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BPIR PRODUCT FORM

ICCONS® Serious Connections®

Building Product Information Sheet

Class 1

Product Name:

Grabcon Hex Head - Carbon Steel - Galvanised

Date of Report:

19 / 09 / 2023

Product Line:

Grabcon® Concrete Screws

Product Description and its intended use:

Grabcon® is part of ICCONS concrete and masonry screw family, coated in a mechanical galvanised finish and available in a flanged hex or Phillips #2 (5mm anchor) and Phillips #3 (6.5mm anchor) countersunk head styles. The Grabcon is incredibly versatile with its high-low cutting thread profile allowing it to tap its own thread into masonry substrates, resulting in a plug less fixing. These fasteners are ideal for light to medium duty applications when fastening into concrete, brick and block. Available in both galvanised hex and countersunk variant, this versatile screw should be in every tradies toolbox!

Key technical specifications:

- Product type: Concrete and masonry screw
- Finish options: Galvanised Steel
- Material: Hex head carbon steel ruspert coated
- Head options: Flanged hex head
- Material specifications (6.5mm): drill size 3/16", fixture clearance hole 8mm, socket size: 5/16", flanged hex head 10.6mm, coating: ruspert protective coating (1000 hours SST)
- Drill diameter, impact nut setters part number, minimum anchor embedment may vary based on part. Refer to document 'Grabcon Concrete Screw Technical Information' available in the link below, for specific values per part: https://sestofasteners.co.nz/products/grabcon-hex-head-carbon-steel-galvanised?_pos=3&_sid=d0eb9bf8e&_ss=r

Product Identifier

Grabcon Concrete and Masonry 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
Email:	orders@sestofasteners.co.nz
Phone:	+64 94158564
NZBN:	9429041704103

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 Grabcon Concrete screws have been tested for recommended loads on tension and shear values in concrete 20MPa, Brickwork 15MPa and Concrete 32MPa. Performance values vary based on part number, anchor depth and drill size. Information contained in the technical document below 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 5216:2018/SA TS 101:2015, please refer to our website for a suite of compliant post-installed chemical and mechanical anchoring products. Refer to document 'Grabcon Concrete Screw Technical Information' available in the link below for specific values per part: https://sestofasteners.co.nz/products/grabcon-hex-head-carbon-steel-galvanised?_pos=3&_sid=d0eb9bf8e&_ss=r
- Grabcon screws have been designed for light to medium duty applications when fastening into concrete, brick and block.
- To achieve published tension and shear loads, use the reduction factors, spacing distances and edge distances as described in page 3 of the above documentation.
- Base material thickness should be 1.5 x hembed or a minimum of 75 mm, always use the greater of the two values. See the above documentation to apply to your specific application.

• B2 Durability: Performance clauses B2.2
- Grabcon® is part of ICCONS®concrete and masonry screw family, coated in a carbon steel ruspert protective coating (1000 Hours SST).
- Grabcon screws utilise a high-low cutting thread profile allowing it to tap its own thread into masonry substrates, resulting in a plug less fixing.

• F2 Hazardous Building Materials: Performance clause F2.3.1
- Grabcon screws are safe when handled.

Limitations on the use of the building product:

- ICCONS Grabcon screws have been designed for light to medium duty applications.
- ICCONS Grabcon screws have been designed for use in the following base materials:
- Concrete, stone, solid brick, hollow brick, aerated concrete.
- Drill diameter, minimum anchor embedment, and screw size may vary based on part. Refer to document 'Grabcon Concrete Screw Technical Information' for specific values per part:
https://sestofasteners.co.nz/products/grabcon-hex-head-carbon-steel-galvanised?_pos=3&_sid=3bf676309&_ss=r
- Information contained in the technical document above 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 applications designed in accordance with AS 5216:2018/SA TS 101:2015, please refer to our website for a complete suite of compliant post-installed chemical and mechanical anchoring products.
- Recommended loads in shear and tension vary based on part. Refer to the technical document above (page 2) for testing data.
- The performance information available above incorporates a safety factor of 3. All loads relate to a single anchor remote from an edge. Spacing 12d (min) and edge distance 12d (min). Limit state design: multiply the above loads by 1.8 to determine the Limit State Design capacities.
- Base material thickness should be 1.5 x hembed or a minimum of 75mm, always use the greater of the two values.
- For combined tension and shear load applications the equation stated in page 3 of the above technical document shall be satisfied.

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

ICCONS Grabcon screws have been designed for the following applications:

- Concrete
- Stone
- Solid and hollow brick
- Solid and hollow block
- Lightweight concrete

Features that support the use of the building product:

- Simple and fast install
- Aggressive high-low thread profile for self-tapping into masonry substrates
- Available in hex and countersunk head variants
- Galvanised for internal and external applications
- Lengths from 32mm to 100mm.

Installation requirements:

ICCONS Grabcon Hex Head installation steps:

1. With the correct diameter drill bit, drill a hole to the depth of at least one diameter of the anchor deeper than required embedment.
2. Clean dust and other material from the hole.
3. Install with either a socket or cordless impact driver. Apply pressure against the fixing and rotate to engage the first thread.
4. Continue to tighten the anchor until hex head is firmly seated against feature. Installation complete!

Maintenance requirements:

N/A, no on-going maintenance required.

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

No