

Rebar bolt Ø20/M20 – Light bolt/Net bolt



Bolt for suspension of road lighting support ladders. Bolts are normally installed in connecting sleeve M16/M20 B2000-8. Equipment is clamped to the bolt. The bolt is also used for fixing of rock catchment nets on rock slopes.

Stock programme:

M20x800
M20x1000
M20x1200
M20x1400

Technical information:

Bolt: Rebar bolt Ø20 Mechanical properties corresponding to B500NC in compliance with NS 3576-3:2012 or equivalent

Thread length: 150 mm (thread cold rolled)

Bolt obliquely cut at 45°

Weight: 2.47 kg/m

Specifications: Ref. drawing PTC-117

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
M20x2.5	245-314	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 $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 245 \times 10^{-3} = 106 \text{ kN}$

Safe working load of rebar rod section $f_{sd} = ReH / \gamma_{M2} \times A_s \times 10^{-3} = 500 / 1.15 \times 314 \times 10^{-3} = 137 \text{ kN}$

Nuts: M20: +2/10, h=20 complying with ISO 4032-8, Pc-Coat

Tightening torque:

For tension of 50 kN: 180-200 Nm

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:

Ø23x400, Ø28x370

See separate product data sheet for use of polyester

Accessories:

Sleeve M16/M20x70 B2000-8, Pc-Coat