



## BRANZ Appraised

Appraisal No. 947 [2017]

## ALUBAND XTREME FLASHING TAPE



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### BRANZ Appraisals

Technical Assessments of products for building and construction.



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## Product

- 1.1 Aluband XTREME Flashing Tape is a flexible flashing tape system for use around framed joinery openings in conjunction with the optional Thermakraft Corner Moulded Piece.
- 1.2 The system is installed into and around the framed joinery opening over the wall underlay and exposed frame to cover both the face and edge of the opening framing as a secondary weather resistant barrier. Aluband XTREME Flashing Tape is also used at joinery heads to seal flashing upstands to the wall underlay.

## Scope

- 2.1 Aluband XTREME Flashing Tape has been appraised as a flexible flashing system for use around window and door joinery openings for buildings within the following scope:
  - constructed with timber framing in accordance with the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; or,
  - constructed with steel framing subject to specific engineering design with building height and floor plan area scope limitations in accordance with NZBC Acceptable Solution E2/AS1; 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 flexible wall underlays compatible with the flashing tape and complying with the NZBC; 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, Aluband XTREME Flashing 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. Aluband XTREME Flashing Tape meets these requirements. See Paragraphs 8.1 and 8.2.

**Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. Aluband XTREME Flashing Tape contributes to meeting this requirement. See Paragraphs 7.1 - 7.6 and 11.1.

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



## Technical Specification

- 4.1 System components and accessories supplied by Thermakraft Limited are:
- **Aluband XTREME Flashing Tape** is a self-adhering flexible flashing tape for use around window and door penetration openings. It is coloured grey on the top surface with a white release backing liner. The tape is available in rolls 75, 150 and 200 mm wide x 25 m long. The rolls are supplied in cartons.
  - **The Thermakraft Corner Moulded Piece** is made from inert polyethylene and is coloured orange. It is used in conjunction with the Aluband XTREME Flashing Tape and wall underlays as part of the Aluband XTREME Flashing Tape system.
  - **The Thermakraft Tool** is used to ensure proper adhesion of the Aluband XTREME Flashing Tape and to achieve a tight fit into corners.
- 4.2 Accessories used with the system which are supplied by the installer are:
- **Thermakraft Corner Moulded Piece fixings** - staples, clouts or screws to attach the corner mould to the framing prior to the installation of the Aluband XTREME Flashing Tape.

## Handling and Storage

- 5.1 Handling and storage of all materials supplied by Thermakraft Limited, whether on or off site, is under the control of the installer. Aluband XTREME Flashing Tape and accessories 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 Aluband XTREME Flashing 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 Aluband XTREME Flashing Tape meets the requirements of AC148: 2001 which is an alternative solution to the version of AC148 referenced by NZBC Acceptable Solution E2/AS1, Paragraph 9.1.5 [b]. Two layers of Aluband XTREME Flashing Tape must be installed on the horizontal sill surface [a single layer is used in all other locations]. The installation method for Aluband XTREME Flashing Tape is an alternative solution to the installation method shown within NZBC Acceptable Solution E2/AS1, Figures 72A and 72B.
- 7.2 Aluband XTREME Flashing Tape must not be exposed to the weather or ultra-violet light for longer than the exposure period stated in the relevant wall underlay Appraisal. A maximum of 90 days exposure applies to the Aluband XTREME Flashing Tape.
- 7.3 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.
- 7.4 Aluband XTREME Flashing Tape is suitable for use over flexible wall underlays compatible with the flashing tape in NZS 3604 Wind Zones up to and including Extra High. In the Extra High Wind Zone, the flexible underlay must be installed over a rigid underlay complying with NZBC Acceptable Solution E2/AS1, Table 23.
- 7.5 Aluband XTREME Flashing 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.



- 7.6 Aluband XTREME Flashing 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. Aluband XTREME Flashing Tape is designed to be used in conjunction with air seals and joinery flashing systems, not as a substitute.
- 7.7 When Aluband XTREME Flashing 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 Aluband XTREME Flashing Tape both during normal use and maintenance of the building.

### Serviceable Life

- 8.2 Provided the selected wall underlay is not exposed to the weather or ultra-violet light for longer than stated in the relevant Appraisal, [a maximum of 90 days applies to the Aluband XTREME Flashing Tape], and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather resistant, Aluband XTREME Flashing Tape is expected to have a serviceable life equal to that of the cladding.

