

MINOVA

EXPANSION SHELL BOLT

POINT ANCHORED COAL BOLT



DESCRIPTION

Minova's Expansion Shell Coal Bolts offer reliable point-anchored support in competent ground conditions. Each bolt features a rolled M24 x 3.0 mm thread and comes fully equipped with an anti-friction washer, dome washer, expansion shell, and 36 mm drive nut.

These bolts are available in standard "S" mild steel with a coil pin configuration, and multiple diameters can be requested. The expansion shells have serrations for enhanced grip and include a protective sleeve to prevent part loss and save time—simply remove the sleeve before use. Additionally, corrosion protection options such as hot dip galvanizing or zinc plating are available.

ADVANTAGES

- > Point anchored bolt used in roof & rib bolting applications.
- > Extensive quality-controlled manufacturing
- > Parallel contact of the expansion shell leaves in the borehole ensures excellent load transfer.
- > Able to achieve 50kN tension in Competent ground.
- > Equipped with washers and protective sleeves for quick installation.

APPLICATION AND USES

Point Anchored Coal Bolts are designed for roof and rib bolting applications, primarily in coal mining operations. They are recommended for use in 45 mm diameter holes, with a minimum hole depth extension of 50 mm to ensure proper engagement of the expansion shell with the borehole. Conducting load tests is essential to verify the anchor's suitability for specific ground conditions.

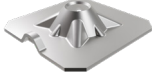
TECHNICAL PROPERTIES

TYPICAL PROPERTIES	M24 S Grade
Nominal Rib Height Diameter (mm)	24
Nominal Cross-Sectional Area of the Bar (mm ²)	370
Torque pin rating (Nm)	130-175
Expansion Shell length (mm)	115
Minimum Pre-Tension (kN)	50

SUPPORTING PRODUCTS

Plates

Minova supplies a comprehensive range of plates for use with the Expansion Shell Coal Bolt. Plates most typically used are:

PLATE NAME	DIMENSIONS (mm)	IMAGE
CROWN PLATE	150 x 150 x 5	
STRATA PLATE	280x300x1.8	

PACKAGING & TRANSPORTATION

Packaged in bundles of 50 with the option to plastic wrap and strap washer, nuts, and threads. Bundles of 60 are also available where required. Individual bolt lengths are visually identifiable by a coloured dome washer on each bolt.

APPROVALS & CERTIFICATES

PRODUCT STANDARDS	M24 S GRADE
Steel Bar	AS/NZS 3679.1-300
Galvanizing	AS4680
Bar Straightness	AS 1442-1991

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.

MANUFACTURER

Minova Australia Inc

An ISO 9001:2015

Quality Management Certified Company

Certificate No. FM 689118



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