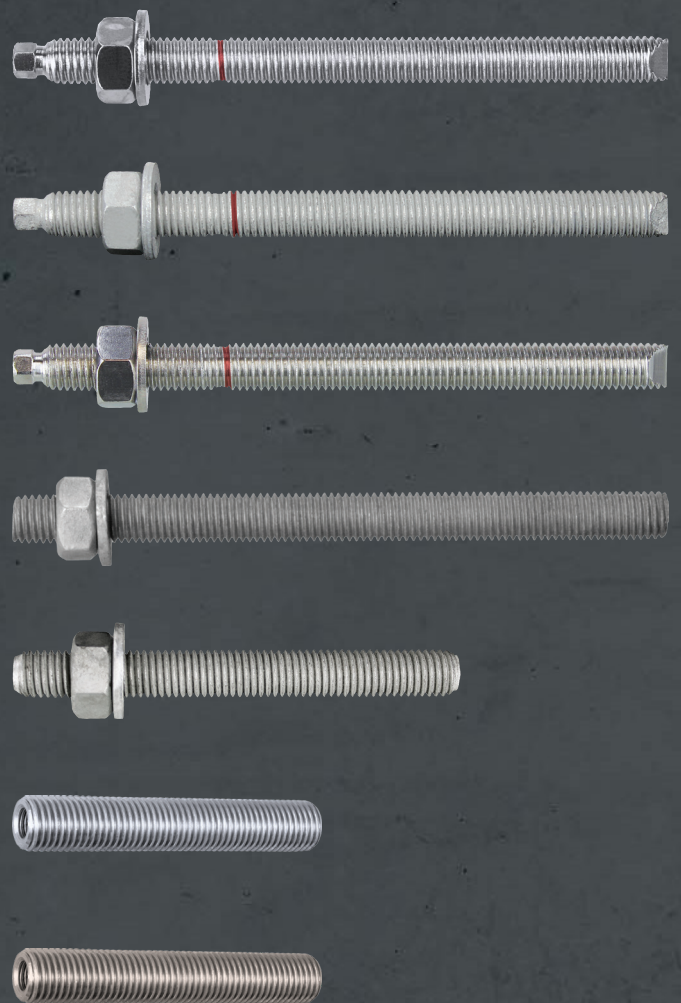


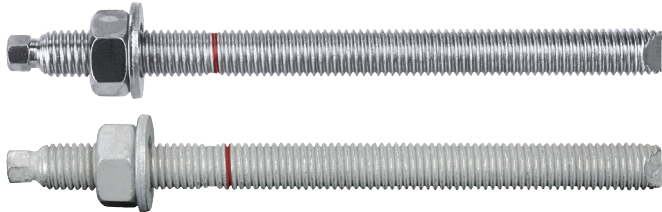
# TDS | 2036.2

## THREADED STUDS





## CPS THREADED STUDS



Class 5.8 Carbon Steel Zinc Clear

Class 5.8 Carbon Steel Galvanised

### MATERIAL SPECIFICATIONS

- Threaded Stud Property: Class 5.8 (EN ISO 898-1:2013)
- Hexagonal Nut: Grade 5 (EN ISO 898-2:2012)
- Washer: Acc. To EN ISO 887:2006

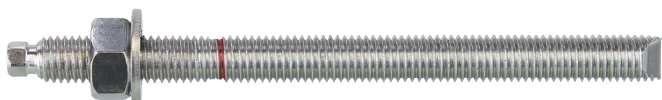
### COATING SPECIFICATIONS

- Zinc electroplated  $\geq 5\mu\text{m}$  (EN ISO 4042:2018)
- Hot-dip galvanised  $\geq 45\mu\text{m}$  (EN ISO 1461:2009 / EN ISO 10684:2004+AC2009)

Stud Size	Stud Length (mm)	Standard Embedment Depth $h_e$ (mm)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength UTS, $f_u$ (N/mm <sup>2</sup> )	Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
M8	110	80	36.6	500	400	18 (17)
M10	130	90	58.0	500	400	29 (27)
M12	160	110	84.3	500	400	42.0
M16	190	125	157.0	500	400	78.0
M20	260	170	245.0	500	400	122.0
M24	300	210	353.0	500	400	176.0

Note: Values in brackets for galvanised studs only

## CPS THREADED STUDS



Stainless Steel 316 A4 - 70

### MATERIAL SPECIFICATIONS

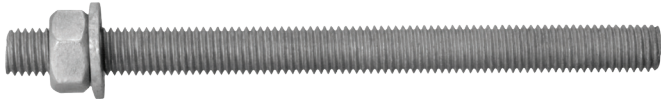
- Threaded Stud Property: Class A4-70 (EN ISO 3506-1:2020)
- Hexagonal Nut: Class A4-70 (EN ISO 3506-1:2020)
- Washer: Acc. To EN ISO 887:2006

