

Product Code Guide	Bolt Type	Diameter	Length	Tensile Strength	Breakout Nut
	FGB	20R	0120	T15	H

Physical Properties

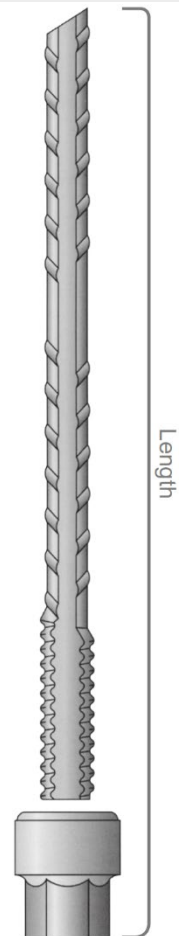
	Typical		
	15 Tonne Dowel	20 Tonne Dowel	30 Tonne Dowel
Tensile Strength	150kN	200kN	300kN
Nut/Thread Tensile Strength	78kN	83kN	88kN
Double Shear Strength	96kN	114kN	124kN
Nut Breakout Torque	38-41Nm		
Mass Per Metre	645g/m	650g/m	691g/m
Nominal Bolt Diameter	Ø20mm		
Nominal Cross Sectional Area	310mm ²	310mm ²	314mm ²
Specific Gravity in [grams/cm ³]	1.8	1.8	1.9

Key Features

- The Ø18 – 20mm tapered shank dowels are pull formed and ribbed over its full length to provide maximum load transfer.
- Thread form is a full rope thread, 200mm long and Ø25mm diameter, and is fitted with an integral drive nut with radial face.
- All Ø20mm fibreglass dowels are designed to be used with resin anchors and be fully encapsulated.
- Only the 20 and 30 tonne capacity fibre glass dowels should be used with cementitious grouts.
- Bolts over 2,400mm in length are available in all dowel types by negotiation.
- Australian Patent Numbers 631881 and 65494 are applicable to these bolts.

Installation Guidelines

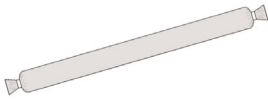

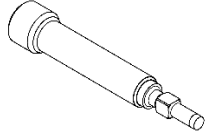
- Ø26-27mm hole diameters are preferred. Holes over Ø28mm diameter are not recommended.
- Hole depth is critical. Hole depth should be shorter than the bolt to allow for the height of the washer and nut.
- After insertion of the resin anchors, the bolt is rotated through the anchor(s) while being pushed to the back of the hole.
- It is important to follow the resin anchor recommended mixing and hold times as printed on the chemical anchor cartons.
DO NOT OVER MIX.



Product Accessories Examples

- DSI Underground manufactures a comprehensive range of plates specifically designed for this range of Bolts.

Typically, plates used are:

Product Group	Products		
	Resin	Plates	Spanner
Product Imagery			
Product Code Prefix	RS	PP230	SD22

Storage

- Must be stored out of direct sunlight.

Standard Length & Packaging

- Standard bolt lengths range from 1,200 to 1,800mm in 300mm increments. Other lengths are available by negotiation.
- 1,200mm long dowels are packed in 10's then palletized in lots of 1000.
- 1,500 and 1,800mm long dowels are packed in 10's then palletized in lots of 500.

Notes

- DSI Underground is Quality Assured to ISO 9001:2015

Phone APP

- Want to know more; our full product range, knowledge centre, and other details are available via the App; available on iOS and Android devices by searching "DSI Underground".



iOS



Android