PRODUCT DATA

Internal Threaded Stud Anchor Z/P

The **Internal Threaded Stud Anchor (Zinc)** is a single unit non-expansion fastener that is used in pre-drilled holes into a selected/ specified resin. It comprises of a chisel/bevelled tip and metric internal threads. The internal threads allow the use of conventional metric fasteners (bolts/threaded rods).

Fixing of the stud is achieved by inserting a suitable curing resin into the hole using a glass chemical capsule or injection adhesive system. The stud is then inserted into the hole and rotated to allow for proper setting into the resin.

CONXTRUCT®

Top view

Material	CS Carbon Steel
Finish	Z/P Zinc Plated (RoHS Compliant)

Applications

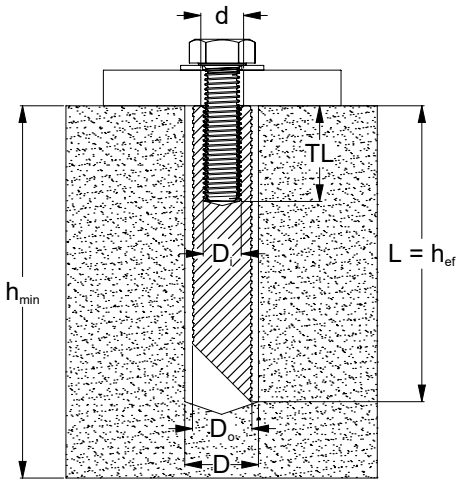
- Fixing to concrete of masonry substrates
- Temporary fixings/ removable applications
- Applications that require non-expansion type fasteners
- Applications that require closer edge distance and spacing

Features:

- Flush setting
- Non-expanding anchor
- No expansion forces on the concrete
- Eliminates risk of concrete blow out
- Can be installed close to edge
- Reduced spacing between anchors

Installation Specifications

Anchor		M8	M10	M12	M16	M20
Outer Ø	D_o (mm)	12	16	20	25	30
Inner Ø	D_i (mm)	8	10	12	16	20
Nominal Hole Ø	D (mm)	14	18	22	28	34
Fixture Clearance Ø	d (mm)	10	12	14	18	24
Brush size Ø	(mm)	16	20	26	30	36
Stud length	L (mm)	90	90	90/125	125	180
Min. depth of base material	h_{min} (mm)	120	120	130/165	175	240
Min. spacing	s_{min} (mm)	60	80	100	125	150
Min. edge distance	c_{min} (mm)					



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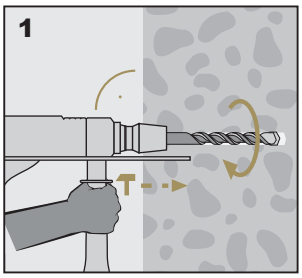

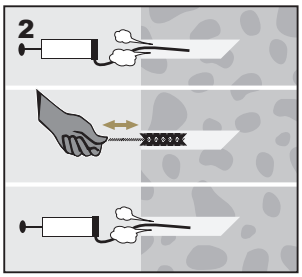

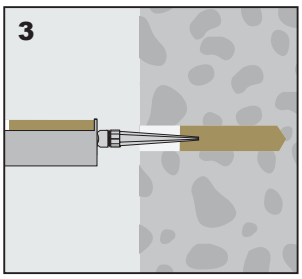

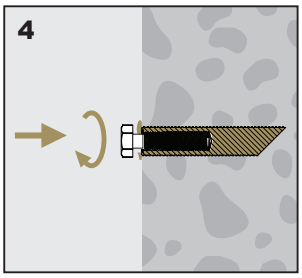

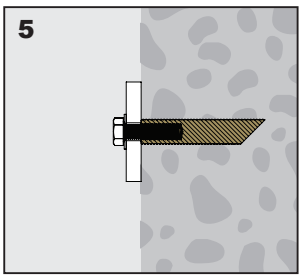

Installation guide

1. Drill a hole of suitable diameter and anchorage depth for the anchor being installed. See table above for hole diameter and effective embedment depth. Note: Diamond drill bit not to be used where indicated by the manufacturer.

2. Clean the hole of dust and debris following chemical manufacturers instructions. As a minimum follow the AEFAC (The Australian Engineered Fasteners and Anchors Council) certified installer method:

   i. From the bottom of the hole, use a hand pump (maximum Ø 20 mm hole) or compressed air (6 bar minimum) to clean dust and debris. Repeat x 3.

   ii. Using the correct wire brush (brush Ø ≥ hole Ø), clean the hole from the bottom using a rotating motion as you pull out of the hole. Repeat x 3.

   iii. From the bottom of the hole, use a hand pump (maximum Ø 20 mm hole) or compressed air (6 bar minimum) to clean dust and debris. Repeat x 3.

3. Prepare chemical (polyester, vinylester, epoxy, etc) - Follow the appropriate installation guide from the chemical manufacturer. Start filling from the bottom of the hole, withdrawing the nozzle slowly to avoid air pockets. 2/3 of the hole should be filled with chemical as a minimum.
4. With the bolt inserted, push the anchor into the hole, as the anchor is being inserted, rotate slowly to ensure even distribution of chemical. Note: Following insertion, anchor should be set at the bottom of the hole with excess chemical visible at the top of the hole. Clean the excess chemical.
5. Follow chemical manufacturers instructions for curing time before applying any load. Do not disturb the anchor during curing process. Once chemical is fully cured, the fixture can be installed and secured.

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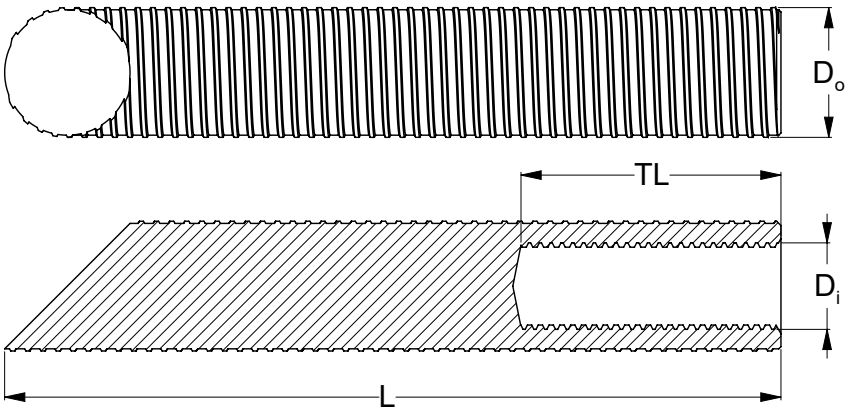

Part Number	Description	Stud Property Class	Coating Specification	Length	Internal Thread Length	Internal Thread	Inner Diameter	Outer Diameter	Stud Tensile Strength
				L (mm)	TL (mm)		D_i (mm)	D_o (mm)	(MPa)
MCIMSZDM080090	Z/P Internal Threaded Stud Anchor	Class 5.8 AS4291.1	AS1789	90	30	M8x1.25	8	12	520
MCIMSZDM100090				90	35	M10x1.50	10	16	
MCIMSZDM120090				90	40	M12x1.75	12	20	
MCIMSZDM120125				125	40	M12x1.75	12	20	
MCIMSZDM160125				125	40	M16x2.00	16	25	
MCIMSZDM200180				180	60	M20x2.50	20	30	