

COAL MINING / HARD ROCK MINING

COMBI PLATES

OPTIMAL SURFACE SUPPORT FOR SOLID, FRICTION AND COAL BOLTS

DESCRIPTION

Combi plates are high load bearing capacity plates that provide optimal support in a range of strata conditions. Combi plates are designed where either a dome plate or crown plate is fixed onto a strata plate. Combi plates are typically used with friction bolts, coal bolts and solid (Secura) bolts.

Combi plates are available with or without a utility slot for supporting miscellaneous services. Plates can be supplied in black steel or hot dip galvanized.



APPLICATION AND USES

Primary use is strata reinforcement in underground mines. Designed to help prevent loose material from falling between the roof bolt patterns and provide strength to the immediate roof.

ADVANTAGES

- Optimal Surface Support
- Flexibility
- Variety of Coatings
- Variety of Configurations
- Reduces the number of plates and handling required on site

TECHNICAL DATA

Mechanical Properties

Product	Dome Combi Plate	Dome Combi Plate	Dome Combi Plate	Crown Combi Plate
Dimensions (mm)	240X300 125X125	280x300 150x150	280x400 150x150	280x300 150x150
Thickness (mm)	1.9 4.0	1.9 4.0	1.9 4.0	1.9 5.0
Height (mm)	18.0	25.5	25.5	35
Hole Size (mm)	38	50	50	38-42
Yield Strength (MPa)	230-330 210-310	230-330 210-310	230-330 210-310	230-330 410-510
Tensile Strength (MPa)	360-430 330-370	360-430 330-370	360-430 330-370	360-430 470-550
Plate Load (kN)	200	150	150	180
Weight (kg)	1.7	2.1	2.5	2.2

¹ Test conducted over 100mm hole

² Test conducted over 70mm hole

PACKAGING AND TRANSPORTATION

Plate Dimensions	Crown Combi Plate	Dome Combi Plate
No. of Units (pcs)	240	240
Nominal Weight (kg)	528	480
Pallet Size (mm)	1150x1150	1150x1150

APPROVALS AND CERTIFICATES

Product Standards

Material : AS1594

Galvanising : AS4680

TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work. All technical data sheets can be found on www.minovaglobal.com/apac

MANUFACTURER

Minova Australia Pty Ltd

An ISO 9001:2015 Quality Management Certified Company



FS 603747

ADDITIONAL INFORMATION

Minova Australia offers a comprehensive range of products, all of which have been developed after extensive research and testing on a global scale via our international network of operations. These products include:

- Resin anchor systems
- High yield grouts and foams
- Monolithic chock systems
- High performance cable bolt grouts
- Polyurethane resin systems
- Sprayable coatings for ventilation control
- Water stop grouts
- Ventilation formwork systems including: Meshblock and Tecmesh
- Grout mixers and batchers both air and hydraulically operated
- Contract Installations
- Flexible membranes for strata support and waterproofing applications

CUSTOMER SERVICE

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