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## **MACTEX® HF 212.012**WOVEN (MONOFILAMENT) GEOTEXTILE

Maccaferri MacTex<sup>®</sup> HF 212.012 is a woven polypropylene geotextile and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. The individual mono-filaments are woven into a regular network such that the filaments retain their dimensional stability relative to each other. These characteristics make MacTex<sup>®</sup> HF 212.012 ideal for filtration beneath hard armor systems and around leachate collection pipes. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

MacTex<sup>®</sup> HF 212.012 conforms to the property values listed below<sup>1</sup> and is subject to internal 'Manufacturing Quality Control' (MQC) tests that have been accredited by the 'Geosynthetic Accreditation Institute—Laboratory Accreditation Program' (GAI-LAP).

PROPERTY <sup>4</sup>	TEST PROCEDURE	UNITS	MINIMUM AVERAGE ROLL VALUES (MARV) <sup>2</sup>
Mechanical			, , , , , , , , , , , , , , , , , , ,
Grab Tensile (MD/CMD)	ASTM D 4632	lb (kN)	370 x 250 (1.624 x 1.113)
Grab Elongation (MD/CMD)	ASTM D 4632	%	15 x 15
Trapezoidal Tear (MD/CMD)	ASTM D 4533	lb (kN)	100 x 60 (0.445 x 0.267)
Puncture (CBR)	ASTM D 4533	lb (kN)	950 (4.226)
Endurance			
UV Resistance	ASTM D 4355	% Retained @ 500 hrs.	90
Hydraulic			
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.28
Flow Rate	ASTM D 4491	gpm/ft <sup>2</sup> (lpm/m <sup>2</sup> )	18 (733.0)
Apparent Opening Size (AOS) <sup>3</sup>	ASTM D 4751	US Sieve (mm)	70 (0.212)
Percent Open Area	Calculated	%	4 — 6
Packaging - Measured			
Roll Width	Measured	ft (m)	12 (3.66)
Roll Length	Measured	ft (m)	300 (91.44)
Roll Area	Measured	yd <sup>2</sup> (m <sup>2</sup> )	400 (334)
Roll Weight	Calculated	lb (kg)	164 (74)

## Notes:

- 1. The property values listed above are effective 9/2012 and are subject to change without notice
- Values shown are in weaker principal direction. 'Minimum Average Roll Values' (MARV) are calculated as the typical minus two (2) standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken from quality assurance testing will exceed the value reported.
- 3. AOS (ASTM D 4751) is a 'Maximum Opening Diameter Value'
- Mullen Burst ASTM D 3786 and Puncture ASTM D 4833 have been removed. Neither test method is recognized by AASHTO M288. CBR Puncture ASTM D 6241 has replaced D 4833, under AASHTO M288. Mullen Burst is not recognized by ASTM D35 committee on Geosynthetics.

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