Screw Technical Guide

The ICCONS® screw range is unique and innovative providing extensive solutions for steel and timber applications that can outlast the harshest Australian climate.

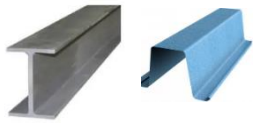
ICCONS® screws are manufactured using ISO 9001 accredited facilities and (where specified) in accordance with the requirements set out in AS3566.1-2002 (Self Drilling screws for the building and construction industries – Part 1).

ICCONS® screws are designed to suit a wide range of applications and special care should be taken to ensure that the correct screw is selected for the given application. Information published in this document is based on testing conducted in accordance with AS 3566.1-2002 and in-house testing via ICCONS testing laboratory. An appropriate safety factor should always be applied to the published ultimate loads listed in this document.

ICCONS® screw technical data should also be reviewed and approved by a design professional responsible for the given application prior to product use.

GENERAL INFORMATION - Gauge Conversion					
Gauge	6g	8g	10g	12g	14g
Dia. (mm)	3.5	4.2	4.8	5.5	6.3
Dia (inch)	9/64"	11/64"	3/16"	7/32"	1/4"

Recommended Drill Speeds	
Screw Type	**RPM**
Metal SDS	2500 rpm
Metal SDS - 5 Series	1800 rpm
Timber - Type 17	1500 rpm
Needle Point - Steel	2500 rpm
Needle Point - Timber	1000 rpm
Chipboard	1000 rpm



Ultimate load Pull out Capacities

ICCONS SDS Screws (Carbon Steel) - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Ultimate Average Pull out load Capacity in kN												Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
				0.5 mm	0.55 mm	0.48 mm	0.55 mm	0.75 mm	1.0 mm	1.2 mm	1.5 mm	1.9 mm	2.4 mm	3.0 mm	5.0 mm			
				G300	G300	G550	G550	G550	G450	G450	G450	G450	G450	G450	Steel HRS G300			
SDS - Material 1022	6-20	0.75	2.30				0.8	1.0	1.8	2.6	3.1	4.2	5.1			4.0	5.1	3.4
	8-15	0.75	2.30					1.2	1.8	2.5	3.1	4.3	5.8			6.3	9.0	5.0
	8-18	0.75	2.50					1.1	2.3	2.7	3.6	4.9	6.5			6.7	9.5	5.3
	8-18 Buttress	0.55	0.75	0.5	0.6		0.5	0.8		1.4	4.3					5.0	6.6	4.2
	10-16	0.75	3.50					1.4	2.2	2.7	3.3	3.7	4.9			9.7	11.3	6.4
	10-16 Flat head	0.75	3.00					1.4	2.2	2.7	3.3	3.7	4.9	7.5		9.7	11.3	6.4
	10-16 (IC 188 - Low profile Hex Head)	0.75	3.00					1.4	2.2	2.7	3.3	4.3	5.3			9.7	11.3	6.4
	10-16 Wing	0.75	3.50					1.4	2.2	2.7	3.3	3.7	4.9			9.7	11.3	6.4
	10-24	1.20	3.50							3.1	3.8	5.3	7.2	8.7		9.8	11.3	6.4
	10-24 Wafer Head	0.75	3.50					1.5	2.2	3.1	3.8	5.3	7.2			9.8	11.3	6.4
	12-11	0.55	1.90	0.6	0.7		1.5	2.5	2.8	3.7	4.0	5.4				15.2	15.8	9.1
	12-14	1.00	4.50						2.2	2.9	3.7	4.7	5.6	8.6		15.2	15.8	9.1
	12-24	1.20	4.50							3.5	4.2	5.7	7.7	10.7		14.6	17.1	9.0
	13-11	0.48	1.90	0.9	1.0	1.2	1.6	2.6	2.8	3.1	4.7	5.2				14.7	15.3	8.3
	14-10	1.00	5.00						2.3	2.5	3.5	4.7	6.2			19.9	19.6	11.9
	14-11 (IC 168)	0.55	1.90				1.8	2.3	3.4	4.3	5.3	7.2				19.9	19.6	11.9
	14-14	1.00	5.00						2.3	3.5	3.9	5.7	7.5			20.8	21.5	12.5
	14-20	1.20	5.00							2.8	3.7	6.0	7.2	10.8	18.9	20.8	21.5	12.5
	M6 x 18 Pancake Head	2x0.55	2x1.00	0.6	0.6		0.9	1.8	2.9	3.1						15.6	19.1	12.0

