



The cold form thread pattern on the Unibar™ gives closer tolerance between thread and nut (no 'rattle fit') and greater tensile strength. These features combined, provide improved load retention capability, compared to conventional hot-rolled fully threaded bar.

ADVANTAGES

- The spiral action of the bar improves the mixing and pushes the resin to the back of the hole
- The clearly defined thread design is more robust and less prone to damage
- Unibar may be used as a mechanical or resin/cement anchored bolt
- No reduction in strength as a result of threading i.e. full cross sectional area is utilised
- Various diameters are available to suit a range of applications
- The system allows for re-tensioning should scaling take place
- Consistent quality adds to overall safety.

APPLICATIONS

- In conjunction with an expansion shell, as a mechanically anchored rock stud
- As a grouted reinforcing tendon using either cement or polyester resin.

SPECIFICATIONS

Lengths	Studs and bolts are available in standard lengths from 0.6m to 3.0m in increments of 0.3m. Non standard lengths are available on request.			
Available sizes	All threads are formed by a cold-rolled process and are available in left hand format.			
	Nominal diameter (mm)	Major diameter (mm)	Pitch (mm)	
	13.5 16.0 20.0	15.0 18.0 22.0	4.5 5 6	
Mechanical properties	Nominal diameter (mm)	Ultimate tensile strength MPa (min.)	Ultimate tensile load kN (min.)	Elongation % (min.)
	13.5	800	100	6-8
	16 20	700 640	150 200	6-8 6-8