

**HARD ROCK MINING**

**R28 SECURA BOLT**

**ADVANCED REINFORCING BAR FOR UNDERGROUND APPLICATIONS**

**DESCRIPTION**

Solid reinforcing bar that is threaded at one end with an R thread profile. A torque nut is attached at this end. Includes a paddle system to improve resin mixing, resin film shredding and provides consistent and efficient mixing of resin capsule components.

Available in 2.4M & 3M lengths and can be supplied in either black or hot dip galvanised. Additional lengths are available on request.

**APPLICATION AND USES**

Primary use is strata reinforcement in underground mines and tunnels.

**ADVANTAGES OF R28 SECURA**

- Design includes a unique paddle system to improve resin mixing, providing higher bond strength in large diameter boreholes.
- Proven historical performance and extensive quality-controlled manufacture.
- Permanent primary support.
- Consistent pin nut torque drive system.
- High strength 'Nova' thread (R thread) profile including a modified rope thread with large root and small crest areas.
- Proven resin mixing performance.
- High load transfer.



R28 SECURA BOLT

**TECHNICAL DATA**

**Mechanical Properties**

Properties	R28
Bar diameter <sup>2</sup> (mm)	25
Cross-sectional area-bar <sup>2</sup> (mm <sup>2</sup> )	455
Paddle Diameter <sup>2</sup> (mm)	30
Yield Strength <sup>2</sup> (MPa)	560
Tensile Strength <sup>2</sup> (MPa)	725
Tensile Force <sup>2</sup> (MT)	35
Elongation <sup>2</sup> %	22
Breakout Pin Torque <sup>2</sup> (Nm)	120-170


<sup>2</sup>Typical

**SUPPORTING PRODUCTS**

**Plates**

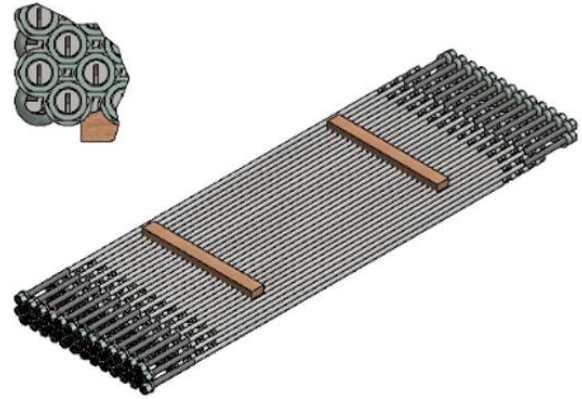
Minova can supply a comprehensive range of plates for use with the R28 Secura bolt.

Plates most typically used with Secura bolts are:

Item code	Description	Image
NT0004812	PLATE CRN 38X200X200X5MM 8L LOOP GL	
NT0004752	PLATE CRN 38X200X200X5MM 8L LOOP BK	

**PACKAGING**

Secura bolts are packaged in bundles of 100 in a staggered configuration.



*Packaging configuration*

**Drivers**

Item Code	Description	Image
NF0000243	DRIVER SKT T38X800 HEX 36AF	

**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.

**Lokset® Resin Capsules**

The Lokset system consists of an easily handled cartridge filled with a reinforced polyester resin in one compartment and a catalysed mastic filler in the other, separated by a physical barrier. The rotation of the bolt during installation ruptures the capsule, shreds the skin and mixes the two components causing a chemical reaction and transforming the resin mastic into a solid anchor.



*Lokset Resin Capsule*

**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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## **LEARN MORE**

Click on the website links to learn more about Minova and their solutions.

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[High Volume Output Grouts](#)  
[Injection Chemicals](#)  
[Sprayed Cements](#)  
[Steel and Fibreglass](#)  
[Mesh](#)  
[Ventilation & Air Control](#)  
[Surface to Seam Systems](#)  
[UniPass Bolting Technologies](#)  
[Pre-Driven Recovery Roadway](#)  
[Optimised Ore Recovery](#)

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