JENNMAR

Double Corrosion Rock Bolts & Cables

SR Bolt



Features:

- The SR Bolt rock bolt is a mechanical point anchored, pre tensioned, post groutable rock bolt with a grout injection head connection
- Typical applications include major civil engineering projects, such as tunneling and slope stability, as well as life-of-project infrastructure in the mining industry
- Fully automated or manual installation
- M24 "X" grade steel bar Gr. 650/890MPa, supplied by JENNMAR has superior toughness and ductility through the use
 of grain refining alloys. The Jennmar "X" grade bolts should provide better performance in mines where Stress Corrosion
 Cracking is evident and also in areas of high localized horizontal stresses
- The expansion shell capable of pre-tensioning bolt to 50kN prior to grouting
- Fully encapsulated in high-strength thixotropic grout
- Durable, high-density polyethylene (HDPE), sheath provides superior corrosion protection achieving a 100 year design life
- Recommended for drill hole size 43-45mm diameter
- Screw on adaptor available for grouting through the head connection
- Face plate and grout bell available in black and grade 316 stainless steel. Dissmiller metals are electrically isoltated to prevent corrosion
- Bars can be supplied black or galvanised
- Standard lengths are available up to 9.0m

- Continued





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SR Bolt - Continued

SR Rock Bolt:

Property	Minimum Value	Typical Value
Yield strength (kN)	228	246
Ultimate Tensile strength (kN)	310	348
Shear Strength (kN)	213	243
Elongation %	15	19
Bar core diameter (mm)	21.5	21.7
Cross sectional area (mm2)	363	378
Mass/meter (kg/m)	2.8	3.0
Drill Hole size (mm)	-	43-45

SR Rock Bolt Sheath:

Property	Test Method	Cell Class	Acceptance Criteria	Test Results
Density	ASTM D1505	3	>0.940 - 0.947 g/cm3	0.948 g/cm3
Melt Index	ASTM D1238	3	<0.4 – 0.15 g/ 10 min	0.3g/10 min
Flexural Modulus	ASTM D790	5	758 – 1103 MPa	790 MPa
Tensile Strength	ASTM D638	4	21-24 MPa	22.9MPa
Slow Grout Crack Resistance	ASTM D638 / ASTM F1473	3	Test Condition – C duration – 192 h; Max. Failure rate – 20%	Failure Rate – 0% Duration – 200 h
Hydrostatic Strength Classification	ASTM D2837	0	-	-
Colour		С	2.0% - 3.0 % Carbon Black	2.0% - 3.0% Carbon Black
Softening point (BS 2782:part 1)	BS 2782:part 1		>110 C	120 C
Hardness (Shore D)	BS 2782: part 1		>50	55
Water Absorption at 23 C	ASTM D570		<0.5%	0.2%

