

# WRIGGLE BOLT T24 THREAD BAR

**WT4**

Ø24mm Wriggle Bolt

Product Code Guide	Bolt Type	Diameter	Length	Drive Nut & Accessories	Coating	Packaging
	WT	4	240	DFP	G	100

## Physical Properties

	Minimum		Typical	
Yield Strength	500MPa	211kN	575MPa	244kN
Tensile Strength	600MPa	254kN	680MPa	288kN
Shear Strength (0.7 x UTS)	16.7		18.1	
Uniform Elongation	10%		12%	
Mass Per Metre	3.4kg			
Cross Sectional Area	433mm <sup>2</sup>			
Bar Core Diameter	Ø23mm			
Major Bar Diameter	Ø25mm			

## 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.
- 35 – 38mm hole diameters are preferred for the 24mm 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.





ROCK BOLTS – SOLID BAR

Product Code Prefix

# WRIGGLE BOLT T24 THREAD BAR


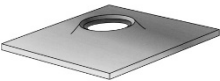
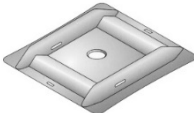

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## Product Accessories Examples

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

Typically, plates used are:

	Products			
Product Group	Star plates	Dome Plates	Butterflies	Osro Strap
Product Imagery				
Product Code Prefix	STP	D	BUTT	MW

## Standard Length & Packaging

- Standard bolt lengths range from 1,500mm to 3,000mm in 300mm increments.
- Non-standard lengths are available on application.
- Wriggle Bolts are supplied in standard packs of 100 bolts.

## 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

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*All dimensions, weights, quantities and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local DSI Underground representative for final confirmation of any key specifications.*