

Product Information

A zinc plated (min 5µm), yellow passivated, torque controlled shield anchor. Suitable for use in non-cracked concrete range between C20/25 & C50/60, solid brickwork and solid concrete blocks

Features

All steel anchor
Medium to heavy duty loads
Torque controlled expansion



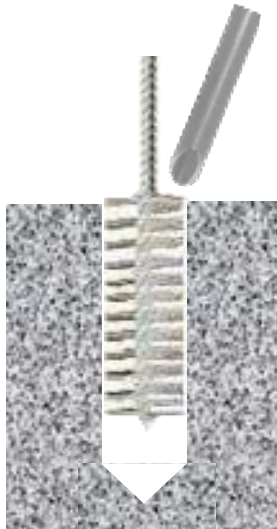
Range Data

Part Number	Thread Diam mm	Overall Length mm	Hole Diam mm	Maximum Fixture Thickness mm	Fixture Clearance Hole mm	Embedment Depth mm	Minimum Hole Depth mm	Structure Thickness mm	Installation Torque Nm
APB0610	6	60	12	10	7	45	50	100	6
APB0625		75		25					
APB0650		100		50					
APB0815	8	75	14	15	9	50	55	100	14
APB0840		100		40					
APB0880		140		80					
APB1010	10	80	16	10	12	60	65	120	27
APB1030		100		30					
APB1050		120		50					
APB1070		140		70					
APB1215	12	100	20	15	14	75	85	160	46
APB1225		110		25					
APB1250		135		50					
APB1270		155		70					
APB1635	16	160	25	35	18	110	125	200	110

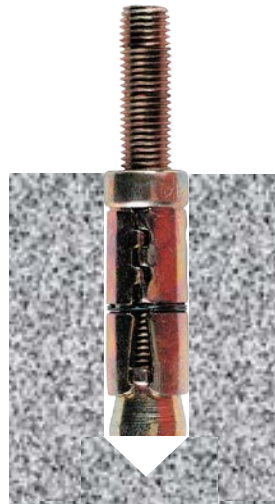
Installation Instructions



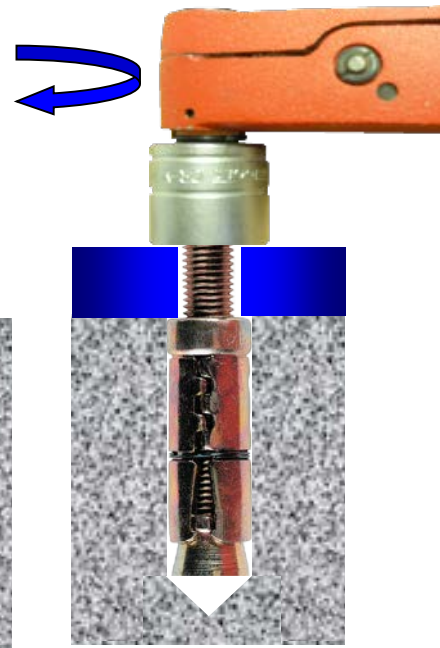
Drill correct diameter hole to correct depth



Clean hole by brushing and blowing to remove all dust and drilling debris



Insert assembled anchor through fixture into concrete



Attach fixture
Tighten with torque wrench to recommended torque

Non-Cracked concrete

Performance Data (20/25 Concrete)

Thread Diam	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance	
	mm	kN	kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
6	7.2	8.0	3.9	6.3	2.8	4.5	55	55	65
8	12.7	13.7	7.0	9.1	5.0	6.5	105	80	90
10	20.3	17.8	11.2	11.9	8.0	8.5	180	95	120
12	23.4	23.4	15.6	15.6	11.1	11.1	240	120	140
16	48.9	62.8	27.1	50.2	19.3	35.8	285	160	365

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

For variations in structure thickness, reduced spacing and edge calculations download the free [Anchor Calculation Program](http://www.jcpfixings.co.uk) from www.jcpfixings.co.uk

Solid Brickwork

Performance Data (20 N/mm²)

Thread Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque
	mm	kN	kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
6	5.2	3.6	2.5	1.7	1.8	1.1	55	55	65	5
8	6.7	7.4	3.2	3.5	2.3	1.5	105	80	90	12
10	8.4	11.4	4.0	5.4	2.9	2.1	180	95	120	22
12	12.6	13.6	6.0	6.4	4.3	3.0	Only 1 fixing per brick is recommended			38

Solid Concrete Blocks

Performance Data (7 N/mm²)

Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque
	mm	kN	kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
6	3.8	2.1	1.6	1.4	1.1	1.0	55	55	65	5
8	6.7	4.4	3.2	2.9	2.3	2.0	105	80	90	12
10	10.7	6.7	4.4	4.4	3.1	3.1	180	95	120	22
12	12.4	8.0	5.9	5.3	4.2	3.7	285	160	365	38

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

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