

# FIBREGLASS DOWEL 20 TONNE

**FGD22**

Grip Cuttable Products

Product Code Guide	Bolt Type	Diameter	Length	Tensile Strength	Breakout Nut
	FGD	22R	150	T20	H

## Physical Properties

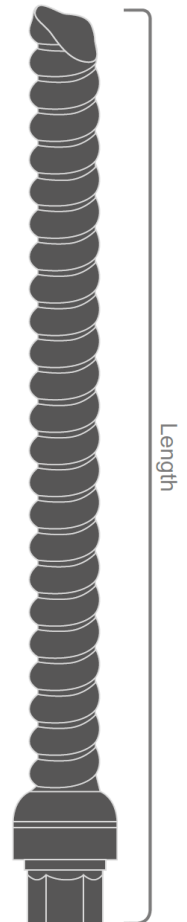
	Minimum	Typical
Tensile Strength	200kN	300kN
Nut/Thread Tensile Strength	70kN	90kN
Double Shear Strength	90kN	110kN
Nut Breakout Torque	60-100Nm	70Nm
Mass Per Metre	720g/m	
Nominal Bolt Diameter	Ø22mm	
Nominal Cross Sectional Area	280mm <sup>2</sup>	
Thread Dimension	Ø22mm Right Hand Continuous 10mm Pitch	
Bar Torsional Strength	75Nm	100Nm

## Key Features

- The 20-tonne dowel has a Ø22mm continuous right hand thread over its full length and is typically supplied with an integral drive nut.
- The integral domed drive nut is 36mm AF and factory pinned requiring a breakout torque of 60 to 100Nm. Alternatively, a fixed blind nut is available for thrust dowel applications.
- The Ø22mm fibreglass dowels are designed to be used with resin anchors and be fully encapsulated.
- Dowels are machined with a chisel point end at one end.
- The nut load capacity is typically 70kN for both the tensionable and fixed blind nut.

## Installation Guidelines

- Ø26-28mm 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.



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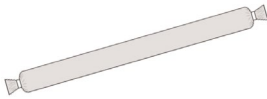

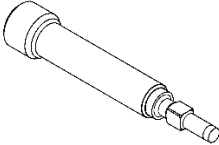
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## Product Accessories Examples

- 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 Dolly
Product Imagery			
Product Code Prefix	RA0	PP230	SSD22

## 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