHC <sup>(7)</sup>		%	≤ 0.1
Global Warming Potential (GWP <sub>100yrs</sub> ) <sup>(7)</sup>	ISO 14025 EN 15804	kg CO <sub>2</sub> -Eq.	≤ 1.35E+00
Eutrophication Potential (EP) <sup>(7)</sup>		kg Phosphate-Eq.	≤ 5.92E-04
Acidification Potential (AP) <sup>(7)</sup>		kg SO <sub>2</sub> -Eq.	≤ 4.31E-03

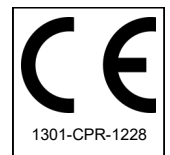


- (1) Nominal value, where no specific tolerance is indicated a standard of 10% is admissible;
- (2) Informative value given at the best of our knowledge;
- (3) Typical value, however the geocomposite thickness can vary according to specific project requirements ranging from 8 to 22 mm approx.;
- (4) A standard tolerance of 5% is admissible with reference to the declared value;
- (5) A standard tolerance of 1% is admissible with reference to the declared value;
- (6) Calculated values certified by a CPESC (certified professional soil erosion & sediment control specialist) based on full scale test reports 732 and 734 run according to ASTM D6459 - Standard Test Method for Determination of Erosion Control Blanket (ECB) Performance in Protecting Hillslopes from Rainfall-Induced Erosion;
- (7) Value reported in the EPD certificate S-P-01469 issued in accordance with ISO 14125 and EN 15804+A1 to Maccaferri with reference to the MacMat® product family with validity till December 2023.

The standard colour of the geomat is black. Brown colour is available in request.



**ETA n. 16/0758**



For the optimisation and improvement process of the technical characteristics of the products, the producer reserves the right to modify standards and characteristics of the product without warning. The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability for any loss or damage, however arising, which results directly or indirectly from the use of such information nor do we offer any warranty or immunity against patent infringement. Specifiers are requested to check the validity of the specification they are using.

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Maccaferri operates under strict quality assurance and management procedures. Please visit the website of your local subsidiary for details of their Certifications.