

MINOVA

# SECURA™

ADVANCED UNDERGROUND APPLICATION



## DESCRIPTION

Solid steel rock bolt that is threaded at one end with a DIN405 thread. A shear-pin nut is attached at this end. The bolt features large paddle deformations to improve resin mixing, resin film shredding and provide more consistent and efficient mixing of resin capsule components. Available in lengths from 1.5 m to 3.0 m. Can be supplied in either black steel or hot dip galvanised.

## ADVANTAGES

- > Design includes a unique paddle system to improve resin mixing, providing higher bond strength in oversized boreholes
- > Proven historical performance and extensive quality-controlled manufacture
- > Permanent primary support
- > Consistent pin nut torque drive system
- > High strength DIN405 profile including a large root and rounded crest to resist damage
- > Proven resin mixing performance
- > High load transfer

## APPLICATION AND USES

Primary use is strata reinforcement in underground mines and tunnels.

## TECHNICAL PROPERTIES

| PROPERTIES                                    | Secura R22  | Secura R25 |
|---|-------------|------------|
| Bar diameter (mm)                             | 22          | 25         |
| Cross-sectional area-bar 1 (mm <sup>2</sup> ) | 380         | 490        |
| Paddle Diameter (mm)                          |             |            |
| Yield Strength (MPa)                          | 500         |            |
| Tensile Strength (MPa)                        | 550         |            |
| Tensile Force (kN - typical)                  | 200         | 300        |
| Elongation %                                  | 12(minimum) |            |
| Breakout Pin Torque (Nm)                      | 110-170     |            |

18 mm diameter and 20 mm diameter Secura bolts are available on request

## SUPPORTING PRODUCTS

### Plates

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

| TYPE           | SQUARE SIZE (MM) | FORM                    | HOLE SIZE                   |
|----------------|------------------|-------------------------|-----------------------------|
| Flat           | 100, 125, 300    | 4.5 or<br>5.0 or<br>6.0 | As per diameter<br>required |
| Domed Dog Ear  | 125, 150         |                         |                             |
| Ribbed Dog Ear | 125, 150         |                         |                             |
| Flat Dog Ear   | 125, 150         |                         |                             |

### Drivers

| ITEM CODE | DESCRIPTION                       | IMAGE  |
|-----------|-----------------------------------|--|
| NF0000243 | DRIVER SKT<br>T38X800 HEX<br>36AF |  |

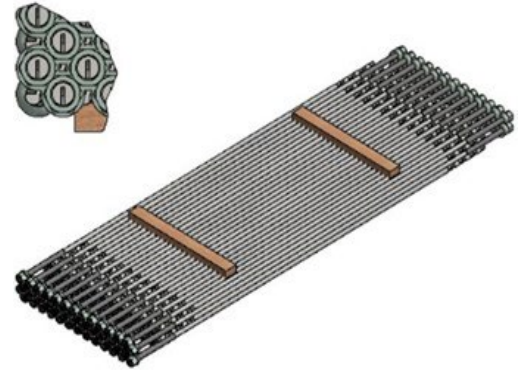
### Lokset Resin Capsules

The Lokset system consists of easily handled capsules 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.



## PACKAGING AND TRANSPORTATION

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



## 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 International Ltd**

Africa Office:

23 Botha Street, Alrode, 1451 South Africa

## CUSTOMER SERVICE

Minova International Ltd

+ 27 (11) 9231900

Email: [salesorders.africa@minovaglobal.com](mailto:salesorders.africa@minovaglobal.com)

Website: [www.minovaglobal.com](http://www.minovaglobal.com)

## DISCLAIMER

All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.