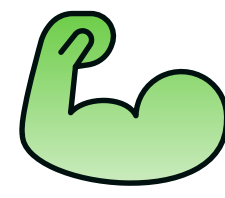


MATEENBAR™
FIBERGLASS REBAR
Stronger. Lighter.
Rustproof.

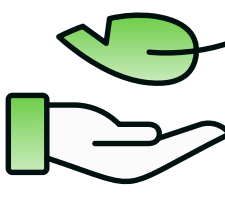


MATEENBAR Fiberglass Rebar is a stronger, lighter weight, rustproof concrete reinforcement designed to meet the codes and standards you trust, help you increase on-site productivity, and deliver more durable structures.

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 CE marked with ETA 25/0588 according to EAD 260023-00-0301, pursuant to Art. 26 of EU Regulation No. 305/2011, and holds an internationally recognized certificate of validity. Under CPR 305/2011, the AVCP system is regulatory level 1+.

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 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
Nominal area of the Bar	A _{nom}	mm ²	/	28,27	50,27	78,54	113,10	201,06	283,53	380,13	490,87	804,25
Effective Bar diameter	d _{eff}	mm	EAD 2.2.1 & 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	750,36
Linear weight (tolerance ±10%)	/	kg/m	/	0,076	0,096	0,165	0,225	0,414	0,593	0,776	1,03	1,603
Characteristic short-term tensile strength	f _{tk0}	MPa	EAD 2.2.2 & ISO 10406-1 Clause 6	>1000								>950
Characteristic Ultimate failure load	F	kN		>36	>47	>78	>102	>196	>278	>368	>486	>723
Average Modulus of elasticity	E _f	GPa		>50								
Tensile failure strain	ε _{ft}	%		>1,8								
Average interlaminar shear strength	τ _i	MPa	EAD 2.2.6	>40								
Average transverse shear strength	τ _s	MPa	EAD 2.2.5 & ISO 10406-1 Clause 13	>150								
Characteristic compressive strength	F _c	MPa	EAD 2.2.3 & ISO 604	>400								
Average elastic modulus in compression	E _c	GPa		>50								
Bond strength in concrete C20/25 by pull-out testing	τ _b	MPa	EAD 2.2.4 & ISO 10406-1 Clause 7	>11				>9				
Alkali Resistance – Rate of % tensile retention ⁽¹⁾	R _{ett}	%	EAD 2.2.16	>65%								
Alkali Resistance – Rate of % tensile retention ⁽²⁾				>95%								

⁽¹⁾Alkali solution as reported in ISO 10406-1:2015, with initial pH > 13 and made with 8.0 g of NaOH & 22.4 g of KOH for every liter of dionized water
⁽²⁾Alkali solution with initial 12,6 < pH > 13 and made with 118.5 g di Ca(OH)2, 0.9 g of NaOH & 4.2 g of KOH for every liter of dionized water

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 (%)
≥80	≤0,05	<0,75	Tg>100	Tg>70	≥99

Packaging

NOMINAL REBAR DIAMETER (MM)	LINEAR WEIGHT/ LENGTH (KG/M)	WEIGHT PER 6-METER BAR (KG)	NUMBER OF BARS PER MASTER BUNDLE (#)	WEIGHT OF A MASTER BUNDLE (KG)	NUMBER OF BARS IN A FULL 40' CONTAINER (#)
6	0,0757	0,45	500	227,1	55.000
8	0,096	0,58	500	288,0	43.000
10	0,165	0,99	500	495,0	25.000
12	0,225	1,35	250	337,5	18.500
16	0,414	2,48	200	496,0	10.000
19	0,593	3,56	100	356,0	7.000
22	0,776	4,66	100	466,0	5.300
25	1,03	6,18	50	309,0	4.000
32	1,603	9,62	50	481,0	2.550

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.

