

THROUGHBOLT

GALVANISED

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: Hot dipped Galvanised with a Stainless Steel expansion clip

All sizes except M12 x 120mm & 135mm come with a flat washer

Pre-assembled for 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	C25/30 Concrete Working Load				
						Non Cracked Tensile kN	Non Cracked Shear kN	Cracked Tensile kN	Cracked Shear kN	
M8	65	8	40	9	20	5.4	4.4	4.4	4.4	
	85		60	9	20	5.7		4.6		
M10	60	10	40	12	40	5.2	6.9	3.9	4.7	
	75		50	12	40	6.9		5.9		
	100		75	12	40	9.6		8.1		6.2
	125		90	12	40	10.2		9.4		
M12	80	12	50	14	60	9.3	10	6.3	6.2	
	100		60	14	60	9.3		9.1		
	120		90	14	60	9.3		11.5		
	135		100	14	60	11.6		12.3		
	180		100	14	60	11.6		9.6		
M16	105	16	65	18	110	15.4	18.7	6.0	11.2	
	125		90	18	110	20.5		14.3		
	140		100	18	110	21.4		16.4		
	180		110	18	110	21.6		18.3		
M20	125	20	80	22	180	21.5	28.9	14.0	14.7	
	160		110	22	180	26.6		18.2		
	200		150	22	180	31.0		19.8	19.1	

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

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

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

