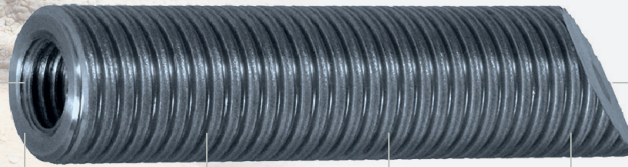




## CIS Threaded Insert Anchors



Insert design allows use of various bolt head styles.

Flush finish.

Available M8 - M20 in Class 5.8 zinc & 316 (A4) SS.

Anchor profile performs like threaded rod.

Recommended for use with BIS-HY GEN2 & BIS-PE GEN3 ETA certified Adhesives.

Anti Rotation cut tip.



**ICCONS® CIS Threaded Insert Anchor is installed using an adhesive. When set, produces a removable and/or flush setting adhesive anchor, the CIS is available in Both Carbon Steel or 316(A4-70) Stainless Steel.**

### Features:

- Included in ICCONS DesignFix software.
- Adhesive Anchor for Flush Anchoring in Cracked or Non-Cracked Concrete.
- For Installation in Dry or Flooded Holes.
- Anchor Range: M8 up to M20.
- Zinc Clear Carbon Steel or 316 Stainless Steel.

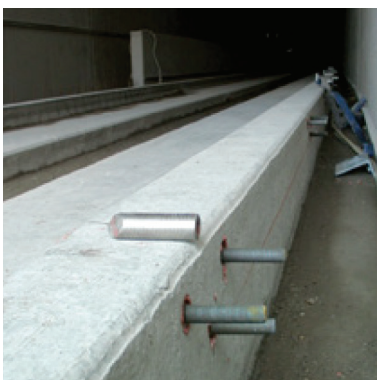
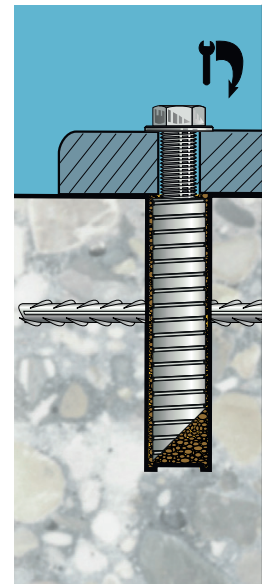
### Usability

- Cracked & Non-Cracked Concrete
- Under Static Load
- Under Vibratory Load
- Fire Resistance

### Typical Applications

- Infrastructure Construction where Flush Anchoring is selected
- Production Facilities (Crane, Robot, Conveyor Installation) etc.
- Bridges & Highways
- Balustrade & Removable Bollards

### ICCONS DesignFix Software



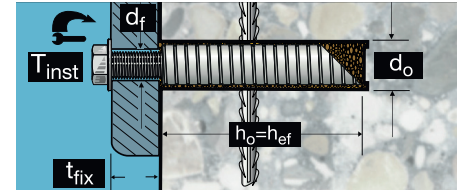
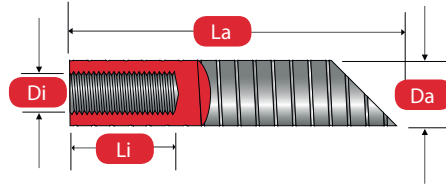
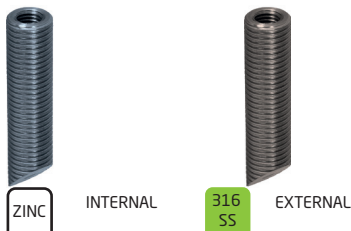
# CIS Threaded Inserts



**ICCONS®**  
Serious Connections

## Technical Information

TDS | 2009.6



Part No.	Description	Drill Diameter (mm)	Da	La	Di	Li	qty
		mm	metric	mm	mm	mm	
<b>CIS08090</b>	M8 X 90mm	14	12	90	M8	30	50
<b>CIS08090SS</b>	M8 X 90mm Stainless Steel						5
<b>CIS10090</b>	M10 X 90mm	18	16	90	M10	35	30
<b>CIS10090SS</b>	M10 X 90mm Stainless Steel						5
<b>CIS12090</b>	M12 X 90mm	22	20	90	M12	40	25
<b>CIS12090SS</b>	M12 X 90mm Stainless Steel						5
<b>CIS12125</b>	M12 X 125mm						15
<b>CIS12125SS</b>	M12 X 125mm Stainless Steel	22	20	125	M12	40	5
<b>CIS16125</b>	M16 X 125mm	28	24	125	M16	40	10
<b>CIS16125SS</b>	M16 X 125mm Stainless Steel						5
<b>CIS20180</b>	M20 X 180mm	35	30	180	M20	60	5
<b>CIS20180SS</b>	M20 X 180mm Stainless Steel						5

