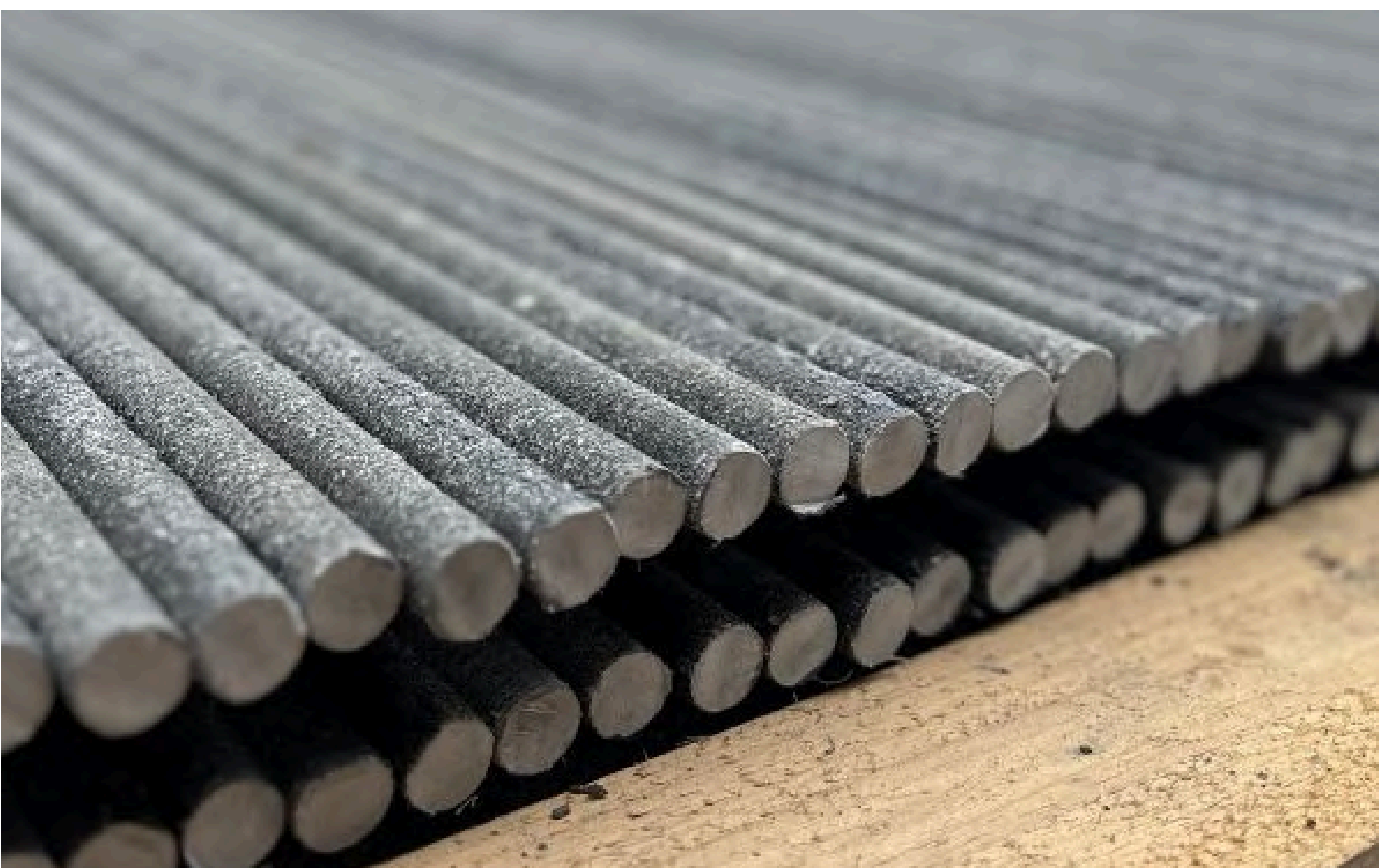


# Fibreglass Dowels

## PRODUCT DESCRIPTION

Danterr's Fibreglass Dowels are engineered from Glass Fibre Reinforced Polymer (GFRP) to deliver a durable, non-corrosive solution for load transfer across concrete joints. Free from metal, these dowels are non-magnetic and chemically resistant, making them ideal for high-performance infrastructure applications.

Manufactured to ASTM D7913/7913M standards, they combine lightweight usability with high tensile, shear, and adhesive strength—ideal for exposed environments or locations sensitive to electrical and thermal dynamics.



## FEATURES & BENEFITS

- Corrosion-free GFRP – ideal for chemical and water-exposed settings
- Lightweight with excellent handling and reduced installation effort
- Non-magnetic & electrically stable, safe for EMF-sensitive areas
- Thermal insulation prevents thermal bridging in slabs
- High mechanical strength (tensile & shear)
- Strong adhesion to concrete substrate
- Reliable load transfer and slab movement control

## APPLICATIONS

- Civil and industrial infrastructure projects
- Water treatment plants and chemical facilities
- Tunnels and below-grade concrete slabs
- Roadways, bridges, and coastal structures
- EMF-sensitive areas such as hospitals and data centres
- High-durability concrete pavements in corrosive environments
- Architectural concrete where thermal bridging must be minimised

## TECHNICAL SPECIFICATIONS

### TYPICAL PROPERTIES

Property	Value
Material	Glass Fibre Reinforced Polymer (GFRP), compliant with ASTM D7913/7913M
Profile	Round dowel bar
Diameter	Standard diameters available upon request
Length	Custom lengths up to 6000mm available
Tensile Strength	> 550 MPa
Shear Strength	> 180 MPa
Adhesive Bond	≥ 18 MPa
Magnetic Properties	Non-magnetic
Chemical Resistance	High – acid, alkali, salt
Thermal Conductivity	Low – provides insulation

### SAFETY & HANDLING

- Non-hazardous; no solvents or metals
- Wear safety gloves to avoid abrasion injuries
- No special handling equipment required

### STORAGE & SHELF LIFE

- Store in a clean, dry environment
- Use before 12 months after receipt for best performance
- Avoid direct UV exposure when stored outdoors

### AVAILABILITY & SIZING

All fibreglass dowels are made to order and can be customised to suit specific project requirements, including diameter and length (up to 6000mm).