MACCAFERRI

TECHNICAL DATA SHEET

Rev: 03a, Date 05.05.2024

TERRAMESH® MINERAL

POLIMAC®

TerraMesh® Mineral is a preassembled modular system used to build reinforced soil structures with inclined stone facing and specially designed to be environmental friendly.

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

TerraMesh® Mineral 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® MINERAL PERFORMANCE			TerraMesh® Mineral Light	TerraMesh® Mineral
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	EAD 200026-00-0102	kN	**41 ± 5**	**70 ± 5**
Design Performances				
Long Term Design Strength (**LTDS**)(1)	BS 8006-1	kN/m	**32.1**	**45.8**
Durability Performances				
SO_2 corrosion resistance	ISO 6988	Cycles	**> 28**	
Salt Spray (5% DBR)	ISO 9227	Hours	**> 6,000**	
UV resistance (@ 2,500 hours) (2)	ISO 4892-3	%	**< 25**	
Abrasion resistance	ASTM A975-21	Cycles	**> 300**	**> 400**
Corrosion Spread (@ 2,500 hours)	ASTM A975-21	**Corrosion length less than a mesh opening**		
Environmental and Sustainability Properties				
Global Warming Potential ($GWP_{100\ yrs}$)(3)	EN 15804	$kgCO2_{equiv}$ / Kg product	**< 1.08**	
Leachate Test	EPA 6020B	µg / L	**Lower than the limits set by regulations**(4)	
PFAS in Water Test(5)	EPA 537.1	ng / L	**Not detected**	
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

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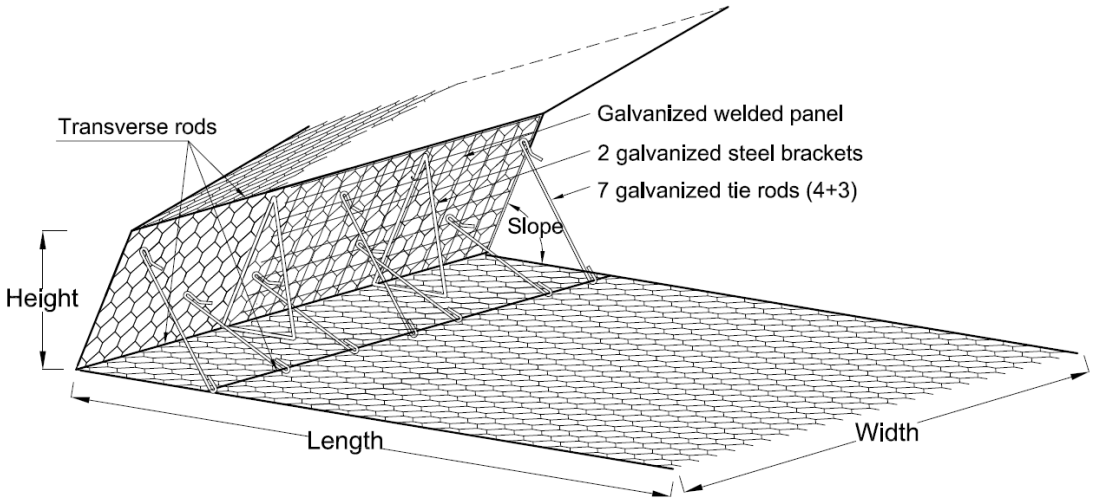
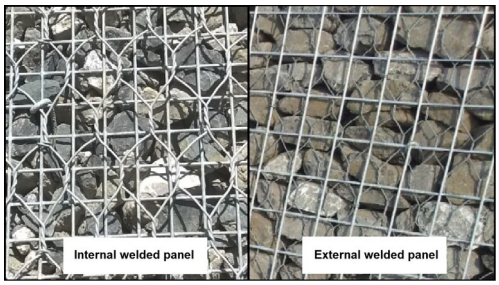
TerraMesh® Mineral





Depending on the slope angle required, different length tie rods are required. Please specify slope angle required when ordering.

TerraMesh® Mineral sizes

Length (m)	Width (m)	Height (m) / Slope angle
3*	3	0.65 / 87°+ 0.64 / 80°+ 0.76 / 70°* 0.73 / 65°
4	3	
5	3	
6	3	

All sizes and dimensions are nominal. Tolerances of ± 5% shall be permitted
(*) Standard product in UK & Ireland
(+) Special order only - requires installation experience

Accessories (*):

Stainless Steel C-Rings:
- Diameter: 3.00 mm
- Tensile strength > 1,550 MPa
- Pull–apart strength > 2.0 kN
- Max spacings: 200 mm

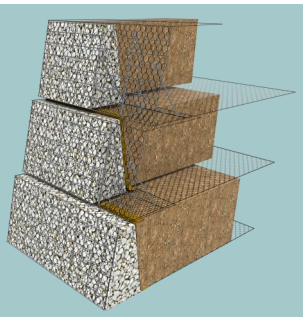
(*) The accessories are NOT included, unless explicitly mentioned in the price offer.
For additional details, see the installation manual.

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.

Use our MacSTARS software to design TerraMesh Mineral structures. Contact us for details.



TerraMesh Mineral

(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) Value reported in the EPD certificate S-P-01465 issued in accordance with ISO 14025 and EN 15804+A1 to Maccaferri with reference to the Gabions product family with validity till December 2023.
(4) 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.
(5) 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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