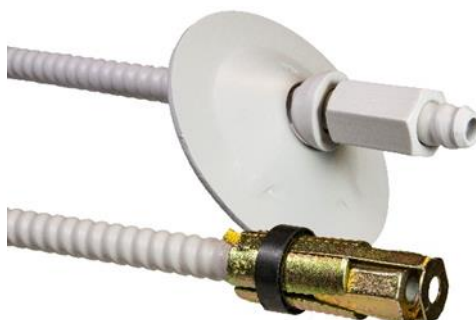


Pc-Bolt R27/12 Combination Bolt/Rock Support



Pc-Bolt R27/12 is a fully threaded combination bolt for rock support. The bolt is used with an expansion shell for immediate work safety support. The bolt is subsequently grouted for permanent anchoring. Supplied with pre assembled expansion shell.

Stock programme: R27/12 L=1500 / 2400 / 3000 / 4000 / 5000 / 6000 mm

Technical information: Heat treated alloy steel acc. EN ISO 683-2 / GB/T 3077
Grade 8.8 acc. ISO 898-1. Thread profile acc ISO 10208 (right hand thread).

Dimensions:	Tension area*, A _s	Nominal Yield strength ReH	Nominal Tensile strength Rm	Elongation Agt	Weight
R27/12 M20	~380 mm ²	640 N/mm ²	800 N/mm ²	≥ 5%	3,1 kg/m

* Subject to variation due to tolerances from manuf. process. Not for calculation.

Minimum load capacity:

End anchored:	Yield: 246 kN	Tensile strength: 270 kN
Fully embedded:	Yield: 246 kN	Tensile strength: 270 kN

Recommended torque hexagonal nut against half ball: 200-300 Nm. This normally generates 40-60 kN of bolt tension. For dome nut against spherical plate recommended torque is: 200-400 Nm. This normally generates 20-40 kN of bolt tension, with the possibility of deviant individual values 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.

Recommended borehole:

Borehole: Ø45- Ø48 mm Drill hole length: Bolt length + 150 mm

Accessories:

Spherical plate with hole for evacuation of air. Expansion shell R27x45/45-48 zinc plated.
Dome nut R27 with integrated half ball. Sleeve for extension of bolt.
Pc-Packer to be used in the event water ingress to the borehole.