greenbar 2X™

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
• Driveways	• Warehouse Floors	Stairwells
• Sidewalks	• Agricultural Slabs	• Basement Walls
• Patio	• Loading Docks	• Elevator Shafts
• Pool Decks and Walls	• Architectural Precast	• Step Crack Repair
• Slabs/Foundations	• Truck Aprons	• Retrofit for Existing Masonry
• Footings	• Pour Back Slabs	• Exterior Walls
• ICF Construction		

mateenbar®

Leading the World in Durable Fiberglass Rebar

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	mm2	in2	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	≥7.6

Primary materials: vinylester 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.

ONTARIO AGRA PIPING & SUPPLIES INC.

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Leading the World in Durable Fiberglass Rebar

Over 30 Years
Proven Global Service

greenbar 2X™

mateenbar 60™

Mateenbar60™ fiberglass rebar is corrosion-free, chemical-resistant, and engineered to deliver a sustainable 100-year design life with no maintenance required – outlasting steel in even the harshest environments. Mateenbar60™ redefines concrete reinforcement. Its lightweight, rustproof and UV-resistant design simplifies transport, handling, and installation, reducing labor costs and boosting productivity. Designed for heavy industrial projects and larger structural applications, Mateenbar60™ delivers trusted quality and performance, making it the right choice for bridges, multi-story buildings, and other demanding infrastructure projects.

Build Stronger. Faster. **Better.**

Trusted Performance & Built to Last

Mateenbar60™ delivers superior reliability for demanding infrastructure projects. Lighter and stronger than steel, Mateenbar60™ is designed for critical applications where durability and corrosion resistance are essential. It simplifies handling and installation, reducing labor costs without compromising performance. Mateenbar60™ empowers engineers and project managers to build infrastructure that lasts.

Meets or Exceeds Standards

Mateenbar60™ is engineered to meet or exceed key industry standards, codes, and specifications, giving engineers and project managers confidence in its performance, safety, and compliance. Designed for optimal results across construction projects, Mateenbar60™ supports a streamlined approval process to simplify permitting and reduce delays related to compliance checks.

MATERIAL STANDARDS: ASTM D7957, ASTM D8505 and CSA-S807 Grade III

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

MASONRY: TMS 402/602-22

Typical Concrete Applications

TRANSPORTATION STRUCTURES	MARINE & COASTAL	BUILDINGS	HIGH VOLTAGE & ELECTRO-MAGNETIC FIELDS
• Bridge Decks	• Seawalls	• Balconies	• Light & Heavy Rail
• Traffic Barriers	• Piles	• Wall Panels	• MRI Rooms
• Civil Roadways	• Coastal Bridges	• Foundations	• Data Centers
• Overpasses	• Boat Ramps	• Stadiums	• Power Plant Facilities
• Rail Systems	• Offshore Structures	• Columns	• Compass Calibration Pads
		• Beams	

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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	kN	kip	GPa	ksi	MPa	ksi	g/m	lb/ft	mm2	in2	mm	in
#3	10	71	16.0	60	8700	180	26.1	185	0.124	71	0.110	10.8	0.425
#4	13	129	29.0	60	8700	180	26.1	315	0.212	129	0.200	14.0	0.551
#5	15/16	199	44.0	60	8700	180	26.1	476	0.320	199	0.310	17.2	0.677
#6	19/20	284	64.0	60	8700	180	26.1	702	0.472	284	0.440	20.6	0.807
#7	22	387	87.0	60	8700	180	26.1	960	0.645	387	0.600	24.1	0.949
#8	25	510	115.0	60	8700	180	26.1	1252	0.841	510	0.790	27.4	1.087
#9	30	600	134.9	60	8700	180	26.1	1575	1.058	645	1.000	30.8	1.213

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	
%	%	%	°F	°C	psi	MPa	ksi	MPa
≥75	≤0.1	<0.5	≥212	≥100	≥6525	≥45	≥26.1	≥180

Primary materials: vinylester and corrosion resistant E-CR glass.
Bond strength exceeds ASTM D7957 and D8505.
For details on Greenbar2X™ flatwork 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 and additional bar size weights 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	2.48	500	1240	17500	43400/22
#4	4.24	250	1060	10250	43460/22
#5	6.40	250	1600	7000	44800/22

*Estimates only.

Storage & Handling

Mateenbar60™ 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.

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