



Lindapter Hollo-Bolt

Building Product Information Sheet

The Lindapter Hollo-Bolt is a steel expansion bolt used for connecting structural steel to hollow structural section steel members and other structural steel elements where access is difficult or restricted to one side only.

Hollo-Bolt are manufactured from carbon steel or stainless steel and comprise a small number of essential components: core bolt, body (sleeve), collar, and cone. The steel core bolt features a threaded shank and head. The body comprises a steel segmented hollow cylinder. In smaller Hollo-Bolt sizes, the collar is integral to the sleeve. In larger sizes the collar is separate. The cone is a steel circular internally threaded nut with grooves on the outer surface. Larger bolt sizes include an additional nitrile rubber washer.

Three different Hollo-Bolt head types are available: Hexagonal (designated HB), Countersunk (designated HBCSK) and Flush Fit (designated HBFF). Bolts are available in a range of sizes, measured by the size of the core bolt (M8, M10, M12, M16 or M20). Three different lengths are available for most bolt sizes (designated 1,2 or 3).

Hollo-Bolt durability is achieved by coating or by use of stainless steel and categorised by Corrosivity Class in accordance with ISO9223.

Products are identified by reference to head type, size, length and finish (e.g. HB10-1 HDG).

Composition

- Hollo-Bolt are manufactured from carbon steel and stainless steel. Carbon steel bolts are available with a zinc plated, hot-dip galvanised or Sheraplex coating.

Supporting documentation

- Full product details, including installation guidelines, are presented in supporting technical documentation. See: Lindapter Weld-Free Steel Connectors.
- Available from: <https://www.ancon.co.nz/downloads/technical-literature>

Product Identifier

- HB_ _ _ _ , HBCSK_ _ _ _ , HBFF_ _ _ _

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

Contributions to Compliance:

Clause B1 Structure

- B1.3.1, B1.3.2, B1.3.3, B1.3.4. Hollo-Bolt is CE marked and product compliant with European standards.
- Hollo-Bolt has been evaluated by the ICC Evaluation Service (ICC-ES Evaluation Report ESR-3330) for compliance to the International Building Code (IBC) and for use in resisting wind loads, and seismic loads in seismic design categories A through F. The load and resistance factor (LRFD) design strengths presented in ICC-ES Evaluation Report ESR-3330 meet the requirements of American standards AISC 360, AISC 341 and AISI S-100, and are suitable for use when designing to the AISC Steel Construction Manual, Australian standard AS 4100 and NZS 3404. Design strengths applicable to NZS3404 are presented in supporting technical documentation.

Manufacturer and Importer Details:

Place of Manufacture:	Overseas
Manufacturer:	Lindapter International, Brackenbeck Road, Bradford West Yorkshire BD7 2NF, United Kingdom
Manufacturer Email:	support@lindapter.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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- Refer to: ICC-ES Evaluation Report ESR-3330. Available from: <https://icc-es.org> Refer to: ICC-ES Approved Metric Conversion Datasheet (New Zealand Edition).
- Available from: <https://www.ancon.co.nz/products/lindapter-weld-free-steel-connectors/product-range/hollo-bolt>

Clause B2 Durability

- B2.3.1 (a).** Hollo-Bolt will meet the provisions of B2.3.1(a) of not less than 50 years subject to placement, use and maintenance in accordance with the design and required durability assessment and consideration of the responsible engineer working to the appropriate design and environmental standards.

Clause F2 Hazardous Building Materials

- F2.3.1.** Lindapter Hollo-Bolt meets the performance requirements under Clause F2.3.1.

Limitations on the use of the building product:

- Use of coated steel and stainless steel 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 bolts in environments subject to different conditions are presented in the supporting technical documentation (see page 72), which includes durability ratings categorised in accordance with ISO 9223.

Design requirements to support appropriate use:

- The design strength of Hollo-Bolt must be determined by a suitably qualified engineer working in accordance with NZS 3404 and ICC-ES Evaluation Report ESR-3330.

Installation requirements:

- Hollo-Bolt shall be installed by a competent contractor in accordance with Lindapter installation instructions and the specific engineering design and guidance of the designer.
- Installation guidelines are available in the supporting technical documentation.

Maintenance requirements:

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

Warnings or ban:

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