

Datasheet

Shield Anchor - Stainless Steel

ENGLISH



Features

A Stainless Steel Grade A4-316 torque controlled shield anchor. Suitable for use in non-cracked concrete range between C20/25 & C50/60, solid brickwork and solid concrete blocks.

- All steel anchor
- Medium to heavy duty loads
- Torque controlled expansion

RANGE DATA

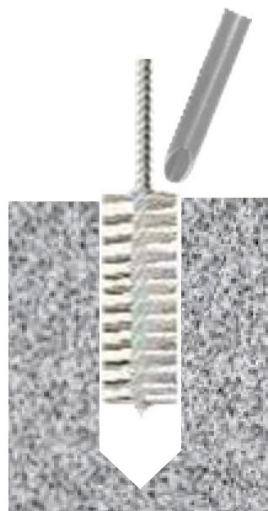
RANGE DATA									
RS Stock No	Thread Diam	Length	Hole Diameter	Minimum Bolt length	Fixture Clearance Hole	Embedment Depth	Minimum Hole Depth	Structure Thickness	Installation Torque
	mm	mm	mm	mm	mm	mm	mm	mm	Nm
1776934	6	45	12	$t_{fx} + 45$	7	45	50	100	6
1776948	8	50	14	$t_{fx} + 50$	10	50	55	100	14
1776932	10	60	16	$t_{fx} + 60$	12	60	65	100	27
1776929	12	75	20	$t_{fx} + 75$	14	75	85	120	46

t_{fx} = Fixture Thickness

INSTALLATION INSTRUCTIONS



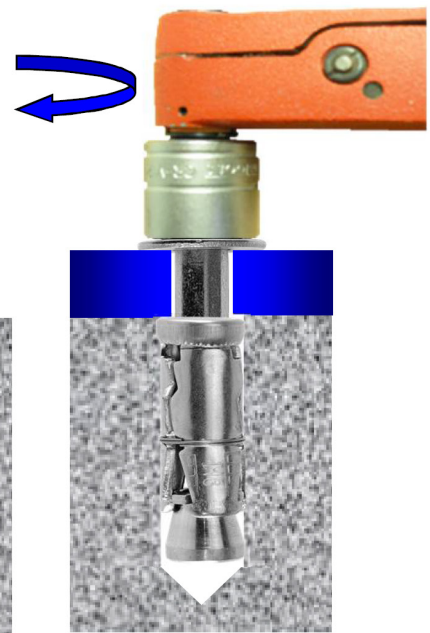
-Position fixture and drill correct diameter hole to corresponding depth



-Clean hole by blowing to remove drilling debris and dust



-Insert anchor into concrete



-Position fixture Insert bolt. Tighten with torque wrench to recommended torque



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Non-Cracked concrete

Performance Data (20/25 Concrete)

Thread 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	7.2	7	3.9	4.4	2.8	3.1	55	55	55
8	12.7	12.8	7	8.2	5	5.8	85	80	80
10	17.9	17.8	9.9	11.9	7.1	8.5	200	100	120
12	23.4	29.5	13	18.9	9.3	13.5	240	120	170

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

Solid Brickwork

Performance Data (20 N/mm²)

Thread Diam mm	Characteristic Resistance kN		Design Resistance kN		Recommended kN		Design Spacing mm	Design Edge Distance mm		Tightening Torque Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
6	5.2	3.6	2.5	1.1	1.8	1.7	55	55	65	5
8	6.7	7.4	3.2	1.5	2.3	3.5	105	80	90	12
10	8.4	11.4	4	2.1	2.9	5.4	180	95	120	22
12	12.6	13.6	6	3	4.3	6.4	Only 1 fixing per brick is recommended			38

Solid Concrete Blocks

Performance Data (7 N/mm²)

Thread Diam mm	Characteristic Resistance kN		Design Resistance kN		Recommended kN		Design Spacing mm	Design Edge Distance mm		Tightening Torque Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
6	3.8	2.1	1.6	1.4	1.1	1	55	55	65	5
8	6.7	4.4	3.2	2.9	2.3	2	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	5.9	5.3	4.2	3.7	285	160	365	38