



Mateenbar™ Mesh

Mateenbar™ Mesh is a glass fibre-reinforced polymer (GFRP) rebar solution designed to replace traditional steel welded wire mesh. This high-strength and lightweight product makes reinforcement installation faster and easier whilst delivering superior corrosion resistance and durability.

Ideal for concrete slabs, pavements, slab-on-grade, marine structures, and bridge decks, Mateenbar™ Mesh is engineered for concrete applications where long-term durability and fast installation are essential.

Lightweight. Faster Install.

Trusted Performance

Mateenbar™ Mesh delivers high strength and durability with easy handling. Being corrosion-resistant, it's ideal for marine, coastal, and chemically aggressive environments – significantly reducing maintenance requirements and total lifecycle costs. It is lighter than steel, allowing faster, less tiring installation to keep your project on track.



Designed to International Standards

Mateenbar™ Mesh is engineered to meet key international standards, codes, and specifications, giving engineers and project managers confidence in its performance, safety, and compliance. Design standards make it easy to switch from designing with steel to designing with GFRP Rebar.

MATERIAL STANDARDS: Mateenbar™ Mesh is assembled from Mateenbar™ GFRP rebars, which comply with Australian Standard AS 5204, ASTM D7957 and CSA S807 GI

COMMERCIAL CONCRETE: Mateenbar™ can be used in commercial concrete design using concrete code ACI 440.11-22 and ICC-ESR 5548

Mateenbar™ Mesh Sizes

DIAMETER	MESH SIZE		SPACING	MESH AREA
Bar Size (mm)	Width (m)	Length (m)	(mm)	(m^2)
6 / 8 / 10 / 12	2.2	5.8	100 x 100	12.76
			150 x 150	
			200 x 200	
			250 x 250	
			300 x 300	

Mateenbar™ Mesh uses stainless steel wire or plastic cable ties. Other styles are available on request.
Other mesh sizes available on request

Technical Data: Mateenbar™ Mesh

	Units	6mm	8mm*	10mm	12mm	16mm
Guaranteed Tensile Force	kN	27	42	59.2	97	130
Guaranteed Tensile Strength	MPa	840	840	830	740	650
Elastic Modulus	GPa	46.8				
Guaranteed Transverse Shear Capacity	MPa	150				
Weight	g/m	97	97	170	315	415
Nominal Cross-sectional Area	mm^2	32	50	71	129	199
Outer Diameter (including ribs)	mm	8.2	8.2	10.3	14.0	16.0
Glass Transition Temperature	100°C					
Primary Materials	Epoxy Backboned Vinylester and Corrosion-resistant E-CR Glass					

The data herein applies to straight bars only.
Mateenbar™ 60 mesh available on request.
*8mm is not a standard size as per AS 5204

Infrastructure-Grade Quality Assurance

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

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.

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mateenbar™
Leading the World in Durable Fibreglass Rebar

EPD
INTERNATIONAL EPD SYSTEM

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.