

# MECHANICAL PRE-GROUTED MP THREAD BAR BOLT

**TBP**

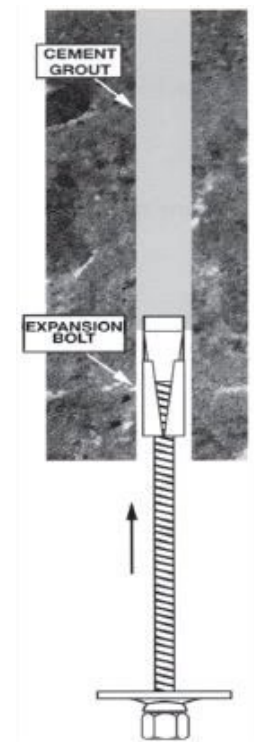
Product Code Guide	Bolt Type	Diameter	Length	Drive Nut & Accessories	Coating	Packaging
	TBP	2	220	Z3PLM		550E

## Physical Properties

	Minimum		Typical	
Yield Strength	500MPa	160kN	550MPa	170kN
Tensile Strength	600MPa	185kN	650MPa	200kN
Calculated Shear Strength	120kN		130kN	
Elongation (After Fracture)	16%		19%	
Mass per Metre	2.47kg			
Bar Core Diameter	Ø20mm			
Major Bar Diameter	Ø22.1mm			
Cross Sectional Area	310mm <sup>2</sup>			
Major Bar Diameter	22.1mm			

## Key Features

- The MP Bolt consists of a bar thread, especially designed expansion shell and drive nut.
- The MP Bolt Expansion Shell has been designed to reduce the grout resistance upon bolt installation.
- The MP Bolt provides immediate rock reinforcement through mechanical anchorage while the grout cures.
- The MP Bolt bar is hot rolled with deformations that form a coarse left hand thread (10mm pitch) over its entire length.
- Single pass bolt installation.
- The thread bar form provides good load transfer properties.
- Corrosion protection provided by full column grout.
- Provides immediate support.
- Drive nut ensures reliable setting of the Expansion Shell and provides a bolt tail for subsequent meshing.
- Additional corrosion protection may be provided by hot dip galvanizing.



## Installation Guidelines

- 35mm hole diameter are preferred.
- The drilled hole length must be longer than the bolt by approximately 50mm.
- Appropriate components are fitted to the bolt. The Expansion Shell is screwed onto the bolt until the bolt thread just protrudes through the Expansion Shell plug.
- The hole is pregrouted by retracting the hose from the toe to the collar.
- The bolt is inserted through the grout.
- After placing the bolt in the hole to its full length, the bolt is rotated to set the expansion shell and apply tension.

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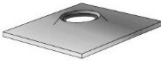


## Standard Lengths & Packaging

- Standard bolt lengths range from 600mm to 5000mm in 300mm 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 nuts, anti-friction washers and domed balls, are supplied fitted to rock bolts in the configuration 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

Typically used products with these items are:

	Products			
Product Group	Star Plate	Dome Plate	Butterflies	W Strap
Product Imagery				
Product Code Prefix	STP	D	BUTT	MW

## 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