

# Building Product Information Sheet

## Class 1

**Product Name:**

Sleeve Anchor - Hex Head

**Date of Report:**

04 / 10 / 2023

**Product Line:**

ICCONS Sleeve Anchors

**Product Description and its intended use:**

The Standard Hex Head Sleeve Anchor is a medium duty pre-assembled torque controlled expansion anchor consisting of a threaded plow bolt and a pressed carbon steel sleeve designed to expand when cone is tightened locking the sleeve against the wall of the hole. Features a hex head, ideal for various base materials such as concrete, solid brick or concrete block.

**Key technical specifications:**

- Product type: Sleeve Anchor
- Finish options: Carbon Steel Zinc Yellow, Carbon Steel Galvanised, Stainless Steel 316 A4
- Head options: Hex Head
- Material specifications: drill diameter, minimum anchor embedment, head socket size and other values vary based on part. Refer to document 'Sleeve Anchor Technical Data' for specific values per part:

[https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?\\_pos=2&\\_sid=701aa7bfe&\\_ss=r](https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?_pos=2&_sid=701aa7bfe&_ss=r)

**Product Identifier**

ICCONS Sleeve Anchors

**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:
  - ICCONS Sleeve Anchors are a medium duty pre-assembled torque setting expansion anchor consisting of a threaded plow bolt and a pressed carbon steel sleeve designed to expand when the anchor is tightened locking the sleeve against the wall of the hole.
  - Features a collapsible design to assist clamp down of fixture.
  - Suitable for concrete, solid brick and concrete block.
  - Collapsible design to assist clamp down of fixture.
  - ICCONS Sleeve Anchors have been laboratory tested for recommended loads in tension and shear in 20 MPa, 32 MPa and 40 MPa concrete. Test results vary based on finish, anchor size and other values. Refer to document '1008.4 - Hex Head Sleeve Anchor TDS' for specific values based on part, available in the link below:  
[https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?\\_pos=2&\\_sid=701aa7bfe&\\_ss=r](https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?_pos=2&_sid=701aa7bfe&_ss=r)
  - Design Conditions data regarding spacing reduction factors in tension and shear, and edge distance reduction factors in tension and shear is available. Refer to document '1008.4 - Hex Head Sleeve Anchor TDS' for specific values based on part, available in the link above.
  
- B2 Durability: Performance clauses B2.2
  - ICCONS Sleeve Anchors are available in 316 Stainless Steel, (Zinc and Galvanised) Carbon Steel.
  - Through fixing for fast installation.
  - Zinc plated hex finish: AISI1010. Plating: Electroplated zinc coating thickness 5 microns (min).
  - Galvanised hex finish: AISI11010. Plating: Galvanised coating thickness 45 microns (min).
  - 316 Stainless Steel hex finish: 316 stainless steel.
  
- F2 Hazardous Building Materials: Performance clause F2.3.1
  - ICCONS Sleeve Anchors are safe when handled.

## Limitations on the use of the building product:

- Excessive torque during installation may damage the anchor. Always adhere to anchor installation torque guidelines. Refer to document 'Sleeve Anchor Technical Data' for torque values, available in the link below:  
[https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?\\_pos=2&\\_sid=701aa7bfe&\\_ss=r](https://sestofasteners.co.nz/products/sleeve-anchor-hex-head?_pos=2&_sid=701aa7bfe&_ss=r)
  - Information contained in technical document '1008.4 - Hex Head Sleeve Anchor TDS' is based on testing by the manufacturer and should be reviewed and approved by a design professional responsible for the given application. For safety critical fastening applications designed in accordance with AS 5216:2021, please refer to the Iccons website for a complete suite of compliant post-installed chemical and mechanical anchoring products.
  - Recommended Load data available in document '1008.4 - Hex Head Sleeve Anchor TDS' has been derived from laboratory test results using NATA calibrated equipment. The load capacities incorporate a safety factor of 3 for concrete and 2.5 for steel. All loads are representative of a single anchor remote from an edge.
  - Note on design conditions data available in document '1008.4 - Hex Head Sleeve Anchor TDS': When anchor spacing or edge distances are less than critical distances, Recommended Working Load values must be multiplied by the appropriate reduction factors. Linear interpolation is allowed for intermediate anchor spacing and edge distances between critical and minimum distances. If an anchor/anchor group is affected by multiple reduced spacing and edge distances, the spacing and edge reduction factors must be multiplied together to give a total effect on the anchor / anchor group performance.
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## Design requirements that would support the use of the building product:

ICCONS Sleeve Anchors have been designed for use in the following applications:

- Ideal for fixing steel brackets, and timber structures to solid base materials.
- Suitable in concrete
- Stone
- Solid brick
- Concrete block

Features that support use:

- Strong, yet economical expansion anchor
- Flush head provide a more discrete or clean finish than a traditional sleeve anchor
- Pre-assembled for fast and simple installation
- Ideal for through fastening applications.

## Installation requirements:

Installation steps:

1. With the correct diameter drill bit, drill a hole to the correct depth.
2. Clean dust and other material from the hole.
3. Insert anchor into position.
4. With correct size socket or spanner tighten anchor to specified torque.
5. Installation complete!

## Maintenance requirements:

N/A. no ongoing maintenance required.

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

No

