REBARMAT
composite rebar

"Vecozoli K-4", Zaķumuiža,
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EU DECLARATION OF PERFORMANCE

Designated according to Article 29 of Regulation (EU) No 305/2011

1. Product Type:

Glass Fiber Reinforced Polymer (GFRP) Reinforcement Mesh for CRM (Composite Reinforced Mortar) Systems
Types: **REBARMAT GFRP MESH** 3 mm and 4 mm

2. Product Identification:

GFRP reinforcement mesh made from ECR-glass fibre and thermoset polymer resin matrix. The weft bars are profiled with reinforcing rib (winding); the warp bars are twisted and weft rods pass through their centre.

Manufactured by:
HMP GROUP LTD, "Vecozoli K-4", Zaķumuiža, Ropažu novads, LV-2133, Latvia
Website: www.rebarmat.com

3. Intended Use:

Component of CRM systems used in composition with mortar and chemical anchors for strengthening existing and new masonry and concrete structures, especially walls, vaults and other elements where two dimensions are predominant. The product is intended to increase load bearing capacity, strength, stiffness and ductility of structural elements under static, quasi-static and seismic/dynamic loading, including critical exposure conditions.

4. Applicable Harmonised/European Assessment Documents:

- EAD 340392-00-0104: CRM (Composite Reinforced Mortar) Systems for Strengthening Concrete and Masonry Structures
- ETA 25/0467 - version 01 of 03/07/2025
- Evaluation Report to ETA 25/0467 - version 01 of 03/07/2025
- EN ISO 11357-2 (Thermal analysis)
- ISO 10406-1:2015 (FRP bars and grids - test methods)

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5. Declared Performance:

Essential Characteristic	Symbol	Unit	Test Method	RM 3 weft	RM 3 wrap	RM 4 weft	RM 4 wrap
Nominal Bar Diameter	d	mm	/	3	3	4	4
Effective Diameter	deff	mm	EAD 340392 Annex B	2.86	2.88	3.80	4.04
Effective Cross-sectional Area	Aeff	mm2	EAD 340392 Annex B	6.44	6.51	11.37	12.82
Tensile Strength - average	su,m	MPa	EAD 2.2.2.1	1322	870	1253	909
Tensile Strength - characteristic	su,m,k	MPa	EAD 2.2.2.1	1215	751	1202	833
Ultimate Strain - average	eu,m	%	EAD 2.2.2.1	3.1	2.1	2.5	2.3
Ultimate Strain - characteristic	eu,k	%	EAD 2.2.2.1	2.7	1.5	2.4	2.1
Young's Modulus - average	Em	GPa	EAD 2.2.2.1	50.0	52.6	55.4	45.8
Young's Modulus - characteristic	Em,k	GPa	EAD 2.2.2.1	48.8	39.2	53.2	40.8
Shear Resistance of Mesh Junction - average	Fjunc	kN	EAD 2.2.2.2	0.7	0.6	1.2	1.4
Shear Resistance of Mesh Junction - characteristic	Fjunc,k	kN	EAD 2.2.2.2	0.6	0.5	1.1	1.2
Freezing/Thawing - retained tensile strength	sigma ret	%	EAD 2.2.2.3	90	100	97	101
Freezing/Thawing - retained Young's modulus	E ret	%	EAD 2.2.2.3	99	85	96	93
Water Resistance - retained tensile strength	sigma ret	%	EAD 2.2.2.4	101	101	98	98
Water Resistance - retained Young's modulus	E ret	%	EAD 2.2.2.4	97	84	100	98
Saltwater Resistance - retained tensile strength	sigma ret	%	EAD 2.2.2.5	93	95	98	100
Saltwater Resistance - retained Young's modulus	E ret	%	EAD 2.2.2.5	100	83	99	95
Alkali Resistance - retained tensile strength	sigma ret	%	EAD 2.2.2.6	91	86	98	95
Alkali Resistance - retained Young's modulus	E ret	%	EAD 2.2.2.6	96	88	98	97
Glass Transition Temperature	Tg	deg C	EAD 2.2.2.7	99.1	99.1	99.1	99.1
Density	rho	g/cm3	ETA Annex 1	2.2	2.2	2.2	2.2
Reinforcing Fibre Content	vf	%	ETA Annex 1	85	85	85	85
Colour			ETA Annex 1	yellow	yellow	yellow	yellow

Observation after durability conditioning: no surface changes, no erosion, no cracking, no crazing, no checking, no chalking.

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6. Mesh Description and Mass per Surface Unit

Opening dimensions of cell (mm)	Weight per surface unit - 3 mm mesh	Weight per surface unit - 4 mm mesh
33 x 33	0.750 kg/m2	1.410 kg/m2
50 x 50	0.490 kg/m2	0.930 kg/m2
66 x 66	0.375 kg/m2	0.705 kg/m2
99 x 99	0.245 kg/m2	0.465 kg/m2
100 x 100	0.250 kg/m2	0.470 kg/m2
150 x 150	-	0.350 kg/m2

Mesh dimensions: width from 1000 mm to 2000 mm; length from 500 mm to 50000 mm.

7. System of Assessment and Verification of Constancy of Performance (AVCP):

European Technical Assessment ETA 25/0467 - version 01 of 03/07/2025
System 2+ in accordance with EAD 340392-00-0104.

8. Notified Body:

Notified Body 1301 - Technický a skúšobný ústav stavebný, n. o.

9. Manufacturer's Declaration:

The performance of the product identified above is in conformity with the declared performance. This declaration is issued, in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer:

HMP GROUP LTD
"Vecozoli K-4", Zaķumuiža, Ropažu novads, LV-2133, Latvia
Date of Issue: 18 May 2026
Place of Issue: Zaķumuiža, Latvia

Signed for and on behalf of the manufacturer by:

Jan Nowikow
CEO – HMP GROUP LTD