

Datasheet

Sleeve Anchor Hex Bolt

ENGLISH

Features

A zinc plated, yellow passivated, torque controlled, sleeve anchor. Suitable for use in non-cracked concrete, dense concrete blocks, solid bricks and some natural stone.

- Through Fixing
- Light to medium duty loads
- Torque controlled expansion
- Collapse feature to allow a positive clamping force
- Supplied pre-assembled for rapid installation



RANGE DATA

RANGE DATA									
RS Stock No	Outside/ Drill Diam	Anchor Length	Thread Diameter	Maximum Fixture Thickness	Fixture Clearance Hole	Embedment Depth	Minimum Hole Depth	Structure Thickness	Installation Torque
	mm	mm	mm	mm	mm	mm	mm	mm	Nm
1777043	8	40	6	2	9	40	45	100	10
1777042		65		25					
1777041	10	55	8	15	12	40	45	100	20
1777040		75		30		45			
1777039		95		50					
1777038	12	60	10	5	14	50	65	100	35
1777037		75		20					
1777036		95		40					

Mechanical Properties

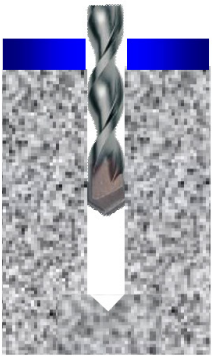
Outside Diameter	mm	8	10	12
Ultimate Tensile Strength	N/mm ²	400	400	400
Yield Strength	N/mm ²	280	280	280
Bolt A/F	mm	10	13	17
Washer Diameter	mm	12	17	21



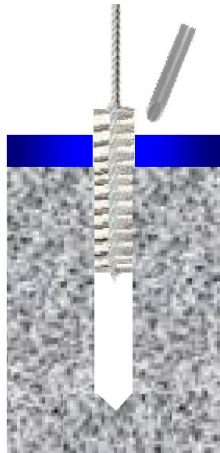
Datasheet

ENGLISH

INSTALLATION INSTRUCTIONS



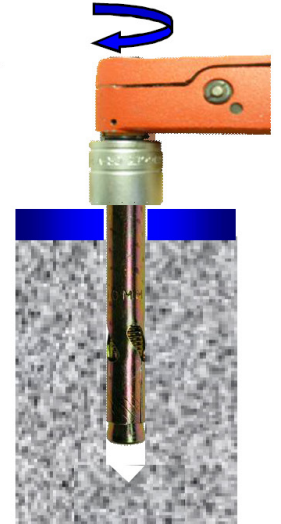
-Position fixture and drill correct diameter hole to corresponding depth



-Clean hole by blowing to remove drilling debris and dust



-Insert assembled anchor through fixture into base material



-Tighten with torque wrench to recommended torque

Non-Cracked concrete

Performance Data (20/25 Concrete)									
Outside Diam mm	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance	
	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	6.6	4	3.6	3.1	2.5	2.2	55	45	40
10	10.2	8.3	5.6	5.5	4	3.9	100	70	60
12	12.6	12.7	6.9	8.4	5	6	115	80	85

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance
(Loads are not applicable to anchors with reduced embedment depth)



Datasheet

ENGLISH

Solid Brickwork

Performance Data (20 N/mm ²)										
Outside Diam	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance		Tightening Torque
mm	kN		kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
8	2.3	3.6	1.1	2.4	0.8	1.7	90	45	60	8
10	3.1	7.4	1.5	4.9	1.1	3.5	110	55	70	16
12	4.4	11.4	2.1	7.6	1.5	5.4	Only 1 fixing per brick is recommended			22

(Loads are not applicable to anchors with reduced embedment depth)

Solid Concrete Blocks

Performance Data (7 N/mm ²)										
Outside Diam	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance		Tightening Torque
mm	kN		kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
8	1.5	2.1	0.7	1.4	0.5	1	90	45	60	6
10	2.3	4.4	1.1	2.9	0.8	2	110	55	70	12
12	2.9	6.7	1.4	4.4	1	3.1	120	60	80	20

(Loads are not applicable to anchors with reduced embedment depth)

Due to the variable nature of bricks and concrete blocks these figures are for guidance only