



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.



Stronger



Faster
Install



Lighter



Rustproof



Meets or Exceeds
Standards

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

MASONRY: TMS 402/602-22

Typical Concrete Applications

RESIDENTIAL

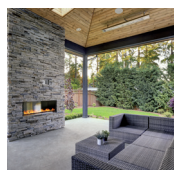
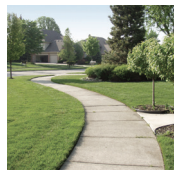
- Driveways
- Sidewalks
- Patio
- Pool Decks and Walls
- Slabs/Foundations
- Footings
- ICF Construction

COMMERCIAL/ LIGHT INDUSTRIAL

- Warehouse Floors
- Agricultural Slabs
- Loading Docks
- Architectural Precast
- Truck Aprons
- Pour Back Slabs

MASONRY

- Stairwells
- Basement Walls
- Elevator Shafts
- Step Crack Repair
- Retrofit for Existing Masonry
- Exterior Walls



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 ²	in ²	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
≥80	≤0.2	<0.75	≥212	≥100	≥6525	≥45	≥22	≥152	≥1102	≥7.6

Primary materials: vinylester and corrosion resistant E-CR glass.

Bond strength exceeds ASTM D7957.

The data herein applies to straight bars only. 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. Stock bent bars are available on 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

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, 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 bending and general reinforcement practices.



Upgrade Your Project with
Greenbar2X™

Mateenbar Composite Reinforcements, LLC.

2011 Highway 49, Concord, North Carolina, USA 28027

+1 (704) 662 2005

mateenbar.com



mateenbar®
Leading the World in Durable Fiberglass Rebar

Over 30 Years
Proven Global Service

Made in the
USA
★ with ★
local & global
materials

greenbar 2X™

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe on any patent or violate any law, safety code, or insurance regulation. We reserve the right to modify this document without prior notice. **Greenbar2X™ is manufactured by Mateenbar Composite Reinforcements, LLC.**