Applications

CONCRETE EXPOSED TO DE-ICING CHLORIDES

- Bridge Decks & Railings
- Median Barriers
- Approach Slabs, Salt Storage Facilities
- Continuously Reinforced Concrete Paving
- Precast Elements: Manhole Covers, Culverts, Rail
- Grade & Crossings, Full Depth Deck Panels, etc.

CONCRETE EXPOSED TO MARINE CHLORIDES

- Sea Walls, Wharfs, Quays & Dry Docks
- Coastal Construction exposed to Salt Fog
- Desalination intakes
- Port Aprons

CONCRETE EXPOSED TO HIGH VOLTAGE AND ELECTROMAGNETIC FIELDS

- Light & Heavy Rail 3rd Rail Isolation
- Hospital MRI Areas
- High Voltage Substations
- Cable Ducts & Banks
- Aluminum Smelters & Steel Mills
- Radio Frequency Sensitive Areas
- High Speed Highway Tolling Zones

CONCRETE SUSCEPTIBLE TO CORROSION

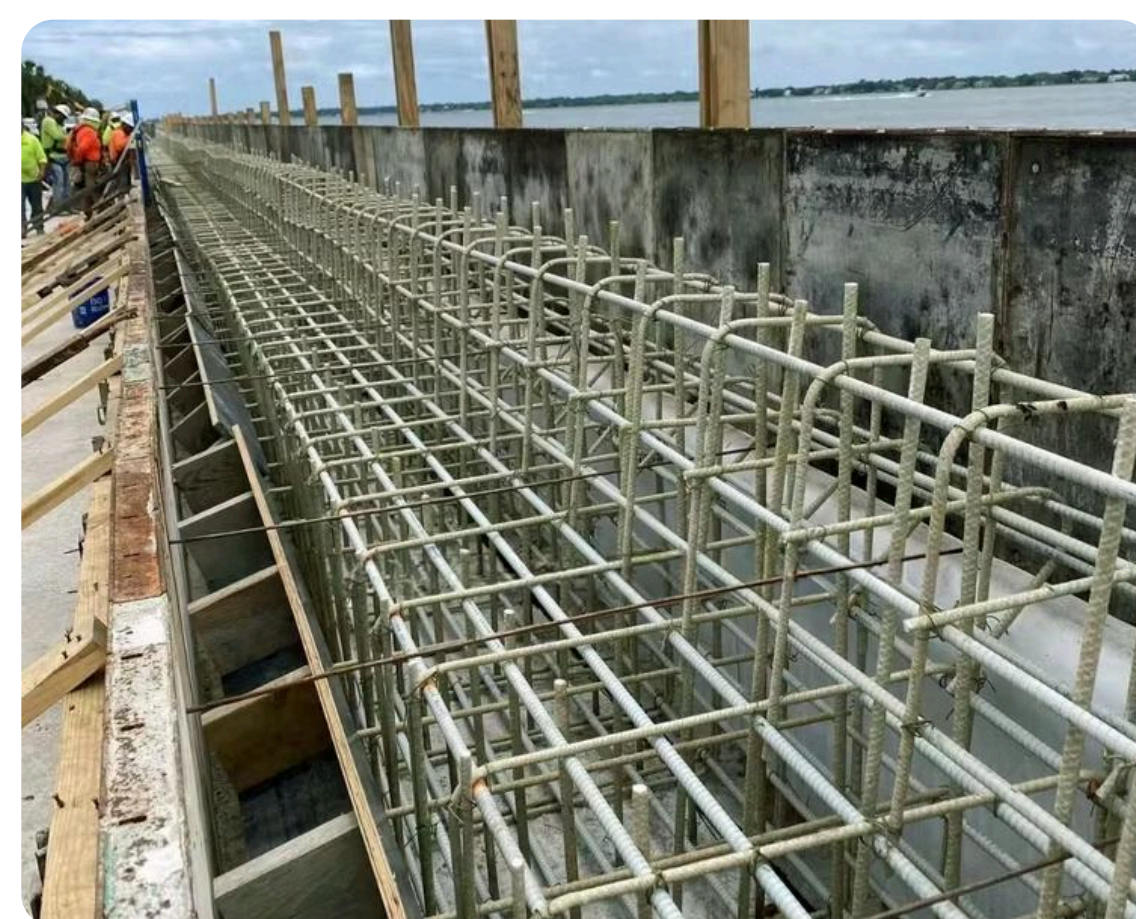
- Waste Water Treatment
- Inadequate Concrete Cover
- Architectural Concrete Elements
- Historic Preservation

