



**BRANZ Appraised**

Appraisal No.716 [2011]

BRANZ Appraisals

Technical Assessments of products  
for building and construction

**BRANZ  
APPRAISAL  
No. 716 (2011)**

**MASONS BARRICADE  
FLASHING TAPE**

Masons Plastabrick Ltd  
PO Box 300 771  
Albany  
Auckland

Tel: 09 414 7551  
Fax: 09 414 7553



**BRANZ**

**BRANZ Limited**  
Private Bag 50 908  
Porirua City  
New Zealand  
Tel: +64 4 237 1170  
Fax: +64 4 237 1171  
www.branz.co.nz



## Product

1.1 Masons Barricade Tape is a flexible flashing tape for use around framed joinery openings as a secondary weather resistant barrier.

1.2 The system is installed into and around the framed joinery opening over the building underlay and exposed frame to cover both the face and edge of the opening framing. Masons Barricade Tape is also used at joinery heads to seal flashing upstands to the building underlay.



## Scope

2.1 Masons Barricade Tape has been appraised as a flexible flashing system for use around window and door joinery openings for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- with wall cladding systems complying with NZBC Acceptable Solution E2/AS1 or a valid BRANZ Appraisal that specifies a flexible flashing system; and,
- with building underlays compatible with the flashing tape; and,
- situated in NZS 3604 Building Wind Zones up to, and including, 'Very High'.

2.2 Masons Barricade Tape has also been appraised as a flexible flashing system for use around window and door joinery openings for steel framed buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, with regards to building height and floor plan area; and,
- constructed with steel framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/AS1, Table 2; and,
- with wall cladding systems covered by a valid BRANZ Appraisal that specifies a flexible flashing system; and,
- with building underlays compatible with the flashing tape and steel frame; and,
- situated in NZS 3604 Building Wind Zones up to, and including, 'Very High'.

## Building Regulations

### New Zealand Building Code (NZBC)

**3.1** In the opinion of BRANZ, Masons Barricade Tape, 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. Masons Barricade Tape meets these requirements. See Paragraphs 8.1 and 8.2.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. Masons Barricade Tape contributes to meeting this requirement. See Paragraphs 7.1 - 7.4 and 11.1.

**Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Masons Barricade Tape meets this requirement and will not present a health hazard to people.

**3.2** This is an Appraisal of an **Alternative Solution** in terms of New Zealand Building Code compliance. See Paragraph 7.1.

## Technical Specification

**4.1** System components and accessories supplied by Masons Plastabrick Ltd are:

- Masons Barricade Tape is an aluminium faced, bituminous modified, self adhesive tape with a polyethylene release backing paper. The tape is supplied in rolls 200, 150 and 50 mm wide x 30 m long and 150 and 50 mm wide x 10 m long. The rolls are wrapped in clear polythene film.

### Handling and Storage

**5.1** Handling and storage of all materials supplied by Masons Plastabrick Ltd, whether on or off site, is under the control of the installer. Masons Barricade Tape must be protected from damage and weather. Rolls must be stored under cover, in clean, dry conditions away from direct exposure to sunlight.

## Technical Literature

**6.1** Refer to the Appraisals listing on the BRANZ website for details of the current Technical Literature for the Masons Barricade Tape. 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** Masons Barricade Tape meets the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.5(b). Refer to the Technical Literature for details of the building underlays that are compatible with the system. The installation method for Masons Barricade Tape is an alternative solution to the installation method shown within NZBC Acceptable Solution E2/AS1, Figure 72.

**7.2** The use of flexible flashing systems around window and door joinery openings is critical to assist the overall weathertightness performance of window and door joinery installations.

**7.3** Masons Barricade Tape is designed to prevent air leakage and water penetration around window and door openings at framing junctions (e.g. at the sill trimmer and opening stud junction), and to keep any water that gets past the cladding, or through the joinery, from direct contact with the framing timber.

**7.4** Masons Barricade Tape is not designed to overcome poor detailing and workmanship of the window or door joinery installation. The system must not be considered in isolation, but be considered as part of the wall cladding system. Masons Barricade Tape is designed to be used in conjunction with air seals and joinery flashing systems, not as a substitute.

**7.5** When the Masons Barricade Tape is used in conjunction with LOSP (light organic solvent preservative) treated timber, the solvent from the timber treatment must be allowed to evaporate (generally at least one week) prior to the installation of the system.

### Durability

**8.1** Assessment of durability to meet the NZBC is based on difficulty of access and replacement, and the ability to detect failure of the Masons Barricade Tape both during normal use and maintenance of the building.

### Serviceable Life

**8.2** Provided it is not exposed to the weather or ultra-violet 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, Masons Barricade Tape is expected to have a serviceable life equal to that of the cladding.

### Maintenance

**9.1** No maintenance is required for Masons Barricade Tape. Regular checks, at least annually, must be made of the junctions between the joinery and wall cladding to ensure that they are maintained weathertight and that the primary means of weather resistance for the junction e.g. flashing, sealant, etc continues to perform its function, to ensure that water will not penetrate the cladding.

