MACCAFERRI

TECHNICAL DATA SHEET

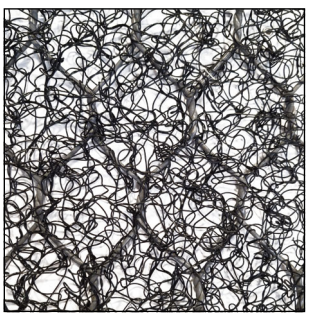
Rev. 27, Date 22.01.2026

MACMAT® R1 6822G0

POLYMERIC 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) and polymer coated wire.
Units are produced in compliance with CPR - Construction Product Regulation 305/2011 and EN 10223-3.

MacMat® R			R1 6822G0	Note
Geomat properties				
Polymer			Polypropylene	
Mass per unit area	EN ISO 9864	g/m^2	450 (± 30)	1
Melting point	ISO 11357-3	°C	160	2
Density	ISO 1183	kg/m^3	900	2
UV resistance			Stabilized	
Reinforcement properties				
Type	EN10244-2 EN10245-1		Double twisted woven steel wire mesh GalMac® and polymeric coated	
Mesh type	EN10223-3		6x8	
Wire diameter (int. / ext.)	EN10223-3	mm	2.20 / 3.20	
Galmac coating	EN10244-2	Class	Class A	
Nominal mesh tensile strength	EN 10223-3	kN/m	37	
Nominal mesh punching load	ISO 17746	kN	43	
Composite Physical Properties				
Mass per unit area	EN ISO 9864	g/m^2	1920 (± 192)	1
Voids index		%	> 90	
Thickness at 2 kPa	EN ISO 9863-1	mm	16 (± 4)	3
Roll width		m	2	4
Roll length		m	25	5
Composite Erosion Control Properties				
Light Penetration (passing)	ASTM D6567	%	35 - 45	
Ground Coverage		%	55 - 65	
C factor (cover management factor): - 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	6
Durability, Environmental and Sustainability Properties				
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1	7
Global Warming Potential Total (GWP)		kg CO_2 Eq.	≤ 3.47E+00	



(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) Values reported in the EPD certificate KIWA-EE- 000379-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. For more EPD values Qr-code below.

MD: Machine Direction. CMD: Cross Machine Direction.

ECO PLATFORM EPD VERIFIED kiwa Ecobility Experts 1301-CPR-1228 ETA n. 16/0758

ECOMAC DESIGN IS A SOFTWARE USED FOR DESIGNING EROSION CONTROL APPLICATIONS
ECoMac Design
PREVENT SOIL EROSION

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