



**MACCAFERRI**

**TECHNICAL DATA SHEET**  
Rev: 01, Issue Date 08.01.2012

**MACMAT® R6G**  
**TURF REINFORCEMENT MAT**

**Product Description**

MacMat® R6G is a three dimensional geomat that is applied as an erosion control mat for sloped embankments or for channel linings. MacMat® R6G combines a layer of galvanized double twisted hexagonal steel wire mesh with a polypropylene three dimensional matrix geomat that is extruded onto the wire during the manufacturing process.

Mechanical Properties	Test Method	Units	Typical Roll Values
			<b>MD</b>
Tensile Strength	ASTM D4595	kN/m (lbs/ft)	31.3 (2143)
Thickness	ASTM D 6525	mm (in)	20 (0.787)
Mass/Unit Area	ASTM D 6566	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	1750 (51.61)
UV Stability	ASTM D G53, ASTM D 1682, mod.	% strength retained	Stabilized
Minimum Weight of Coating [Galvan®]	ASTM A856M-98	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	244 (7.19)
Diameter of Wire Mesh	ASTM A975	mm (in)	2.2 (.086)
Diameter of Selvedge Wire	ASTM A975	mm (in)	2.7 (.106)

Performance Properties <sup>1</sup>	Units	Typical Roll Value
<b>Permissible Velocity</b> 30 Minute, Product Only	m/s (ft/s)	5.02 (16.5)
30 Minute, Vegetated	m/s (ft/s)	5.46 (17.9)
50 Hour, Vegetated	m/s (ft/s)	3.84 (12.6)
<b>Permissible Shear Stress<sup>1</sup></b> 30 Minute, Product Only	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.42 (8.91)
30 Minute, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.75 (15.87)
50 Hour, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.27 (5.81)

<sup>1</sup>Performance Properties determined on full scale tests by independent laboratory testing.

Physical Properties	Test Method	Units	Typical Value
Roll Dimensions (Width x Length)	—	m (ft)	2 x 25 (6.56 x 82.02)
Roll Area	—	m <sup>2</sup> (yd <sup>2</sup> )	50 (59.8)
Estimated Roll Diameter	—	cm (in)	70 (27.56)
Estimated Roll Weight	—	kg (lb)	98.5 (181.6)

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

<p>website: <a href="http://www.maccaferri-usa.com">www.maccaferri-usa.com</a></p>	<p><b>Headquarters:</b> 10303 Governor Lane Boulevard Williamsport, MD 21795-3116 Tel: 800-638-7744 Fax: 301-223-4590 email: <a href="mailto:info@maccaferri-usa.com">info@maccaferri-usa.com</a></p>	<p><b>Area Offices:</b> AZ, Phoenix CA, Sacramento FL, Coral Gables NM, Albuquerque MD, Williamsport OH, Westerville NJ, Iselin TX, Lewisville PR, Caguas WA, Seattle</p>
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EROSION CONTROL – GEOSYNTHETICS – POROUS PAVEMENT  
SEDIMENT CONTROL – STORM WATER MANAGEMENT



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**MACMAT<sup>®</sup> R6P**  
**TURF REINFORCEMENT MAT**

**Product Description**

MacMat<sup>®</sup> R6P is a three dimensional geomat that is applied as an erosion control mat for sloped embankments or for channel linings. MacMat<sup>®</sup> R6P combines a layer of PVC coated double twisted hexagonal steel wire mesh with a polypropylene three dimensional matrix geomat that is extruded onto the wire during the manufacturing process.

Mechanical Properties	Test Method	Units	Typical Roll Values
			<b>MD</b>
Tensile Strength	ASTM D4595	kN/m (lbs/ft)	31.3 (2143)
Thickness	ASTM D 6525	mm (in)	21 (0.827)
Mass/Unit Area	ASTM D 6566	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	1970 (58.10)
UV Stability	ASTM D G53, ASTM D 1682, mod.	% strength retained	Stabilized
Minimum Weight of Coating [Galvan <sup>®</sup> ]	ASTM A856M-98	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	244 (7.19)
Minimum Weight of Coating [PVC]	ASTM A975	mm (in)	.38 (.015)
Diameter of Wire Mesh	ASTM A975	mm (in)	2.2 (.086)
Diameter of Selvedge Wire	ASTM A975	mm (in)	2.7 (.106)
Diameter of Wire Mesh [Galvan <sup>®</sup> & PVC]	ASTM A975	mm (in)	3.2 (.125)
Diameter of Selvedge Wire [Galvan <sup>®</sup> & PVC]	ASTM A975	mm (in)	3.7 (.145)

Performance Properties <sup>1</sup>	Units	Typical Roll Value
<b>Permissible Velocity</b> 30 Minute, Product Only	m/s (ft/s)	5.02 (16.5)
30 Minute, Vegetated	m/s (ft/s)	5.46 (17.9)
50 Hour, Vegetated	m/s (ft/s)	3.84 (12.6)
<b>Permissible Shear Stress<sup>1</sup></b> 30 Minute, Product Only	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.42 (8.91)
30 Minute, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.75 (15.87)
50 Hour, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.27 (5.81)

<sup>1</sup>Performance Properties determined on full scale tests by independent laboratory testing.