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

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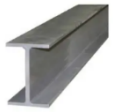

ICCONS SDS Series 5 Screws (Carbon Steel) – Load Data

Type	Gauge - TPI	Steel Min BMT in mm		Steel Max BMT in mm	Ultimate Average Pull out load Capacity in kN	Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
					6.0mm			
					Steel HRS G300			
SDS Screws (Series 5)	12-24 Series 5	3.00		12.00	17.1*	14.6	17.1	9.0
	14-20 Series 5	4.00		12.00	21.5 *	20.8	21.5	12.5

* Limited by Axial Strength of Screw

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

ICCONS Type 17 Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Ultimate Average Pull out load Capacity in kN			Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
			MGP10 (Pine)	F7 Pine	F17 Hardwood			
Type 17 - Material 1022	6-18	20	1.6		3.2	2.7	4.8	3.1
	8-15	20	1.8		3.6	4.4	9.1	5.1
	10-12	25	2.1		4.9	5.4	11.0	6.2
	12-11	30	3.1	5.7	6.1	9.4	15.5	9.1
	14-10	35	4.3		9.4	14.1	19.6	11.5
	14-10 (SS grade 302 & 316)	35	4.3		8.8	13.0	8.8	7.0

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

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ICCONS SDS Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Ultimate Average Pull out load Capacity in kN			Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
			MGP10 (Pine)	F7 Pine	F17 Hardwood			
SDS for Timber	10-16 Self Drilling (IC 188)	23	1.1	-	-	9.7	11.3	6.4
	12-11 Self Drilling (IC 160)	35	3.0	5.7	5.8	15.2	15.8	9.1
	13-11 Self drilling (IC 166)	20	1.3	-	-	14.7	15.3	8.3
	13-11 Self drilling	23	1.9	2.8	3.8	14.7	15.3	8.3
	13-11 Self drilling	35	3.5	5.8	6.0	14.7	15.3	8.3
	14-11 Self drilling (IC 168)	23	1.7	-	-	19.9	19.6	11.9

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

ICCONS Needle point Screws for Steel - Load Data

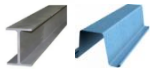
Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Ultimate Average Pull out load Capacity in kN				Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
				0.55mm	0.75mm	1.0mm	1.2mm			
				G550	G550	G550	G450			
	6-15	0.5	0.75	1.0	1.9	-	-	4.0	5.1	3.4
Needle Point to steel	6-18	0.5	0.75	1.2	1.7	-	-	4.0	5.1	3.4
	7-15	0.5	0.75	1.3	2.0	-	-	5.1	7.0	4.2
	7-16	0.5	0.75	1.3	2.0	-	-	5.1	7.0	4.2
	8-15	0.5	0.75	1.3	1.8	-	-	6.7	9.5	5.3
	10-12	0.5	0.75	1.5	2.3	-	-	8.6	11.0	6.0
	10-15	0.55	0.75	1.6	2.4	-	-	8.6	11.0	6.0
	M6 in 5mm Pre-punched hole	2x0.55	2x1.20	1.1	1.9	2.9	3.7	19.5	19.0	11.6

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

ICCONS Needle point Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Ultimate Average Pull out load Capacity in kN	Torsional Strength Nm
			MGP10 (Pine)	
Needle Point to timber MGP10	6-9 Bugle	18	1.0	2.7
	7-9 Bugle	16	0.9	3.4
		18	1.2	3.4
	8-9 Bugle	20	1.3	4.1
	10-8 Bugle	20	1.5	5.9

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.



ICCONS Bi-Metal Stainless steel SDS Screws - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Ultimate Average Pull out load Capacity in kN						Torsional Strength Nm	Axial Strength in kN	Single Shear Strength in kN
				0.75mm	1.2mm	1.5mm	2.0mm	2.4mm	10.0mm			
				G550	G450	G450	G450	G450	G300			
Fibre-Stars SDS 8-18x25mm 302 (A2) Bi-Metal SS	8-18 (IC 422)	0.75	2.5	1.0	1.7	2.3				4.2	6.6	4.2
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	8-18	0.75	2.5			1.0				4.4	4.5	4.6
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	10-16	2.0	4.0				3.7	4.9		5.1	6.0	5.3
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	12-14 (IC 390)	1.0	3.0			2.9		5.8		8.2	7.9	6.1
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	12-24 (Series 5)	6.0	12.0						9.0	8.2	9.0	6.4
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	14-14	1.5	6.0			3.1		6.0		13.0	8.8	7.0

NOTE: Ultimate average pull-out loads for above Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

