

NC-Bolt M20 B500NC, Combination bolt/rock support bolt



NC-Bolt M20 combination bolt/rock support bolt The bolt is used with an expansion shell for immediate work safety support. The bolt is subsequently grouted for permanent anchoring. NB! These bolts are delivered with pre-assembled expansion shells and packages are suited for stacking to optimize logistics.

Stock programme:

M20x2400 M20x5000
M20x3000 M20x6000
M20x4000 Other lengths on request

Technical information: Material: B500NC acc. NS 3576-3:2012, Rebar Ø20
Threaded length: 2xM20x150mm (cold rolled thread). ISO metric thread profile acc. to ISO 68-1.
weight: 2,47 kg/m (rebar only). Key grip nut acc. to ISO 4032.

Dimension:	Tension area A_s Thread-stem	Yield Strength ReH	Tensile Strength Rm	Ductility Agt
M20x2.5 – Ø20	245- 314 mm ²	Min. 500 N/mm ²	Min. 600 N/mm ²	Min. 8%

Minimum load capacity:

	$A_s \times ReH$	$A_s \times Rm$
End anchored:	Yield: 123 kN	Tensile strength: 147 kN
Fully imbedded:	Yield: 157 kN	Tensile strength: 186 kN

Recommended torque: 150-250 Nm. Tests show that the specified torque area normally provides a pretension in the region of 40-60 kN, with the possibility of deviant individual values between 10-70 kN due to variations in friction properties.

Minimum protrusion with recommended plate: 71 ± 3 mm. For more details and illustrations see separate data sheet.

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.

Grouting: Typical water/cement-ratio is 0,3-0,4. For more detailed information, please see own brochure "Grout recommendations" on www.pretec.no.

Recommended borehole:

Borehole: Ø45-48mm
Drilling depth: Bolt length + 150 mm

Accessories:

Spherical bearing plate with hole for evacuating air (to be mounted before bolt installation), expansion shell BL-M20x45/45-48, long nut socket L:150mm and grouting tool.