Datasheet

Throughbolt - Galvanised

Features

The Throughbolt is the ultimate "through fixing" with the hole diameter as the bolt diameter. It is ideal for bolting in place awkward fixtures without the need for marking out, removal and repositioning. It is a torque controlled anchor suitable for use in concrete over C20/25 strength.

Range Data

| RS Stock No	Thread Diam.	Anchor Length	Hole Diam	Max Fixture Thickness	Fixture Clearance Hole	Embed Depth	Min Hole Depth	Structure Thickness	Installation Torque
	mm	mm	mm	mm	mm	mm	mm	mm	Nm
9086696	10	80	10	10	12	60	70	105	30
9086690		100		30					
9086700		125		50					
9086703	12	85	12	10	14	60	70	100	50
9086707		100		5		80	90	140	
9086716		115		20					
9086719		145		50					
9086713	16	110	16	15	18	75	85	150	100
9086722		130		10		100	110	180	
1777064		150		30					

Installation Instructions

Position fixture and drill correct diameter hole to correct depth
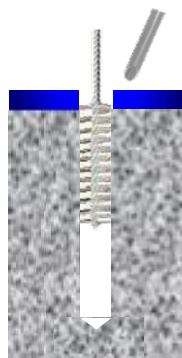
Clean hole by brushing and blowing to remove all dust and drilling debris

Insert assembled anchor through fixture into concrete
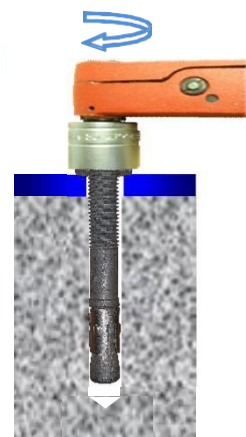
Tighten with torque wrench to Installation Torque

Standard Embedment

Performance Data (C20/25 non-cracked Concrete)											
Thread Diam.	Minimum Structure Thickness	Characteristic Resistance		Design Resistance		Recommended Resistance		Design Spacing	Design Edge Distance		Tight Torque
mm	**mm**	**kN**		**kN**		**kN**		**mm**	**mm**		**Nm**
		Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear*	
8	100	13.5	11.0	7.4	8.7	5.2	6.2	85	70	95	15
10	110	18.3	18.9	10.1	12.6	7.2	9.0	145	100	125	30
12	140	27.4	25.0	15.2	19.9	10.8	14.2	240	130	175	50
16	180	41.6	44.0	23.1	33.0	16.5	23.5	265	180	250	100
20	215	55.1	69.0	30.6	55.1	22.6	39.3	320	210	380	200

Shear loads towards a free edge are for single anchors where spacing ≥ 3 x Edge Distance

Reduced Embedment

Performance Data (C20/25 non-cracked Concrete)											
Thread Diam.	Minimum Structure Thickness	Characteristic Resistance		Design Resistance		Recommended Resistance		Design Spacing	Design Edge Distance		Tight Torque
mm	**mm**	**kN**		**kN**		**kN**		**mm**	**mm**		**Nm**
		Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear*	
8	100	7.5	7.4	4.1	4.9	3.0	3.5	85	60	60	15
10	100	9.1	9.1	5.0	6.0	3.6	4.2	95	65	65	30
12	110	17.9	25.0	9.9	19.9	7.0	14.2	150	100	210	50
16	130	25.3	44.0	14.0	33.0	10.0	23.5	190	125	315	100

* Reduce embedment only for shorter anchors as indicated in range table.
Shear loads towards a free edge are for single anchors where spacing ≥ 3 x Edge Distance