



Ancon QwikFoot Threaded Insert

Building Product Information Sheet

Ancon QwikFoot Threaded Inserts are cast-in concrete fixings that consist of a steel sleeve with an internal metric thread and a large, hot-forged foot. They are available in a range of lengths and thread sizes (M10 to M24). QwikFoot inserts also include a cross-hole to fit a bar for positive tie-in to reinforcement to prevent movement during concrete pouring and vibrations. They are embedded surface-flush in the concrete, and installation is supported with a range of ancillary items, including: the QwikFoot precast chair, nailing plate and antenna cap. Durability of inserts manufactured from carbon steel is achieved by a zinc plated or hot-dip galvanised coating. Inserts manufactured from stainless steel are also available. Products are identified by reference to the fixing type, size, length and coating or stainless steel composition (e.g. FF1296Z).

QwikFoot inserts are used for two distinct applications in precast concrete: (1) the attachment of permanent structural fixtures; and (2) the attachment of temporary braces and strongbacks.

Composition

- QwikFoot Threaded Inserts are manufactured from forged, carbon steel and stainless steel. Carbon steel inserts are available with a zinc plated or hot-dip galvanised coating.

Supporting documentation

- Full product details are available in supporting technical documentation. See: QwikFoot and QwikFix Threaded Inserts Design Guide.
Available from: <https://www.ancon.co.nz/products/precast-concrete-accessories/threaded-inserts>

Product Identifier

- FF_ _ _ _

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

- NZS3101, Clause 17.5.7.2, requires cast-in fixings to be designed in accordance with the Concrete Capacity Design (CCD) method. QwikFoot insert capacities calculated in accordance with the CCD method are presented in the supporting technical documentation.
- Temporary applications requiring inserts are designed using the Working Load Limit (WLL) method in accordance with the Good Practice Guidelines (GPG) of WorkSafe New Zealand's "Safe Work with Precast Concrete" (Oct 2018). The WLL of QwikFoot inserts is presented in the supporting technical documentation.

Clause B2 Durability

- B2.3.1 (a).** QwikFoot inserts 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.

Manufacturer and Importer Details:

Place of Manufacture:	Overseas
Manufacturer:	CRH Consulting (Shanghai) Co. Ltd.* Unit 1001-5, Office Tower, Capital Square, No. 268 Hengtong Road, Jing'an District, Shanghai, China
Manufacturer Phone:	+86 21 5286 0599
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

*CRH Consulting (Shanghai) Co. Ltd. oversee the supply of product manufactured in China to Leviat specifications.

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Clause F2 Hazardous Building Materials

- **F2.3.1.** QwikFoot inserts meet the performance requirements under Clause F2.3.1.

Limitations on the use of the building product:

- QwikFoot inserts shall not be used to connect to steel reinforcing bars, including in wall-to-slab applications.
- Use of coated carbon steel or stainless steel QwikFoot inserts 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 QwikFoot inserts in environments subject to different conditions are presented in NZS 3101, Clause 3.13.

Design requirements to support appropriate use:

- QwikFoot Threaded Inserts shall be used subject to the specific engineering design of a Chartered Professional Engineer.

Installation requirements:

- QwikFoot inserts shall be installed by a competent contractor in accordance with Leviat installation instructions and the specific engineering design and guidance of the designer. Installation guidelines are available in supporting technical documentation. See: QwikFoot Threaded Inserts Installation Guide.
- Available from: <https://www.ancon.co.nz/products/precast-concrete-accessories/threaded-inserts>

Maintenance requirements:

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

Warnings or ban:

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