



RENOMESH BIO is an anti-rodent protection geocomposite manufactured from double twisted steel wire woven mesh, mesh type 6x8, made of PoliMac® coated steel wire.

An anti-erosion biotextile made of coir fibers and biologically degradable is mechanically connected to the wire mesh during production.

Units are produced in compliance with CPR - Construction Product Regulation 305/2011 and EN 10223-3.



RENOMESH-BIO PERFORMANCES			RENOMESH BIO 6x8 2.2 HT POLIMAC
Physical Properties			
Steel wire diameter (int. / ext.)	EN 10218-2	mm	2.20 / 3.20
Selvedge wire diameter (int. / ext.)	EN 10218-2	mm	2.70 / 3.70
Galmac coating	EN 10244-2	Class	Class A
Mechanical Performances			
Mesh Tensile Strength	EN 10223-3	kN/m	40 ± 3
Mesh Punching Load	ISO 17746	kN	48 ± 5
Durability Performances			
Service life of polymer coating at 25 °C	UL 746B EN 60216-8	Years	> 125
SO ₂ corrosion resistance	ISO 6988	Cycles	> 28
Salt Spray (5% DBR)	ISO 9227	Hours	> 25,000
UV resistance (@ 2,500 hours) ⁽¹⁾	ISO 4892-3	%	< 25
Abrasion resistance	ASTM A975	Cycles	> 300
Abrasion resistance in wet conditions	ISO 22182	Weight loss	< 2 %
Brittleness Temperature	ASTM D746	°C	< -35
Corrosion Spread (@ 2,500 hours)	ASTM A975	Corrosion length less than a mesh opening	
Environmental and Sustainability Properties			
Global Warming Potential (GWP _{100 yrs}) ⁽²⁾	EN 15804	kgCO ₂ _{equiv} / Kg product	< 2.00
Leachate Test ⁽³⁾	EPA 6020B	µg / L	Lower than the limits set by regulations ⁽³⁾
PFAS in Water Test ^(3, 4)	EPA 537.1	ng / L	Not detected
Smoke toxicity	ISO 5659-2, EN 17084	Index of toxicity CIT _e (8) < 0.10	
Environmental Harmlessness	M GEOK E:2016	Environmentally Uncritical	



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ETA n. 15/0219



1301-CPR-1229

RenoMesh BIO



BIOTEXTILE			
Mass per unit area ⁽⁵⁾	EN ISO 9864	g/m ²	700
UTS - Longitudinal	EN ISO 10319	kN/m	20
UTS - Transversal	EN ISO 10319	kN/m	9
Elongation at break (MD)	EN ISO 10319	%	25
Elongation at break (CD)	EN ISO 10319	%	30
Coverage ratio	-	%	60/80

RENOMESH BIO Anti-Rodent Protection Geocomposite sizes		Accessories ^(*) :
Length (m)	Width (m)	Stainless Steel C-Rings: <ul style="list-style-type: none"> • Diameter: 3.00 mm • Tensile strength > 1,550 MPa • Pull-apart strength > 2.0 kN • Max spacings: 200 mm
50	2 - 3	
All sizes and dimensions are nominal. Tolerances of 0/+1 m of the length, and ± M (mesh opening) of the width shall be permitted		(*) The accessories are NOT included, unless explicitly mentioned in the price offer. For additional details, see the installation manual.

- (1) UTS/elongation @ break of the base compound after 2,500 hrs exposure to QUV-A do not change more than 25% from initial test results.
- (2) Referred to the wire mesh elements
- (3) Test preparation in accordance with EPA 1312; The presence or not of 31 different metals were analysed in the leachate. Regulations: (a) Water Framework Directive 2000/60/EC; (b) CCME Water Quality Guidelines for the Protection of Aquatic Life, Freshwater; (c) U.S. EPA National Recommended Water Quality Criteria (Aquatic Life, Freshwater), 2006.
- (4) The presence or not of 28 different PFAS were analysed. The PFOS and PFOA were not detected at <2 ng/L, while other PFAS and their derivatives were also not detected between <2 ng/L and < 4 ng/L.
- (5) Nominal value, natural fibers are subjected to weight variations +/- 15%

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