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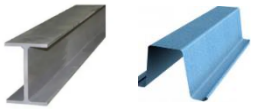

Design load Pull out Capacities

ICCONS SDS Screws (Carbon Steel) - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Design load Pull out Capacity in kN											
				0.5mm	0.55mm	0.48mm	0.55mm	0.75mm	1.0mm	1.2mm	1.5mm	1.9mm	2.4mm	3.0mm	5.0mm
				G300	G300	G550	G550	G550	G450	G450	G450	G450	G450	G450	Steel HRS G300
SDS - Material 1022	6-20	0.75	2.30				0.5	0.6	1.0	1.5	1.8	2.4	2.9		
	8-15	0.75	2.30					0.7	1.0	1.4	1.8	2.4	3.3		
	8-18	0.75	2.50					0.6	1.3	1.5	2.0	2.7	3.7		
	8-18 Buttress	0.55	0.75	0.3	0.3		0.3	0.5		0.8	2.4				
	10-16	0.75	3.50					0.8	1.2	1.5	1.9	2.1	2.8		
	10-16 Flat head	0.75	3.00					0.8	1.2	1.5	1.9	2.1	2.8	4.2	
	10-16 Wing	0.75	3.50					0.8	1.2	1.5	1.9	2.1	2.8		
	10-16 (IC 188 - Low profile Hex Head)	0.75	3.00					0.8	1.2	1.5	1.9	2.4	3.0		
	10-24	1.20	3.50							1.8	2.1	3.0	4.1	4.9	
	10-24 Wafer Head	0.75	3.50					0.8	1.3	1.8	2.1	3.0	4.1		
	12-11	0.55	1.90	0.3	0.4		0.8	1.4	1.6	2.1	2.3	3.1			
	12-14	1.00	4.50						1.2	1.6	2.1	2.7	3.2	4.9	
	12-24	1.20	4.50							2.0	2.4	3.2	4.4	6.0	
	13-11	0.48	1.90	0.5	0.6	0.7	0.9	1.5	1.6	1.8	2.7	2.9			
	14-10	1.00	5.00						1.3	1.4	1.9	2.7	3.5		
	14-11 (IC 168)	0.55	1.90				1.0	1.3	1.9	2.4	3.0	4.1			
	14-14	1.00	5.00						1.3	2.0	2.2	3.2	4.2		
	14-20	1.20	5.00							1.6	2.1	3.4	4.1	6.1	10.7
	M6 x 18 Pancake Head	2x0.55	2x1.00	0.3	0.3		0.5	1.0	1.6	1.8					

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

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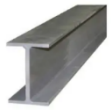

ICCONS SDS Series 5 Screws (Carbon Steel) - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Design load Pull out Capacity in kN
				6.0mm
				Steel HRS G300
SDS	12-24 Series 5	3.00	12.00	9.7
	14-20 Series 5	4.00	12.00	12.1

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

ICCONS Type 17 Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Design load Pull out Capacity in kN		
			MGP10 (Pine)	F7 Pine	F17 Hardwood
Type 17 - Material 1022	6-18	20	0.9		1.8
	8-15	20	1.0		2.0
	10-12	25	1.2		2.8
	12-11	30	1.8	3.2	3.5
	14-10	35	2.4		5.3
	14-10 (SS grade 302 & 316)	35	2.4		5.0

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

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ICCONS SDS Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Design load Pull out Capacity in kN		
			MGP10 (Pine)	F7 Pine	F17 Hardwood
SDS for Timber	10-16 Self Drilling (IC 188)	23	0.6		
	12-11 Self Drilling (IC 160)	35	1.7	3.2	3.3
	13-11 Self drilling (IC 166)	20	0.7		
	13-11 Self drilling	23	1.1	1.6	2.2
	13-11 Self drilling	35	2.0	3.3	3.4
	14-11 Self drilling (IC 168)	23	0.9		

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

ICCONS Needle point Screws for Steel - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Design Capacity Pull out load in kN			
				0.55mm	0.75mm	1.0mm	1.2mm
				G550	G550	G550	G450
Needle Point to steel	6-15	0.5	0.75	0.6	1.0		
	6-18	0.5	0.75	0.7	0.9		
	7-15	0.5	0.75	0.7	1.1		
	7-16	0.5	0.75	0.7	1.1		
	8-15	0.5	0.75	0.7	1.0		
	10-12	0.5	0.75	0.9	1.3		
	10-15	0.55	0.75	0.9	1.4		
	M6 in 5mm Pre-punched hole	2x0.55	2x1.20	0.6	1.1	1.6	2.1

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

ICCONS Needle point Screws (Carbon Steel) for Timber - Load Data

Type	Gauge - TPI	Min. Embedment (mm) in Timber	Design load Pull out Capacity in kN
			MGP10 (Pine)
Needle Point to timber MGP10	6-9 Bugle	18	0.6
	7-9 Bugle	16	0.5
		18	0.7
	8-9 Bugle	20	0.7
	10-8 Bugle	20	0.8

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).


