

THROUGHBOLT

STAINLESS STEEL T316

Popular torque-controlled expansion anchor bolt for fixing various materials into concrete, where the drill hole diameter required is the same as the anchor diameter.



Specifications/Features

Type: Stainless steel T316 with a Stainless Steel T316 expansion clip

Corrosion resistant 316 S/S materials

All sizes come with a nut & flat washer

Pre-assembled Thru fixing for fast installation

Expansion clip designed for high loads and prevents anchor rotation

Anchor Diameter	Anchor Length mm	Drill Hole Diameter mm	Min Embedment mm	Clearance Hole In Fixture mm	Installation Torque Nm	C30 Concrete Working Load			
						Non Cracked Tensile kN	Non Cracked Shear kN	Cracked Tensile kN	Cracked Shear kN
M6	55	6	35	7	10	3.6	3.6	2	3.6
M8	65	8	45	9	20	6.6	6.2	4.4	6.2
	85		65			5.2			
M10	75	10	50	12	30	9.1	9.5	8.5	9.5
	100		80			9.1		8.5	
	125		100			9.1		8.9	
M12	80	12	60	14	50	14.1	13.3	12.9	13.3
	100		70			14.1		12.9	
	120		90			14.1		13.5	
	135		105			14.6		14.1	
	180		150			13.5		13.1	
M16	105	16	65	18	80	17.5	25.6	14.5	25.6
	140		100			27.5		22.9	

All tests performed in a controlled laboratory environment. Cracked concrete 0.3mm. Working load strength calculated at 1/3 the ultimate pull out load.

0800 425 262 steelandtube.co.nz

Disclaimer: This data should be used as a guide only, for exact applications you should engage the services of a qualified engineer.

Hex Nut mm	M6	M8	M10	M12	M16
Width Across Flat	10	13	17	19	24
Height	5	6.5	8	10	13

INSTALLATION

1. Drill a hole into the concrete using a carbide tipped bit. Drill size = anchor diameter. Drill a hole deeper than the anchor will penetrate into the concrete. The hole can be drilled while the fixture is in place. It is important to make sure that the bit diameter being used will fit through the hole in the fixture.
2. Clean out the hole using a wire brush, compressed air or vacuum.
3. Insert the anchor through the fixture's hole and into the hole in the base material. This should be a tight fit- use a hammer to complete the installation until the nut and washer are tight against the fixture.
4. Tighten the anchor to the specified torque

