

Fix Z Stud Anchors for Cracked and Non-cracked Concrete



Fix Z Stud Anchors for cracked concrete

A true to size, torque controlled expansion anchor with “pull down” capabilities for permanent anchoring into cracked and non-cracked concrete.

Product Advantages

- 3 legs clip for a better expansion
- 6 lugs for a better fixing in concrete
- High quality stainless steel A4 expansion clips
- Improved efficiency with lesser hammer blows and turns for installation
- “Pull down” capabilities for secure fixings
- Fire resistance tested

Substrates

- Concrete (cracked and non-cracked)
- Solid block

Specification

Fix Z is a specialized, heavy duty, torque setting expansion anchor for cracked concrete, especially for fixtures located at tension zones.

Approvals

HDB Prefabrication
Technology Centre tested



ETA Option
no 99/0002

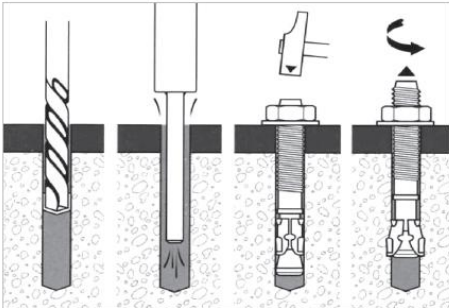


Typical Applications



- Structural beams and columns
- Load bearing zones
- Cable trays
- Overhead piping
- Air condition ducts
- Securing of machines and equipment
- Tie back brackets for façade

Installation



1. Drill the correct diameter hole to the same diameter as the FIX Z stud anchor selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Install the anchor in the hole with a hammer until washer seats on fixture.
4. Tighten bolt with a torque wrench to recommended assembly torque.

HEAVY DUTY ANCHORS

Fix Z Stud Anchors - Zinc Plated with Stainless Steel A4 Clip - Standard Washer



Part No.	Description	Thread Ø	Max Fixture Thickness (mm)*	Overall Anchor Length (mm)	Anchor / Hole Ø (mm)	Min Hole Depth (mm)*	Order Qty
7C-FXZ0-8070	M8x70/9	M8	9	70	8	65	100
7C-FXZ0-8090	M8x90/29	M8	29	90	8	65	50
7C-FXZ0-8110	M8x110/49	M8	49	110	8	65	50
7C-FXZ1-0085	M10x85/9	M10	9	85	10	80	50
7C-FXZ1-0095	M10x95/20	M10	20	95	10	80	50
7C-FXZ1-0140	M10x140/64	M10	64	140	10	80	25
7C-FXZ1-2100	M12x100/8	M12	8	100	12	95	20
7C-FXZ1-2115	M12x115/23	M12	23	115	12	95	25
7C-FXZ1-2140	M12x140/48	M12	48	140	12	95	25
7C-FXZ1-2180	M12x180/88	M12	88	180	12	95	25
7C-FXZ1-2220	M12x220/128	M12	128	220	12	95	25
7C-FXZ1-6135	M16x135/22	M16	22	135	16	115	10
7C-FXZ1-6170	M16x170/57	M16	57	170	16	115	10
7C-FXZ1-6210	M16x210/97	M16	97	210	16	115	10

* Data based on minimum anchor depth

Fix Z - Zinc Plated with Stainless Steel A4 Clip - Indicative Design Loads in Concrete

Thread Ø	Anchor Depth (mm)	Torque (Nm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
M8	46	20	140	75	8.5	5.1
M10	58	35	175	90	20.4	6.1
M12	68	50	205	125	27.6	8.7
M16	82	100	245	125	44.1	21.1

Indicative design load (kN) in 30N/mm² non-cracked concrete
 * Refer to Ramset Design Guide for more information or explanation of technical data

Fix Z Stud Anchors - Stainless Steel A4



Part No.	Description	Thread Ø	Max Fixture Thickness (mm)*	Overall Anchor Length (mm)	Anchor / Hole Ø (mm)	Min Hole Depth (mm)*	Order Qty
7D-FIXZ-0855-SS	M8x55/5 A4	M8	5	55	8	52	100
7D-FIXZ-0870-SS	M8x70/20 A4	M8	20	70	8	52	100
7D-FIXZ-0890-SS	M8x90/40 A4	M8	40	90	8	52	100
7D-FIXZ-0813-OS	M8x130/80 A4	M8	80	130	8	52	50
7D-FIXZ-1065-SS	M10x65/5 A4	M10	5	65	10	62	50
7D-FIXZ-1075-SS	M10x75/15 A4	M10	15	75	10	62	50
7D-FIXZ-1095-SS	M10x95/35 A4	M10	35	95	10	62	50
7D-FIXZ-1012-OS	M10x120/60 A4	M10	60	120	10	62	25
7D-FIXZ-1280-SS	M12x80/5 A4	M12	5	80	12	75	25
7D-FIXZ-1210-OS	M12x100/25 A4	M12	25	100	12	75	25
7D-FIXZ-1211-5S	M12x115/40 A4	M12	40	115	12	75	25
7D-FIXZ-1214-OS	M12x140/65 A4	M12	65	140	12	75	25
7D-FIXZ-1612-5S	M16x125/30 A4	M16	30	125	16	95	25
7D-FIXZ-1615-OS	M16x150/55 A4	M16	55	150	16	95	10
7D-FIXZ-1617-OS	M16x170/75 A4	M16	75	170	16	95	10

* Data based on minimum anchor depth

Fix Z - Stainless Steel A4 - Indicative Design Loads in Concrete

Thread Ø	Anchor Depth (mm)	Torque (Nm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
M8	48	20	145	72	12.7	12.6
M10	58	35	175	90	18.3	14.1
M12	70	50	210	105	26.5	18.4
M16	86	100	258	130	31.4	32.3

Indicative design load (kN) in 30N/mm² non-cracked concrete

* Refer to Ramset Design Guide for more information or explanation of technical data