ICCONS Bi-Metal Stainless steel SDS Screws - Load Data

Type	Gauge - TPI	Steel Min BMT in mm	Steel Max BMT in mm	Design load Pull out Capacity in kN					
				0.75mm	1.2mm	1.5mm	2.0mm	2.4mm	10.0mm
				G550	G450	G450	G450	G450	G300
Fibre-Stars SDS 8-18x25mm 302 (A2) Bi-Metal SS	8-18 (IC 422)	0.75	2.5	0.6	1.0	1.3			
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	8-18	0.75	2.5			0.6			
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	10-16	2.0	4.0				2.1	2.8	
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	12-14 (IC 390)	1.0	3.0			1.6		3.3	
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	12-24 (Series 5)	6.0	12.0						5.1
SDS A2-70 / 304 Cu Stainless Steel Bi-Metal	14-14	1.5	6.0			1.8		3.4	

NOTE: Design Capacities above have been derived using guidelines from Nash Technical Note 4 (Establishing Design Values by Testing). Data was determined using average ultimate loads (values), a coefficient of variation of 20% and having tested a minimum of 10 samples (test units).

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GUIDELINES FOR SELECTION OF FASTENERS BASED ON GALVANIC ACTION

BASE METAL	FASTENER MATERIAL		
	STAINLESS STEEL	GALVANISED STEEL	ZINC PLATED STEEL
AUSTENITIC STAINLESS STEEL (302/ 304/ 316)	**A**	**ADE**	**ADE**
FERRITIC STAINLESS STEEL (430)	**A**	**ADE**	**ADE**
ZINC & GALVANISED STEEL	**C**	**A**	**A**
STEEL & CAST IRON	**B**	**AD**	**AD**
LEAD-TIN PLATED STEEL SHEETS	**B**	**ADE**	**ADE**
BRASS, COPPER,BRONZE	**B**	**ADE**	**ADE**
ALUMINIUM & ALUMINIUM ALLOYS	**B**	**A**	**A**

WARNING: Corrosion potential may be increased by connecting dissimilar materials.

A = The corrosion of the base material is not increased by the fastener.
B = The corrosion of the base material is marginally increased by the fastener.
C = The corrosion of the base material may be markedly increased by the fastener.
D = The Plating on the fastener is rapidly consumed, leaving the bare fastener metal.
E = The corrosion of the fastener is increased by the base material.

Note: surface treatment and environment can change activity

The table above is meant as a guide only to aid in the selection of appropriate screw material / coating compatibility, if unsure seek professional advice.

Roof & Wall Fasteners

NAUTILUS XTEND | IC4 | IC5 ULTRA | ICCONS Serious Connections

The Warranty

Corrosivity Category AS 4312 and/or ISO 9223		C1 Low	C2 Medium	C3 High	C4 Very High	C5 Extreme	CX
ICCONS® references International Standard ISO 9223 as guidance for establishing the screw warranty periods and conditions referenced below.							
Exposure Type	Climate	Protected Indoor	Temperate	Temperate	Temperate	Subtropical	Tropical
	Pollution	Nil	Low	Mild	Mild	High	Extreme
	Marine	Nil		Mild	High	Very High	Off shore
	Industrial	Nil		Low	Mild	High	Severe
	Wetness	Nil	Short term				
Location Guidance	Distance from Ocean/Sea	50km +	20km +	3km +	500m - 3km	150m - 1km	Breaking Surf
ICCONS® screw recommendation	Main	IC3	IC4	IC4	IC5X ULTRA	IC5X ULTRA	Stainless Steel*
	Alternative	IC	IC3	IC3	IC4X		
Warranty Period years							
Nautilus XTEND® IC5X ULTRA	**Head & Shank Cavity Zone**	N/A	**30** including Cavity Zone	**25** including Cavity Zone	**20** including Cavity Zone	**10** including Cavity Zone	Contact ICCONS®
Nautilus XTEND® IC4X		N/A	**25**	**20**	**15**	NR	NR
IC4		N/A	**25**	**20**	**15**	NR	NR
IC3		N/A	**20**	**10**	NR	NR	NR

NR - Not Recommended
* Stainless Steel: Check with ICCONS® Engineering Department and specified roll-former for suitability and compatability.

