



BRANZ Appraised

Appraisal No. 1298 [2026]

DELFAST JOIST HANGERS



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BRANZ Appraisals

Technical Assessments of products for building and construction.



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Product

- 1.1 Delfast Joist Hangers are an alternative connection of curtail-joist-to-trimmer or trimmer-to-trimming joist as described in NZS 3604, for timber-framed structures designed in accordance with NZS 3604.
- 1.2 Delfast Joist Hangers are manufactured from galvanised or stainless steel and are available in a single size.

Scope

- 2.1 Delfast Joist Hangers have been appraised as an alternative connection of curtail joist to trimmer or trimmer to trimming joist as described in NZS 3604, Figures 7.7(a) and 7.7(b) for timber-framed structures designed in accordance with NZS 3604.
- 2.2 Delfast Hangers have been appraised for use in closed and exposed environments in accordance with NZS 3604.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 In the opinion of BRANZ, Delfast Joist Hangers, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet or contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. Delfast Joist Hangers meet the requirements for gravity loads arising from use, snow and wind [i.e. B1.3.3 (b), (g) and (h)]. See Paragraph 8.1.

Clause B2 DURABILITY: Performance B2.3.1 (a) 50 years and B2.3.2. Delfast Joist Hangers meet these requirements. See Paragraph 9.1.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Delfast Joist Hangers meet this requirement.



Technical Specification

4.1 System components and accessories supplied by Delta Group (NZ) Ltd are as follows:

Components

- Delfast Joist Hanger - Galvanised - 47 x 180 mm
- Delfast Joist Hanger - Stainless Steel - 47 x 180 mm

Fixings

- Delfast Type 17 12 g x 35 mm Tek Screws
- Delfast 38 mm Joist Hanger Nails
- Delfast 30 mm Loose Product Nails

Handling and Storage

5.1 Delfast Joist Hangers and their fasteners are durable products, but should be stored in covered and dry conditions until they are installed.

Technical Literature

6.1 This Appraisal must be read in conjunction with:

- Delfast Joist Hanger Installation Guide, v1.0, dated 05/01/2026

6.2 All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of this Appraisal must be followed.

Design Information

General

7.1 Delfast Joist Hangers are either galvanised or stainless steel and must be installed in locations as outlined in NZS 3604.

Structure

NZS 3604 Structures

8.1 Delfast Joist Hangers may be used as an alternative to the connection details given in NZS 3604.

Durability

9.1 Delfast Joist Hangers and fixings are manufactured from either galvanised or stainless steel and meet the requirements of NZS 3604. They will have an expected serviceable life of at least 50 years.

Maintenance

10.1 Delfast Joist Hangers should not require any maintenance once installed.

Installation Information

Installation Skill Level Requirement

11.1 All design and building work must be carried out in accordance with the Delfast Joist Hangers Technical Literature and this Appraisal by competent and experienced tradespeople conversant with Delfast Joist Hanger installation. Where the work involves Restricted Building Work (RBW) this must be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant Licence Class.

Health and Safety

12.1 Suitable care must be taken when handling power and hand tools, and when handling treated timber.



Basis of Appraisal

The following is a summary of the technical investigations carried out:

Tests

- 13.1 Testing was carried out by BRANZ on simulated curtail-joist-to-trimmer or trimmer-to-trimming joist connections to determine their structural strength.

Other Investigations

- 14.1 Structural and durability opinions have been provided by BRANZ technical experts.
- 14.2 Site inspections have been carried out by BRANZ to assess the practicability of installation and to examine completed installations.
- 14.3 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 15.1 Details regarding the composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 15.2 The quality of supplied Delfast materials, components and accessories is the responsibility of Delta Group (NZ) Ltd.
- 15.3 Quality on-site is the responsibility of the installer.
- 15.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of Delfast Joist Hangers in accordance with the instructions of Delta Group (NZ) Ltd.

Sources of Information

- AS/NZS 1170.1:2002 Structural Design actions - Part 1: Permanent, imposed and other actions.
- NZS 3604:2011 Timber-framed buildings.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.



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12 May 2026

DELFAST JOIST HANGERS



In the opinion of BRANZ, **Delfast Joist Hangers** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided it is used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Delta Group (NZ) Ltd**, and is valid until further notice, subject to the Conditions of Appraisal.

Conditions of Appraisal

1. This Appraisal:
 - a) relates only to the product as described herein;
 - b) must be read, considered and used in full together with the Technical Literature;
 - c) does not address any Legislation, Regulations, Codes or Standards, not specifically named herein;
 - d) is copyright of BRANZ.
2. **Delta Group (NZ) Ltd**:
 - a) continues to have the product reviewed by BRANZ;
 - b) shall notify BRANZ of any changes in product specification or quality assurance measures prior to the product being marketed;
 - c) abides by the BRANZ Appraisals Services Terms and Conditions;
 - d) warrants that the product and the manufacturing process for the product are maintained at or above the standards, levels and quality assessed and found satisfactory by BRANZ pursuant to BRANZ's Appraisal of the product.
3. BRANZ makes no representation or warranty as to:
 - a) the nature of individual examples of, batches of, or individual installations of the product, including methods and quality of work;
 - b) the presence or absence of any patent or similar rights subsisting in the product or any other product;
 - c) any guarantee or warranty offered by **Delta Group (NZ) Ltd**.
4. Any reference in this Appraisal to any other publication shall be read as a reference to the version of the publication specified in this Appraisal.
5. BRANZ provides no certification, guarantee, indemnity or warranty, to **Delta Group (NZ) Ltd** or any third party.

For BRANZ

Claire Falck

Chief Executive

Date of Issue:

12 May 2026