



Durable Fiberglass Rebar



Greenbar2X™ fiberglass rebar by Mateenbar® offers a superior alternative to traditional steel for residential and light commercial projects. Engineered with high tensile strength, durability, and corrosion resistance, Greenbar2X™ redefines concrete reinforcement. Its lightweight, rustproof, and UV-resistant design simplifies transport, handling, and installation, reducing labor costs and boosting productivity. Ideal for foundations, driveways, pool decks, patios, and more, Greenbar2X™ withstands all weather conditions for long-lasting, maintenance-free performance. Choose Greenbar2X™ for projects that demand strength, ease, and durability.

# Build Stronger. Faster. Better.

## Trusted Performance & Built for Pros

Greenbar2X™ provides Pros with a rustproof, high-strength alternative to traditional steel rebar, ensuring reliable performance in any weather without the risk of corrosion. Lightweight yet robust, it enables faster, safer installations, reducing both labor time and effort. Built to meet the demands of rigorous job sites, Greenbar2X™ offers a durable solution that lasts, delivering peace of mind where steel falls short.



## Meets or Exceeds Standards

Greenbar2X™ is engineered to meet or exceed key industry standards, codes, and specifications, giving contractors and professionals confidence in its performance, safety, and compliance. Designed for optimal results across construction projects, Greenbar2X™ supports a streamlined approval process to simplify permitting and reduce delays related to compliance checks.

**MATERIAL STANDARDS:** ASTM D7957 & CSA-S807 Grade I

**RESIDENTIAL & COMMERCIAL CONCRETE:** ICC-EER 5548, ICC-ESR 5548, ACI 332 & ACI 440.11

**MASONRY:** TMS 402/602-22

## Typical Concrete Applications

RESIDENTIAL	COMMERCIAL/ LIGHT INDUSTRIAL	MASONRY
<ul style="list-style-type: none"> <li>• Driveways</li> <li>• Sidewalks</li> <li>• Patio</li> <li>• Pool Decks and Walls</li> <li>• Slabs/Foundations</li> <li>• Footings</li> <li>• ICF Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Warehouse Floors</li> <li>• Agricultural Slabs</li> <li>• Loading Docks</li> <li>• Architectural Precast</li> <li>• Truck Aprons</li> <li>• Pour Back Slabs</li> </ul>	<ul style="list-style-type: none"> <li>• Stairwells</li> <li>• Basement Walls</li> <li>• Elevator Shafts</li> <li>• Step Crack Repair</li> <li>• Retrofit for Existing Masonry</li> <li>• Exterior Walls</li> </ul>



## Straight Bars Technical Data

NOMINAL DIAMETER			GUARANTEED TENSILE FORCE		ELASTIC MODULUS		GUARANTEED TRANSVERSE SHEAR CAPACITY		WEIGHT		NOMINAL CROSS-SECTIONAL AREA		OUTER DIAMETER (INCLUDING RIBS)	
Bar Size	mm	in	kN	kip	GPa	ksi	MPa	ksi	g/m	lb/ft	mm <sup>2</sup>	in <sup>2</sup>	mm	in
#3	9.5	0.375	59.2	13.3	46.8	6670	150	21.8	166	0.112	71	0.11	10.3	0.406
#4	12.7	0.5	97	21.8	46.8	6670	150	21.8	268	0.180	129	0.20	13.0	0.512
#5	15.9	0.625	130	29.1	46.8	6670	150	21.8	415	0.279	199	0.31	16.1	0.630

FIBER MASS CONTENT	MOISTURE ABSORPTION IN 24 H AT 50°C [122°F]	MOISTURE ABSORPTION TO SATURATION AT 50°C [122°F]	MEAN GLASS TRANSITION TEMPERATURE (DSC)		MEAN APPARENT HORIZONTAL SHEAR		MEAN TRANSVERSE SHEAR STRENGTH		BOND STRENGTH	
%	%	%	°F	°C	psi	MPa	ksi	MPa	psi	MPa
≥75	≤0.15	<0.75	≥212	≥100	≥6525	≥45	≥22	≥152	≥1102	≥76

Primary materials: vinyl ester and corrosion resistant E-CR glass.

Bond strength exceeds ASTM D7957.

For details on Mateenbar60™ structural product and bends, refer to those specific data sheets.

## Packaging

Manufactured and shipped in the USA. Master bundles are available in standard sizes\*. Prefabricated bends are available upon request.

BAR SIZE	WEIGHT PER 20-FT BAR (lb)	NO. OF BARS PER MASTER BUNDLE	WEIGHT PER MASTER BUNDLE (lb)	NO. OF BARS IN A FULL TRUCK LOAD (FTL)	WEIGHT PER FTL (lb/ton)
#3	2.24	500	1120	20,000	44800/22
#4	3.60	250	900	12,000	43200/22
#5	5.58	250	1395	7500	41850/21

\*Estimates only.

## Storage & Handling

Greenbar2X™ is outdoor-durable, though oxidation and UV exposure may cause surface discoloration, fading, or chalking. These effects are purely cosmetic and do not impact performance. For extended sunlight exposure, using a protective cover is recommended.

When handling and installing, use a fine-blade saw, carbide grit blade saw, grinder, or diamond blade for cutting; sealing ends is unnecessary. Space chairs properly for adequate concrete cover and use standard tying methods. Ensure concrete cover exceeds two bar diameters to prevent thermal cracking, and follow guidelines for general reinforcement practices.



Upgrade Your Project with  
**Greenbar2X™**

**Mateenbar Composite Reinforcements, LLC.**

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**mateenbar**®

Leading the World in Durable Fiberglass Rebar



Over 30 Years  
Proven Global Service



**greenbar 2X™**

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