

# Building Product Information Sheet

## Class 1

**Product Name:**

Self Drilling Flathead - Coarse Thread

**Date of Report:**

06 / 11 / 2023

**Product Line:**

Self Drilling Screws

**Product Description and its intended use:**

Self drilling flathead screws are ideal for fixing into steel where a discrete finish is required. Often used in steel frame construction where the flathead eliminates bulging under plasterboard. These screws have a hardened steel self drilling point (tek point) which cuts through mild steel without the need for pre-drilling. Available in both zinc and galvanised finishes these screws can be used in both internal and external applications.

**Key technical specifications:**

- Product type: Self Drilling Screws
- Finish options: 10 Gauge - Coarse Thread - Zinc Yellow
- Head options: Flat Head
- Material specifications: 10 Gauge Steel
- Drive Type: Flat / PH2
- Base Material thickness - steel (mm): 0.75 - 3.00
- Thread length (mm): Full.
- Coating: Nautilus 3 Coating.

**Product Identifier**

ICCONS SDS Screws

**Place of Manufacture:**

Overseas

**Manufacturer:**

ICCONS PTY LTD

**Importer:**

Sesto Fasteners Limited

Address: 5e Piermark Drive  
Rosedale, Auckland  
Postcode: 0632  
Website: [www.sestofasteners.co.nz](http://www.sestofasteners.co.nz)  
Email: [orders@sestofasteners.co.nz](mailto:orders@sestofasteners.co.nz)  
Phone: +64 94158564  
NZBN: 9429041704103

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## Relevant Building Code Clauses:

- B1 Structure: Performance clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3, B1.3.4
- B2 Durability: Performance clauses B2.2
- F2 Hazardous Building Materials: Performance clause F2.3.1

## Statement on how the building product is expected to contribute to compliance:

- B1 Structure: clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3, B1.3.4:

- Self drilling flathead screws are ideal for fixing into steel where a discrete finish is required. Often used in steel frame construction where the flathead eliminates bulging under plasterboard. These screws have a hardened steel self drilling point (tek point) which cuts through mild steel without the need for pre-drilling. Available in both zinc and galvanised finishes these screws can be used in both internal and external applications.

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

- ICCONS screws have been tested for load data. Values vary based on material and gauge. Refer to document 'Screw Guide (Self Drill and Type 17) TDS' available in the link below:

[https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?\\_pos=1&\\_sid=da5054c74&\\_ss=r](https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?_pos=1&_sid=da5054c74&_ss=r)

- B2 Durability: Performance clauses B2.2

- ICCONS SDS Screws are available in 10 Gauge Zinc Yellow and 10 Gauge Category 3 Nautilus coating options.

- Refer to document 'Screw Guide (Self Drill and Type 17) TDS' to determine the finish that suits your applications, available in the link above.

- ICCONS® is proud to offer a range of high quality, corrosion resistant Self-Drilling Screws for the Australian marketplace. ICCONS® guarantees the Structural Integrity of the Nautilus® Self-Drilling Screws 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 within.

- Atmospheric conditions, pollution levels, chemicals, humidity and wetness all have a large impact on the expected serviceable life of the screws. ISO9223:2012(E) provides guidelines to assist in determining the severity of the corrosive environment that the ICCONS® Nautilus® screws will be exposed to. I

- ICCONS® follows ISO 9223:2012 (E) 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 screw, and does not include the aesthetic appearance of the coating.

- ICCONS SDS screws have been tested for corrosivity under standard ISO 9223:2013(E) Annex C. Review page 4 of the above document to determine suitability of the Nautilus 3 coating for your application.

- ICCONS offer a warranty on any screws that are deemed to be effective after inspection of the specific project and consideration of the criteria provided in the documentation. Refer to page 4, document 'Screw Guide (Self Drill and Type 17) TDS' for the Warranty in full.

- F2 Hazardous Building Materials: Performance clause F2.3.1

- ICCONS SDS screws are safe when handled.

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## Limitations on the use of the building product:

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 an appropriate safety factor should be applied to the published ultimate loads.

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

- WARNING: Corrosion potential may be increased when connecting dissimilar materials. Note: surface treatment and environment can change activity. Refer to page 1, document 'Screw Guide (Self Drill and Type 17) TDS' for a guideline on selecting fasteners based on galvanic action. The table is meant as a guide only to aid in the selection of appropriate screw material / coating compatibility. If unsure seek professional advice. Link below:

[https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?\\_pos=1&\\_sid=da5054c74&\\_ss=r](https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?_pos=1&_sid=da5054c74&_ss=r)

- Recommended drill speed for Metal SDS screws: 2500 rpm.

- Note on load data: ultimate pull-out loads for SDS and Type 17 Screws must be divided by an appropriate safety factor in order to determine either design or recommended loads.

ICCONS SDS Warranty:

- ICCONS® follows ISO 9223:2012 (E) 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 screw, and does not include the aesthetic appearance of the coating.

- 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® Zinalume®, 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 screws must be installed correctly by use of a screw gun.

- ICCONS Warranty does not apply from: incorrect screw selection for the application or environment, over tightened or incorrectly installed screws that fail due to stress fatigue, and incorrect screw selection for compatibility with other materials used in the build.

- These excerpts are for exemplary purposes only. Refer to page 4, document 'Screw Guide (Self Drill and Type 17) TDS' for the ICCONS Warranty terms and conditions in full, available in the link below:

[https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?\\_pos=1&\\_sid=da5054c74&\\_ss=r](https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?_pos=1&_sid=da5054c74&_ss=r)

## Design requirements that would support the use of the building product:

ICCONS Self Drilling Flathead screws have been designed for use in the following applications:

- Steel frame construction
- Applications that need a screw that pre-drills and has a discrete finish.

Features that support use:

- Flat head for a discrete finish
- Available in both zinc and galvanised finishes (perfect for internal and external applications).
- No pre-drilling (please see material thickness for drilling capacities).

## Installation requirements:

Installation steps:

1. Select the ICCONS SDS screw that is suitable for your application. Take into account length, coating type, finish and base material thickness. Consider the aggressiveness of the given environment and other materials in the build. Refer to document 'Screw Guide (Self Drill and Type 17) TDS' page 4 for corrosivity information, available in the link below:

[https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?\\_pos=1&\\_sid=da5054c74&\\_ss=r](https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?_pos=1&_sid=da5054c74&_ss=r)

2. Use a pencil or marker to mark the positions where you want to install the screws.

3. Place the tip of the SDS screw onto the marked location and apply pressure while activating the drill or driver to bore into the base material.

4. Drive the SDS screw into the base material. Ensure you do not over-tighten. Stop when the screw head is flush with the surface of the fixture.

5. Installation complete!

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## Maintenance requirements:

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.
- 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.
- Refer to page 4, document 'Screw Guide (Self Drill and Type 17) TDS' for all terms and conditions, available in the link below:  
[https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?\\_pos=1&\\_sid=da5054c74&\\_ss=r](https://sestofasteners.co.nz/products/self-drilling-flathead-coarse-thread?_pos=1&_sid=da5054c74&_ss=r)

## Is the building product subject to warning or ban under section 26?:

No

