



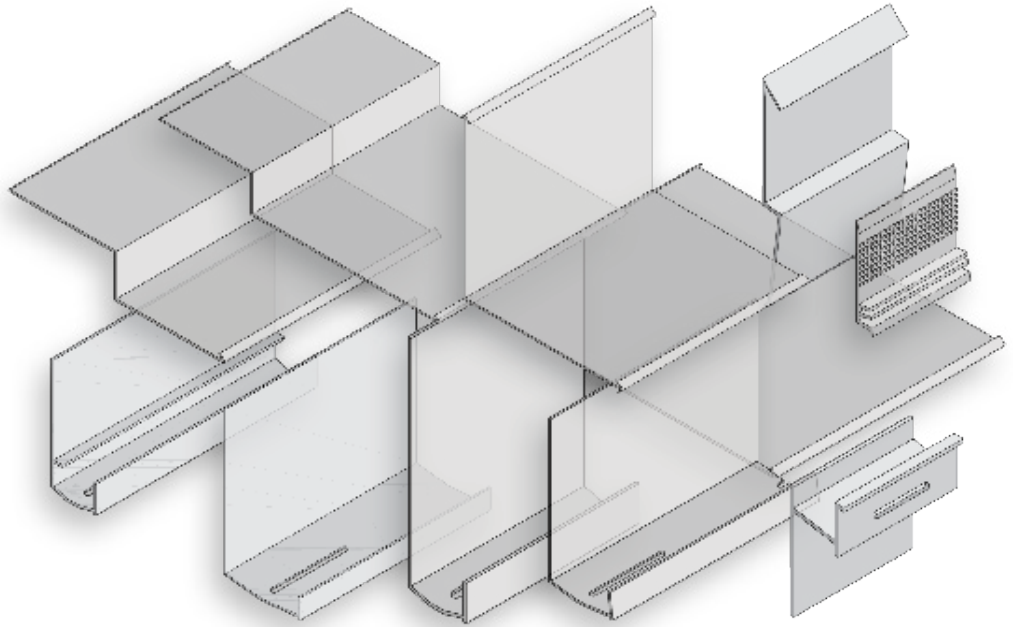
BRANZ Appraised

Appraisal No. 980 [2024]

E2 REDWAY FLASHINGS

Appraisal No. 980 [2024]

This Appraisal replaces BRANZ Appraisal No. 980 [2017]



BRANZ Appraisals

Technical Assessments of products for building and construction.



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Product

- 1.1 E2 Redway Flashings are a range of uPVC back flashings designed for use in a variety of wall construction details to meet the flashing requirements of both direct-fixed and cavity cladding systems.

Scope

- 2.1 E2 Redway Flashings have been appraised for use as back flashings on buildings within the following scope:
- Class 1 and Class 10 buildings; and,
 - Class 2 to Class 9 buildings subject to specific weathertightness design; and,
 - constructed with timber or steel framing in accordance with the National Construction Code [NCC]; and,
 - situated in non-cyclonic wind zones up to, and including N3.

[Note: E2 Redway Flashings can also be used on buildings subject to specific weathertightness design. Weathertightness design and detailing of these installations is the responsibility of the designer and is outside the scope of this Appraisal].

Building Regulations

National Construction Code (NCC)

- 3.1 In the opinion of BRANZ, E2 Redway Flashings, 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 NCC:

NCC 2022 Volume One – Building Code of Australia

Part F1 – SURFACE WATER MANAGEMENT, RISING DAMP AND EXTERNAL WATERPROOFING:

Performance Requirement F3P1. E2 Redway Flashings contributes to meeting this requirement. See Paragraphs 11.1 and 11.2.

NCC 2022 Volume Two – Building Code of Australia

Part H2 – DAMP AND WEATHERPROOFING: Performance Requirement H2P2. E2 Redway Flashings contributes to meeting this requirement. See Paragraphs 11.1 and 11.2.

