



## BRANZ Appraised

Appraisal No. 611 [2011]

## JAMES HARDIE RIGID AIR BARRIERS

Appraisal No. 611 (2011)

Amended 13 March 2019.



### BRANZ Appraisals

Technical Assessments of products  
for building and construction.



#### James Hardie New Zealand Limited

PO Box 12 070  
Penrose  
Auckland

Tel: 0800 808 868

Fax: 0800 808 988

Web: [www.jameshardie.co.nz](http://www.jameshardie.co.nz)



#### BRANZ

1222 Moonshine Rd,  
RD1, Porirua 5381  
Private Bag 50 908  
Porirua 5240,  
New Zealand  
Tel: 04 237 1170  
[branz.co.nz](http://branz.co.nz)



## Product

- 1.1 James Hardie Rigid Air Barriers are a range of rigid wall underlay materials including RAB™ Board and HomeRAB™ Pre-Cladding. They are sealed fibre cement sheets designed for use as rigid wall underlay behind wall cladding systems. HomeRAB™ Pre-Cladding and RAB™ Board are manufactured using a medium density fibre cement formulation.

## Scope

- 2.1 HomeRAB™ Pre-Cladding has been appraised for use as a rigid wall underlay and temporary weather-protecting sheathing on timber framed buildings within the following scope:
  - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
  - with absorbent wall claddings directly fixed to framing; and,
  - with non-absorbent wall claddings directly fixed to framing with a flexible wall underlay over the HomeRAB™ Pre-Cladding; and,
  - with absorbent and non-absorbent wall claddings installed over an 18 mm minimum drained cavity; and,
  - with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1; and,
  - situated in NZS 3604 Wind Zones up to, and including Very High.
- 2.2 RAB™ Board has been appraised for use as a rigid wall underlay and temporary weather-protecting sheathing on timber framed buildings within the following scope:
  - the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
  - Importance level I to V buildings as defined in AS/NZS 1170; and,
  - constructed with timber framing, or timber frame infill complying with the NZBC; and,
  - with absorbent wall claddings directly fixed to framing; and,
  - with non-absorbent wall claddings directly fixed to framing with a flexible wall underlay over the RAB™ Board; and,
  - with absorbent and non-absorbent wall claddings installed over an 18 mm minimum drained cavity; and,
  - with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1; and,
  - when used in conjunction with wall cladding systems subjected to maximum wind pressures for structural and weathertightness design of 1.0 kPa Serviceability Limit State (SLS) and 1.5 kPa Ultimate Limit State (ULS) where studs are at maximum 600mm centres, and 3.0 kPa SLS and 4.5 kPa ULS where studs are at maximum 400 mm centres.



[Note: James Hardie Rigid Air Barriers can be used to provide structural bracing. RAB™ Board can also be used in fire resistance rated construction. These aspects have not been assessed by this Appraisal and are outside its scope.]

## Building Regulations

### New Zealand Building Code [NZBC]

- 3.1 In the opinion of BRANZ, James Hardie Rigid Air Barriers, if used, designed, 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:
- 3.2 **Clause B1 STRUCTURE:** Performance B1.3.1, B1.3.2 and B1.3.4. James Hardie Rigid Air Barriers meet the requirements for loads arising from earthquake and wind [i.e. B1.3.3 (f) and (h)]. See Paragraphs 8.1 - 8.7.
- 3.3 **Clause B2 DURABILITY:** Performance B2.3.1[a], not less than 50 years, B2.3.1[b], 15 years and B2.3.2. James Hardie Rigid Air Barriers meet these requirements. See Paragraphs 9.1 - 9.3.
- 3.4 **Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. When used as part of the cladding system, James Hardie Rigid Air Barriers will contribute to meeting this requirement. See Paragraphs 12.1 and 12.3.
- 3.2 **Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. James Hardie Rigid Air Barriers meet this requirement and will not present a health hazard to people.

## Technical Specification

- 4.1 System components and accessories for James Hardie Rigid Air Barriers, which are supplied by James Hardie New Zealand Limited are:

### HomeRAB™ Pre-Cladding

- HomeRAB™ Pre-Cladding is a 4.5 mm thick fibre cement sheet, manufactured from a cellulose fibre cement formulation. It is produced in sheet material form with 'HomeRAB' printed on the front face. The sheets are formed, cut to length, and then cured by high pressure autoclaving. The sheet is coated on the front face and four edges with a green tinted water repellent sealer.
- HomeRAB™ Pre-Cladding is available in sizes of 1200 mm wide and 2450, 2750 and 3000 mm long. It is manufactured to conform to the requirements of AS/NZS 2908.2.

