

FIBREGLASS DOWEL 40T

FGD32

Grip Cuttable Products

Product Code Guide	Bolt Type	Diameter	Length	Tensile Strength	Breakout Nut
	FGD	32R	120	T40	H

Physical Properties

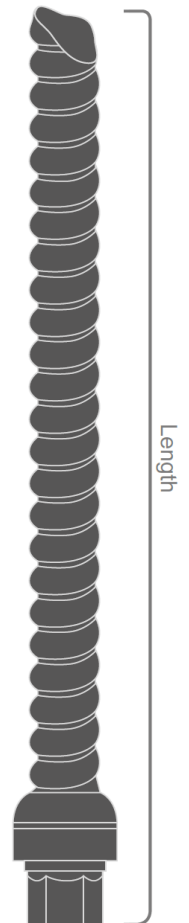
	Minimum	Typical
Tensile Strength	400kN	510kN
Nut/Thread Tensile Strength	90kN	130kN
Double Shear Strength	250kN	280kN
Nut Breakout Torque	100Nm	120Nm
Mass Per Metre	1.52g/m	
Nominal Bolt Diameter	Ø32mm	
Nominal Cross Sectional Area	733mm ²	
Thread Dimension	Ø32mm Right Hand Continuous 10mm Pitch	
Bar Torsional Strength	250Nm	280Nm

Key Features

- The 40-tonne dowel has a Ø32mm continuous right hand thread over its full length and is typically supplied with an integral drive nut.
- The integral domed drive nut is 46mm AF and factory pinned requiring a breakout torque of 100Nm. Alternatively, a fixed blind nut is available for thrust dowel applications.
- The Ø32mm fibreglass dowels are designed to be used with resin anchors and be fully encapsulated.
- Dowels are machined with an angle point end at one end.
- The nut load capacity is typically 130kN for both the tensionable and fixed blind nut.

Installation Guidelines

- Ø38mm hole diameters are preferred.
- Hole depth is critical. Hole depth should be 75mm shorter than the bolt to allow for the height of the washer and nut, maximizing resin encapsulation.
- 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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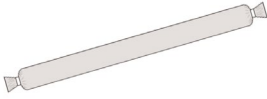

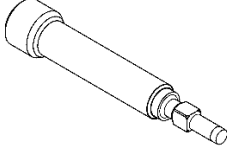
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Product Accessories Examples

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

Typically, plates used are:

	Products		
Product Group	Resin	Plates	Spanner
Product Imagery			
Product Code Prefix	RO	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

- Only DSI Underground rock bolt components should be used to enable the optimum performance of the bolt system to be obtained.
- 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