www.fastenersfixingsandtools.co.uk Tel.01234 333949 Email : info@fasteners-ft.co.uk Fax.01234 211069



Sleeve Anchor Hex Bolt

Specification



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		40		2	9	40	45	100				
SLB08070	8	65	5 6	25					10			
SLB08090		90		45								
SLB10045		45		5 15 30	12	40	45	100				
SLB10055	10	55	8			40	45		20			
SLB10080	10	75	0			45	50		20			
SLB10100		95		50		45	50					
SLB12065		60		5			65	100	35			
SLB12080	12	75	10	20	14	50						
SLB12100	12	95	10	40	14	50	05	100	30			
SLB12125		115		65								
SLB16075	16	65	12	5	18	55	65	100	45			
SLB16110	10	100	14	40	10		00	100	40			

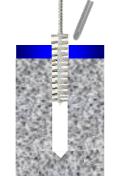
Mechanical Properties

Outside Diameter	mm	8	10	12	16
Ultimate Tensile Strength	N/mm ²	400	400	400	400
Yield Strength	N/mm ²	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

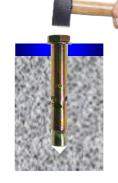
Installation Instructions



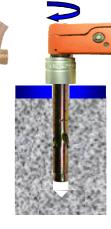
Position fixture and drill correct diameter hole to correct depth



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



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 (P _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 \geq 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

Performance Data (20 N/mm ²)											
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Recomm Spacing Edge Di			Tightening Torque	
mm	kN		k١	kN		١	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				
16	6.3	13.6	3.0	9.0	2.2	6.4	recommended				

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

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

Performance Data (7 N/mm ²)											
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque	
mm	kN		k١	kN k		l 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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