

MACMAT® HS

HIGH PERFORMANCE STEEL REINFORCED GEOMATS

MacMat® HS is the latest generation of high performance geomat made from the extrusion of a polypropylene geomat on to Maccaferri Steelgrid®. The reinforcing hexagonal steel wire mesh has mechanical characteristics greater than those in EN 10223-3. The steel wire and the steel wire ropes are protected with a Zn-Al5% coating in accordance with EN 10244-2, Class A. The galvanised wire and ropes are also available with an extruded polymer coating for additional protection. The mechanical performances of the product in terms of tensile strength and puncture resistance are the same as Steelgrid® System.

MacMat® HS		MO	30	50	100	MO	30	50	100
		8127GN	8127GN	8127GN	8127GN	8127G0	8127G0	8127G0	8127G0
Geomat									
Polymer		POLYPROPYLENE							
Mass per unit area (EN ISO 9864)	g/m ²	450 (±30)							
Melting point	°C	150							
Density	kg/m ³	900							
UV Resistance		STABILIZED							
Reinforcement									
Type		Double twisted woven steel wire mesh heavily Galmac coated				Double twisted woven steel wire mesh heavily Galmac coated with polymer protective layer			
Mesh type		8X10							
Wire diameter (int./ ext.)	mm	2.7				2.7/3.7			
Wire Rope (int./ ext.)	mm	8				6/8			
Mechanical Properties Composite									
Longitudinal tensile strength (mean value)	kN/m	55 ± 5	180 ± 10	130 ± 7	83 ± 5	55 ± 5	120 ± 10	90 ± 7	75 ± 5
Ultimate punching force	kN	70 ± 5	155 ± 12	125 ± 12	90 ± 8	70 ± 5	135 ± 12	110 ± 10	80 ± 10
Nominal Physical Properties Composite									
Voids index	%	>90							
Nominal thickness (EN ISO 9863-1)	mm	12							
Geomat colour (*)		BLACK							
Roll length (**)	m	25							
Roll width (***)	m	2.00	1.80	1.85	1.95	2.00	1.80	1.85	1.95
Roll area	m ²	50.00	45.00	46.25	48.75	50.00	45.00	46.25	48.75



NOTE
 (*) Brown colour available on request
 (**) Tolerance -0 +1%
 (***) Tolerance ± 5%

ETA n. 16/0758



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