Physical Properties	Test Method	Units	Typical Value
Roll Dimensions (Width x Length)	—	m (ft)	2 x 25 (6.56 x 82.02)
Roll Area	—	m <sup>2</sup> (yd <sup>2</sup> )	50 (59.8)
Estimated Roll Diameter	—	cm (in)	70 (27.56)
Estimated Roll Weight	—	kg (lb)	98.5 (181.6)

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EROSION CONTROL – GEOSYNTHETICS – POROUS PAVEMENT  
SEDIMENT CONTROL – STORM WATER MANAGEMENT



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**MACMAT<sup>®</sup> R8G**  
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**Product Description**

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Mechanical Properties	Test Method	Units	Typical Roll Values
			<b>MD</b>
Tensile Strength	ASTM D4595	kN/m (lbs/ft)	41.7 (2860)
Thickness	ASTM D 6525	mm (in)	24 (0.945)
Mass/Unit Area	ASTM D 6566	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	2080 (61.35)
UV Stability	ASTM D G53, ASTM D 1682, mod.	% strength retained	Stabilized
Minimum Weight of Coating [Galvan <sup>®</sup> ]	ASTM A856M-98	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	244 (7.19)
Diameter of Wire Mesh	ASTM A975	mm (in)	2.7 (.106)
Diameter of Selvedge Wire	ASTM A975	mm (in)	3.4 (.133)

Performance Properties <sup>1</sup>	Units	Typical Roll Value
<b>Permissible Velocity</b> 30 Minute, Product Only	m/s (ft/s)	6.04 (19.8)
30 Minute, Vegetated	m/s (ft/s)	6.52 (21.4)
50 Hour, Vegetated	m/s (ft/s)	4.60 (15.1)
<b>Permissible Shear Stress<sup>1</sup></b> 30 Minute, Product Only	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.42 (8.91)
30 Minute, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.87 (18.21)
50 Hour, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.32 (6.66)

<sup>1</sup>Performance Properties determined on full scale tests by independent laboratory testing.

Physical Properties	Test Method	Units	Typical Value
Roll Dimensions (Width x Length)	—	m (ft)	2 x 25 (6.56 x 82.02)
Roll Area	—	m <sup>2</sup> (yd <sup>2</sup> )	50 (59.8)
Estimated Roll Diameter	—	cm (in)	70 (27.56)
Estimated Roll Weight	—	kg (lb)	106 (195)

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EROSION CONTROL – GEOSYNTHETICS – POROUS PAVEMENT  
SEDIMENT CONTROL – STORM WATER MANAGEMENT



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Mechanical Properties	Test Method	Units	Typical Roll Values
<b>MD</b>			
Tensile Strength	ASTM D4595	kN/m (lbs/ft)	41.7 (2860)
Thickness	ASTM D 6525	mm (in)	25 (0.984)
Mass/Unit Area	ASTM D 6566	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	2120 (62.52)
UV Stability	ASTM D G53, ASTM D 1682, mod.	% strength retained	Stabilized
Minimum Weight of Coating [Galvan <sup>®</sup> ]	ASTM A856M-98	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	244 (7.19)
Minimum Weight of Coating [PVC]	ASTM A975	mm (in)	.38 (0.15)
Diameter of Wire Mesh	ASTM A975	mm (in)	2.7 (.106)
Diameter of Selvedge Wire	ASTM A975	mm (in)	3.4 (.133)
Diameter of Wire Mesh [Galvan <sup>®</sup> & PVC]	ASTM A975	mm (in)	3.7 (.145)
Diameter of Selvedge Wire [Galvan <sup>®</sup> & PVC]	ASTM A975	mm (in)	4.4 (.173)

Performance Properties <sup>1</sup>	Units	Typical Roll Value
<b>Permissible Velocity</b> 30 Minute, Product Only	m/s (ft/s)	6.04 (19.8)
30 Minute, Vegetated	m/s (ft/s)	6.52 (21.4)
50 Hour, Vegetated	m/s (ft/s)	4.60 (15.1)
<b>Permissible Shear Stress<sup>1</sup></b> 30 Minute, Product Only	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.42 (8.91)
30 Minute, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.87 (18.21)
50 Hour, Vegetated	kN/m <sup>2</sup> (lbs/ft <sup>2</sup> )	0.32 (6.66)

<sup>1</sup>Performance Properties determined on full scale tests by independent laboratory testing.

Physical Properties	Test Method	Units	Typical Value
Roll Dimensions (Width x Length)	—	m (ft)	2 x 25 (6.56 x 82.02)
Roll Area	—	m <sup>2</sup> (yd <sup>2</sup> )	50 (59.8)
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Estimated Roll Weight	—	kg (lb)	106 (195)

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