

Threaded rock studs

Overview of mechanically anchored rock bolts and rock studs

Mechanically anchored (also known as end anchored) rock bolts or rock studs, are extensively used in the support of underground excavations. This type of support is recommended for the short to medium term where no subsequent support of a more permanent nature is envisaged i.e. shotcrete and or wire meshing and lacing.

Rock bolts and studs are used with various accessories (depending on the application and geological conditions). In order to select the correct accessories for your particular application and conditions, please refer to the Rock bolt Accessories – Bearing Plates, Nuts and Spherical seats.

In order to ensure that you receive the maximum benefit in terms of performance and safety from our products, please refer to our Sales Representative for detailed Installation Methods and Procedures.



APPLICATIONS

Where additional thread may be required to take up any play between the bearing plate and the rock surface (e.g. pulling wire mesh into depressions in the rock surface.)

Where it may be important not to impart torque to the shank of the bolt during pre-tensioning.

SPECIFICATIONS

Lengths	Studs and bolts are available in standard lengths from 0.6m to 3.0m in increments of 0.3m. The lengths of the studs are measured overall and bolts are measured from the threaded end to under the forged head. Non standard lengths are available on request		
Available thread types and dimensions (LH and RH available)	All threads are formed by a cold rolled process and are available in either left hand or right hand threads.		
	Metric	UNC	DIN 405
	M16 x 2 - 8g	5/8" - 11 (1A)	R16 x 8
	M20 x 2.5 - 8g	3/4" - 10 (1A)	R20 x 8
Mechanical Properties	Yield strength MPa (Min)	Ultimate tensile Strength MPa (min)	Elongation % (min)
	360	570	13
Manufacturing Process	All material is cold drawn prior to threading so as to eliminate any out-of-roundness associated with hot rolled bar		