CONSTRUCTION PRODUCTS

Sleeve Anchor Hex Bolt



Product Information

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.

Features

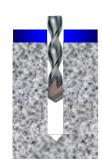
Through Fixing
Light to medium duty loads
Torque controlled expansion
Collapse feature to allow a
positive clamping force
Supplied pre-assembled for
rapid installation

Range Data											
Part Number	Outside/ Drill Diam	Anchor Length	Thread Diam	Maximum Fixture Thickness	Fixture Clearance Hole	Embedment Depth	Minimum Hole Depth	Structure Thickness	Installation Torque		
mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm		
SLB08045 SLB08070 SLB08090	8	40 65 90	6	2 25 45	9	40	45	100	10		
SLB10045 SLB10055	10	45 55	8	5 15	40	40	45	100	20		
SLB10080 SLB10100	10 75 95		0	30 50	12	45	50	100	20		
SLB12065 SLB12080 SLB12100	12	60 75 95 10 5 20 40		14	50	65	100	35			
SLB12125 SLB16075 SLB16110	16	115 65 100	12	65 5 40	18	55	65	100	45		

Mechanical Properties

Outside Diameter	mm	8	10	12	16	
Ultimate Tensile Strength	N/mm²	400	400	400	400	
Yield Strength	N/mm²	280	280	280	280	
Bolt A/F	mm	10.0	13.0	17.0	19.0	
Washer Diameter	mm	12.0	17.0	21.0	24.0	

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 base material



Tighten with torque wrench to recommended torque

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Sleeve Anchor Hex Bolt B.Z.P.



Non-Cracked concrete (Loads are not applicable to anchors with reduced embedment depth)

Performance Data (C20/25 Concrete)											
Outside Diam	Characteristic Resistance		Design Resistance		Recommended Resistance (© _F =1.4)		Design Spacing	Design Edge Distance			
mm	kN		kN		kN		mm	mm			
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear		
8	6.6	4.0	3.6	3.1	2.5	2.2	55	45	40		
10	10.2	8.3	5.6	5.5	4.0	3.9	100	70	60		
12	12.6	12.7	6.9	8.4	5.0	6.0	115	80	85		
16	15.0	15.2	8.3	10.1	5.9	7.2	130	90	100		

Shear Loads towards a free edge are for single anchors where Spacing ≥ 3 x Edge Distance

For variations in structure thickness, reduced spacing and edge calculations download the free Anchor Calculation Program from www.jcpfixings.co.uk

Influence of concrete strength Not applicable with sleeve anchors

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

O O HOLD DIT	Solid Brickwork (Loads are not approache to another warreduced embedment departy										
Performance Data (20 N/mm²)											
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recomn Edge Di		Tightening Torque	
mm	kN		kN		kN		mm	ı mm		Nm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear		
8	2.3	3.6	1.1	2.4	8.0	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				
16	6.3	13.6	3.0	9.0	2.2	6.4					

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

Jolia col	Solid Concrete blocks (Loads are not applicable to anchors with reduced embedment deptin)										
Performance Data (7 N/mm²)											
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque	
mm	kN		k١	kN		١	mm	mm		Nm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear		
8	1.5	2.1	0.7	1.4	0.5	1.0	90	45	60	6	
10	2.3	4.4	1.1	2.9	0.8	2.0	110	55	70	12	
12	2.9	6.7	1.4	4.4	1.0	3.1	120	60	80	20	
16	4.0	8.0	1.9	5.3	1.4	3.7	140	70	95	30	

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

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