Stud Size	Stud Length (mm)	Standard Embedment Depth $h_e$ (mm)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength UTS, $f_u$ (N/mm <sup>2</sup> )	Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
M8	110	80	36.6	700	450	26.0
M10	130	90	58.0	700	450	41.0
M12	160	110	84.3	700	450	59.0
M16	190	125	157.0	700	450	110.0
M20	260	170	245.0	700	450	171.0
M24	300	210	353.0	700	450	247.0

ICCONS Threaded Studs and Inserts are designed for use with ICCONS adhesive range in accordance with published ETA specifications. For further details refer to the individual product ETA.



## CFCHT HIGH TENSILE



■ Class 8.8 Carbon Steel HDG Galvanised

### MATERIAL SPECIFICATIONS

- Threaded Stud Property: Class 8.8 (EN ISO 898-1:2013)
- Hexagonal Nut: Grade 8 (EN ISO 898-2:2012)
- Washer: Acc. To EN ISO 887:2006

### COATING SPECIFICATIONS

- Hot-dip galvanised  $\geq 45\mu\text{m}$   
(EN ISO 1461:2009 / EN ISO 10684:2004+AC2009)

Stud Size	Stud Length (mm)	Standard Embedment Depth $h_e$ (mm)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength		Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
				UTS, $f_u$ (N/mm <sup>2</sup> )			
M12	160	110	84.3	800		640	67
	220	110	84.3	800		640	67
	300	110	84.3	800		640	67
M16	190	125	157	800		640	125
	300	125	157	800		640	125
	380	125	157	800		640	125
M20	180	125	245	800		640	196
	260	170	245	800		640	196
	350	170	245	800		640	196
	400	170	245	800		640	196
M24	300	210	353	800		640	282

## CRE REDUCED EMBEDMENT STUDS



■ Class 5.8 Carbon Steel HDG Galvanised

### MATERIAL SPECIFICATIONS

- Threaded Stud Property: Class 5.8 (EN ISO 898-1:2013)
- Hexagonal Nut: Grade 5 (EN ISO 898-2:2012)
- Washer: Acc. To EN ISO 887:2006

### COATING SPECIFICATIONS

- Hot-dip galvanised  $\geq 45\mu\text{m}$   
(EN ISO 1461:2009 / EN ISO 10684:2004+AC2009)

Stud Size	Stud Length (mm)	Embedment Depth $h_e$ (mm)	Fixture Thickness (mm)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength		Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
					UTS, $f_u$ (N/mm <sup>2</sup> )			
M10	110	70	28	58	500		400	27
M12	110	70	26	84.3	500		400	42
M16	125	80	27	157	500		400	78

ICCONS Threaded Studs and Inserts are designed for use with ICCONS adhesive range in accordance with published ETA specifications. For further details refer to the individual product ETA.

