

PRODUCT DATA SHEET

Loose Bolt Shield Anchor

Information

Torque controlled shield anchor. Suitable for use in non-cracked concrete between C20/25 & C50/60, solid brickwork and solid concrete blocks.

Features

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

Finish

BZP - Zinc plated (min 5µm), yellow passivated.



Product Details

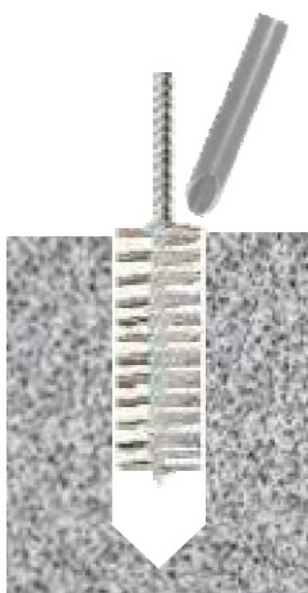
Stock Code	Thread Dia (mm)	Length Under Head (mm)	Hole Dia (mm)	Max. Fixture Thickness (mm)	Fixture Clearance Hole (mm)	Embedment Depth (mm)	Min. Hole Depth (mm)	Structure Thickness (mm)	Installation Torque (Nm)
03351	6	55	12	5	7	45	50	100	6
03352		70		15					
03353		85		45					
03354	8	60	14	5	9	50	55	100	14
03355		75		20					
03356		90		35					
03357	10	70	16	8	12	60	65	120	27
03358		85		18					
03359		110		33					
03360		135		43					
03361	12	85	20	5	14	75	85	160	46
03362		100		25					
03363		115		45					
03364		135		65					
03365	16	135	25	10	18	110	125	200	110
03366		150		30					
03367		180		55					

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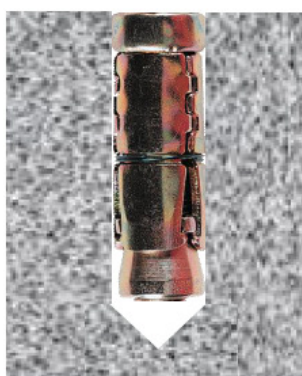
Installation Instructions



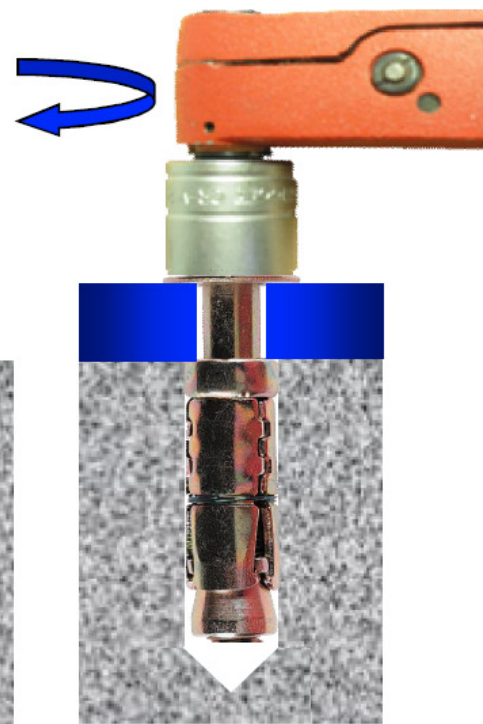
Drill correct diameter
hole to correct depth



Clean hole by
brushing and blowing
to remove all dust and
drilling debris



Insert assembled
anchor through fixture
into concrete



Position fixture
Insert bolt
Tighten with torque
wrench to recommended
torque

Non-Cracked Concrete

Performance Data (20/25 Concrete)

Thread Dia (mm)	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Resistance (kN)		Design Spacing (mm)	Design Edge Distance (mm)	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Shear
6	7.2	8.0	3.9	6.3	2.8	4.5	55	55	65
8	12.7	13.7	7.0	9.1	5.0	6.5	105	80	90
10	20.3	17.8	11.2	11.9	8.0	8.5	180	95	120
12	23.4	23.4	15.6	15.6	11.1	11.1	240	120	140
16	48.9	62.8	27.1	50.2	35.8	35.8	285	160	365

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

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Solid Brickwork

Performance Data (20 N/mm²)

Thread Dia (mm)	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Resistance (kN)		Recommended Spacing (kN)	Recommended Edge Distance (mm)		Tightening Torque (Nm)
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
6	5.2	3.6	2.5	1.7	1.8	1.1	55	55	65	5
8	6.7	7.4	3.2	3.5	2.3	1.5	105	80	90	12
10	8.4	11.4	4.0	5.4	2.9	2.1	180	95	120	22
12	12.6	13.6	6.0	6.4	4.3	3.0	Only 1 fixing per brick is recommended			38

Solid Concrete Blocks

Performance Data (7 N/mm²)

Outside Dia (mm)	Characteristic Resistance (kN)		Design Resistance (kN)		Recommended Resistance (kN)		Recommended Spacing (kN)	Recommended 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	1.0	55	55	65	5
8	6.7	4.4	3.2	2.9	2.3	2.0	105	80	90	12
10	10.7	6.7	4.4	4.4	3.1	3.1	180	95	120	22
12	12.4	8.0	5.9	5.3	4.2	3.7	285	160	365	38

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

For further product information, please contact one of the Kernow team on 01726 624600 or sales@kernow-how.com