

T20 WRIGGLE BOLT THREAD BAR



Ø20mm Wriggle Bolt

ROCK BOLTS - SOLID BAR

| Product Code Guide | Bolt Type | Diameter | Length | Drive Nut & Accessories | Coating | Packaging |
|-----------------------|-----------|----------|--------|-------------------------|---------|-----------|
| | WT | 2 | 240 | DFP | GAL | 100 |

Physical Properties

| | Minim | ium | Typical | | |
|---------------------------|--------------------|-------|---------|-------|--|
| Yield Strength | 540MPa | 160kN | 615MPa | 185kN | |
| Tensile Strength | 660MPa | 195kN | 725MPa | 215kN | |
| Calculated Shear Strength | 120k | (N | 130kN | | |
| Standard Elongation | 169 | 6 | 19% | | |
| Uniform Elongation | | | 12 | % | |
| Mass Per Metre | 2.47kg | | | | |
| Cross Sectional Area | 300mm ² | | | | |
| Bar Core Diameter | Ø20.0mm | | | | |
| Major Bar Diameter | Ø22.1mm | | | | |

Key Features

- The "Wriggle" bolting system was designed to assist in the installation of rock bolts with resin anchors in larger diameter holes (Ø35 – Ø38mm) by providing:
 - Enhanced mixing of resin anchors.
 - Increased load transfer capabilities.
- The Wriggle section of the bolt increases the effective diameter of the bolt to assist in resin mixing and maximise load transfer.
- Debonded sections available.
- Corrosion protection may be provided by hot dip galvanising or alternate coatings.

Installation Guidelines

- The rock bolt hole is drilled as per mine support designs.
- Ø35 Ø38mm hole diameters are preferred for the Ø20mm wriggle bolt.
- Hole depth is critical. Hole depth should be shorter than the bolt to allow for the height of the washer and nut.
- In the case of full encapsulation, anchors of different setting times are often used, the fastest setting resin must be inserted into the borehole first.
- After insertion of the resin anchors the bolt is rotated through the resins while being pushed to the back of the hole.
- It is important to follow the resin anchors recommended mixing and hold times as printed on the resin anchor cartons. Do Not Over Mix.





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Product Accessories Examples

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

Typically, plates used are:



Standard Lengths & Packaging

- Standard bolt lengths range from 1800 to 3000mm increments.
- Non standard requirements are available by negotiation.
- Bolts are packaged in bundles with threads protected by heavy duty polyethylene bags.
- Bolt fittings, such as nut and anti-friction washer, are normally supplied fitted to wriggle bolts in the configuration as requested.

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".







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