

Approvals	
 European Technical Agreement ETA Option 7 no.13/0005	
Performance Related	Material Specification
 Dynamic Load	 Zinc Plated
 Pull down	
 Fire Resistant	

Description

The Fix 3™ Stud Anchor is a true-to-size, heavy duty, multi purpose expansion anchor, for permanent anchoring into concrete. Designed for heavy duty anchoring in non cracked concrete where reduced edge distance and anchor spacing is required. Undercut shoulder on the sleeve improves hole grip and increases load performance.

Features and Benefits

- The Fix 3™ Stud Anchor diameter equals the required hole diameter providing maximum shear capacity for hole size and making drill bit selection simple. Anchor design provides superior strength and reliability.
- The anchor design ensures maximum expansion of the sleeve and pull-down on the fixture. These actions are both further assisted by the application of load.
- The anti-rotation expansion sleeve is designed to grip the sides of the hole, preventing anchor rotation during installation.
- Use threaded couplers where rod suspension applications are required.
- Suitable for installation in concrete from 80mm thick such as pre-fabricated concrete panels.

Substrates

- Concrete

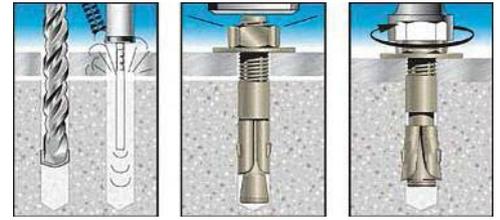
Typical Applications

- Installing curtain walls, balustrades & barriers
- Anchoring elevator guide rails
- Anchoring structural steel columns/beams
- Stadium seating & Pallet racking
- Overhead suspension & Anchoring



Installation

1. Drill a hole to the recommended diameter and depth using the fixture as a template. Clean the hole thoroughly with a hole cleaning brush. Remove the debris with a hand pump, compressed air, or vacuum.
2. Insert the anchor through the fixture and drive with a hammer until the washer contacts the fixture.
3. Tighten the nut with a torque wrench to the specified assembly torque.



Fix 3™ Zn Plated - Recommended Working Loads in 40N/mm² non-cracked Concrete

Thread Ø	Embedment Depth (mm)	Tightening Torque (Nm)	Shear Load (kN)*	Tension Load (kN)*
M8	40	15	3.3	5.4
M10	50	30	4.6	7.5
M12	65	50	9.1	11.1
M16	80	100	12.2	15.2
M20	100	160	23.7	21.3

* Safety factor for all loads = 3

* This table does not consider edge distance and anchor spacing effects. Please refer to Ramset Design Guide for more information.

* Pull out test for single anchor = working load x 1.5

Fix 3™ Stud Anchor - Hex Nut - Zinc Plated



Part No	Description	Thread Ø	Max Fixture* Thickness (mm)	Fixture Clearance Hole Ø (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Min Hole Depth (mm)	Order Qty
057450	M8x55	M8	5	9	55	8	50	100
057451	M8x70/20-10	M8	20	9	70	8	55	100
057452	M8x90/40-30	M8	40	9	90	8	55	50
057455	M8x130/80-70	M8	80	9	130	8	55	50
057461	M10x75/15-5	M10	15	12	75	10	65	50
057463	M10x95/36-26	M10	36	12	95	10	65	50
057465	M10x125/65-55	M10	65	12	125	10	65	25
057467	M10x160/100-90	M10	100	12	160	10	65	25
057470	M12x80/5	M12	5	14	80	12	80	25
057471	M12x100/25-10	M12	25	14	100	12	80	25
057472	M12x115/40-25	M12	40	14	115	12	80	25
057474	M12x140/65-50	M12	65	14	140	12	80	25
057476	M12x180/105-90	M12	105	14	180	12	80	25
057480	M16x100/5	M16	5	18	100	16	100	20
057481	M16x125/30-15	M16	30	18	125	16	100	20
057482	M16x150/55-40	M16	55	18	150	16	100	10
057483	M16x170/75-60	M16	75	18	170	16	100	10
057484	M16x185/90-75	M16	90	18	185	16	100	10
057490	M20x125/10	M20	10	22	125	20	125	10
057491	M20x165/50-25	M20	50	22	165	20	125	10
057492	M20x220/105-80	M20	105	22	220	20	125	10

* Data based on minimum anchor depth

For hot-dip galvanized stud anchor, please consult Technical Department for anchor proposal.