

TERRAMESH® GREEN
POLIMAC®

TerraMesh® Green is a preassembled modular system used to build reinforced soil structures with an inclined vegetative face, designed to blend into the natural environment. The units are manufactured from a continuous element of double twisted hexagonal woven steel wire mesh type 8x10, made of Polimac® coated steel wire. They are 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® GREEN PERFORMANCES			TerraMesh® Green Light	TerraMesh® Green
Physical Properties				
Steel wire diameter (int. / ext.)	EN 10218-2	mm	2.20 / 3.20	2.70 / 3.70
Selvedge wire diameter (int. / ext.)	EN 10218-2	mm	2.70 / 3.70	3.40 / 4.40
Galmac coating	EN 10244-2	Class	Class A	
Mechanical Performances				
Mesh Tensile Strength	EN 10223-3	kN/m	40 ± 5	55 ± 5
Mesh Punching Load	ISO 17746	kN	41 ± 5	70 ± 5
Design Performances				
Long Term Design Strength (LTDS) ⁽¹⁾	BS 8006-1	kN/m	32.1	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	> 300	> 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 _e (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

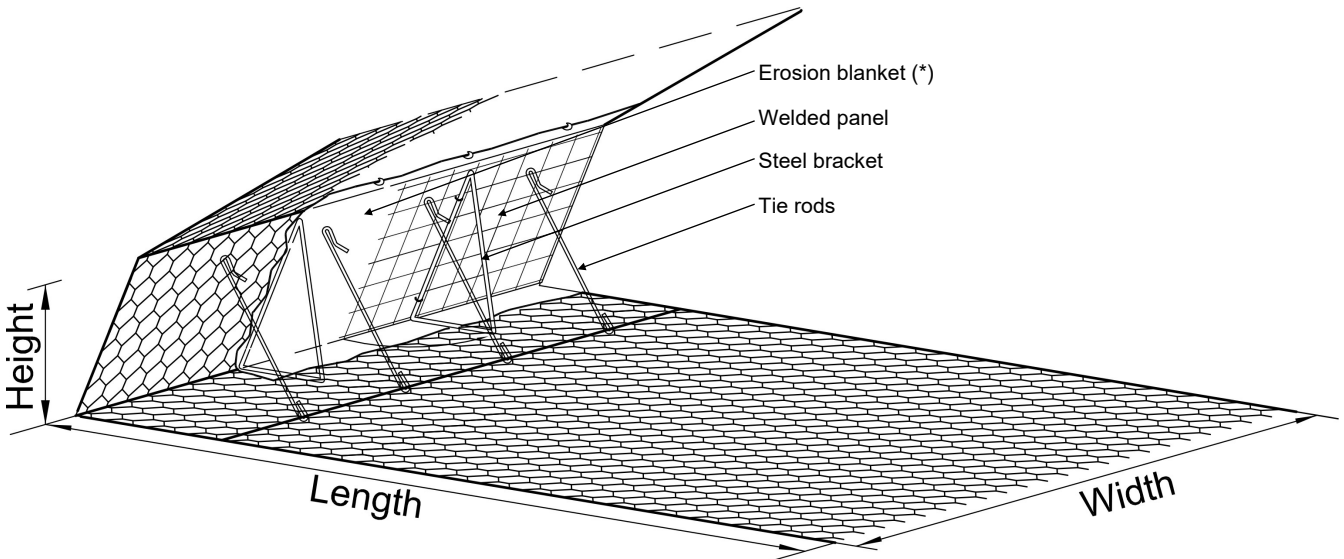


UKTA-0836-22/0022



0836-CPR-24/F7078

TerraMesh® Green



(*) As fine material retainer, TerraMesh® Green Water type units use a polypropylene 3-dimensional geomat, TerraMesh® Green Soil type units use a polyester or fiberglass fabric.

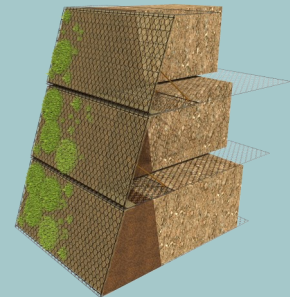
TerraMesh® Green sizes				Accessories ^(*) :
Length (m)		Width (m)	Height (m) / Slope angle	Stainless Steel C-Rings: <ul style="list-style-type: none"> • Diameter: 3.00 mm • Tensile strength > 1,550 Mpa • Pull-apart strength > 2.0 kN • Max spacings: 200 mm
TerraMesh® Green	TerraMesh® Green Light			
-	2**	3	0.76 / 70° 0.73 / 65° 0.70 / 60° 0.57 / 45°	
3	3	3		
4	4	3		
5	5	3		
6	6	3		
All sizes and dimensions are nominal. Tolerances of ± 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 Green

- (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.

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