

PC- Bolt R27/12 combination bolt for ø38 drill hole



Combination bolt designed for immediate and permanent rock support

Pc- bolt R27/12, M20 combination bolt/rock support bolt. The bolt is used with an expansion shell for immediate work safety support. Permanent anchoring is achieved by subsequent grouting. The product is especially developed for ø38 drill hole in areas which are only accesible with hand held drill equipment.

Stock programme: R27/12 L=1500/2400/3000/4000/5000/5800/6000 mm

Technical information: Material: Heat treated alloyed steel

Threaded length: R27 over entire length except for one end with 150mm M20 thread.

| Dimensions: | Tension area*, A _s Thread-stem | Nominal Yield strength ReH | Nominal Tensile strength Rm | Elongation Agt |
|-------------|--|----------------------------------|-----------------------------------|-------------------|
| R27/12 M20 | 133/380 mm ² | 640 N/mm ² | 800 N/mm ² | ≥ 5% |

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

Minimum load capacity:

| | | |
|-----------------|---------------|--------------------------|
| End anchored: | Yield: 85 kN | Tensile strength: 106 kN |
| Fully embedded: | Yield: 246 kN | Tensile strength: 270 kN |

Recommended torque on 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: Ø38mm Drilling depth: Bolt length + 150 mm

Accessories:

Spherical bearing washer with hole for evacuating air, expansion shell BL-M20 elf. Spherical bearing washer and expansion shell mounted on bolt for insertion into the borehole. Grouting nipple can be supplied.