

Datasheet

Sleeve Anchor Hex Nut Stainless Steel

Features

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.



- 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

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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
1777059	6	55	4.5	25	7	30	35	100	7
6222032	8	40	6	5	10	35	40	100	10
6222026		65		30					
6222048	10	50	8	10	12	40	45	100	20
6222054		75		35					
6222060		95		55					
6222082	12	55	10	10	14	45	60	100	35
6222076		65		20					
6222098		95		50					

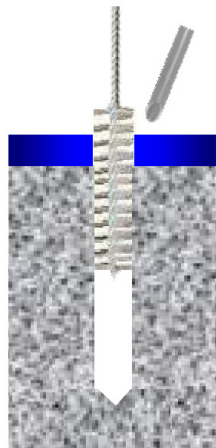
Mechanical Properties

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	10	13	17
Washer Diameter	mm	10	12	17	21

INSTALLATION INSTRUCTIONS



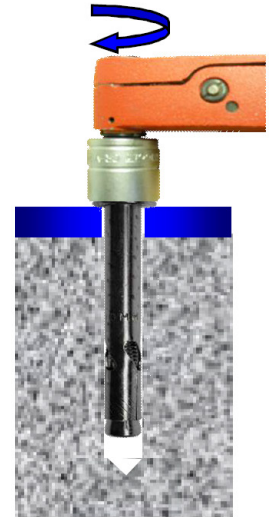
-Position fixture and drill correct diameter hole to corresponding depth



-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 kN		Design Resistance kN		Recommended kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
6	5.4	3.5	3	2.8	2.1	2	50	40	35
8	6.6	4	3.6	3.1	2.5	2.2	55	45	40
10	10.2	7.3	5.6	5.8	4	4.1	100	70	60
12	12.6	11.6	6.9	9.2	5	6.5	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	
6	1.6	1.6	0.7	1	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

(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	
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	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