



ITS-Z / ITS-S INTERNALLY THREADED CHEM STUDS

ZINC PLATED / 316 STAINLESS STEEL

ITS-Z and ITS-S studs are internally threaded chem studs to be used with matching bolts and or metric threaded rod. They are ideal when expansion anchors and or screw anchors cannot be selected and the fixing point must remain flush. Internally threaded studs use a metric thread pitch and are can be installed where the fixture or equipment is only temporary ie; seating or balustrade railings.

An appropriate chemical adhesive must be selected for the application—zinc plated and stainless studs can be used with epoxy, vinylester or polyester injection systems. As they are a bonded anchor they are resistant to vibration making them ideal for holding down machinery.

Key Features

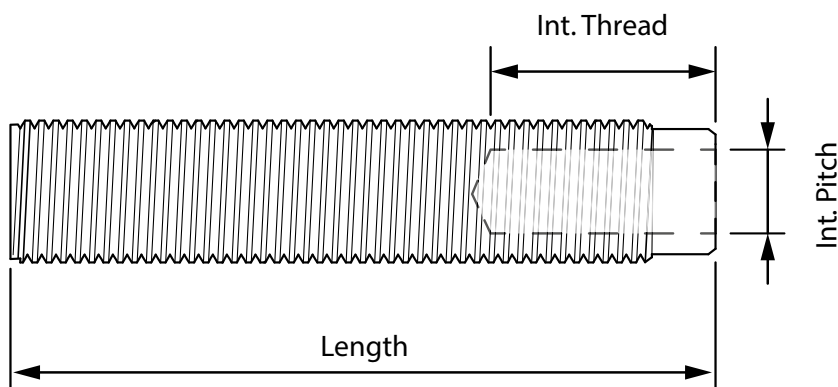
- 5.8 high grade zinc plated carbon steel for internal use or away from coastal areas
- 316 (A4) stainless steel for use in high corrosive environments
- Rolled external surface (false thread) provides an increased surface area for chemical adhesive to bond too
- Internally threaded for permanent or temporary fixing

Uses

- In cracked and un-cracked concrete
- In hollow block masonry (M8 and M10) with use of a sleeve
- Ideal for securing equipment, machinery, steel channel or track
- For creating temporary fixing points using metric bolts



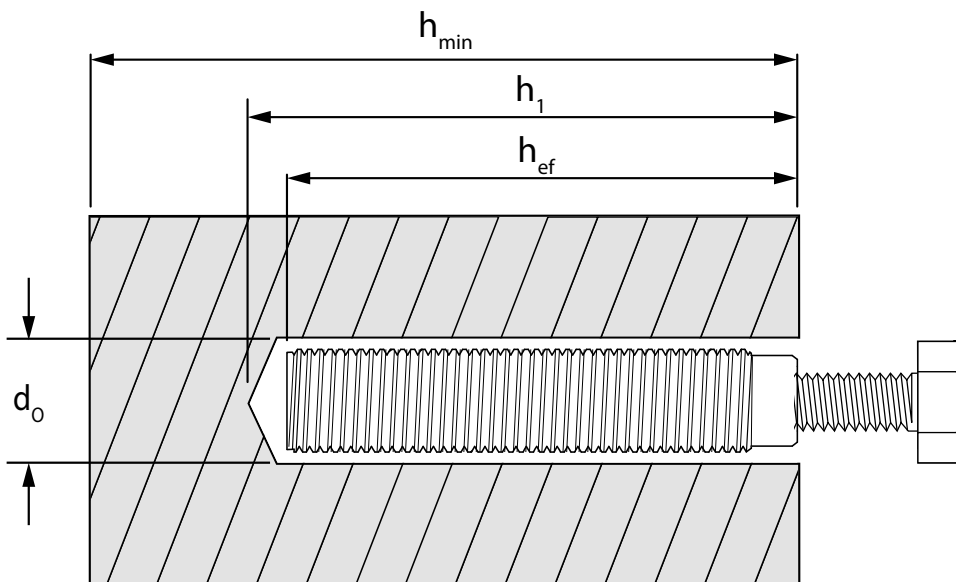
PROPERTIES



Int Pitch x Length	SKU		Int Thread Length Max.	Outer Stud Dia.	Drill Dia.	Drill Depth	
	5.8 gr ZINC PLATED	316 STAINLESS					
M8 x 80mm	1ITSZ08080	1ITSS08080	20mm	12mm	14mm	80mm	
M10 x 100mm	1ITSZ10100	1ITSS10100	25mm	16mm	18mm	100mm	10
M12 x 125mm	1ITSZ12125	1ITSS12125	30mm	20mm	22mm	130mm	
M16 x 170mm	1ITSZ16170	1ITSS16170	35mm	24mm	28mm	175mm	5

INSTALLATION

		M8	M10	M12	M16
Effective Depth	h_{ef} [mm]	80	100	125	170
Base Material Depth	h_{min} [mm]	140	160	180	260
Drill Hole Diameter	d_o [mm]	14	18	22	28
Depth of Drill Hole	h_1 [mm]	80	100	130	175
Installation Torque	T_{inst} [Nm]	10	20	40	80
SDS Drill Bit	SKU	8DX3E-14-350	8DX3E-18-350	8D-X-22-320	8D-X-28-370
Wire Brush	SKU	12BR-7015	12BR-7016	12BR-7017	12BR-7017
Hole Clearing Pump	SKU	12BPUMP			



TIP: preinstall a short bolt prior to inserting stud and remove once adhesive is cured

1. Drill hole to the correct size and depth for the selected stud
2. Brush and blow the hole clear of dust and debris
3. Follow steps for injection of chemical anchor adhesive
4. Insert stud by hand, rotating so adhesive is evenly spread around stud and stud is properly seated flush with the surface. **Be-careful not to allow chemical adhesive to come into contact with internal threads**
5. Do not load studs until the required curing time is achieved

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