

RCM ULTRA DOWEL



Smarter Load Transfer. Stronger Concrete.

Performance You Can Trust

RCM Ultra Dowel™ is built for high-performance, long-lasting concrete joints. Manufactured from corrosion-resistant fiberglass composite, it requires no surface treatments or protective coatings — reducing labor, waste, and long-term maintenance.

- No surface treatment needed — no greasing, sealing, or coating required
- Fully corrosion-resistant — immune to chloride attack, rust, and chemical degradation
- Lightweight and easy to handle — simplifies installation and speeds up jobsite work

Mechanical Properties

Diameter	Nominal cross sectional area	Unit weight/length	Longitudinal shear strength per ASTM D4475 short beam shear	Transverse shear strength per ASTM D7617 double shear	Transverse shear load
5/8 in 16 mm	0.307 in ² 198 mm ²	0.3 lbs/ft 447 g/m	7252 psi 50 MPa	23206 psi 160 MPa	7122 lbs 32 kN
3/4 in 19 mm	0.442 in ² 285 mm ²	0.38 lbs/ft 566 g/m			10251 lbs 46 kN
1 in 25 mm	0.785 in ² 507 mm ²	0.65 lbs/ft 967 g/m			18237 lbs 81 kN
1 1/4 in 32 mm	1.227 in ² 792 mm ²	1.05 lbs/ft 1563 g/m			28488 lbs 127 kN
1 1/2 in 38 mm	1.767 in ² 1140 mm ²	1.65 lbs/ft 2456 g/m			41005 lbs 182 kN



Applications

RCM Ultra Dowel™ is ideal for structural concrete applications where durability, reliability, and corrosion resistance are essential:

- Jointed concrete paving
- Airport runways and taxiways
- Toll roads and high-speed highways
- Canals and water infrastructure
- Industrial and warehouse flooring
- Facilities requiring electromagnetic transparency



RCM ULTRA DOWEL

Advantages

- No rust, ever — full resistance to chloride and chemical attack •
- Up to 4x lighter than steel — lowers shipping and labor costs •
 - Zero maintenance — no coating, greasing, or touch-ups •
- Non-magnetic and electrically neutral — ideal for sensitive environments •
- Extended service life — especially in aggressive or coastal conditions •
 - Smooth cylindrical profile — ensures optimal load transfer •

