

INSTa-RB

Product specification: Standard bar 14.5 mm / 16 mm
Category: Solid bolt / Mining bolt

Introduction

The INSTa-RB is a reliable anchoring solution for applications requiring immediate support at the rock face. Designed for simplicity and efficiency, this anchor is compatible with mesh or other surface supports and requires no grout or resin for installation. Its user-friendly design allows installation using standard equipment, with optional grouting available for enhanced anchoring.

Key features

- Unit installs instantly by pushing the bolt into the hole.
- No need for additional tensioning by machine as the bolt is tensioned instantaneously on installation.
- Tensioning is verified by visual inspection.
- Post tensioning is possible if required.
- Standard hex nuts for installation with standard equipment.
- Suitable for normal and low stopping installations.
- Expansion shells available to suite appropriate drill bit diameter
- Standard bar sizes are 14.5 mm and 16 mm however larger bar diameters are available upon request.

Main advantages

- Provides instant support, ensuring safety and stability at the rock face.
- Eliminates the need for grout or resin, reducing installation time and complexity.
- User-friendly installation with standard equipment minimizes downtime and training requirements.
- Flexible design allows for post-tensioning and optional grouting for enhanced versatility.



Technical specifications

Bar diameter	Smooth 14.5	D16
Typical yield strength	450 MPa	500 MPa
Typical ultimate tensile strength	590 MPa	700 MPa
Typical ultimate tensile load	97.3 kN	140 kN
Calculated shear strength ¹⁾	58 kN	84 kN
Cross sectional area	165 mm ²	200 mm ²
Thread	DIN405 Rd16	DIN405 Rd18
Typical elongation percentage ²⁾	19 %	20 %

1) Calculated at 60 % of ultimate tensile load.

2) 5.65√A

Other options

- Larger bar diameters available upon request.
- Optional grout feed and breather pipes for post-grouting applications.
- Options are available to suite requirements. Please contact local sales department to enquire.

Installation/applications

- Ideal for rock face stabilization in mining and tunnelling.
- Compatible with mesh or other surface support systems.
- Suitable for both normal and low stopping conditions.
- Installation procedures, work instructions and general installation guidelines are available on request.

Packaging

- Bolts are generally packaged in bundles and strapped. Please contact local representatives for detailed packaging sizes and instructions related to the specific product option required.

Product range and accessories

- Standard bar sizes: 14.5 mm and 16 mm.
- Expansion shells and larger bar diameters available on request.

Safety procedures

- Please follow recommended installation guidelines to ensure optimum performance.
- Conduct visual inspection to verify bolt tensioning after installation.
- Relevant safety documents and procedures related to the product are available on request.

Legal disclaimer

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 representative for final confirmation of any key specifications.