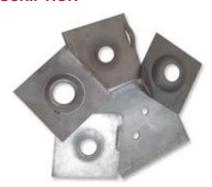


TECHNICAL DATA SHEET

DESCRIPTION



Garock supply a wide range of plates for use with cable bolts. Garock plates are designed in-house to provide optimal surface support in a range of strata conditions. Options of each plate type are available in numerous dimensions to suit any bolt type and diameter. All plates are available with a hanger loop in black steel or hot dip galvanised.

Dome plate – High load bearing capacity, used with cable bolts and dynamic solid bolts.

Flat plate – Numerous sizes and thickness available for use with cable bolting. Single and multiple hole options are available.

KEY FEATURES

- > Two types of mechanical anchors have been developed to suit either a 48 mm or 64 mm hole
 - 1) 15.2 mm compact plain strand mechanical anchor
 - 2) 15.2 mm compact ball-bearing mechanical anchor
- > The bond between plain strand and the grout is not sufficient to transfer the full potential of the bolt, as a result Garock developed the Garock B-B mechanical anchor. The B-B bolt is fully bulbed with nuts inserted into the bulbs, thus allowing the bolt to be fully tensioned without the bulb collapsing
- > After grouting the bolt becomes a fully bonded mechanical cable bolt with full load transfer capabilities

PACKAGING

> Supplied strapped and palletised to customer requirements.

TECHNICAL PERFORMANCE DATA

| Flat Plate Dim. (mm) | Thickness (mm) | Dome Height (mm) | Hole Height (mm) | Test Hole Diameter (mm) | Typical Yield Strength (MPa) | Typical Tensile Strength (MPa) | Plate Load (kN) | Typical Bolt Used |
|-------------------------|-------------------|------------------------|---------------------|-------------------------------|---------------------------------------|---|--------------------|----------------------|
| 200 x 200 | 10.0 | - | 18.0 | - | 210–310 | 300-400 | - | Cable Bolt |
| 300 x 300 | 10.0 / 12.0 | - | 18.0 | - | 210–310 | 300-400 | - | Cable Bolt |
| 200 x 200 | 8.0 | ı | 18.0 | ı | 210–310 | 300-400 | ı | Cable Bolt |
| 150 x 150 | 8.0 | - | 18.0 | - | 210–310 | 300-400 | - | Cable Bolt |

Expansion shell is zinc passivated to prevent corrosion.

Relevant standards: AS/NZS 4672. 1+2:2007

RELEVANT STANDARDS

| Plate Type | Material | Galvanising |
|------------|----------|-------------|
| Dome Plate | AS 1594 | AS 4680 |
| Flat Plate | AS 1594 | AS 4680 |

