

## ROCK BOLTS

**FRICITION LOK****Features**

- The radial compression of the slotted steel tube inside a borehole provides both radial and axial restraint to rock movement
- Can be post grouted for extra corrosion protection and support capacity
- Available in black or hot dipped galvanised
- 39mm friction lok designed to suit 47mm friction lok plates, requiring the use of one plate on site



Description	33mm Friction Lok Properties Minimum		33mm Friction Lok Properties Typical		General Data
	MPa	kN	MPa	kN	
Yield strength of steel	415	80	510	100	
Tensile strength of steel	510	100	610	120	
Cross Sectional Area (mm <sup>2</sup> )					204
Mass per metre (kg/m)					1.53
Drill Hole size (mm)					30-32

Description	39mm Friction Lok Properties Minimum		39mm Friction Lok Properties Typical		General Data
	MPa	kN	MPa	kN	
Yield strength of steel	415	90	510	115	
Tensile strength of steel	510	115	610	135	
Cross Sectional Area (mm <sup>2</sup> )					225
Mass per metre (kg/m)					1.77
Drill Hole size (mm)					35-38

Description	47mm Friction Lok Properties Minimum		47mm Friction Lok Properties Typical		General Data
	MPa	kN	MPa	kN	
Yield strength of steel	345	120	445	160	
Tensile strength of steel	460	165	510	180	
Cross Sectional Area (mm <sup>2</sup> )					355
Mass per metre (kg/m)					2.79
Drill Hole size (mm)					42.1- 45

Diameter (mm)	Pack Size
33	300
39	300
47	150