

FULLY GROUTED SYSTEMS

ECLIPSE BOLT

Minova has developed this high-performance, cost-effective bolting system to enhance resin mixing and minimize the adverse effects of “glove fingering.” Glove fingering occurs when the plastic film packaging within the cured resin is forced against the borehole wall to potentially interfere with the mechanical interlock of the resin and the rock mass. The offset head forces the bolt around the outside of the borehole wall, shredding the cartridge and increasing the mixing action.

- 1/8” offset reduces gloving up to 70%
- Specially designed for Minova Lokset® resin
- Increases mixing efficiency
- Increases pullout strength
- Uniform resin anchorage
- Off-set effective to end of bolt
- Consistent quality mixing
- No cavitation

SPECIFICATIONS

Bar Diameter & Grade	Min Yield	Min Tensile	Borehole
#5 (16 mm) Gr60	18,600 lbs	27,900 lbs	1”

INSTALLATION PROCEDURES

1. Drill hole at proper diameter and depth.
2. Make depth 1” longer than the bolt.
3. Insert the appropriate Minova Lokset® Eclipse resin cartridge.
4. Insert Eclipse Bolt and Bearing Plate to within 1/16” to 1/8” of roofline.
5. Rotate bolt 3 - 5 seconds.
6. Hold bolt tight against roof for 3 - 7 seconds depending on resin speed



APPROVALS AND CERTIFICATES



an ISO 9001:2015
Quality Management System Certified Company.

DISCLAIMER

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ADDITIONAL DOCUMENTATION

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction and energy industries.

If further information is required consult Minova Americas website: www.minovaglobal.com.

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

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