Sleeve Anchor Hex Nut S.S.

Specification

Product Information

A Grade A4-316 stainless steel, 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

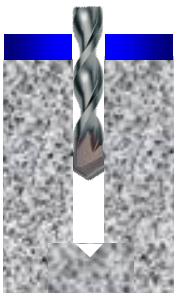
Range Data

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
SLSS06060	6	55	4.5	25	7	30	35	100	7
SLSS08040	8	40	6.0	5	10	35	40	100	10
SLSS08065		65		30					
SLSS10050	10	50	8.0	10	12	40	45	100	20
SLSS10075		75		35					
SLSS10100		95		55					
SLSS12060	12	55	10.0	10	14	45	60	100	35
SLSS12075		65		20					
SLSS12100		95		50					

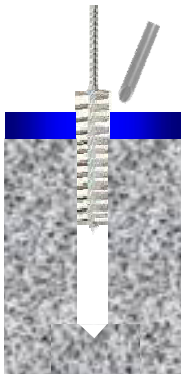
Mechanical Properties

Outside Diameter	mm	6	8	10	12
Ultimate Tensile Strength	N/mm^2	700	700	700	700
Yield Strength	N/mm^2	450	450	450	450
Nut A/F	mm	7.0	10.0	13.0	17.0
Washer Diameter	mm	10.0	12.0	17.0	21.0

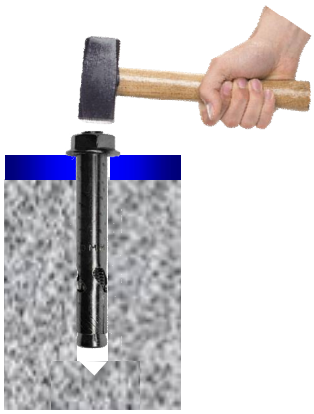
Installation Instructions



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 concrete

Tighten with torque wrench to recommended torque

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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		Design Spacing	Design Edge Distance	
mm	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
6	5.4	3.5	3.0	2.8	2.1	2.0	50	40	35
8	6.6	4.0	3.6	3.1	2.5	2.2	55	45	40
10	10.2	7.3	5.6	5.8	4.0	4.1	100	70	60
12	12.6	11.6	6.9	9.2	5.0	6.5	115	80	85

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)

Performance Data (20 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	1.6	1.6	0.7	1.0	0.5	0.7	80	40	50	6
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			25

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

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	1.3	0.6	0.6	0.4	0.4	0.3	80	40	50	5
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

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

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