SANDVIK

Double Corrosion Protection (DCP) bolts

Product specification: Bar diameter 20, 25, 32 mm
Category: Solid bolts /Fully threaded bolts

Introduction

Double Corrosion Protection (DCP) bolts are specially designed to provide superior support in aggressive geological environments. These bolts are ideal for complex engineering structures and unstable ground conditions, particularly where groundwater is prevalent. Enclosed in a polyethylene sheath, DCP bolts offer easy installation, immediate ground support, and a safe, patented grouting system.

Key features

- Expansion shell bolt with HDPE sheathing for full corrosion protection.
- Pre-tensioned with an expansion shell for immediate roof support.
- Efficient anchorage through a combination of grout bell and spherical nut.
- Grout adaptor ensures effective post-grouting capabilities.
- Grout adaptor provides efficient post grouting
- HDPE sheathing enables grouting of inner and outer annuluses in a single pass.
- Grout bell available in black steel or HDG steel for maximum corrosion resistance.
- Pull tested with standard equipment
- Available in 20-, 25-, and 32-mm diameter bars



Main advantages

- Exceptional corrosion protection for use in aggressive environments.
- Immediate and durable ground support enhances safety and efficiency.
- Quick installation with a patented grouting system reduces downtime.
- Versatile anchorage system supports complex and demanding applications.



Rocbolt Technologies (Pty) Ltd.
30 North Reef Road
Germiston, 1429
South Africa

Phone +27 11 878 6800
E-mail zarocboltsales@sandvik.com
Rocbolt Technologies (Pty) Ltd.

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Technical specifications

Bolt diameter	20 mm	25 mm	32 mm
Typical tensile load	219 kN	343 kN	498.3 kN
Min. Yield strength	500 MPa	500 MPa	450 MPa
Typical elongation	20 %	20 %	20 %
Typical Ultimate tensile strength	700 MPa	700 MPa	620 MPa
Calculated shear strength [1)]	131 kN	206 kN	299 kN
Hole size	48 – 55 mm	48 – 55 mm	67 – 72 mm
Density	2.52 kg/m	3.86 kg/m	6.32 kg/m
Cross sectional area of bar	314 mm	490 mm	804 mm
Thread	DIN 405[(2)]	DIN 405/ M27[(2)]	M32[(2)]

1) Calculated at 60 % of ultimate tensile load.
2) Fully Threaded versions also available

Other options

— Grout bells available in black steel or hot dip galvanized (HDG) steel for tailored corrosion protection.

Installation/applications

— Systematic permanent reinforcement of underground excavations.
— Ground support for areas with restricted or no access during the operational lifetime.
— Mining applications, including permanent roadways and excavations.

Packaging

— Packaging details provided upon request. Minimum order quantities may apply.

Product range and accessories

— Available in 20 mm, 25 mm, and 32 mm diameter bars.
— Compatible with Sandvik components for optimal system performance.

Safety procedures

— Follow all recommended installation guidelines to ensure optimum performance.

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.

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