

Rebar bolt Ø25/M24 Rock support bolt/ceiling bolt



Rock support bolt. The end of the bolt is obliquely cut for improved polyester mixing. Can also be used fully embedded in polyester or cementitious mortar. The bolt is suitable both as immediate work safety support or for permanent support in tunnels and caverns. The bolt is also used for fixing ceiling elements. The bolt is supplied with a large bevel at the threaded end.

Stock programme:

M24x1500 M24x4000
M24x2000 M24x5000
M24x2400 M24x6000
M24x3000

Technical information:

Bolt: Rebar bolt Ø25. Mechanical properties corresponding to B500NC in compliance with NS 3576-3:2012 or equivalent.

Thread length: M24x150 mm (length 1500-5000) thread cold rolled.

Thread length: M24x200mm (Length 6000-8000) thread cold rolled.

Bolt obliquely cut at 45°

Weight: 3.92 kg/m

Specifications: Ref. drawing PTC-118

Metric threads

Specified mechanical properties apply to original material

Dimensions:	Tension area mm ² , A _s Thread-stem	Yield, ReH N/mm ² Min:	Tensile, Rm N/mm ² f _u	Ductility, AGT % min
M24x3.0	353-491	500	600	8

Homogenous material is used in the production of rebar bolts. The following calculations are based on that.

Safe working load threaded section $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 353 \times 10^{-3} = 153 \text{ kN}$

Safe working load of rebar rod section $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 491 \times 10^{-3} = 213 \text{ kN}$

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:

Ø28x370 See separate product data sheet for use of polyester

Borehole:

Recommended borehole: 34 mm-38 mm when using polyester.

Accessories:

With grouting: Spring for centering and holding in the borehole recommended.

Spherical bearing plate Ø150, Ø190, triangle plate 400x500, angle washer and nuts. All in Pc-Coat.