

High Strength DSI Combination Bolt

Product code: CT26WR

Category: Solid bolt

Introduction

The High Strength DSI Combination Bolt offers the combined advantages of an immediate mechanical point anchorage and subsequently a fully grouted bolt. A two-step installation procedure allows fast installation and immediate anchorage; separate and independent grouting provides flexibility in terms of working cycles.

Key features

- The High Strength DSI Combination Bolt is designed to be used with cementitious grouts or resin.
- The bolt is provided with an expansion shell for preloading, thus allowing for tunnel or mine heading to advance without immediate grouting.
- Grout bell allows for grouting after preloading.
- Anti-corrosion sheathing over full length of bolt for long life term protection.



Physical properties

	Minimum	Typical
Yield strength	524 kN (950 MPa)	
Tensile strength	579 kN (1,050 MPa)	
Calculated shear strength	382 kN (693 MPa)	
Bolt/sheath mass per metre		4.76 kg/m
Fixtures weight		2.8 kg
Maximum thread diameter		30.5 mm
Bar cross section		552 mm ²
Nominal diameter		26.5 mm
Product protrusion length from roof		145 mm (at 0°)
Maximum product diameter		Ø 95 mm

Installation guideline

- Drill 51-57mm hole diameters. The drill hole length must be longer than the bolt by approximately 50mm.
- Domed washer plate is fitted to the bolt.
- Fit expansion shell to bolt if required separately.
- The bolt is inserted into the hole.
- After placing the bolt in the hole to its full length, the bolt is then rotated to set the expansion shell to the required tension.
- Attach grouting adaptor to anchorage.
- Mix 0.33 to 0.35 W/C Grout. Pump grout. Grout is pumped through the inner annulus to the bolt end and returns along the outer annulus.
- Terminate grouting with visible grout return.
- Detach adaptor and proceed to the next bolt.

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.