

mateenbar 60™

Durable Fiberglass Rebar

Mateenbar60™ fiberglass rebar is corrosion-free, chemical-resistant, and designed for a 100-year service life with no maintenance required: outlasting steel in even the harshest environments. Made in the USA and fully Build America, Buy America (BABA) compliant, Mateenbar60™ redefines concrete reinforcement for large-scale infrastructure. Its lightweight, rustproof, and UV-resistant design simplifies transport, handling, and installation while reducing labor costs and boosting productivity. Paired with stocked and made-to-order Blackbends™, Mateenbar60™ delivers lasting performance for bridges, multi-story buildings, seawalls, and other demanding structural projects.

Build Stronger. Faster. Better.

distributed by

PARADIGM INNOVATIVE COMPOSITES

Trusted Performance & Built to Last

Engineers and project managers rely on Mateenbar60™ for its consistency and proven durability in critical infrastructure. Factory-tested and backed by decades of global use, it removes the risk of corrosion-related failures and costly maintenance cycles. Its reliability ensures predictable performance over the full life of a project, giving decision-makers the confidence to design and build with long-term resilience in mind.



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	



mateenbar®

Leading the World in Durable Fiberglass Rebar

Straight Bars Technical Data

BAR NUMBER	NOMINAL DIAMETER		GUARANTEED ULTIMATE TENSILE STRENGTH		GUARANTEED TENSILE FORCE		WEIGHT	NOMINAL CROSS-SECTIONAL AREA		OUTER DIAMETER (INCLUDING RIBS)	
	mm	in	MPa	ksi	kN	kip	lb/ft	mm^2	in^2	mm	in
#3 / M10	9.5	0.375	1000	145.5	71	16.0	0.127	71	0.110	10.9	0.429
#4 / M13	12.7	0.500	961	139.5	124	27.9	0.215	129	0.200	14.0	0.551
#5 / M16	15.9	0.625	912	131.6	181.5	40.8	0.323	199	0.310	17.2	0.677
#6 / M19	19.1	0.750	898	130.2	254.9	57.3	0.472	284	0.440	20.6	0.811
#7 / M22	22.2	0.875	871	126.3	337.2	75.8	0.630	387	0.600	24.1	0.949
#8 / M25	25.4	1.000	828	120.1	422.1	94.9	0.825	510	0.790	27.4	1.079
#9 / M29	28.7	1.128	793	115.0	511.5	115.0	1.072	645	1.000	31.4	1.236
#10 / M32	32.3	1.270	753	109.2	617	138.7	1.332	819	1.27	35.0	1.378

FIBER MASS CONTENT	MOISTURE ABSORPTION IN 24 H AT 50°C [122°F]	MOISTURE ABSORPTION TO SATURATION AT 50°C [122°F]	ELASTIC MODULUS		MEAN GLASS TRANSITION TEMPERATURE (DSC)		MEAN APPARENT HORIZONTAL SHEAR		MEAN TRANSVERSE SHEAR STRENGTH	
%	%	%	GPa	ksi	°F	°C	psi	MPa	ksi	MPa
≥75	≤0.1	<0.5	60	8700	≥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® and any related bends product, refer to those specific product brochures.

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)	NET WEIGHT PER FTL (lb)
#3	2.54	500	1,270	17,500	44,450
#4	4.30	250	1,075	10,250	44,075
#5	6.46	250	1,615	6,750	43,605

*Estimates only. Dunnage or other packaging except the bundle straps are not included in the net weight.

Storage & Handling

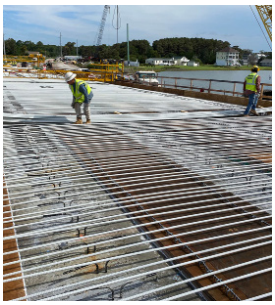
Mateenbar60™ is outdoor-durable, though oxidation and UV exposure may cause surface discoloration, fading, or chalking. These effects are purely cosmetic and do not impact performance. For extended sunlight exposure, using a protective cover is recommended.

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.

Get Mateenbar at Paradigm:

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mateenbar®
Leading the World in Durable Fiberglass Rebar







Made in the USA with local & global materials

Over 30 Years
Proven Global Service

BUILT IN AMERICA BUY AMERICA COMPLIANT

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