

Friction Bolt

Product code: FB39

Product specification: Ø39mm Friction Bolt

Category: Rock Bolts - Friction

Key features

- Friction Bolts are manufactured from high strength steel tube which has a slot along its entire length. A ring, or collar, is welded on the outer end to hold a domed plate to the rock surface.
- The Ø39mm Friction Bolt is suitable for installation with hand held rock drills (stoppers/drifters).
- Friction bolts can be load tested by fitting a special ring to the bolt prior to its installation. Pull tests can then be conducted with a hollow ram hydraulic jack.
- Further corrosion protection can be provided by hot dip galvanizing.
- Can be used with Ø47mm FB for mesh pinning.



Product Code Guide

Bolt Type	Diameter	Length	Coating	Packaging
FB	39	150	G	WA

Physical Properties

	Minimum	Typical
Yield Strength	345MPa	445MPa
Tensile Strength	460MPa	510MPa
Mass per Metre	1.77kg	
Friction Bolt Diameter	Ø39mm	
Hole Diameter Range	Ø35mm min./Ø38mm max.	
Cross Sectional Area	220mm ²	

Installation/ applications

The hole length should be longer than the bolt, nominally 150mm, to allow for any rock fretting during installation.

The friction bolt is inserted into the hole. The driving dolly is fitted into the rock drill's chuck and then the bolt (with accessories) is placed onto the dolly.

Using full percussion and thrust the bolt is fully driven into the hole until the domed plate is firmly against the rock surface. Care should be taken to ensure the rock drill's feed/thrust is in the same orientation as the hole or the bolt may be bent during installation.

Over installation causes ring damage, compromising performance.

Notes Only Sandvik rock bolt components should be used to enable the optimum performance of the bolt system to be obtained.

Quality Assured to IOS 9001:2015

Packaging Standard bolt lengths include 450mm long and from 600mm to 3,000mm in 300mm increments. Non-standard lengths are available on application.

Friction Bolts are supplied in standard packs of 150 bolts (39mm & 47mm) and 300 bolts (33mm).

Product range and accessories Sandvik manufactures a comprehensive range of plates specifically designed for this range of bolts.

Typically, plates used

Product Group	Dragon Fly	Dome Plates	Dome Plate	Pull Ring
Product Imagery				
Product Code Prefix	DF	FRP	TDD	PRING

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 “Ground Support”.



iOS



Android

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