TUNNELING AND MINING

- Tunnel Boring Machine “Soft-eye” Openings for Launch and Reception
- Sequential Excavation or NATM Tunneling
- Soil Nails & Earth Retention

MASONRY STRENGTHENING AND HISTORIC PRESERVATION

- Strengthening for “Event Loading” of Clay & Concrete Masonry
- Historic Preservation – Restoration and Pinning of Stone Elements

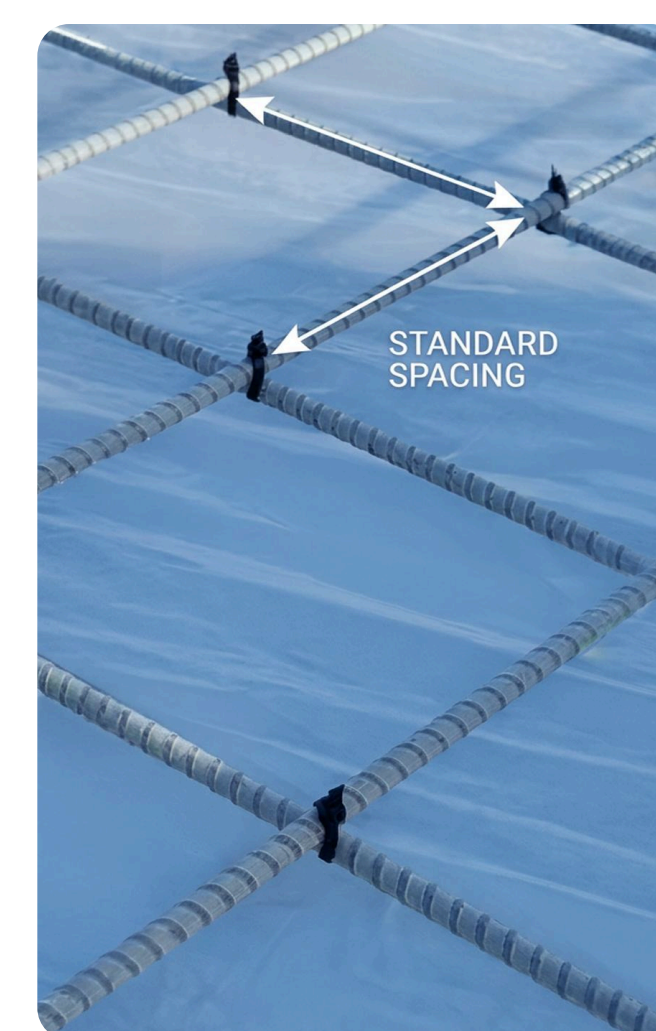


Preassembled Mesh Panels for Smarter Placement

For contractors who typically use welded mesh, MATEENBAR™ is available in preassembled panels, offered in 100mm, 150mm, 200mm (others upon request) spacing, tied together using standard rebar ties. These panels offer the layout efficiency of mesh while delivering the advantages of fiberglass rebar: stronger, lightweight and rustproof. It's a practical solution that saves time on-site and meets expectations for durability and performance.

MATEENBAR™ panels are tied at all key joints following the standard geometry, ensuring stability and consistency on-site.

- Standard Dimensions: 2.0 m or 2.2 m x 3.0 m, or 6.0 m (height x width; others upon request)
- Number of joints tied: all border joints secured, with diagonal ties across the panel for added strength.
- Type of ties: nylon plastic ties (>1 mm thickness, >100 mm length, >80 N strength) provide consistent performance and durability.



MAKE MORE POSSIBLE™

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