

Rock bolt Ø16/M16



Bolt for fixation of rockfall netting/mesh. The end of the bolt is obliquely cut for improved polyester mixing. When grouting it is recommended that retainer Ø16/22-27 be used.

Stock programme:

M16x600
M16x800
M16x1000

Technical information:

Bolt: Rebar bolt Ø16 Mechanical properties corresponding to B500NC in compliance with NS 3576-3:2012 or equivalent. Bolt obliquely cut at 45°. Weight: 1.58 kg/m. Thread length: 200 mm (thread cold rolled).

Specifications:

Ref. drawing PTC-116-1
Metric thread

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
M16x2.0	157-201	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 $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 157 \times 10^{-3} = 68 \text{ kN}$

Safe working load rebar rod section $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 201 \times 10^{-3} = 87 \text{ kN}$

Nuts: M16 +2/10 in compliance with DIN 934-8. Pc-Coat

Option: M16 +2/10 in compliance with DIN 934-A4-80

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:

Ø18x200 Ø23x250 Ø23x400

See separate product data sheet for use of polyester

Borehole:

Recommended borehole: 21 mm-28 mm when using polyester.

Accessories:

Front plate Ø140x3, profiled front plate Ø135x3, rock security ties/ties for PE-foam and eye nut. All in Pc-Coat. ZnAl wire and polyester or grout for anchoring.