

Building Product Information Sheet

Class 1

Product Name:

High Tensile Flat Cut Chem Stud

Date of Report:

04 / 10 / 2023

Product Line:

ICCONS Chemselect

Product Description and its intended use:

ICCONS Class 8.8 High Tensile Threaded Adhesive Studs are suitable for fastening in concrete and masonry in combination with ICCONS Chemselect adhesive injection range. These high tensile flat cut studs are hot dip galvanised suitable for extreme loads and internal or external applications - high tensile when you mean business. The studs can be embedded at flexible depths for maximum performance and cost efficiency. Studs range from M12 to M24 and are manufactured to industry standard lengths.

Key technical specifications:

- Product type: Threaded insert anchor
- Finish options: Class 8.8 Carbon Steel Hot Dip Galvanised
- Material specifications: dill diameter, minimum anchor embedment and other values vary based on part. Refer to document 'CIS Threaded Insert Tech Data' for specific values per part:

https://sestofasteners.co.nz/products/high-tensile-flat-cut-chem-stud?_pos=1&_sid=66de317e7&_ss=r

Product Identifier

ICCONS Chemselect

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:

- Suited for both internal or external applications.

- Able to be embedded at flexible depths for maximum performance and cost efficiency.

- High Tensile Flat Cut Chem Studs hold a Certificate of Conformance per standard BS EN10204:2004 3.1 performed by an independent authority. The products are tested for mechanical properties compliant to test method ASTM A962-A962M-09 for hardness, tensile strength, yield strength, elongation, reduction of area, magnetic particle testing and decarburization. Chemical composition results are also available. Results vary based on product part number. Refer to document 'High Tensile Flat Cut Chem Stud Certificate of Conformance' available in the link below:

https://sestofasteners.co.nz/products/high-tensile-flat-cut-chem-stud?_pos=1&_sid=66de317e7&_ss=r

- Our ICCONS Chemical Anchoring adhesive system range offers C1, C2 seismic rating, NCC compliant and ETA assessed options dependent on product. Refer to links below to see the approval documentation available per adhesive.

- ICCONS Chemical Anchoring adhesive systems suitable for use with this product have been tested for design and mechanical properties relevant to structural integrity. Values vary based on which adhesive is used. Refer to the documents available in the product pages for the applicable adhesive, available in the links below:

BIS-HY Gen 2 Hybrid Injection Adhesive:

https://sestofasteners.co.nz/products/bis-hy-gen-2-hybrid-injection-adhesive?_pos=1&_sid=b0a4e2e97&_ss=r

BIS-P PolyPRO Gen 2 Injection Adhesive:

https://sestofasteners.co.nz/products/bis-p-polypro-gen-2?_pos=2&_sid=b0a4e2e97&_ss=r

BIS-PE Gen 3 Pure Epoxy Injection Adhesive:

https://sestofasteners.co.nz/products/bis-pe-gen-3-pure-epoxy?_pos=3&_sid=b0a4e2e97&_ss=r

- B2 Durability: Performance clauses B2.2

- Available in High Tensile Class 8.8 Carbon Steel, Hot Dip Galvanised finish.

- High tensile steel suitable for extreme loads.

- Suitable for extreme corrosive environments.

- F2 Hazardous Building Materials: Performance clause F2.3.1

- High Tensile Flat Cut Chem Studs are safe when handled.

- ICCONS Chemical Anchoring adhesives suitable for use with this product hold specific Chemwatch testing available. Results vary based on which adhesive is used. Refer to the product links available above for the hazard identification and requirements for handling available per adhesive.

Limitations on the use of the building product:

- The information contained in the document 'CFCHT High Tensile Stud Catalogue Page' is based on use with ICCONS adhesive systems only.

- For M20 x 260mm product (code CFCHT20260G): Drill diameter for use with BIS-PE GEN3, BIS-HY GEN2 injection is 22mm for M20 stud. Refer to document 'CFCHT High Tensile Stud Catalogue Page' for the drill diameter value for this part, available in the link below:

https://sestofasteners.co.nz/products/high-tensile-flat-cut-chem-stud?_pos=1&_sid=66de317e7&_ss=r

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

High Tensile Flat Cut Chem Studs have been designed for use in the following applications:

- For extreme corrosive environments
- High load applications
- Fixing various steel structures to concrete substrates

Features that support use:

- Use of correct stud length and diameter saves time and money with every fastening.
- No tool needed to set anchor
- Available in High Tensile Class 8.8 Carbon Steel, hot dip galvanised
- Anchor Range: M12 up to M24.

Installation requirements:

Installation steps:

1. Hole preparation should be to correct diameter and depth.
2. Clean out hole thoroughly of dust and spoil by repeat blowing and brushing action.
3. Unscrew cap and screw on mixing nozzle supplied and place in suitable applicator tool.
4. For new cartridges dispense a bead of adhesive until even and consistent colour is present to ensure correct mix of adhesive.
5. Place nozzle to the rear of the hole and pump adhesive whilst slowly withdrawing the nozzle back, avoid creating air pockets and fill the hole at least half full.
6. Hand wind thread into the adhesive while turning one way slowly until correct embedment depth is reached and some adhesive has flowed to the top of the hole. Always ensure the anchor is clean and free from oil, grease and dirt.
7. Once installed do not touch or load the anchor until the adhesive is fully cured. See appropriate adhesive label for curing times.
8. When cured tighten bolt to the correct torque.

- Detailed installation instructions are available in the relevant ETA document for the adhesive used.

Refer to document 'BIS-HY Gen2 Hybrid European Technical Assessment - Seismic Approval' for detailed installation instructions when using BIS-HY Gen2 Hybrid adhesive, available in the link below:

https://sestofasteners.co.nz/products/bis-hy-gen-2-hybrid-injection-adhesive?_pos=1&_sid=da10e086d&_ss=r

Refer to document 'BIS-PE Pure Epoxy European Technical Assessment - Seismic Approval' for detailed installation instructions when using BIS-PE Gen 3 Pure Epoxy Injection Adhesive, available in the link below:

https://sestofasteners.co.nz/products/bis-pe-gen-3-pure-epoxy?_pos=3&_sid=da10e086d&_ss=ri

Maintenance requirements:

N/A, no on-going maintenance required.

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

No

