



# Datasheet

## Shield Anchor - Shield Only B.Z.P.

ENGLISH



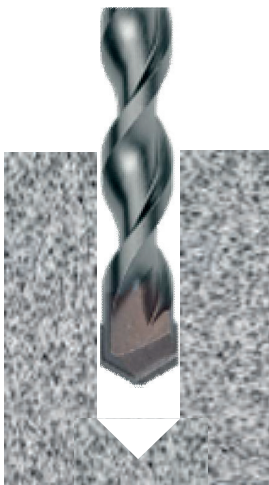
### Features

The Shield Anchor is a three way expansion shield suitable for use in brick and concrete. The thick walls of the expanders give the anchor its exceptional grip and allow it to cater for oversized holes caused by powerful drills in weaker materials such as brick work.

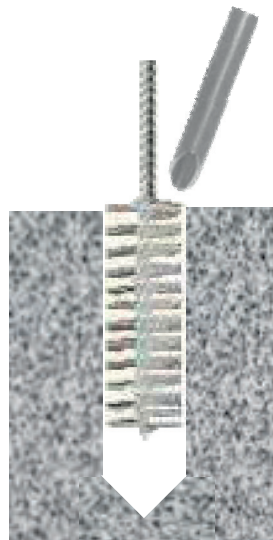
### Range Data

RS Stock No	Thread Diameter	Shield Length	Drill Diam.	Fixture Clearance Hole	Minimum Hole Depth	Tightening Torque	Embedment Depth	Minimum Structure Thickness
	mm	mm	mm	mm	mm	Nm	mm	mm
<b>1776940</b>	6	45	12	7	50	6	45	100
<b>1776939</b>	8	50	14	9	55	14	50	100
<b>1776937</b>	10	60	16	12	65	27	60	120
<b>1776936</b>	12	75	20	14	85	46	75	160
<b>1776921</b>	16	110	25	18	125	110	110	200

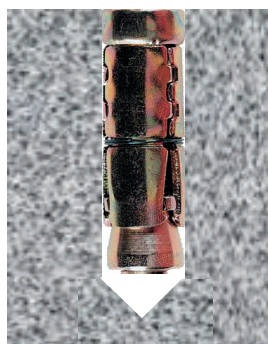
### Installation Instructions



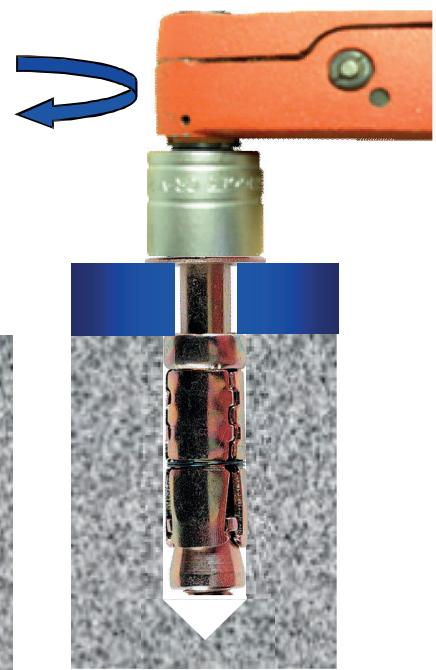
Drill correct diameter hole to correct depth



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



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**Non-Cracked concrete**

**Performance Data (20/25 Concrete)**

Thread Diam	Characteristic Resistance		Design Resistance		Recommended		Design Spacing	Design Edge Distance	
	kN		kN		kN		mm	mm	
mm	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
<b>6</b>	7.2	8	3.9	6.3	2.8	4.5	55	55	65
<b>8</b>	12.7	13.7	7	9.1	5	6.5	105	80	90
<b>10</b>	20.3	17.8	11.2	11.9	8	8.5	180	95	120
<b>12</b>	23.4	23.4	15.6	15.6	11.1	11.1	240	120	140
<b>16</b>	48.9	62.8	27.1	50.2	19.3	35.8	285	160	365

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

**Solid Brickwork**

**Performance Data (20 N/mm<sup>2</sup>)**

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



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## Solid Concrete Blocks

Performance Data (7 N/mm<sup>2</sup>)

Thread Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque
	mm	kN	kN	kN	kN	kN	mm	mm	mm	Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
<b>6</b>	3.8	2.1	1.6	1.4	1.1	1	55	55	65	5
<b>8</b>	6.7	4.4	3.2	2.9	2.3	2	105	80	90	12
<b>10</b>	10.7	6.7	4.4	4.4	3.1	3.1	180	95	120	22
<b>12</b>	12.4	8	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**