

COAL MINING / HARD ROCK MINING

STEEL ACCESSORIES

ACCESSORIES FOR STEEL STRATA SUPPORT

DESCRIPTION

In addition to a complete range of steel and chemical components, Minova can provide an extensive and complimentary range of accessories for steel strata support requirements.

Minova's range of steel product accessories include:

- Strata Straps
- Mechanical Anchors
- Mine Nuts
- Couplings
- Pull Collars

ADVANTAGES

- Reliable
- Cost Effective
- Practical

STRATA STRAP

W shaped steel strap provide additional surface support between rock bolts. 280 mm wide, supplied in various lengths with multiple holes, available black or galvanised. Customer sizes are available.

Technical Data

Dimensions (mm)	Coating	Unit Weight (kg's)	Units per Pack
280 x 3000 x 1.9	¹ Black	13.0	50
280 x 3000 x 1.9	² Gal	13.5	50
280 x 4000 x 1.9	¹ Black	17.4	50
280 x 4000 x 1.9	² Gal	18.0	50
280 x 5000 x 1.9	¹ Black	21.7	50
280 x 5000 x 1.9	² Gal	22.5	50
280 x 6000 x 1.9	¹ Black	26.1	50
280 x 6000 x 1.9	² Gal	27.0	50

¹Steel Grade for black is HA1

²Steel Grade for galvanised is G2Z275

MECHANICAL ANCHORS

Provides immediate point anchored load bearing support to installed rock bolts. Designed to be installed in specific hole diameters of 32mm and 45mm. Oversized hole diameters can result in lower than acceptable anchorage. Undersized holes can result in anchor damage during installation resulting in unacceptable or no load.

Anchors are attached to the inserted end of rock bolts and are set in place by rotating the bolt to draw the anchor through the wedges. Available to suit various thread forms.

Mechanical anchor bolts will generally lose load over time and should not be considered long term support. Can be supplied black or galvanised



Technical Data

Anchors are tested to MUL² and MNSL¹ as per applicable ASTM F4A32 standards.

Typical properties:

Description	Hole Diameter (mm)	MNSL ¹ (MT)	MUL ² (MT)	Anchor/Wedge Length (mm)
M16x32 RHT Black	32	9.36	14.8	85/57
M24x43 RHT Black	45	18.2	33.7	85/57
R24 x 43 LHT Black	45	18.2	33.7	85/57

¹ MUL – Minimum ultimate load

² MNSL – Minimum non-seizure load

Property	M16x32 RHT Black	M24x43 RHT Black	R24 x 43 LHT Black
Unit Weight (Kg)	0.22	0.46	0.46
Units per box	50	20	20

NUTS

Mine Nuts

Rock bolt nuts are available for a range of bolt sizes and threads. Supplied black or galvanised. Plain rock bolt nuts can be supplied separately to enable additional plating of the bolts and other uses

Hanger Nuts

A rock bolt nut and hanger loop assembly to enable hanging of services.



Technical Data

Description	Steel Grade	Height x Width(mm)	Width (mm)
Nut Plain R24 LHT Black	Grade 8	32x36	36
Nut Plain R24 LHT Gal	Grade 8	32x36	36
Nut Plain M24 RHT Black	Grade 8	32x36	36
Nut Plain R27 Domed LHT Black	Grade 8	40x46	46
Nut Plain R27 Domed LHT Gal	Grade 8	40x46	46
Nut Hanger R27 RHT Black	Grade 8	105x55	55
Nut Hanger R27 RHT Gal	Grade 8	105x55	55

COUPLINGS

Round or hexagonal steel tubes used to join double ended rock bolts to enable longer length bolting in confined spaces.

Couplings are available with a range of thread forms to suit any Minova rock bolt. Can be supplied black or galvanised

PULL COLLARS

A round collar for use with Strata Bolts to enable pull testing. Available to suit all diameter Strata Bolts and can be supplied separately or included on specific number of bolts per pack. Available black or galvanised.



PACKAGING AND TRANSPORTATION

Packed in cardboard boxes and available in following pack sizes:

- Strata strap, 50 per pack
- Mechanical anchor M16x32, 50 per pack
- Mechanical anchor M24x43, 20 per pack
- Mechanical anchor R24x43, 20 per pack

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.minovalgobal.com/apac

MANUFACTURER

Minova Australia Pty Ltd

An ISO 9001:2015 Quality Management
Certificated 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

Minova Australia Pty Ltd

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