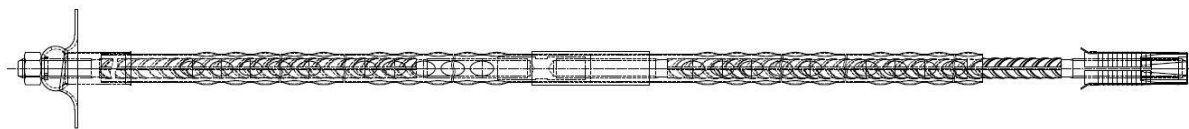


## NC-Bolt M33 B500NC, 9–12m combination bolt/rock support bolt



Combination bolt designed for immediate and permanent rock support

NC-Bolt M33, 9-12 meter 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. The bolt is delivered from stock ready-cut to the desired length. Grouting heads can be delivered with installed grouting nipple.

**Stock programme:** M33 L=9000/10000/11000/12000

**Technical information:** Material: B500NC acc. NS 3576-3:2012, Rebar Ø32

Threaded length: 2xM33x200mm (cold rolled thread). weight: 6,31 kg/m (rebar only). Key grip nut acc. To ISO 4032.

Dimensions:	Tension area, $A_s$ Thread-stem	Yield strength ReH	Tensile strength Rm	Ductility AGT
M33x3.5	694-804 mm <sup>2</sup>	Min. 500 N/mm <sup>2</sup>	Min. 600 N/mm <sup>2</sup>	Min. 8%

### Minimum load capacity:

End anchored:

Fully imbedded:

### $A_s \times ReH$

Yield: 347 kN

Yield: 402 kN

### $A_s \times Rm$

Tensile strength: 416 kN

Tensile: strength: 482 kN

Recommended torque: 200-300 Nm. Tests show that the specified torque area normally provides a pretension in the region of 40-60 kN, with the possibility of isolated values between 10-70 kN due to variations in friction properties.

### 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](http://www.pretec.no).

### Recommended borehole:

Borehole: Ø64-68mm

Drilling depth: Bolt length + 150 mm

### Accessories:

Spherical bearing washer with hole for evacuating air, expansion shell BL-M33x64/64-68 elf. Spherical bearing washer and expansion shell mounted on bolt for insertion into the borehole. Delivered pre-assembled with a B4000-5 steel joint sleeve and a plastic joint sleeve for grouting pipes Grouting nipple can be supplied.