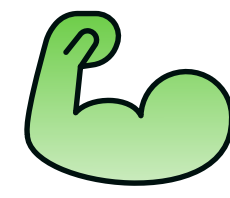


MATEENBAR™ FIBERGLASS REBAR BENT BAR

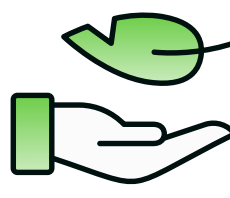


MATEENBAR Fiberglass Rebar Bent Bar is a stronger, lighter weight, rustproof concrete reinforcement designed to meet the codes and standards you trust, help you increase on-site productivity, and deliver more durable structures.

Product Advantages Compared to Steel

**Stronger**

- 2,5x stronger in tensile strength compared to the same size diameter

**Lighter**

- 4x lighter compared to the same size diameter

**Rustproof**

- More durable structures

**Designed For Pros**

- Heat-free handling
- Not electrically conductive
- Low thermal conductivity
- No thermal cycling impact

Code-Approved and Proven Performance

Material Standards

• MATEENBAR is compliant with ASTM D7957, CSA S807, and EAD 260023-00-030 standards. CE marking approval is currently in progress.

Residential Concrete

• MATEENBAR can be used in residential concrete, including footings and foundation walls as designed using ACI 332 and ACI 440 design methodology.

Structural Concrete

• MATEENBAR can be used in structural concrete using design codes such as ACI 440.11-22, AASHTO FRP Design Specifications 2018, AFGC 2023 guidelines and the CNR-DT 203/R1/2025.

Masonry

• MATEENBAR can be used with TMS 402/602-22 Appendix D as reinforcing for masonry walls.

Intended Applications

RESIDENTIAL	CONCRETE REPAIR	COMMERCIAL/INDUSTRIAL	TRANSPORTATION	MARINE	HIGH VOLTAGE & ELECTROMAGNETIC FIELDS
• Driveways • Sidewalks • Pool Decks • Basement Floors • Basement Walls • Footings • Concrete Masonry • ICF Construction	• Balconies • Tunnel Linings • Replacement of Corroded Rebar	• Parking Slabs • Warehouse Floors • Agricultural Slabs • Loading Docks • Architectural and Structural Precast • Truck Aprons • Pour Back Slabs	• Bridge Decks • Traffic Barriers • Civil Roadways • Soft-Eye for Tunnels	• Seawalls • Piles • Piers	• Light & Heavy Rail • MRI Rooms

Physical and Mechanical Properties

ESSENTIAL CHARACTERISTIC	SYMBOL	UNIT	TEST METHOD	MB-B 8	MB-B 10	MB-B 12	MB-B 16	MB-B 20	MB-B 22	MB-B 25
Nominal Bar diameter	d	mm	/	8	10	12	16	20	22	25
Nominal area of the Bar	A _{nom}	mm²	/	50,27	78,54	113,10	201,06	314,16	380,13	490,87
Effective Bar diameter (+/-5% tolerance)	d _{eff}	mm	EAD 2.2.1 & ISO 10406-1 Clause 5	7,62	9,76	12,13	16,36	20,54	22,13	25,30
Measured Cross Sectional Area (+/-5% tolerance)	A _{eff}	mm²		46	75	116	210	331	385	503
Linear Weight	/	g/m	/	0,100	0,160	0,236	0,423	0,671	0,783	1,013
Characteristic Short-Term Tensile Strength	f _{ftk0}	MPa	EAD 2.2.2 & ISO 10406-1 Clause 6	>1000						
Ultimate Tensile Strain of Straight Portion	ε _{ftk0}	%		≥1.8%						
Average Modulus of Elasticity of Straight Portion	E _r	GPa		>50						
Bend Radius of Bent Shapes	r _t	mm	Defined by the manufacturer	≥24	≥30	≥36	≥48	≥57	≥66	≥75
Average Interlaminar Shear Strength	τ _i	MPa	EAD 2.2.6	>40						
Characteristic Transverse Shear Strength	τ _s	MPa	EAD 2.2.5 & ISO 10406-1 Clause 13	>140						
Strength of Bent Bar Sections	f _{ub}	MPa	EAD 2.2.15	>400						
Strength Reduction Factor (Before Alkali Exposure)	χ	%	EAD 2.2.15	>40%						

FIBER MASS CONTENT* (%)	MOISTURE ABSORPTION IN 24 H AT 50 °C (%)	MOISTURE ABSORPTION TO SATURATION AT 50 °C (%)	MEAN GLASS TRANSITION TEMPERATURE (DSC)* (°C)	MAXIMUM SERVICE TEMPERATURE (°C)	DEGREE OF CURE (%)
≥72	≤0,15	<0,75	>100	>70	≥95

Labeling & Certificates

Quality certificates are issued for each supply batch to ensure full traceability of the material. Production lot certificates, traceable by bar marks imprinted at intervals showing the bar diameter, stock order, and production date, are available upon request.

Storage

MATEENBAR is durable in outdoor environments with UV exposure for up to 3 months. Discoloration, fading, or chalking of the surface may occur due to oxidation or UV exposure. For extended outdoor exposure beyond 3 months, it is recommended to keep the bars in their packaging or cover them with a tarp.

MAKE
MORE
POSSIBLE™

Europe

767 Quai Des Allobroges

Chambery

Rhone-Alpes 73000, France

+33 4 79 75 55 52

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