



Durable Fiberglass Rebar



Greenbar2X™ fiberglass rebar offers unmatched strength, durability, and corrosion resistance, making it the ideal reinforcement for both residential and commercial projects.

Unlike traditional steel, Greenbar2X eliminates the risk of rust-related structural weakening, ensuring long-term performance and reducing future maintenance costs. Designed to address common challenges with steel reinforcement, it provides lasting peace of mind and significant savings over time.

Build Stronger. Faster. Better.

Better than Steel.

Trusted Performance & Built for Pros

Greenbar2X™ offers superior corrosion resistance that reduces maintenance and extends concrete structure life. Its lightweight design ensures faster and more efficient installation, reducing time and labor costs. It's time to start building stronger, faster, better!



Code Approved*



Greenbar2X™ complies with leading industry standards and codes ensuring optimal performance, safety, and code compliance across your construction projects. A streamlined approval process simplifies project planning and permits, reducing 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

*includes Specifications

Typical Concrete Applications

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



Leading the World in Durable Fiberglass Rebar

Technical Data

Greenbar2X™ physical and mechanical properties are displayed here. The primary materials in Greenbar2X™ are vinylester and corrosion resistant E-CR glass.

Bar Size	NOMINAL DIAMETER		GUARANTEED TENSILE FORCE		ELASTIC MODULUS		GUARANTEED TRANSVERSE SHEAR CAPACITY		WEIGHT		NOMINAL CROSS-SECTIONAL AREA		OUTER DIAMETER (INCLUDING RIBS)	
	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

The data herein applies to straight bars only. For other sizes refer to the Mateenbar™ 60 Technical Data Sheet.

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

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™

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greenbar 2X™

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