

## Rebar bolt Ø32/M33 Rock support bolt



Rock support bolt. The bolt is obliquely cut. Also for use fully imbedded. The bolt is suitable both as immediate work safety support or for permanent support in tunnels and caverns. The bolt is supplied with a large bevel at the threaded end.

### Stock programme:

Ø32/M33x4000

Ø32/M33x6000

Ø32/M33x8000

### Technical information:

Bolt: Rebar bolt Ø32 Mechanical properties corresponding to B500NC in compliance with NS 3576-3:2012 or equivalent

Thread length: 200 mm (thread cold rolled)

Bolt obliquely cut at 45°

Weight: 6.43 kg/m

Specifications: Ref. drawing PTC-119

Metric threads

Specified mechanical properties apply to original material

Dimensions:	Tension area mm <sup>2</sup> , A <sub>s</sub> Thread-stem	Yield, ReH N/mm <sup>2</sup> Min:	Tensile, Rm N/mm <sup>2</sup> f <sub>u</sub>	Ductility, AGT % min
M33x3.5	694-804	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  $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 694 \times 10^{-3} = 301 \text{ kN}$

Safe working load of rebar section  $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 804 \times 10^{-3} = 350 \text{ kN}$

Nuts: M33 +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:

Ø40x480 and Ø38x520 – See separate product data sheet for use of polyester

### Borehole:

Recommended borehole: Ø45-Ø48 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.