Mateenbar™ 60

Mateenbar™ 60 is the high-performance glass-fibre reinforced polymer (GFRP) rebar designed for heavy load applications in demanding environments. It is the proven solution to corrosion, replacing steel rebar for concrete reinforcement. Code-compliant and manufactured to the highest quality standards, it delivers durability and performance.

Mateenbar™ 60 is designed for engineers and government agencies looking to achieve the best economic, performance and environmental outcomes on their infrastructure projects.

Build Stronger. Faster. Better.

Trusted Performance

Engineers and asset owners rely on Mateenbar™ 60 for quality, high durability and long life cycle in critical infrastructure. Mateenbar™ 60 is a corrosion-resistant, high-strength alternative to traditional steel rebar, ensuring reliable performance in demanding and corrosive environments.

Code-Compliant

Mateenbar™ 60 rebars are engineered and tested to comply with the following industry standards, codes, and specifications for GFRP reinforcement.

MATERIAL STANDARDS: AS 5204 Grade 60, ASTM D7957, ASTM D8505 and CSA S807 Grade III material standards. The naming of bar sizes differ between AS, ASTM & CSA standards, contact your Mateenbar™ representative for details

TRANSPORT MAIN ROADS AUSTRALIA: Approved by TMR to MRTS 271

RESIDENTIAL CONCRETE: ICC-EER 5548 and ACI 332

COMMERCIAL CONCRETE: ACI 440.11-22, ICC-ESR 5548 and AASHTO LRFD Bridge Design Guide Specifications for GFRP-Reinforced Concrete

MASONRY: TMS 402/602-22 Appendix D

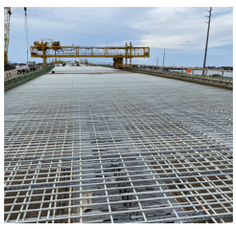
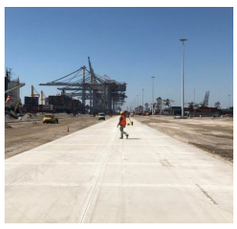
Technical Data AS 5204

	Units	6mm	8mm*	10mm	13mm	15/16mm	19/20mm	22mm	25mm	30mm	32mm
Guaranteed Tensile Force	kN	27	1000	71	129	199	284	387	510	600	735
Guaranteed Tensile Strength	MPa	1000	1000	1000	1000	1000	1000	1000	900	900	800
Elastic Modulus	GPa	60									
Guaranteed Transverse Shear Capacity	MPa	180									
Weight	g/m	97	125	185	315	476	702	960	1252	1575	2050
Nominal Cross-sectional Area	mm^2	32	50	71	129	199	284	387	510	645	819
Outer Diameter (including ribs)	mm	8.2	9.0	10.8	14.0	17.2	20.6	24.1	27.4	30.8	35.0
Glass Transition Temperature	100°C										
Primary Materials	Epoxy Backboned Vinylester and Corrosion-resistant E-CR Glass										

The data herein applies to straight bars only. For data on bends, please refer to the Mateenbar™ rebar bends data sheet.
For other sizes refer to the Mateenbar™ 46 Technical Data Sheet.
*8mm is not a standard size as per AS 5204.

Typical Concrete Applications

TRANSPORTATION STRUCTURES	MARINE & COASTAL STRUCTURES	BUILDINGS	HIGH VOLTAGE & ELECTRO-MAGNETIC APPLICATIONS
• Bridge Decks • Traffic Barriers • Civil Roadways • Overpasses • Culverts	• Seawalls • Piles • Coastal Bridges • Boat Ramps • Offshore Structures • Ports	• Energy Efficient Buildings • Refrigerated Warehouses • Water and Wastewater Treatment Facilities • Cooling Towers	• Light & Heavy Rail • Data Centres • Substation Facilities • Airport Compass Calibration Pads • Aluminium Smelters

Infrastructure-Grade Quality Assurance

Every Mateenbar™ product is manufactured under ISO-certified quality control systems. This reduces engineering, procurement, and asset risk.

Mateenbar™ is approved in Australia by TMR to MRTS 271.

Mateenbar™ is certified under the Environmental Product Declaration (EPD) system, giving professionals the information required to make informed decisions that support both structural integrity and sustainability goals.

Global technical support and backed by Pultron's structural performance warranty.

Pultron Infrastructure Solutions

Pultron Composites is a global specialist in the development and manufacture of high-performance glass fibre-reinforced polymer (GFRP) composites using the pultrusion process. We engineer GFRP composite solutions for infrastructure that deliver exceptional durability and long-term performance.

INFRASTRUCTURE SOLUTIONS PRODUCT RANGE

- **Mateenbar™ Concrete Reinforcement** – GFRP rebar technology for projects ranging from residential to heavy load application in demanding environments. Mateenbar™ Bend shapes are available.
- **Mateenbar™ Mesh** – pre-assembled grids of Mateenbar™ 46 rebars for a lighter and faster to install.
- **Dowels** – Corrosion-resistant joining system for concrete pavement construction.
- **Form Ties** – High-strength form tie system that requires no patching after formwork removal.
- **Rock Bolts and Soil Nails** – Precision machined-threaded bolts engineered for maximum shear strength in tunnelling, ground retention, and stabilisation applications.

Contact us for orders and technical support

We work in partnership with engineers, contractors, and asset owners providing technical guidance, code-compliant infrastructure products and reliable supply for critical infrastructure projects.

New Zealand: (+64) 6 867 8582
salesnz@mateenbar.com

Australia: (+61) 452 601 790 / (+61) 452 601 721
salesau@mateenbar.com

mateenbar.com.au

mateenbar™
Leading the World in Durable Fibreglass Rebar

SYSTEM CERTIFICATION ISO 9001 SGS

EPD INTERNATIONAL EPD SYSTEM

Manufactured in New Zealand

Testing, Standards & Warranty: All Mateenbar™ products are tested in accordance with recognised international standards, including ASTM and ACI methodologies, and are supplied subject to Pultron Composites' standard warranty terms. Information provided reflects current production data and is believed to be reliable. Pultron Composites reserves the right to make improvements to products and processes that may result in changes to physical or mechanical properties.