

DECLARATION OF PERFORMANCE

DoP

In accordance with Annex III of Regulations (EU) No. 305/2011 Construction Product Regulation

1	Unique identification code of the product type	MateenBar™
2	Intended use	GFRP bars made with ECR glass roving and thermosetting resins, to be applied as reinforcement of inorganic matrices (such as concrete, lime-based mortars, Portland, CSA cement, hydraulic reactive powder, lightweight concrete, etc.) to build and repair beams, columns, slabs and other structural elements either cast in situ or precast.
3	Manufacturer	European Owens Corning FiberGlas (EOCF) Srl Chaussée de la Hulpe, 166 à 1170 Bruxelles
5	System AVCP	1+
6b	European Assessment Document	260023-00-0301
	European Technical Assessment	25/0588 v01 dated 25 October 2025
	Technical Assessment Body	i-Tab / ITC-CNR (CPR NB n.0970)
	Notified Body	TSUS CPR NB n.1301

7	Declared Performances
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Essential Characteristic	Symbol	Unit	Test Method	MB 6	MB 8	MB 10	MB 12	MB 16	MB 19	MB 22	MB 25	MB 32
Nominal Bar diameter	d	mm	/	6	8	10	12	16	19	22	25	32
Effective Bar diameter	d _{eff}	mm	ISO 10406-1 Clause 5	6,71	7,66	9,91	11,35	15,78	18,79	21,65	24,86	31,11
Measured Cross Sectional Area (tolerance ±5%)	A _{eff}	mm ²		35,38	46,07	77,17	101,20	195,65	277,43	367,97	485,50	760,36
Characteristic Short-Term Tensile strength	f _{ftk0}	MPa	ISO 10406-1 Clause 6	> 1000								NPA
Characteristic Ultimate Tensile Failure Load	F	kN		> 36	>47	>78	>102	>196	>278	>368	>486	NPA
Avarage Modulus of Elasticity	E _f	Gpa		> 50								NPA
Characteristic Tensile failure Strain	ε _{ft}	%		> 1,8								NPA
Average Interlaminar shear strength	τ _i	MPa	EAD 2.2.6	>40								
Characteristic Tranverse shear strength	τ _s	MPa	ISO 10406-1 clause 13	>150								
Characteristic Compressive strength	f _c	MPa	EAD 2.2.3 & ISO 604	>400								NPA
Avarage Compressive Modulus of Elasticity	E _c	Gpa		>50								NPA
Centric Bond strength in concrete C20/25 by pull-out testing	τ _b	MPa	ISO 10406-1 clause 7	>11					>9			
Reduction in Bond strength from centric to eccentric tests	R _{cb}	%	ISO 10406-1 clause 7	0	<23		<29		<44			
Centric Bond strength in concrete C50/60 by pull-out testing	τ _b	MPa	ISO 10406-1 clause 7									>9

Other performances declared:

Fiber mass Content $\geq 80\%$

Moisture Absorption in 24hr at 50°C $\leq 0,05$

Moisture Absorption to saturation at 50°C $< 0,75$

Mean Glass Transition Temperature (DSC) $> 100^\circ\text{C}$

Maximum service temperature $> 70^\circ\text{C}$

Degree of cure $\geq 99\%$

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

Signed for and on behalf of the manufacturer by:

Bruxelles, December 19th, 2025

Dr. Christopher Skinner

Vice President Strategic Marketing