

KITSBOLT™ FRICTION ANCHOR ROCK STABILISER

DESCRIPTION

KITSBOLT Friction rock anchors are rock dowels providing immediate support once inserted into a borehole, without a requirement to tension or grout.

Friction rock anchors are steel tubes with a full-length longitudinal split or gap. The end to be inserted into the hole is tapered to facilitate insertion and the opposite end has a welded steel ring which serves to reinforce the end and to retain a bearing plate. The working principle is that the device is inserted into a hole of smaller diameter than the main diameter of the tube. Due to its shape and elasticity the constrained tube exerts a radial force on the wall of the hole thus generating frictional resistance to being pulled out.

Friction rock anchors are percussion driven into the hole using a percussion drill with an adaptor bit to fit the end of the anchor.

FEATURES

- Immediate support
- Installation using rock drilling equipment
- No further tensioning required
- Can be fitted with a bearing plate
- Capable of deforming during shear-type rock movement

ATTRIBUTES

	KITSBOLT 33	KITSBOLT 39	KITSBOLT 42	KITSBOLT 46
OUTSIDE DIAMETER	33.0 – 34.6 mm	38.0 – 39.6 mm	42.0 – 43.6 mm	46.0 – 47.6 mm
TAPER LEAD DIAMETER (nominal)	27 mm	33 mm	37 mm	41 mm
NOMINAL OUTSIDE DIAMETER OF RETAINING RING	49 mm	54 mm	58 mm	62 mm
NOMINAL OUTSIDE DIAMETER OF RETAINING FLANGE*	-	70 mm	-	-
STEEL THICKNESS	2.3 mm	2.3 mm	2.3 mm	3.2 mm
NOMINAL YIELD LOAD (in tension)	90 kN	90 kN	90 kN	
NOMINAL ULTIMATE LOAD (in tension)	110 kN	110 kN	110 kN	
SLOT WIDTH	14.5 – 16.5 mm			



PRODUCT INFORMATION

STRAIGHTNESS	Within 4 mm / 1000 mm
TUBE MATERIAL	ASTM A607 450 MPa (YIELD STRESS) 550 MPa (ULTIMATE TENSILE STRESS) STEEL
LENGTH	Increments of 0.1 m
BOREHOLE DIAMETER	1 - 3 mm BELOW TUBE DIAMETER

* A conical flange is provided



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