

MINOVA

# SELF DRILLING ANCHOR

ONE-STEP DRILLING AND GROUTING



## DESCRIPTION

The SDA Spring Lock keeps Self Drilling Anchors firmly in place within vertical holes, allowing for effective resin injection or grouting. It is positioned between the drill bit and the shoulder of the anchor, requiring no additional tools for installation.

Use one SDA Spring Lock for every 3-meter segment of Self Drilling Anchor.

The anchor bar features a hollow bore for flushing or simultaneous drilling and grouting. Fitted with a left-hand or right-hand R-thread for easy extension and connection to conventional rock drilling equipment.

The anchor bar can be extended using couplers. Couplers ensure safe connection of the anchor bars to optimally transfer the impact energy.

The nuts compensate for deviations of the borehole angle with respect to the plate surface and the plates ensure firm seating of the nut.

The sacrificial drill bits significantly improve the installation process.

Corrosion resistance options include hot dip galvanising and additional epoxy coating options.

## ADVANTAGES

- > Efficient and cost-effective reinforcement solution
- > Installation with Minova's Carbothix® pumpable and Conbex HT grout for improved cycle times
- > Ideal for weak, unstable, or cracked ground conditions
- > Ideal replacement for cable bolt's, improving equipment utilisation and cycle times

## APPLICATION AND USES

Primary use is strata reinforcement as alternatives to conventional rock bolting systems. When coupled together, SDA's provide an efficient alternative to long tendon support. Ideal for use in poor ground conditions and spiling applications.

## TECHNICAL PROPERTIES

### Hollow Anchor Bar

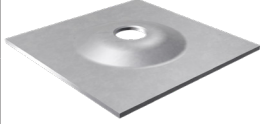
TYPICAL PROPERTIES	R38N	R32N	R32S
Nominal Diameter (mm)	38	32	32
Internal Diameter (mm)	19	18.5	19
Ultimate Tensile Strength (kN)	500	280	360
Yield Strength (kN)	≥ 400	≥ 230	≥ 280
Elongation (%)	≥ 6	≥ 5	≥ 5
Nominal Mass (kg/m)	6.0	3.50	4.00

Other sizes and a range of lengths are available upon request

## SUPPORTING PRODUCTS


### Plates

Minova can supply a comprehensive range of plates for use with self-drilling anchors. Typical plates used are:

ITEM CODE	DESCRIPTION	IMAGE
NT0000238	PLATE DOM R38 – 200 x 200 x 12	
NF0004426	PLATE SDA R32 – 200 x 200 x 10	


### SDA Couplings

Minova supply a range of couplers to enable the joining of self-drilling anchors together, extending the depth of reinforcement. Typical couplers supplied are:

ITEM CODE	DESCRIPTION	OUTER DIAMETER (mm)	LENGTH (mm)	IMAGE
NT0000243	R38	51	220	
NT0004689	R32	42	190	

### Drill Bits


Minova supplies a range of drill bits for varying ground conditions. Drill bits are selected to allow self-drilling anchors to be coupled together, extending the depth of reinforcement. Typical drill bits for use in hard rock mining include:

ITEM CODE	DESCRIPTION	OUTER DIAMETER (MM)	IMAGE
NT0005036	R38 SDA	64	
NT0000254	R32 SDA	51	

Contact Minova for the complete range

### Nuts


Minova's supplies a range of nuts for different applications. Examples of nuts supplied include:

ITEM CODE	DESCRIPTION	KEY SIZE (mm)	LENGTH (mm)	IMAGE
NT0000245	R38 DOMED NUT	52	60	
NT0000247	R32 DOMED NUT	46	45	

### Retainers

Minova supplies in-hole retainers which are attached to the end of self-drilling anchors to allow post grouting. The retainers are designed for use on a jumbo with rotary percussive drilling.

### SDA Spring Lock

PART	WEIGHT (kg)	LENGTH (mm)	HOLE SIZE (mm)	PULL OUT RESISTANCE (kg)	IMAGE
T30 (6.3mm)	0.5	102	51	500	
R32 (4mm)	0.3	102	51	180	
R32 (6.3mm)	0.3	102	51	500	
R38 (6.3mm)	0.3	102	64	500	

**Carbothix® Resin**

Minova's Carbothix® resin is an instantly thickening, fast curing two component silicate resin for the bulk grouting of cable bolts and self-drilling anchors.

Carbothix sets within minutes, with full anchorage capacity achieved within 30 minutes. Using Carbothix guarantees full encapsulation of the self-drilling anchors and allows complete confidence in the quality of the installed anchor. Please contact Minova for more information on Carbothix.

ITEM CODE	DESCRIPTION	IMAGE
NT0005026	CARBOTHIX STANDARD A	
NF0004858	CARBOTHIX FAST B 19KG	

**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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