

Pultron Dowels

Pultron Dowels are a high-performance GFRP (Glass Fibre Reinforced Polymer) solution engineered to deliver superior load transfer across concrete expansion joints with maximum shear strength. This corrosion-resistant joining system offers the longest life cycle of all dowel types.

Dowels are used extensively in concrete roads, pavements, underpasses in extreme conditions, and a range of other applications where corrosion or electromagnetic interference is a concern.

Corrosion-free Joining System

Trusted Performance

Pultron Dowels will not corrode, even when exposed to salty soils. Optimised for high shear strength and low bond strength, they provide excellent load transfer with no greasing, sleeving or preparation required – making installation quicker and more efficient.



Code-Compliant

Pultron Dowels are engineered and tested to comply with the following industry standard.

MATERIAL STANDARDS: ASTM D8444/D8444M-24 Standard Specification for Fibre Reinforced Polymer Dowel Bars for Load Transfer Between Concrete Slabs

Technical Data

	Units	16mm	19mm	22mm	25mm	32mm	38mm	44mm
Actual Diameter	mm	16.0	19.0	21.8	25.0	31.4	37.5	44.0
Shear Strength	MPa	160						
Weight	g/m	413	578	760	1000	1575	2250	3100
Primary Materials	Epoxy Backboned Vinylester and Corrosion-resistant E-CR Glass							

Installation Methods

Pultron GFRP Dowels can be installed using the same proven methods and equipment commonly used for traditional steel dowels. They are fully compatible with standard installation techniques, including:

- Slip form paver baskets
- Dowel bar insertion machines
- Precast panels
- Retrofits and repairs.







pultron® COMPOSITES

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Typical Dowel Applications

TRANSPORTATION

- Concrete roads and pavements
- Underpasses/Overpasses
- Approach Slabs
- Paths



INDUSTRIAL AND MARINE

- Ports AGV pathways
- Mechanically-stabilised wall panels
- Commercial carparks
- Expansion and contraction joints



Infrastructure-Grade Quality Assurance

Pultron Dowels are manufactured under ISO-certified quality control systems. This reduces engineering, procurement, and asset risk.

Pultron Dowels are 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.

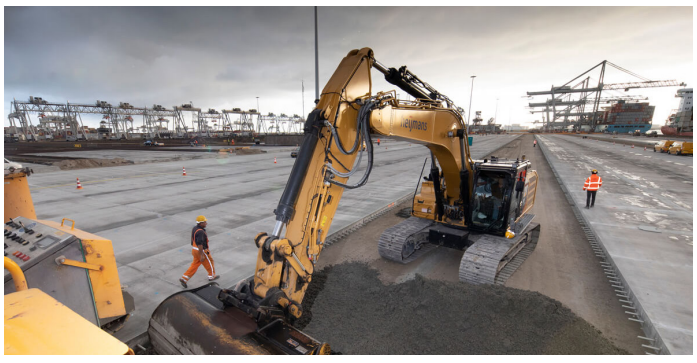
Contact us for orders and technical support

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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pultron® COMPOSITES

ISO 9001 SYSTEM CERTIFICATION SGS

EPD INTERNATIONAL EPD SYSTEM

Manufactured in New Zealand

Testing, Standards & Warranty: Pultron 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.