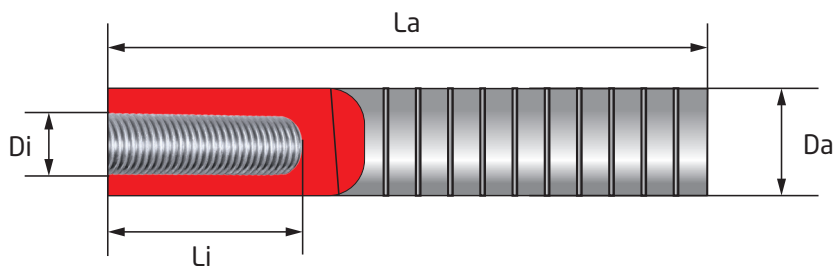


## CIS THREADED INSERTS



□ Class 5.8 Carbon Steel Zinc Clear

■ Stainless Steel 316 A4 - 70



Class 5.8 Carbon Steel Zinc Clear Part No.	Stainless Steel 316 A4 - 70 Part No.	Description	Drill Diameter (mm)	Da (mm)	La (mm)	Di (metric)	Li (mm)	qty.
CIS08090		M8 X 90mm	14	12	90	M8	30	50
	CIS08090SS	M8 X 90mm Stainless Steel						5
CIS10090		M10 X 90mm	18	16	90	M10	35	30
	CIS10090SS	M10 X 90mm Stainless Steel						5
CIS10110		M10 X 110mm	18	16	110	M10	25	30
	CIS10110SS	M10 X 110mm Stainless Steel						5
CIS12090		M12 X 90mm	22	20	90	M12	40	25
	CIS12090SS	M12 X 90mm Stainless Steel						5
CIS12125		M12 X 125mm	22	20	125	M12	40	15
	CIS12125SS	M12 X 125mm Stainless Steel						5
CIS16125		M16 X 125mm	28	24	125	M16	40	10
	CIS16125SS	M16 X 125mm Stainless Steel						5
CIS16170		M16 X 170mm	28	24	170	M16	32	10
	CIS16170SS	M16 X 170mm Stainless Steel						5
CIS20180		M20 X 180mm	35	30	180	M20	60	5
	CIS20180SS	M20 X 180mm Stainless Steel						5
CIS20205		M20 X 205mm	35	30	205	M20	40	5
	CIS20205SS	M20 X 205mm Stainless Steel						5

ICCONS Threaded Studs and Inserts are designed for use with ICCONS adhesive range in accordance with published ETA specifications. For further details refer to the individual product ETA.



## CIS THREADED INSERTS



□ Class 5.8 Carbon Steel Zinc Clear

### MATERIAL SPECIFICATIONS

- Internal Threaded Insert Property: Class 5.8 (EN ISO 898-1:2013)

### COATING SPECIFICATIONS

- Zinc electroplated  $\geq 5\mu\text{m}$  (EN ISO 4042:2018)

Internal Metric Thread	Stud Length (mm)	Embedment Depth $h_{ef}$ (mm)	Overall Width Metric Thread (Da)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength UTS, $f_u$ (N/mm <sup>2</sup> )	Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
M8	90	90	M12	84.3	500	400	17
M10	90	90	M16	157	500	400	29
	110	110	M16	157	500	400	29
M12	90	90	M20	245	500	400	42
	125	125	M20	245	500	400	42
M16	125	125	M24	353	500	400	76
	170	170	M24	353	500	400	76
M20	180	180	M30	561	500	400	123
	205	205	M30	561	500	400	123

## CIS THREADED INSERTS



■ Stainless Steel 316 A4 - 70

### MATERIAL SPECIFICATIONS

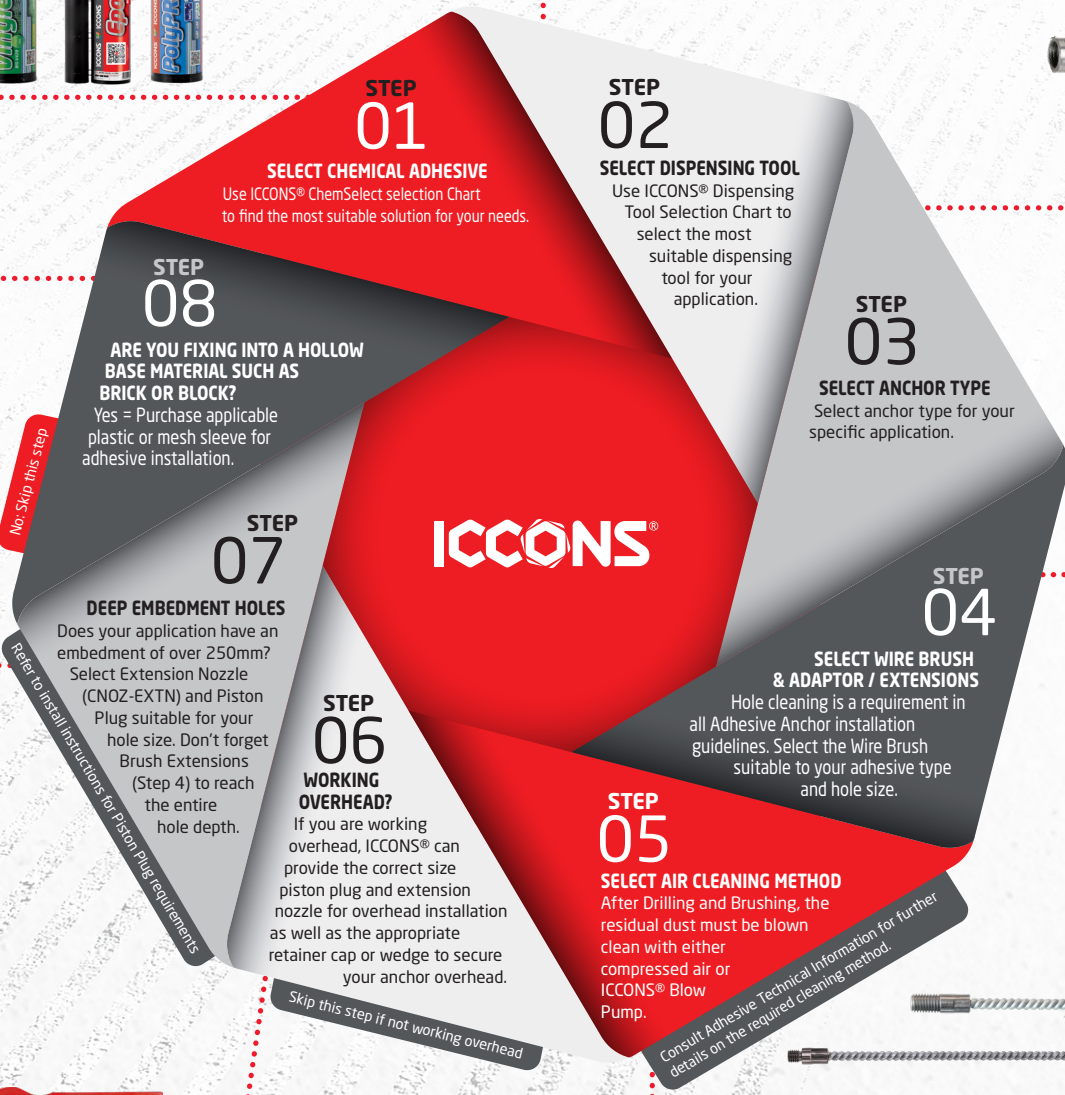
- M8-M16 Internal Threaded Inserts Property: Class A4-70 (EN ISO 3506-1:2020)
- M20 Internal Threaded Insert Property: Class A4-50 (EN ISO 3506-1:2020)

