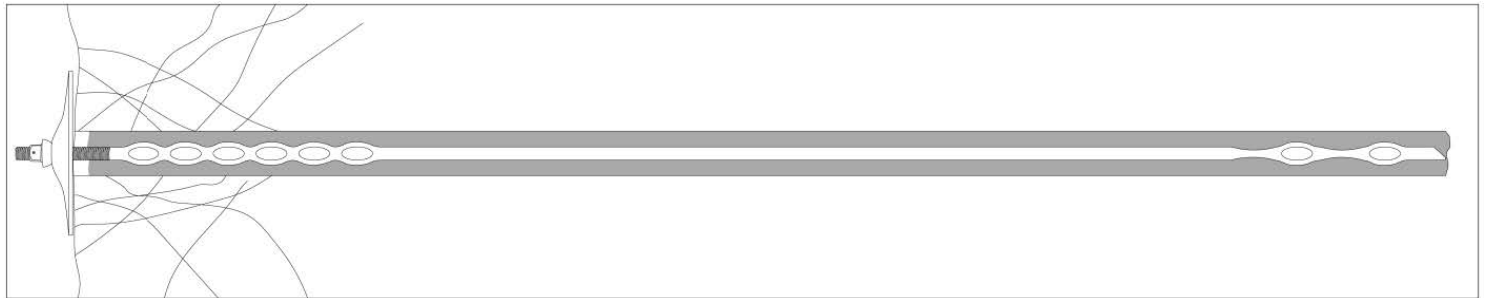
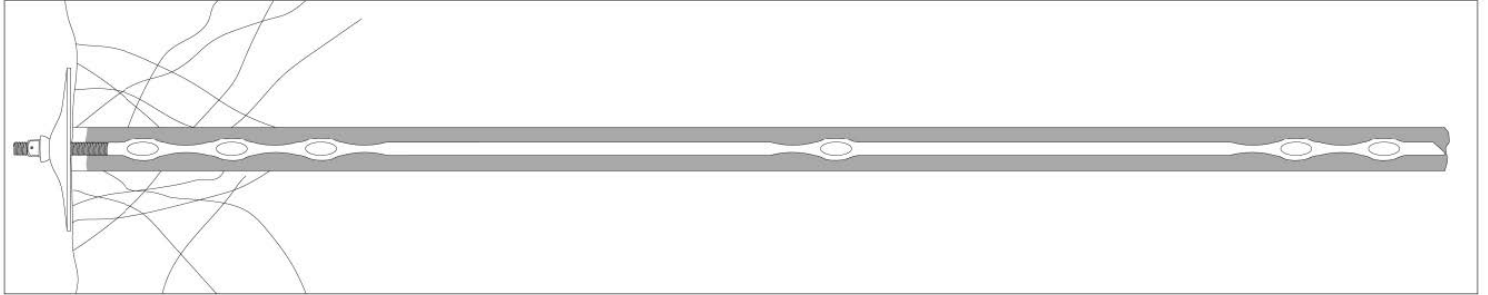


VersaBolt™

Category: Dynamic solid bolt



Overview

The VersaBolt™ is designed for ground support conditions that are subject to static or dynamic stresses where conventional bolting techniques are too rigid. It is a high energy absorbing dynamic bolt, with a two or three anchor bolt design and a longer centre smooth bar section, which will allow much more displacement in squeezing ground conditions, and when subjected to a seismic event, the longer smooth bar section in the centre will also reduce the dynamic stiffness of the bolt.

Bolt specifics	Bolt Type	Diameter	Length	Drive Nut & Accessories	Coating	Packaging
	Dynamic	20mm	72, 95 or 138 in	1 1/8 square	N/A	100 per Bundle

Key features

- The bolt is made from a smooth steel bar with either two or three anchors positioned along its length.
- The end anchor has 4 deformations, and the collar anchor has 6 deformations.
- The specialised steel used has both high tensile strength and elongation properties.
- The bolt can be installed in a drilled hole with either resin or cementitious grouts with equally similar properties.
- Once installed, the anchors become fixed and do not move within the grout column.
- In the event of a rockburst or rock dilation due to squeezing ground, the smooth bar sections between the anchors will elongate.

Physical properties

VersaBolt™		
Metric		
Diameter	20.5 mm	
Mass per Meter	2.62 kg/m	
Threads	7/8" UNC x 140 mm	
Spherical Seat Pin Nut	1-1/8" Square	
Pin Nut Torque	Standard/Heavy Duty	85 /115 +/-10 ft-lb torque
Smooth Bar Steel Specifications	Minimum	Typical
Yield Strength	150 kN	165 kN
Tensile Strength	201 kN	237 kN
Elongation (after fracture)	17%	24%
Threaded Steel Section	Minimum	Typical
Yield Strength	133 kN	160 kN
Tensile Strength	185 kN	214 kN

Installation guide

- Installation is the same as resin anchored tensioned rebar bolt.
- Begin rotation upon insertion of the bar in the drill hole.
- Once fully inserted ensure an additional 30 to 40 rotations to guarantee proper mixing.
- Ensure collar anchor is fully encapsulated with resin to ensure that in the event of a rockburst, the first metre of rock being ejected is well anchored to the bar and can transfer the load the next anchor point.

Standard lengths & packaging

- The VersaBolt™ has six standard lengths: 60in, 72in, 84in, 95in, 118", and 138in.
- Standard diameter is 20mm. 22mm VersaBolts™ can be produced upon request.
- They come packaged in bundles of 100 that are bound together by 3 steel straps.
- Please note – we will work with you to meet your specific needs. Custom lengths and sizing are available upon request.

Legal disclaimer

All dimensions, weights, quantities, and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local representative for final confirmation of any key specifications.

Scan to get our app



iOS



Android