

Product Code Guide	Bolt Type	Diameter(mm)	Length (cm)	Drive Nut & Accessories	Coating	Packaging
	FBMD	47	240	DPXH4	G	E

Physical Properties

	Minimum		Typical	
Yield Strength	300MPa	120kN	400MPa	150kN
Tensile Strength	600MPa	220kN	680MPa	250kN
Elongation (after fracture)	14%		20%	
Mass Per Metre	5.94kg			
Friction Bolt Diameter	Ø47mm			
Hole Diameter Range	Ø44mm min./45.5mm max.			
Cross Sectional Area	370mm ²			
Installation Torque	330 Nm Nominal			

Key Features

- Mechanically point anchored Ø47mm friction bolt, provides a tensionable point anchor by way of an internal solid bar and external expansion head.
- High capacity solid bar, typical tensile strength at 25 tonnes.
- Dynamic capacity has been measured above 40 kJ, with stable test outcomes and displacements up to 175mm – refer to the Dynamic Performance Chart below. Factors of safety need to be applied.
- Point anchoring mechanism is completely independent of the friction bolt body, so that anchorage is not compromised due to movement of the friction bolt body with the ground.
- Point anchoring head assembly has been proven to generate anchorage beyond the capacity of the bar.
- Resin is not required. The bore hole is predrilled. The bolt is installed under percussion with water on, then left-handed rotation is applied to activate the expansion head and pre-tension, in a single bolting pass.
- Galvanised coating systems are available providing specialised corrosion protection for all bolt elements.
- The KINLOC® meshing plate can be used to secure mesh after bolt installation with the same installation spanner.
- The KINLOC® Indie Bolt comes with an Event Capture System (ECS). In the event of bolt overload, the fractured segment is retained in the collar.
- An M24 thread provides robust anchorage capacity.

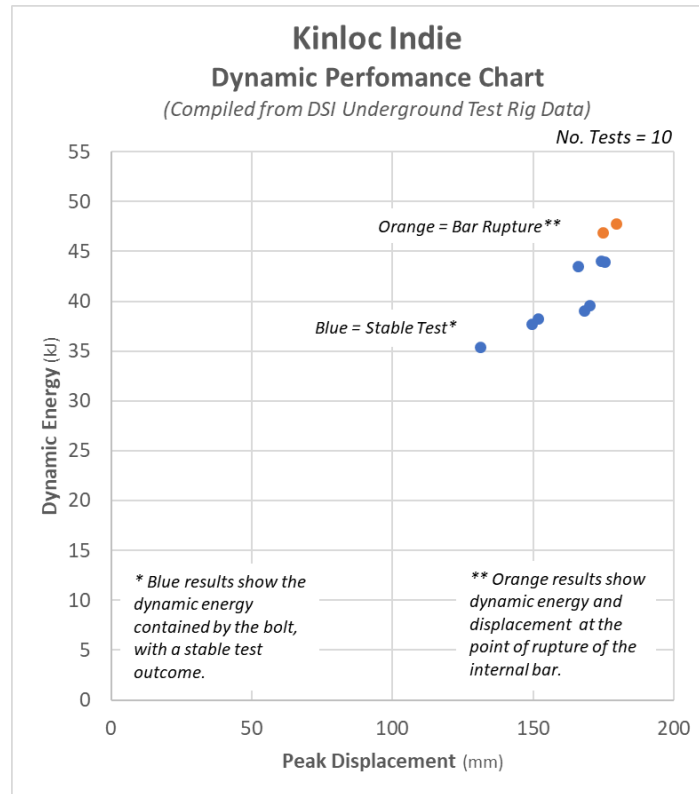


Installation Guidelines

- The hole length should accommodate the full length of the bolt, including the expansion head.
- The driving spanner dolly is fitted into the rock drills chuck and then the bolt and plate are placed into the dolly.
- Using full percussion and thrust with water on, the bolt is fully driven into the hole until the domed plate is secured firmly against the rock surface. The spanner dolly is then rotated left hand without percussion until stall.
- Recommended torque range during installation is 250 – 400Nm.

- DSI Underground does NOT recommend torque greater than 400Nm.


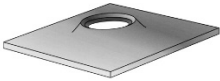


Indicative Dynamic Performance



Product Accessories Examples

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

Typically used accessories:

	Products			
Product Group	Spanner	Dome Plates	Mesh Plate	Pull Ring
Product Imagery				
Product Code Prefix	T38	D	D170MESHKIN	PRING

Standard Length & Packaging

- Standard bolt lengths are 2,400mm and 3,000mm.
- Non-standard lengths are available on application.
- KINLOC Bolts are supplied in standard packs of 150 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