Internal Metric Thread	Stud Length (mm)	Embedment Depth $h_{ef}$ (mm)	Overall Width Metric Thread (Da)	Nominal Stress Area (mm <sup>2</sup> )	Ultimate Tensile Strength UTS, $f_u$ (N/mm <sup>2</sup> )	Yield Strength $f_y$ (N/mm <sup>2</sup> )	UTS (minimum) kN
M8	90	90	M12	84.3	700	450	26
M10	90	90	M16	157	700	450	41
	110	110	M16	157	700	450	41
M12	90	90	M20	245	700	450	59
	125	125	M20	245	700	450	59
M16	125	125	M24	353	700	450	110
	170	170	M24	353	700	450	110
M20	180	180	M30	561	500	210	124
	205	205	M30	561	500	210	124

ICCONS Threaded Studs and Inserts are designed for use with ICCONS adhesive range in accordance with published ETA specifications. For further details refer to the individual product ETA.



# Accessories Selection Checklist

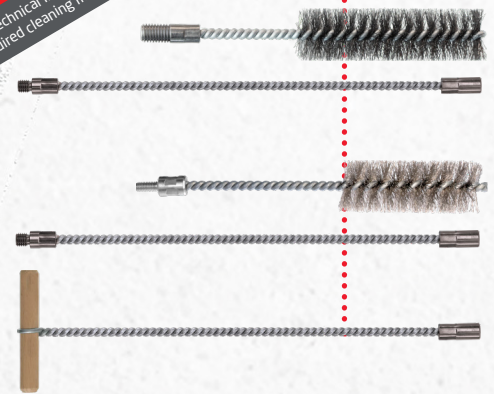


No-Skip this step

Refer to install instructions for Piston Plug requirements

Skip this step if not working overhead

Consult Adhesive Technical Information for further details on the required cleaning method.



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# AS5216 COMPLIANT NCC ANCHOR DESIGN



Design of fastenings under seismic actions



Design of redundant non-structural systems



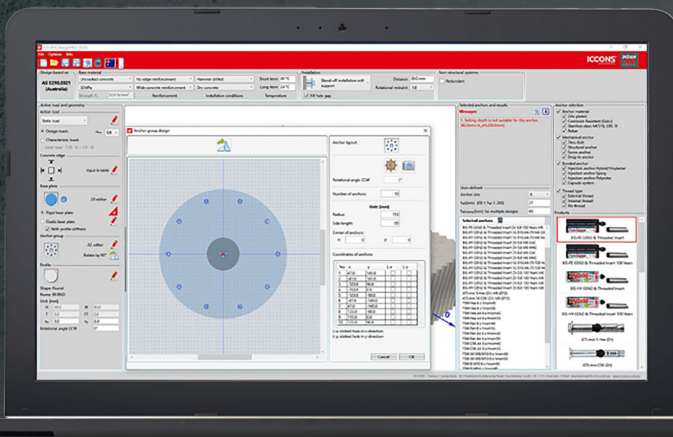
Combined loading and displacement calculations



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