

Building Product Information Sheet

Class 1

Product Name:

Economy Screw Bolt

Date of Report:

08 / 09 / 2023

Product Line:

CONCA by ICCONS Economy Screwbolts

Product Description and its intended use:

Key technical specifications:

- Product type: Economy Screwbolt Hex Head Masonry Anchor
- Finish: Galvanised
- Heat treated carbon steel body
- Fast installation at reduced torque
- Suitable for installation with impact drivers

Applications:

- Non safety-critical applications in uncracked concrete
- Fixing wood structures in concrete

Product Identifier

CONCA by ICCONS Economy Screwbolt

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: clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3, B1.3.4
- B2 Durability: Performance clauses B2.2, B2.3.2
- 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 Economy screwbolts have been evaluated based on testing by the manufacturer for recommended working load, and based on a simplified design method not AS 5216. Refer to document 'Economy Screw Bolt Tech data' for performance data and limited load data per size, available in the link below:
https://sestofasteners.co.nz/products/economy-screw-bolt?_pos=9&_sid=1a420c7fb&_ss=r
 - The ICCONS Economy Screw Bolt is for non structural applications. For high load or structural applications we recommend using the ICCONS premium part Thunderbolt®PRO or the Thunderbolt®PRO-SXTB.
 - The ICCONS Economy Screw Bolt is designed to meet a lower price point. It is ideal for NON STRUCTURAL applications such as Bollard / Car stops / Temporary handrails etc. Limited load data is available for download below. The ICCONS Economy Screw Bolt achieves a high load while generating Low Expansion forces which can make it a great alternative to sleeve or wedge anchors.
 - The Economy Screw Bolt is also completely removable making it ideal for temporary applications. Unlike mechanical expansion anchors, the Economy Screw Bolt keys into the base material for the entire depth and diameter of the hole, not just at the base of the hole. This reduces high energy forces within the concrete allowing close anchor spacing and near-to edge anchor locations. Sharp thread forming teeth ensure the most secure connection in hard base materials.
 - The Economy Screw Bolt is a truly versatile anchor, as it can be installed in whole range of base materials such as concrete, block, brick, timber, marble, and stone, just to name a few.

- B2 Durability: Performance clauses B2.2, B2.3.2
 - Anchor body is mechanically galvanised heat treated carbon steel.
 - Plating is a galvanised coating with thickness of 25 micros (minimum)
 - ICCONS economy screwbolts performance data in 32 MPa concrete has been derived from laboratory testing using NATA calibrated equipment and all loads are representative of a single anchor installed in a hammer drilled hole.Refer to document 'Economy Screw Bolt Tech data' for performance data per size, available in the link below:
https://sestofasteners.co.nz/products/economy-screw-bolt?_pos=9&_sid=1a420c7fb&_ss=r

- F2 Hazardous Building Materials: Performance clause F2.3.1:
 - ICCONS Economy screwbolts are safe when handled.

Limitations on the use of the building product:

- The ICCONS Economy Screw Bolt is for non structural applications. For high load or structural applications we recommend using the ICCONS premium part Thunderbolt®PRO or the Thunderbolt®PRO-XTM.
 - Designed for use in uncracked concrete, and to fix wood structures in concrete only.
 - Combined loading interaction must be considered for applications where anchors are loaded in both Tension and Shear.
 - Information contained in the technical document 'Economy Screw Bolt Tech data' is based on testing by the manufacturer and based on a simplified design method. Information should be reviewed and approved by a design professional responsible for the given application. For safety critical fastening solutions designed in accordance with AS5216, please refer to the Sesto Fasteners website for a complete suite of compliant post-installed chemical and mechanical anchoring products. Available below:
https://sestofasteners.co.nz/products/economy-screw-bolt?_pos=9&_sid=1a420c7fb&_ss=r
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Design requirements that would support the use of the building product:

- ICCONS Economy screwbolts have been designed to a specific drill diameter, embedment depth, max fixture thickness, head size A/F and impact tool torque per size. Refer to document 'Economy Screw Bolt Tech data' for specific values per bolt size, available through the link below:

https://sestofasteners.co.nz/products/economy-screw-bolt?_pos=9&_sid=1a420c7fb&_ss=r

- Suitable for installation with impact drivers.
- Fast installation at reduced torque.
- Heat Treated Carbon Steel body for increased durability.

Installation requirements:

Refer to document 'Economy Screw Bolt Tech data' for installation requirements, available through the link below:

https://sestofasteners.co.nz/products/economy-screw-bolt?_pos=9&_sid=1a420c7fb&_ss=r

Installation requirements:

1. With the correct diameter drill bit, drill a hole to the depth of at least one diameter of the anchor deeper than the 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. Continue to tighten the anchor until flanged head is firmly seated against fixture.
4. Installation complete!

- Use the correct diameter drill bit, drill to the required anchor embedment depth plus at least one anchor diameter deeper.
- Ensure hole is drilled perpendicular to the concrete surface with maximum deviation of up to 5° degrees. Failure to do so may cause anchor breakage
- Clean dust and other material from the hole before installation.
- DO NOT use a worn drill bit outside of drill bit tolerance specification. Worn Drill bits will affect the anchor installation either during installation or post installation.
- When installing with an Impact screw gun do not exceed the recommended torque specifications, failure to comply may result in anchor breakage.
- When securing the screwbolt, do not over tighten and exceed the recommended clamping torque requirements, failure to comply may result in anchor breakage.

Maintenance requirements:

N/A, no on-going maintenance required.

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

No