### Performance in Concrete



#### BIS-HY GEN2 HYBRID

##### TENSION

##### SHEAR

Di	Da	do	ho	df	Design Capacity N <sub>rd</sub> (kN)			Design Capacity V <sub>rd</sub> (kN)
					20MPa	32MPa	40MPa	
M8	12	14	90	10	11.33	11.33	11.33	7.2
M10	16	18	90	12	19.33	19.33	19.33	12.0
M12	20	22	90	14	28.00*	28.00	28.00	16.8
M12	20	22	125	14	28.00	28.00	28.00	16.8
M16	24	28	125	18	45.83*	50.67	50.67	30.4
M20	30	35	180	22	79.20*	82.00	82.00	48.8



#### BIS-PE GEN3 Pure Epoxy

##### TENSION

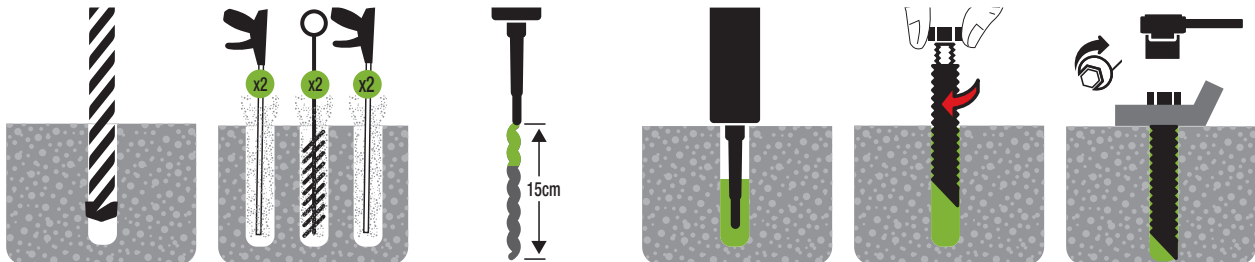
##### SHEAR

Di	Da	do	ho	df	Design Capacity N <sub>rd</sub> (kN)			Design Capacity V <sub>rd</sub> (kN)
					20MPa	32MPa	40MPa	
M8	12	14	90	10	11.33	11.33	11.33	7.2
M10	16	18	90	12	19.33	19.33	19.33	12.0
M12	20	22	90	14	28.00*	28.00	28.00	16.8
M12	20	22	125	14	28.00	28.00	28.00	16.8
M16	24	28	125	18	45.83*	50.67	50.67	30.4
M20	30	35	180	22	79.20*	82.00	82.00	48.8

Values with "\*" are governed by concrete failure.

**Note:** Load Performance has been determined in accordance with AS 5216 and relevant ETA-16/0958 & ETA-19/0850. All loads are representative of a single anchor (Steel Grade 5.8 bolt insert) installed in a hammer drilled, dry/wet hole remote from an edge in non-cracked concrete with ST /LT temperature +80°C / +50°C (BIS-HY GEN2) & ST /LT temperature +40°C / +24°C (BIS-PE GEN3). ICCONS® has taken extreme care in compiling the above information, ICCONS® may change its products at any time. ICCONS® believes the information is true and correct as at the date of the publication. Higher capacities may be achieved with the use of class 8.8 bolt for more details contact [engineering@iccons.com.au](mailto:engineering@iccons.com.au)

## General Installation Guide in Solid Base Material *(Detailed installation instructions contained in ETA)*



- Hole preparation should be to correct diameter and depth.
- Clean out hole thoroughly of dust and spoil by repeat blowing and brushing action.
- Unscrew Cap and screw on mixing nozzle supplied and place in suitable applicator tool.
- For new cartridges dispense a bead of adhesive until even and consistent colour is present to ensure correct mix of adhesive
- Place nozzle to the rear of the hole and pump adhesive whilst slowly withdrawing the nozzle back, avoid creating air pockets and fill the hole at least half full.
- With a bolt inserted, Push the Insert into the adhesive while turning one way slowly until correct embedment depth is reached and some adhesive has flowed to the hole. Always ensure that inserts are clean and free from oil, grease and dirt.
- Once installed, do not touch or load the anchor until the adhesive is fully cured. (See appropriate adhesive label for curing times).
- When cured tighten bolt to the correct torque.