

## NC-Bolt M33 B500NC, Combination bolt/rock support bolt



NC-Bolt M33, 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.

### Stock programme:

M33x2000	M33x2400
M33x3000	M33x4000
M33x5000	M33x6000
M33x8000	Other lengths on request.

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

Threaded length: 2xM33x200mm (cold rolled thread). ISO metric thread profile acc. to ISO 68-1

weight: 6,31 kg/m (rebar only). Key grip nut acc. To ISO 4032.

Dimensions:	Tension area, $A_s$ Thread-stem	Yield strength $R_{eH}$	Tensile strength $R_m$	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:

	$A_s \times R_{eH}$	$A_s \times R_m$
End anchored:	Yield: 347 kN	Tensile strength: 416 kN
Fully imbedded:	Yield: 402 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. Minimum protrusion with recommended plate: 97 ± 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](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. Grouting nipple can be supplied.