### Maintenance

- 9.1 No maintenance is required for Aluband XTREME Flashing 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.

### Prevention of Fire Occurring

- 10.1 Aluband XTREME Flashing Tape must be separated from fireplaces, heating appliances, chimneys and flues in accordance with the requirements of NZBC Acceptable Solutions C/AS1 to C/AS6, Paragraph 7.5.9 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), Aluband XTREME Flashing Tape may be used.

## Installation Information

### Installation Skill Level Requirements

- 12.1 Installation of Aluband XTREME Flashing Tape must be completed by, or under the supervision of a Licensed Building Practitioner with the relevant Licence Class, in accordance with the instructions given within the Aluband XTREME Flashing Tape Technical Literature and this Appraisal.

### General

- 13.1 The selected wall 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 Aluband XTREME Flashing 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 When being used, fit a Thermakraft Corner Moulded Piece into each of the bottom corners to create a seal at the corner junction. The corner piece must be fixed to the framing with staples, clouts or screws.



### **Sill/Jamb**

- 13.4 A length of 150 or 200 mm wide Aluband XTREME Flashing Tape must 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. The Thermakraft Tool must be used to ensure that adequate adhesion of the tape is achieved and that the tape is installed tight into the sill/jamb junction.
- 13.5 When a Thermakraft Corner Moulded Piece is not being used, a 75 mm wide x 100 mm long sealing tape 'butterfly' must be installed at 45° across the corner of the sill/jamb junction, overlapping the corner by 3 mm to create a seal at the corner junction.

### **Sill Tape**

- 13.6 A second layer of 75 mm wide Aluband XTREME Flashing Tape must then be installed along the entire length of the sill. The tape is installed flush with the exterior face of the opening. This is a mandatory requirement for horizontal surfaces to ensure nail penetrations self-seal.

### **Jamb/Head**

- 13.7 A 400 mm length of Aluband XTREME Flashing 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 75 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 by 3 mm to create a seal at the corner junction.
- 13.8 Aluband XTREME Flashing Tape must not be stretched. To avoid wastage, the tape can be lapped 100 mm minimum onto itself without reducing the performance of the Aluband XTREME Flashing Tape system.
- 13.9 If the Aluband XTREME Flashing Tape is exposed to the weather or UV light for more than 90 days, then it must be replaced with new material.

### **Installation Temperature**

- 13.10 Aluband XTREME Flashing Tape must not be installed at temperatures of less than -10°C. Aluband XTREME Flashing Tape can withstand temperatures of -40°C to +80°C in service.

### **Inspections**

- 13.11 The Technical Literature must be referred to during the inspection of Aluband XTREME Flashing Tape installations.

## **Basis of Appraisal**

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

### **Tests**

- 14.1 Testing of Aluband XTREME Flashing Tape has been completed by BRANZ to the requirements of ICC Evaluation Service Acceptance Criteria for Flashing Materials AC148:2001. The adhesion of Aluband XTREME Flashing Tape to black bituminous Kraft building paper complying with the requirements of NZBC Acceptable Solution E2/AS1, Table 23 and selected other synthetic wall underlays has been tested and found to be satisfactory.

### **Other Investigations**

- 15.1 An assessment was made of the durability of Aluband XTREME Flashing 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 Aluband XTREME Flashing 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. BRANZ undertakes an ongoing review of product quality on an inwards goods basis.
- 16.2 The quality of supply to the market is the responsibility of Thermakraft Limited.
- 16.3 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of framing systems and wall 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 Thermakraft Limited.

### Sources of Information

- ICC Evaluation Service, Inc, AC148 Acceptable Criteria for Flexible Flashing Materials, July 2001.
- NZS 3604: 2011 Timber-framed buildings.
- Acceptable Solutions and Verification Methods for New Zealand Building Code External Moisture Clause E2, Ministry of Business, Innovation and Employment, Third Edition July 2005 [Amendment 7, 01 January 2017].
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.



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08 August 2017

ALUBAND XTREME  
FLASHING TAPE



In the opinion of BRANZ, **Aluband XTREME 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 **Thermakraft 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. **Thermakraft 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 **Thermakraft 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 **Thermakraft Limited** or any third party.

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For BRANZ

**Chelydra Percy**

Chief Executive

Date of Issue:

08 August 2017