REBARMAT
composite rebar

"Vecozoli K-4", Zaķumuiža,
Ropažu novads,
LV-2133 Latvia

+371 29503700
info@rebarmat.com
www.rebarmat.com

EU DECLARATION OF PERFORMANCE

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

1. Product Type:

Unidirectional Glass Fiber Reinforced Polymer (GFRP) Composite Rebar for Concrete Reinforcement
Types: REBARMAT PRO **6MM, 8MM, 10MM, 12MM**

2. Product Identification:

Profiled, ribbed composite round bars made from ECR-glass fiber and epoxy resin matrix
Greenish in color
Manufactured by:
HMP GROUP LTD, "Vecozoli K-4", Zaķumuiža, Ropažu novads, LV-2133, Latvia
Website: www.rebarmat.com

3. Intended Use:

For internal and external concrete reinforcement in construction works, in accordance with EN 1992 (Eurocode 2), CNR-DT-203-R1, and compliant with relevant technical specifications for non-metallic reinforcement (EAD 260023-00-0301).

4. Applicable Harmonised/European Assessment Documents:

- EAD 260023-00-0301: Continuous Fiber Reinforced Polymer (FRP) Bars for Internal Reinforcement of Concrete
- EN 1992 (Eurocode 2) including guidance from Annex R – Embedded FRP Reinforcement
- CNR-DT-203-R1
- EN ISO 11357-2 (Thermal analysis)
- ISO 1183-1 (Density)
- ISO 11359-2 (Thermal expansion)
- EN 13501-1 (Building material classification)
- ASTM D695-10 (Compressive properties)

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5. Declared Performance:

Essential Characteristic	Symbol	Unit	Test Method	RBM 6	RBM 8	RBM 10	RBM 12
Nominal Bar Diameter	d	mm	/	6	8	10	12
Effective Diameter	deff	mm	EAD 2.2.1	6.39	8.26	10.22	12.17
Characteristic Ultimate Tensile Failure Load	F	kN	ISO 10406-1 Clause 6	34.1	55.7	88.1	127.9
Effective Cross-sectional Area	Aeff	mm^2	EAD 2.2.1	32.08	53.64	82.11	116.24
Characteristic Tensile Strength	ftk0	MPa	EAD 2.2.2	>1000			
Average Modulus of Elasticity	Ef	GPa	EAD 2.2.2	>50			
Characteristic Tensile Failure Strain	εft	%	EAD 2.2.2	>2.1			
Characteristic Compressive Strength	fc	MPa	EAD 2.2.3	315	428	481	479
Average Compressive Modulus	Ec	GPa	EAD 2.2.3	50.7	49.4	51.7	52.3
Transverse Shear Strength	τs	MPa	EAD 2.2.5	201.3	205.2	213.2	216.5
Interlaminar Shear Strength	τi	MPa	EAD 2.2.6	51.5	44.6	43.9	46.8
Bond Strength Concrete C20/25	τb	MPa	EAD 2.2.4	15.2	-	9.5	8.2
Bond Strength Concrete C50/60	τb	MPa	EAD 2.2.4	-	-	-	10.6
Bond Strength at Maximum Service Temperature (70°C)	τb,Tmax	MPa	EAD 2.2.14	12.4	-	6.5	8.2
Retained Bond Strength at Maximum Service Temperature	Rτb	%	EAD 2.2.14	81.6	-	68.4	100
Interlaminar Shear Strength	τi	MPa	EAD 2.2.6	51.5	44.6	43.9	46.8
Longitudinal Thermal Expansion	αL	K^{-1}	EAD 2.2.9	5.4E-06	-	4.5E-06	5.0E-06
Transverse Thermal Expansion	αT	K^{-1}	EAD 2.2.10	2.1E-05	-	1.6E-05	2.2E-05
Glass Transition Temperature	Tg	°C	EAD 2.2.11	99.1	-	106.4	116.8
Maximum Service Temperature	Tmax	°C	EAD 2.2.13	78.6	-	76.2	73.3
Density	ρ	kg/m^3	EAD Annex 1	2091	2129	2123	2112
Fiber Mass Content	wf	%	EAD Annex 1	85	85	85	85

REBARMAT
Is HMP GROUP LTD registered trademark

Company details:

HMP GROUP LTD
Priezmalas 8, Kadaga
Adazu novads, Latvia LV2103

Bank details:

AS BlueOr Bank
IBAN: LV85 CBBR 1126 3679 0002 0
SWIFT: CBBRLV22

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

European Technical Assessment ETA 23/1022
System 1+ In accordance with EAD 260023-00-0301

7. Notified Body:

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

8. 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