Proudly Made in the USA
from local and imported materials

Technical Data

Mateenbar™ 60 GFRP Rebar

Mateenbar™ 60 (ASTM D8505, CSA-S807 Grade III)

	Units	#2 (6mm)	#3 (10mm)	#4 (13mm)	#5 (15/16mm)	#6 (19/20mm)	#7 (22mm)	#8 (25mm)	#9 (30mm)	#10 (32mm)
Guaranteed tensile force	kN	27	71	129	199	284	387	510	600	735
	kip	7.2	16.0	29.0	44.0	64.0	87.0	115.0	134.9	165.2
Elastic Modulus	GPa	60								
	ksi	8700								
Guaranteed transverse shear capacity	MPa	180								
	ksi	26.1								
Weight	g/m	97	185	315	476	702	960	1252	1575	2050
	lb/ft	0.065	0.124	0.212	0.320	0.472	0.645	0.841	1.058	1.378
Nominal cross-sectional area	mm^2	32	71	129	199	284	387	510	645	819
	in^2	0.049	0.110	0.200	0.310	0.440	0.600	0.790	1.000	1.270
Outer diameter (including ribs)	mm	8.2	10.8	14.0	17.2	20.6	24.1	27.4	30.8	35.0
	in	0.315	0.425	0.551	0.677	0.807	0.949	1.087	1.213	1.378
Primary Materials	Epoxy Backboned Vinylester and Corrosion Resistant E-CR Glass									

The data herein applies to straight bars only. For data on Mateenbar™rebar bends, please refer to the Mateenbar™ rebar bends data sheet.

Code-Approved and Proven Performance

MATERIAL STANDARDS
Mateenbar™ 60 complies with ASTM D8505 and CSA-S807 Grade III material standards.

RESIDENTIAL CONCRETE
Mateenbar™ 60 can be used in residential concrete, including footings and foundation walls, as prescribed in ICC-EER 5548, or as designed using ACI 332 and ACI 440 design methodology.

COMMERCIAL CONCRETE
Mateenbar™ 60 can be used in commercial concrete design using concrete code ACI 440.11-22, ICC-ESR 5548 and AASHTO LRFD Bridge Design Guide Specifications for GFRP-Reinforced Concrete.

MASONRY
Mateenbar™ 60 can be used with TMS 402/602-22 Appendix D as reinforcing for masonry walls.

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