



BRANZ Appraised
Appraisal No. 531 [2015]

PRO-JOIST SADDLE FLASHING

Appraisal No. 531 [2015]

This Appraisal replaces Appraisal No. 531 [2006].



BRANZ Appraisals

Technical Assessments of products for building and construction.



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Product

- 1.1 The Pro-Joist Saddle Flashing is a moulded, one piece flashing for weatherproofing the junction where a timber joist cantilevers from inside the building structure to the outside. This situation will arise with cantilevered timber decks.

Scope

- 2.1 The Pro-Joist Saddle Flashing has been appraised for use as a saddle flashing for timber joists of cantilevered decks of buildings within the following scope:
 - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
 - situated in NZS 3604 Wind Zones up to and including Extra High.

Building Regulations

New Zealand Building Code (NZBC)

- 3.1 **In the opinion of BRANZ, the Pro-Joist Saddle Flashing 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 B2 DURABILITY: Performance B2.3.1 (b), 15 years and B2.3.2. Pro-Joist Saddle Flashing meets these requirements. See Paragraph 8.1.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. When used as part of the cladding system, Pro-Joist Saddle Flashing will contribute to meeting this requirement. See Paragraphs 10.1 - 10.3.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Pro-Joist Saddle Flashing meets this requirement and will not present a health hazard to people.

- 3.2 This is an Appraisal of an **Acceptable Solution** in terms of New Zealand Building Code compliance.

Technical Specification

- 4.1 The Pro-Joist Saddle Flashing is moulded from UV stabilised polypropylene plastic and is coloured black. It is available in 47 and 94 mm widths.

Handling and Storage

- 5.1 The Pro-Joist Saddle Flashing must be stored in a dry place indoors, away from direct sunlight and heat. Care must be taken to ensure that the saddle flashing is not damaged before or during installation.

Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ Website for details of the current Technical Literature for Pro-Joist Saddle Flashing. The Technical Literature must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained within the scope of this Appraisal and the Technical Literature must be followed.

Design Information

General

- 7.1 The Pro-Joist Saddle Flashing is designed to fit directly over the timber joist and is designed to fit nominal 50 and 100 mm wide joists, 250 mm deep and smaller. The flashing has indicator marks on the flashing that show where excess can be cut away when fitting to joists smaller than 250 mm deep.
- 7.2 The flashing is designed to prevent water leakage around cantilevered joists. It is suitable for use as a saddle flashing as prescribed in NZBC Acceptable Solution E2/AS1 Paragraph 7.2.1.1 and Figure 16.

Durability

Serviceable Life

- 8.1 Provided the Pro-Joist Saddle Flashing is not exposed to ultra-violet (UV) light for a total of more than 30 days and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather resistant, the Pro-Joist Saddle Flashing is expected to have a serviceable life equal to that of the cladding.

Maintenance

- 9.1 No maintenance can be carried out on the Pro-Joist Saddle Flashings as they are inaccessible once the cladding, decking and scribes have been installed. The scribes must be maintained to ensure they protect the flashing from UV exposure.

External Moisture

- 10.1 The Pro-Joist Saddle Flashing complies with the dimensional requirements of the saddle flashing detail as shown in NZBC Acceptable Solution E2/AS1 Figure 16.
- 10.2 Pro-Joist Saddle Flashing must only be used with wall claddings that meet the requirements of the NZBC, such as those covered by NZBC Acceptable Solution E2/AS1, or claddings covered by a valid BRANZ Appraisal.
- 10.3 Pro-Joist Saddle Flashing, when installed in accordance with the Technical Literature and this Appraisal, will assist in the total cladding systems compliance with NZBC Clause E2.

Installation Information

Installation Skill Level Requirement

- 11.1 Installation of the Pro-Joist Saddle Flashing must be completed by, or under the supervision of a Licensed Building Practitioner with the relevant License Class, in accordance with instructions given within the Technical Literature and this Appraisal.

General

- 12.1 The Pro-Joist Saddle Flashing is fitted over the joist, behind the cladding and under the decking material.
- 12.2 When fitted, all exposed sections of the Pro-Joist Saddle Flashing must be covered with scribes held in place by hot dipped galvanised flat head nails, nailed through the scribe and the flashing 10 mm from the outer edge to protect it from UV light exposure.

Inspections

- 13.1 The manufacturer's Technical Literature and NZBC Acceptable Solution E2/AS1 Figure 16 must be referred to during the inspection of Pro-Joist Saddle Flashing installations.

Health and Safety

- 14.1 There are no particular health and safety requirements to consider when using Pro-Joist Saddle Flashing.

Basis of Appraisal

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

- 15.1 An assessment was made of the durability of the Pro-Joist Saddle Flashing by BRANZ technical experts.
- 15.2 An assessment of the weathertightness of the saddle flashing was made by BRANZ technical experts.
- 15.3 Site inspections were carried out by BRANZ to examine the practicability of installation.
- 15.4 The Technical Literature has been examined by BRANZ and found to be satisfactory.

Quality

- 16.1 The manufacture of Pro-Joist Saddle Flashing has been examined by BRANZ and found to be satisfactory.
- 16.2 The quality of supply to the market is the responsibility of Marshall Innovations Limited.
- 16.3 The quality of installation on site is the responsibility of the building contractor.

Sources of Information

- NZS 3604: 2011 Timber-framed buildings.
- Compliance Document for New Zealand Building Code External Moisture Clause E2, Ministry of Business, Innovation and Employment, Third Edition July 2005 [Amendment 6, 14 February 2014].
- Ministry of Business, Innovation and Employment Record of Amendments for Compliance Documents and Handbooks.
- The Building Regulations 1992.



In the opinion of BRANZ, **Pro-Joist Saddle Flashing** is 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 **Marshall Innovations Limited**, 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. **Marshall Innovations Limited:**
 - 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 workmanship;
 - 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 **Marshall Innovations Limited**.
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 **Marshall Innovations Limited** or any third party.

For BRANZ



Chelydra Percy

Chief Executive

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31 July 2015