

**POINT ANCHOR SYSTEM**

**TENSION REBAR BOLTS**

Minova Tension Rebar Bolts offer precise tension and significant cost savings. Where better beam building is needed, the Tension Rebar Bolt System has strength characteristics to meet those needs.

This exceptional support is installed in a 1" to 1-5/8" hole and allows for dramatic savings in resin. The Tension Rebar is available in various lengths, in right- or left- hand thread spin, and with a variety of tension nuts and washers available.



**INSTALLATION PROCEDURES**

1. Drill hole at proper diameter and depth.
2. Make depth 1" longer than the bolt.
3. Insert appropriate Minova resin cartridges.
4. Insert Tension Rebar bolt and Bearing Plate to within 1/16" to 1/8" of roofline.
5. Rotate bolt through resin column to ensure complete mixing of resin.
6. Stop rotation.
7. For specified resin set time, hold bolt in place.
8. Torque bolt to pre-determined torque in accordance with approved roof control plan.

Consult your Minova Technical Sales Representative for specific mixing and hold requirements.

*\*Nut and 2" Flat Washer standard, 3" DPI and/or other Washer options upon request*

**SPECIFICATIONS**

Bolt Diameter		Grade	Minimum Yield		Minimum Tensile		Nominal Borehole Diameter		Torque	
mm	(#)		kN	(lbs)	kN	(lbs)	mm	(in ")	~N-m	(ft-lbs)
16 mm	(#5)	60	61	(13,600)	91	(20,300)	25mm	(1")	170 - 270	(125 - 200)
19 mm	(#6)	40	60	(13,400)	104	(23,400)	25mm	(1")	170 - 270	(125 - 200)
19 mm	(#6)	60	89	(20,000)	134	(30,100)	25mm	(1")	200 - 340	(150 - 250)
~19 mm	(3/4" SRD)	75	112	(25,100)	149	(33,400)	25mm	(1")	240 - 340	(175 - 250)
22 mm	(#7)	40	83	(18,500)	144	(32,300)	28mm to 35mm	(1-1/8" to 1-3/8")	240 - 300	(175 - 225)
22 mm	(#7)	60	124	(27,700)	186	(41,600)	28mm to 35mm	(1-1/8" to 1-3/8")	270 - 340	(200 - 250)
~22 mm	(7/8" SRD)	75	155	(34,700)	206	(46,200)	25 mm to 35mm	(1" to 1-3/8")	340 - 510	(250 - 375)
25 mm	(#8)	60	211	(36,400)	243	(54,500)	32mm to 41mm	(1-1/4" to 1-5/8")	370 - 610	(275 - 450)

## APPROVALS AND CERTIFICATES



an ISO 9001:2015  
Quality Management System Certified Company.

## DISCLAIMER

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## ADDITIONAL DOCUMENTATION

- Steel Bolts, Plates, Other Steel Articles Safety Data Sheet (SDS)
- Minova Guide to Resin-Grouted Rockbolts
- Minova Chemicals, Polymers & Steel Application Guide

## MANUFACTURER

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