Technical Specification

4.1 E2 Redway Flashings are extruded from uPVC plastic by Masons NZ Ltd. All E2 Redway Flashing profiles are supplied in 2.7 m lengths.

4.2 The E2 Redway Flashings covered by this Appraisal are:

Product Code	Description
RDCC15	15 mm Flat Panel Cavity Closer
RDCC19	19 mm Flat Panel Cavity Closer
RDCC21	21 mm Flat Panel Cavity Closer
RDCC40	40 mm Flat Panel Cavity Closer
RDCC45	45 mm Flat Panel Cavity Closer
RDCC50	50 mm Flat Panel Cavity Closer
RDTV20	20 mm Top Vent Cavity Closer
RDWBC25	25 mm Weatherboard Cavity Closer
RDWBC30	30 mm Weatherboard Cavity Closer
RDWBC33	33 mm Weatherboard Cavity Closer
RDWBC35	35 mm Weatherboard Cavity Closer
RDCSE30	Cavity Stop End for Weatherboard Closer
RDCS47	Weatherboard Cant Strip [Starter]
RDWBJ40	40 mm Weatherboard Jamb
RDCS55	55 x 55 mm Internal/External Corner Flashing
RDCS85	85 x 85 mm Internal/External Corner Flashing
RDCS105	105 x 105 mm Internal/External Corner Flashing
RDFB40	40 mm Flat Back Flashing
RDFB135	135 mm Flat Back Flashing
RDFB160	160 mm Flat Back Flashing
RDBKF45	Brick Kickout Flashing
RDCNS100/42	50 x 42 x 50 mm Cavity to Non-Cavity Flashing
RDCNS150	50 x 19 x 100 mm Cavity to Non-Cavity Flashing
RDCNS100	50 x 19 x 50 mm Cavity to Non-Cavity Flashing

Handling and Storage

5.1 Handling and storage of all materials supplied by Masons NZ Ltd, whether on-site or off-site, are under the control of the installer. E2 Redway Flashings must be protected from physical damage and must be stored in clean, dry conditions.

Technical Literature

- 6.1 Refer to the Technical Literature Index on the Appraisals listing on the BRANZ website for details of the current Technical Literature for E2 Redway Flashings.
- 6.2 The Technical Literature must be read in conjunction with this Appraisal. 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 E2 Redway Flashings are a range of back flashings for use on walls of buildings. They are designed for use as a secondary line of defence to assist in the weathertightness of wall cladding and window systems by providing a direct path for any water infiltration to be directed back out to the external face of the cladding. When paired with suitable cladding types, E2 Redway Flashings will contribute to the prevention of the ingress of moisture and vermin into buildings.
- 7.2 E2 Redway Flashings must not be exposed to the weather or ultraviolet (UV) light for a total of more than 90 days before being covered by the wall cladding.
- 7.3 Where a proprietary cladding proprietor specifies a specific back flashing as part of their system, permission must be obtained from the cladding proprietor before the flashing system is substituted with E2 Redway Flashings.
- 7.4 Where E2 Redway Flashings are used in situations not covered by this Appraisal (refer to Paragraph 2.1), designers must detail the junction between the E2 Redway Flashings and the cladding to meet their own requirements and the performance requirements of the NCC. Details not included within the Technical Literature have not been assessed and are outside the scope of this Appraisal.

Durability

Serviceable life

- 8.1 Provided they are not exposed to the weather or UV light for a total of more than 90 days, and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather-resistant, E2 Redway Flashings are expected to have a serviceable life equal to that of the cladding.

Maintenance

- 8.2 No maintenance is required for E2 Redway Flashings. Annual inspections must be made to ensure that all aspects of the cladding system, aluminium joinery and any sealed joints remain in a weathertight condition and water cannot penetrate the cladding. Any damaged areas or areas showing signs of deterioration which would allow water ingress must be repaired immediately.

