

Fully threaded bolt M24/Rock support-Ceiling bolt with spiral



Rock support bolt also used for installing ceiling elements. The bolt is equipped with a spiral for safe and controlled mixing of the polyester.

When used as an anchored bolt, it is extremely malleable and has significantly better tensile properties than rebar bolts. Not generally approved by the Norwegian Public Roads Administration. Approval must be sought for each individual project.

Stock programme:

M24x1600

M24x2000

M24x2400

M24x3000

Technical information:

Bolt: Fully threaded bolt, steel 8.8C, thread cold rolled.

Weight: 3.0 kg/m

Specifications:

Manufacturing and mechanical characteristics in accordance with DIN 976 and ISO 898-1:2013

| Dimensions: | Tension area mm ² , A _s | Yield, Rp0.2 N/mm ² Min. | Tensile, Rm N/mm ² f _u | Extension % A ₅ | Fracture toughness -20°C Min |
|-------------|---|--|---|-------------------------------|------------------------------------|
| M24x3 | 353 | 640 | 800-1000 | 12 | 27J |

Working load threaded bolt $f_{sd} = f_u \times 0.9 / \gamma_{M2} \times A_s \times 10^{-3} = 800 \times 0.9 / 1.15 \times 353 \times 10^{-3} = 221 \text{ kN}$

Mixing spiral: Exterior diameter 31.5 mm, length 200 mm. Drawing: PTC-029-4

Nuts: M24 +3/10 complying with ISO 4032-8, Pc-Coat

Corrosion protection/Pc-Coat

Hot-dip galvanization is carried out in compliance with NS-EN-ISO 1461 and epoxy powder coating in compliance with NS-EN 13438. With regard to coating thickness and further information, please see Document Q/PTC-T19A – Specification for Pc-Coat – SVV/JBV.

Please also refer to the Pc-Coat Product Data Sheet and accompanying FDV documentation.

Suitable polyester cartridges:

28x370

See separate product data sheet for use of polyester

Borehole:

Recommended borehole: Ø32-Ø38

Accessories:

Rock support: Spherical washers Ø150, Ø190, triangle plate 400x500, half balls and nuts. All in Pc-Coat.

Element installation: Packing washer, connecting sleeve, spec. plate, etc.