

TERRAMESH® SYSTEM

POLIMAC®

Terramesh® System is a preassembled modular system used to build reinforced soil structures with vertical stone facing, and specially designed to be environmental friendly.

The units are manufactured from a continuous element of double twisted wire mesh type 8x10, made of PoliMac® coated steel wire.

Terramesh® System is produced in compliance with The Construction Products (Amendment etc.)(EU Exit) Regulations 2020 on the basis of UKAD 200026-00-0102 and UKTA-0836-22/0022.



TERRAMESH® SYSTEM PERFORMANCES			Terramesh® System
Physical Properties			
Steel wire diameter (int. / ext.)	EN 10218-2	mm	2.70 / 3.70
Selvedge wire diameter (int. / ext.)	EN 10218-2	mm	3.40 / 4.40
Galmac coating	EN 10244-2	Class	Class A
Mechanical Performances			
Mesh Tensile Strength	EN 10223-3	kN/m	55 ± 5
Mesh Punching Load	ISO 17746	kN	70 ± 5
Design Performances			
Long Term Design Strength (LTDS) ⁽¹⁾	BS 8006-1	kN/m	45.8 
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	> 20,000
UV resistance (@ 2,500 hours) ⁽²⁾	ISO 4892-3	%	< 25
Abrasion resistance in dry conditions	ASTM A975	Cycles	> 400
Abrasion resistance in wet conditions	ISO 22182	Weight loss	< 3 %
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})	EN 15804	kgCO ₂ equiv / Kg product	< 2.00
Leachate Test	EPA 6020B	µg / L	Lower than the limits set by regulations ⁽³⁾
PFAS in Water Test ⁽⁴⁾	EPA 537.1	ng / L	Not detected
Smoke toxicity	ISO 5659-2, EN 17084		Index of toxicity CIT ₆ (8) < 0.10
Environmental Harmlessness	M GEOK E:2016	Environmentally Uncritical	



Download the EPD from
maccaferri.com/EPD



Download the digital model for free on
bimstore or on maccaferri.com/BIM

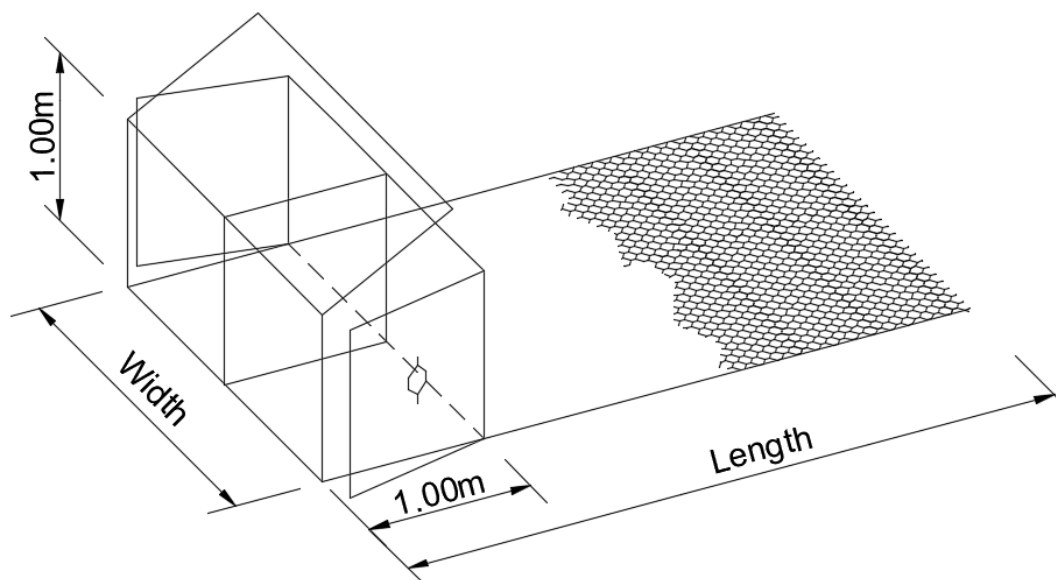


UKTA-0836-22/0022



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Terramesh® System



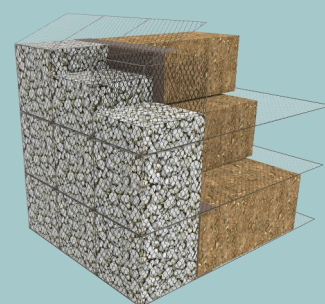
Terramesh® System sizes			Accessories ^(*) :
Length (m)	Width (m)	Height (m)	Stainless Steel C-Rings: • Diameter: 3.00 mm • Tensile strength > 1,550 MPa • Pull-apart strength > 2.0 kN • Max spacings: 200 mm Bracing ties: Steel wire or preformed self locking ties (i.e. MacTie)
3	2	0.5 - 1	
4(**)	2	0.5 - 1	
5	2	0.5 - 1	
6	2	0.5 - 1	
All sizes and dimensions are nominal. Tolerances of $\pm 5\%$ shall be permitted (**) Standard product in UK & Ireland			(*) The accessories are NOT included, unless explicitly mentioned in the price offer. For additional details, see the installation manual.

DESIGN
THE
CHANGE



Designed to blend into the natural environment, TerraMesh Series undergoes rigorous and continuous testing campaigns to meet the performance and environmental demands of today's civil engineering projects.

Used in thousands of projects across the world, from small retaining walls to mega-structures supporting critical infrastructure, TerraMesh is synonymous of reliability, durability, material saving and environmental integration.



TerraMesh System

- (1) LTDS value valid for sandy soils with particle size <2mm; for sandy gravels (<9.5mm) the LTDS value should be divided for a $f_m=1.05$; for coarse gravels (<38mm) the LTDS value should be divided for a $f_m=1.15$.
- (2) 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.
- (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.

Maccaferri Ltd:
T: (+44) 1865 770555 www.maccaferri.com/uk
Rep of Ireland:
T: (+353) 18851662 www.geostrong.net

Specialist areas:

Sales: E: sales.uk@maccaferri.com
Technical: E: technical.uk@maccaferri.com
Construction: E: construction.uk@maccaferri.com