Important Note Regarding Warranty:
The warranty period specifically pertains to the structural integrity of the screw and does not extend to matters related to the screw's appearance. This includes issues such as surface rust on the screw's head and shank, as well as any instances of paint fading or chipping on painted screw heads. The screw's coating serves the purpose of safeguarding against critical failures throughout the duration of the warranty period. Any corrosion of these coatings is considered a natural part of the sacrificial protective process designed to ensure the screw's integrity during the warranty period.

ICCONS® Nautilus® Self - Drilling Screws (Roof & Wall)
ICCONS® is proud to offer a range of high quality, corrosion resistant Self-Drilling Screws for roof and wall cladding in the Australian Marketplace.. ICCONS® guarantees the Structural Integrity of its Nautilus® Self-Drilling Screws that now includes the Nautilus XTEND® IC5X ULTRA range with both head and shank cavity zone warranted against the effects of corrosion or other metallurgical manufacturing defects.

ICCONS® references International Standard ISO 9223:2012(E) as guidance for establishing the screw warranty periods and conditions referenced below.

Atmospheric conditions, pollution levels, chemicals, humidity and wetness all have a large impact on the expected serviceable life of the screws. Ask ICCONS® to provide guidelines to assist in determining the severity of the corrosive environment that the ICCONS® Nautilus® screws will be exposed to.

ICCONS® follows Categories C2 to CX and will warrant the structural integrity of the screw and washer system for the period indicated in each category. **It should be noted the ICCONS® Warranty covers the structural integrity and performance of the screws as per the above table recommendations.**

Importantly the ICCONS® warranty on Nautilus XTEND® IC5X ULTRA coated screws includes the shank cavity zone of the screw .

Australian Standard AS/NZS 2312-2002 states that it is *"very difficult if not impossible, to predict accurately the aggressiveness of a given environment and a certain amount of educated judgement is required to assess its Category, an inspection of the local environment, the building type and the condition of similar structures in the area is usually necessary".*

Screw selection should always be suitable for both the application intended and be fully compatible for use with the other materials in the build. ICCONS® Nautilus® screws are suitable for use with Bluescope® Zincalume®, ColorBond® and UltraSteel® cladding and roofing profiles.

The table above is meant as a guide only to aid in the selection of appropriate screw material / coating for the application and conditions of the intended use. Always check with recommendations from relevant roll formers for material compatibility, if unsure seek professional advice.

ICCONS® WARRANTY is subject to the following conditions and limitations:

- ICCONS® screws not exposed to rain are required to be washed down every 6 months.
- ICCONS® screws must be installed correctly by use of a screw gun.
- For applications in coastal regions or where there may be heavy industrial pollutants (chemical plants, airports), ICCONS® screws should be washed down every 3 months.
- ICCONS® Warranty is not transferable and remains valid only for the original owner of the structure where the fasteners are utilised.
- Any warranty claim must be supported by full written details of the alleged defect, the date of installation, the application and build detail, location of the installation and proof of purchase.
- All ICCONS® roofing and cladding screws must be head marked with the relevant class of coating.
- ICCONS® Warranty does not apply and ICCONS® will not be made liable for (to the extent permitted by law) any defect or fault arising from the following conditions:
  - Damage caused by exposure to chemical agents, fumes, soils, ashes, fertilisers, liquids and solids other than natural rain fall.
  - Incorrect screw selection for the application or the environment they are used in.
  - Incorrect screw selection for the compatibility with other materials used in the build.
  - Over tightened incorrectly installed screws that fail due to stress fatigue.
  - Tempest, War or act of God.
  - **The warranty does not include any degradation to the aesthetic appearance of the screw, however in the event of any unexpected concerns regarding the aesthetic quality of the screw heads within the warranty period, ICCONS® is fully committed to conducting a comprehensive site inspection, involving representatives from ICCONS®, the steel roofing/cladding manufacturer, the builder, and the contractor, to address and resolve the issue.**
- ICCONS® will warrant any screws that are deemed to be defective after inspection of the specific project and consideration of the above criteria.
- To the extent permitted by law, ICCONS® will not be liable for any loss or damage caused (including consequential or special loss or damage) whether by negligence or otherwise which may be suffered or incurred by any person or which may arise directly or indirectly in respect of the supply or use of the products or otherwise under or in connection with the warranty.