

## Description

The TruBolt™ Stud Anchor is a true-to-size, heavy duty, torque controlled expansion anchor, for permanent anchoring into concrete.

## Specification

<b>Material - Bolt</b>	Carbon Steel, Stainless Steel 316 (A4)
<b>Corrosion Protection</b>	Zinc Plating, Hot Dipped Galvanising
<b>Head Styles</b>	Hex Nut
<b>Fixing Method</b>	Through Fixture
<b>Setting Method</b>	Torque Controlled
<b>Anchoring Method</b>	Expansion
<b>Thread Diameters</b>	M6, M8, M10, M12, M16, M20
<b>Drilled Hole Diameters</b>	6mm, 8mm, 10mm, 12mm, 16mm, 20mm
<b>Anchor Lengths</b>	55mm, 65mm, 75mm, 80mm, 85mm, 90mm, 100mm, 120mm, 125mm, 140mm, 150mm, 160mm, 175mm, 180mm, 215mm
<b>Maximum Fixture Thickness*</b>	6mm, 8mm, 10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 65mm, 70mm, 80mm, 90mm, 100mm
<b>Indicative Working Loads in 32MPa Concrete*</b>	Max Tensile 3.4kN - 32.5kN Max Shear 2.8kN - 27.3kN
<b>Substrates</b>	Concrete

\* Refer to load table

## Related Products

DynaDrill™  
Carbide Drill Bits  
Diamond Motor  
Diamond Core Drill Bits  
Hole Cleaning Brush

Hole Cleaning Pump  
Wet and Dry Vacuum



## Features & Benefits

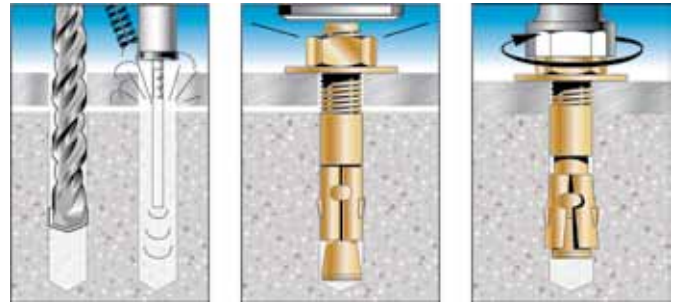
- The TruBolt™ diameter equals the required hole diameter providing maximum shear capacity for hole size and making drill bit selection simple. Its cold forged construction ensures superior strength and reliability.
- The anchor design ensures maximum expansion of the sleeve and pull-down on the fixture. 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.

## Trades & Applications

	Steel Fabricator	Elevator Installer	Construction Contractor	Seating Contractor	Racking Installer
Installing handrails, balustrades & safety barriers	✓				
Anchoring elevator guide rails		✓	✓		
Anchoring structural steel columns/beams	✓				
Stadium seating				✓	
Pallet racking					✓

## Installation

1. Drill or core a hole to the recommended diameter (same as the TruBolt™) 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.



**Heavy Duty Anchors**



## TruBolt™ Stud Anchors - Hex Nut - Zinc Plated

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length	Order Qty
T06055	M6	15	55	6	8	55	38	100
T06085	M6	45	85	6	8	75	68	100
T06120	M6	80	120	6	8	75	103	50
T06150	M6	110	150	6	8	75	133	100
T06180	M6	140	180	6	8	75	163	100
T08065	M8	12	65	8	10	65	45	50
T08090	M8	40	90	8	10	75	70	50
T10075	M10	12	75	10	12	80	52	50
T10090	M10	30	90	10	12	90	67	50
T10120	M10	50	120	10	12	100	97	20
T12080	M12	6	80	12	15	90	58	20
T12100	M12	25	100	12	15	105	71	20
T12120	M12	45	120	12	15	105	93	20
T12140	M12	65	140	12	15	105	111	20
T12180	M12	100	180	12	15	125	151	20
T16100	M16	8	100	16	19	115	67	20
T16125	M16	20	125	16	19	135	85	20
T16150	M16	45	150	16	19	145	110	20
T16175	M16	70	175	16	19	145	135	20
T20120	M20	10	120	20	24	140	85	10
T20160	M20	35	160	20	24	170	115	10
T20215	M20	90	215	20	24	200	170	10



## TruBolt™ Stud Anchors - Hex Nut - Hot Dipped Galvanised

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length	Order Qty
T08090GH	M8	40	90	8	10	75	70	50
T10090GH	M10	30	90	10	12	90	67	50
T12080GH	M12	6	80	12	15	90	58	20
T12100GH	M12	25	100	12	15	105	71	20
T12140GH	M12	65	140	12	15	105	111	20
T12180GH	M12	100	180	12	15	125	151	20
T16100GH	M16	8	100	16	19	115	67	20
T16125GH	M16	20	125	16	19	135	85	20
T16150GH	M16	45	150	16	19	145	110	20
T16175GH	M16	70	175	16	19	145	135	20
T20120GH	M20	10	120	20	24	140	85	10
T20160GH	M20	35	160	20	24	170	115	10
T20215GH	M20	90	215	20	24	200	170	10



## TruBolt™ Stud Anchors - Hex Nut - Stainless Steel Grade AISI 316 (A4)

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length	Order Qty
T06055SS	M6	15	55	6	8	55	38	100
T06085SS	M6	45	85	6	8	75	68	100
T08065SS	M8	12	65	8	10	65	45	100
T08090SS	M8	40	90	8	10	75	70	50
T10075SS	M10	12	75	10	12	80	52	50
T10090SS	M10	30	90	10	12	90	67	50
T12080SS	M12	6	80	12	15	90	58	20
T12100SS	M12	25	100	12	15	105	71	20
T12140SS	M12	65	140	12	15	105	111	20
T16100SS	M16	8	100	16	19	115	67	20
T16125SS	M16	20	125	16	19	135	85	20
T16150SS	M16	45	150	16	19	145	110	20
T16175SS	M16	70	175	16	19	145	135	20
T20120SS	M20	10	120	20	24	140	85	10
T20160SS	M20	35	160	20	24	170	115	10

## TruBolt™ Stud Anchors - Indicative Working Loads in 32MPa Concrete

Thread Size	Embedment Depth (mm)	Tightening Torque (Nm)	Min Edge Distance (mm)	Min Anchor Spacing (mm)	Max Tensile Load, N <sub>a</sub> (kN)*	Max Shear Load, V <sub>a</sub> (kN)*
M6	32	10	50	100	3.4	2.8
M8	54	20	80	160	7.2	4.9
M10	72	35	110	220	9.9	6.8
M12	86	50	130	260	12.7	8.6
M16	115	155	170	340	20.9	14.4
M20	145	355	220	440	32.5	27.3

\*The design engineer should ensure the structural element is capable of supporting these loads. Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data.