MACCAFERRI

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TECHNICAL DATA SHEET

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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 wire is protected with a Zn-Al5% coating in accordance with EN 10244-2, Class A. The galvanised wire is 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®		**MO 8127GN**	**30 8127GN**	**50 8127GN**	**100 8127GN**	**MO 8127G0**	**30 8127G0**	**50 8127G0**	**100 8127G0**
Geomat									
Polymer		POLYPROPYLENE							
Mass per unit area (EN ISO 9864)	g/m²	450 (±30)							
Melting point	°C	150							
Density	kg/m³	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			
Nominal polymeric coating thickness of wire	mm	Not present				0.5			
Mechanical Properties Composite									
Longitudinal tensile stenght (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	1.85	1.85	2.00	2.00	1.85	1.85	2.00
Roll area	m²	50	46.25	46.25	50	50	46.25	46.25	50

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

ETA n. 16/0758

CE 1301-CPR-1228

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