



Halfen HZA Anchor and HZS Channel Bolt

Building Product Information Sheet

HALFEN HZA anchor channels are cast-in concrete fixings. The HZA anchor channel consists of a C-shaped steel channel profile with serrated (toothed) steel lips with at least two metal anchors non-detachably fixed on the channel back. They are made from carbon steel channel profiles or from stainless steel channel profiles. A range of profile sizes is available, and channels are made to different lengths. Durability of carbon steel HZA channel is achieved by a hot-dip galvanised coating. Products are identified by reference to the channel type and size (e.g. HZA 53/34).

The anchor channel is embedded surface-flush in the concrete. HALFEN HZS serrated channel bolts with appropriate hexagon nuts and washers are fixed to the channel.

HALFEN HZS bolts are manufactured with a T-shaped head from carbon steel or stainless steel. Durability of carbon steel bolts is achieved by a zinc plated or hot-dip galvanised coating. Products are identified by reference to bolt type, diameter and length (e.g. HZS 53/34 M16 x 60).

HZA anchor channels and HZS anchor bolts are used as anchorage in concrete to resist static, wind, and seismic tension loads, shear loads perpendicular to the longitudinal channel axis, longitudinal shear loads, or any combination of these loads applied at any location in the anchor channel between the outermost anchors

Composition

- HALFEN HZA channels are made from carbon steel channel profiles or from stainless steel channel profiles. HZS anchor bolts are made from carbon steel or stainless steel.

Supporting documentation

- Full product details, including installation guidelines, are presented in supporting technical documentation. See: Halfen Cast-In Channels. Available from: <https://www.ancon.co.nz/downloads/technical-literature>

Product Identifier

- HZA_ _ / _ _ , HZS_ _ / _ _

Relevant Building Code clauses:

- Clause B1 Structure - B1.3.1, B1.3.2, B1.3.3, B1.3.4
- Clause B2 Durability - B2.3.1 (a)
- Clause F2 Hazardous Building Materials - F2.3.1

Manufacturer and Importer Details:

| | |
|-----------------------|---|
| Place of Manufacture: | Overseas |
| Manufacturer: | Leviat GmbH, Liebigstrasse 14, 40764 Langenfeld, Germany |
| Manufacturer Email: | info.de@leviat.com |
| Importer Name: | Leviat New Zealand Limited |
| Importer Address: | 246D James Fletcher Drive, Otahuhu, Auckland, 2024 |
| Importer Website: | www.leviat.com/en-nz |
| Importer Email: | info.nz@leviat.com |
| Importer Phone: | +64 9 276 2236 |
| Importer NZBN: | 9429031339056 |

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Contributions to Compliance:

Clause B1 Structure

- **B1.3.1, B1.3.2, B1.3.3, B1.3.4.** HALFEN HZA anchor channels and HZS anchor bolts with respect to provisions B1.3.1, B1.3.2, B1.3.3 and B1.3.4, have been independently appraised by the ICC Evaluation Service (ICC-ES) and can be used in applications that comply with the requirements of NZS3101. Refer to ICC-ES Evaluation Report ESR-4016-NZ. Available from: <https://www.ancon.co.nz/products/halfen-anchor-channel>

Clause B2 Durability

- **B2.3.1 (a).** HALFEN HZA anchor channels and HZS anchor bolts will meet the provisions of B2.3.1(a) of not less than 50 years subject to placement and maintenance in accordance with ICC-ES Evaluation Report ESR-4016-NZ, and the design and required durability assessment and consideration of a Chartered Professional Engineer working to the appropriate design and environmental standards.

Clause F2 Hazardous Building Materials

- **F2.3.1.** HALFEN HZA anchor channels and HZS anchor bolts meet the performance requirements under Clause F2.3.1.

Limitations on use:

- Use of coated carbon steel or stainless steel anchor channels and channel bolts in exterior or damp environments is the responsibility of the designer. Guidelines helpful to the preparation of the durability assessment necessary to the use of channels and bolts in environments subject to different conditions are presented in Chapter 1 of the supporting technical documentation and NZS 3101, Clause 3.13.

Design requirements to support appropriate use:

- The design strength of HZA anchor channels and HZS anchor channel bolts must be determined by a Chartered Professional Engineer in accordance with Chapter 17 of NZS3101, and ICC-ES Evaluation Report ESR-4016-NZ.

Installation requirements:

- HZA anchor channels and HZS anchor bolts shall be installed by a competent manufacturer or contractor in accordance with Leviat installation guidelines and the specific engineering design and guidance of the designer.
- Installation guidelines are available in the supporting technical documentation.

Maintenance requirements:

- Maintenance of channels and bolts shall be in accordance with the design and durability assessment of the designer. Maintenance of channels and bolts installed in interior, dry and protected environments will not normally be required during the expected life of the channel and bolt.

Warning or ban:

- This product is not subject to any warning or ban under section 26 of the Building Act 2004.