Heating Appliances, Fireplaces, Chimneys and Flues

- 9.1 E2 Redway Flashings have not been assessed for construction associated with heating appliances and must not be used as such.

Bushfire Prone Areas

- 10.1 In bushfire prone areas, the building designer is responsible for determining the compliance requirements in accordance with AS 3959.

Surface Water Management, Rising Damp and External Waterproofing

- 11.1 E2 Redway Flashings when installed in accordance with this Appraisal and the Technical Literature assist in preventing the penetration of moisture that could cause undue dampness or deterioration of building elements, unhealthy or dangerous conditions, or loss of amenity for occupants.
- 11.2 The details given in the Technical Literature for weather sealing are based on the design principle of having a first and second line of defence against moisture entry for all joints, penetrations and junctions. The ingress of moisture must be excluded by detailing flashings and wall interfaces appropriately. Weathertightness details that are developed by the designer are outside the scope of this Appraisal and are the responsibility of the designer for compliance with the NCC.

Installation Information

Installation Skill Level Requirements

- 12.1 Installation of E2 Redway Flashings must be completed by, or under the supervision of tradespersons with an understanding of weathertightness system detailing, in accordance with instructions given within the E2 Redway Flashings Technical Literature and this Appraisal.

E2 Redway Flashings Installation

- 13.1 E2 Redway Flashings can be cut to length on-site. Flashings must be installed in a continuous length where possible, but to avoid wastage, the back flashings can be lapped 100 mm. The direction of the lap must ensure that water is shed to the outer face of the flashing.
- 13.2 E2 Redway Flashings must be used and installed in conjunction with the selected cladding system in accordance with the installation methods of the proprietary cladding system proprietor.

Basis of Appraisal

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

- 14.1 BRANZ expert opinion on NCC Damp and Weatherproofing compliance for E2 Redway Flashings was based on evaluation of all details within the scope and as stated within this Appraisal. The details contained within the Technical Literature have been reviewed, and an opinion has been given by BRANZ technical experts that the back flashings will meet the performance levels of the NCC for Damp and Weatherproofing.
- 14.2 The practicability of installation of E2 Redway Flashings has been assessed by BRANZ.
- 14.3 The Technical Literature for E2 Redway Flashings has been examined by BRANZ and found to be satisfactory.

Investigations

- 15.1 An assessment was made of the durability of E2 Redway Flashings by BRANZ experts.
- 15.2 Site visits have been carried out by BRANZ to assess fit for purpose and the practicability of installation.
- 15.3 Weathertightness detailing of the E2 Redway Flashings has been assessed by BRANZ and found to be satisfactory.

Quality

- 16.1 The manufacture of E2 Redway Flashings has not been examined by BRANZ, but details regarding the quality and composition of the materials used were obtained by BRANZ and found to be satisfactory. BRANZ undertakes an ongoing review of product quality on an inwards goods basis.
- 16.2 The quality of materials, components and accessories supplied to the market is the responsibility of Masons NZ Ltd.
- 16.3 Quality on-site is the responsibility of the installer.
- 16.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of the framing systems, wall underlays, cavity battens and cladding system in accordance with the instructions of the designer.
- 16.5 Building owners are responsible for the maintenance of the cladding system in accordance with the instructions of cladding manufacturer and designer.

Sources of Information

- AS 2047:2014 Windows in buildings – Selection and Installation.
- AS 3959:2009 Construction of buildings in bushfire-prone areas.
- National Construction Code 2022, Australian Building Codes Board.



In the opinion of BRANZ, **E2 Redway Flashings** are fit for purpose and will comply with the Building Code to the extent specified in this Appraisal provided they are used, designed, installed and maintained as set out in this Appraisal.

The Appraisal is issued only to **Masons 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. **Masons 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 **Masons 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 **Masons NZ Ltd** or any third party.

For BRANZ



Claire Falck
Chief Executive
Date of Issue:
29 July 2024