### Outbreak of Fire

**10.1** Masons Barricade Tape must be separated from chimneys and flues in accordance with the requirements of NZBC Acceptable Solution C/AS1 Part 9 for the protection of combustible materials.

### External Moisture

**11.1** Where a cladding manufacturer specifies the use of generic flashing tapes around window and door joinery openings at framing junctions as part of their system, or they specify the use of flexible flashing tapes that comply with NZBC E2/AS1, Paragraph 9.1.5(b), Masons Barricade Tape may be used.

## Installation Information

### Installation Skill Level Requirements

**12.1** Installation of the Masons Barricade Tape must be completed by tradespersons with an understanding of flexible flashing tape systems, in accordance with instructions given within the Masons Barricade Tape Technical Literature and this Appraisal.

## General

13.1 The selected building underlay must be installed in accordance with the manufacturer's instructions, and must completely cover the joinery opening. The underlay is then cut on a 45° angle away from each corner of the opening so the flaps can be folded into the opening and secured to the interior face of the timber framing.

13.2 Before the Masons Barricade Tape is applied, the substrate surfaces must be clean, dry and free from any surface contaminants such as dust and grease that may cause loss of adhesion.

13.3 Cut a 150 x 150 mm square of Barricade tape, and then cut the square into two triangle pieces (corner guards).

13.4 Install the corner guards on a diagonal over the face of the building underlay at the bottom corners of the joinery opening, leaving a 40 mm apex, which is folded into the opening to seal the corner junction.

13.5 A length of Masons Barricade Tape must then be cut to the length of the sill plus 400 mm. The tape is installed flush with the interior face of the opening and is applied along the entire length of the sill and 200 mm up each jamb. The overhanging tape is cut at the corner of the opening to allow the tape to be folded onto the face of the building underlay. Ensure that adequate adhesion of the tape is achieved and that the tape is installed tight into the sill/jamb junction.

13.6 A 400 mm length of Masons Barricade Tape must be installed 200 mm down the jamb and 200 mm along the lintel at each of the top corners of the window or door joinery opening. A 50 mm wide x 100 mm long sealing tape 'butterfly' must be installed at 45° across the corner of the head/jamb junction overlapping the corner to create a seal at the corner junction.

13.7 Masons Barricade Tape must not be stretched. To avoid wastage, the tape can be lapped 100 mm minimum onto itself without reducing the performance of the Masons Barricade Tape.

13.8 If the Masons Barricade Tape is exposed to the weather or UV light for more than 30 days, then it must be replaced with new material.

### Installation Temperature

13.9 The Masons Barricade Tape must not be installed at temperatures of less than 5°C, however care is required to ensure adhesion is still able to be achieved when the temperature is less than 10°C.

### Inspections

13.10 The Technical Literature must be referred to during the inspection of Masons Barricade Tape installations.

## Other Investigations

15.1 An assessment was made of the durability of the Masons Barricade Tape by BRANZ technical experts.

15.2 Site inspections were carried out by BRANZ to examine the practicability of installation.

15.3 The Technical Literature has been reviewed by BRANZ and found to be satisfactory.

## Quality

16.1 The manufacture of the Masons Barricade Tape has not been examined by BRANZ, but details of the quality and composition of the materials used were obtained and found to be satisfactory.

16.2 The quality of supply to the market is the responsibility of Masons Plastabrick Ltd.

16.3 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and building underlays in accordance with the instructions of the designer.

16.4 The quality of installation, handling and storage on site is the responsibility of the installer in accordance with the instructions of Masons Plastabrick Ltd.

## Sources of Information

- ICC Evaluation Service, Inc, AC148 Acceptable Criteria for Flexible Flashing Materials, July 2001.
- NZS 3604: 1999 Timber framed buildings.
- NZS 3604: 2011 Timber-framed buildings.
- Compliance Document for the New Zealand Building Code External Moisture Clause E2, Department of Building and Housing, Third Edition July 2005.
- New Zealand Building Code Handbook, Department of Building and Housing, Third Edition May 2007.
- The Building Regulations 1992 up to, and including, August 2008 amendment.

## Basis of Appraisal

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

## Tests

14.1 Testing of Masons Barricade Tape has been completed by BRANZ to the requirements of ICC Evaluation Service Acceptance Criteria for Flashing Materials AC148. The adhesion of Masons Barricade Tape to black bituminous Kraft building paper complying with the requirements of NZBC Acceptable Solution E2/AS1, Table 23 and selected other synthetic building underlays has been tested and found to be satisfactory.



**BRANZ**

In the opinion of BRANZ, **Masons Barricade Flashing Tape** 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 **Masons Plastabrick 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 Plastabrick 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 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 **Masons Plastabrick 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 Plastabrick Ltd** or any third party.

For BRANZ

P Burghout  
Chief Executive

Date of issue: 21 February 2011