### RAB™ Board

- RAB™ Board are 6.0 mm or 9.0 mm thick fibre cement sheets, manufactured from a cellulose fibre cement formulation. It is produced in sheet material form. The sheets are formed, cut to length, and then cured by high pressure autoclaving. The sheet is coated on the front face and four edges with a green tinted water repellent sealer.
- RAB™ Board is available in sizes of 1200 mm wide and 2450 and 3000 mm long for 6.0 mm sheets, or 1200 mm wide and 2750 and 3000 mm long for 9.0 mm sheets. It is manufactured to conform to the requirements of AS/NZS 2908.2.

### Accessories

- HomeRAB™ Pre-Cladding and RAB™ Board horizontal flashings - uPVC, available in 3000 mm lengths.
- 4.2 System components and accessories for James Hardie Rigid Air Barriers, which are supplied by the building contractor are:
    - Joint sealing tape and flexible sill and jamb flashing tape system - 3M™ All Weather Flashing Tape 8067 [3M New Zealand Ltd] and SUPER-STICK Flexible Flashing Tape [Marshall Innovations Ltd].
    - HomeRAB™ Pre-Cladding and RAB™ Board sheet fixing - gun driven 40 mm or 50 x 2.8 mm hot-dip galvanised or ring shank stainless steel round head nails, or hand driven 40 x 2.8 mm hot-dip galvanised or ring shank stainless steel HardieFlex™ nails. [Note: Hot-dip galvanising must comply with AS/NZS 4680 and stainless steel must be Grade 304 or 316.]



## Handling and Storage

- 5.1 Handling and storage of all materials supplied by James Hardie New Zealand Limited or the building contractor, whether on site or off site, is under the control of the building contractor. James Hardie Rigid Air Barriers must be stacked flat, off the ground and supported on a level platform. They must be kept dry at all times either by storing under cover or providing waterproof covers to the stack. Care must be taken to avoid damage to edges, ends and surfaces. The sheathing must always be carried on edge. uPVC flashings and jointers must be protected from direct sunlight and physical damage, and should be stored flat and under cover.
- 5.2 Other accessories must be stored so they are kept clean, dry and undamaged.

## Technical Literature

- 6.1 Refer to the Appraisals listing on the BRANZ website for details of the current Installation Manual for James Hardie Rigid Air Barriers. The Installation Manual must be read in conjunction with this Appraisal. All aspects of design, use, installation and maintenance contained in the Installation Manual and within the scope of this Appraisal must be followed.

## Design Information

### Framing

#### Timber Treatment

- 7.1 Timber wall framing behind James Hardie Rigid Air Barriers must be treated as required by NZBC Acceptable Solution B2/AS1.

#### Timber Framing

- 7.2 For HomeRAB™ Pre-Cladding installations, timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170. Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. In all cases studs must be at maximum 600 mm centres. Dwargs must be fitted flush between the studs at maximum 1200 mm centres. [Note: The timber framing must also be suitable for the selected wall cladding. Refer to the selected cladding system's Technical Literature for specific framing requirements.]
- 7.3 For RAB™ Board installations, timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170 considering local factors. In all cases studs must be at maximum 600 mm centres for buildings situated in wind pressures up to 1.5 kPa ULS, and at maximum 400 mm centres for buildings situated in wind pressures greater than 1.5 kPa ULS up to 4.5 kPa ULS. Dwargs must be fitted flush between the studs at maximum 1200 mm centres. [Note: The timber framing must also be suitable for the selected wall cladding. Refer to the selected cladding system's Technical Literature for specific framing requirements.]
- 7.4 Timber wall framing where James Hardie Rigid Air Barriers are joined must be 45 mm minimum finished width.

### James Hardie Rigid Air Barrier Set Out

- 7.5 James Hardie Rigid Air Barriers must be installed vertically. At the base of the wall, the sheet must hang below the bottom plate a minimum of 15 mm, up to a maximum of 40 mm, for concrete floors. Sheet overhang where used with timber floors must hang below timber subfloor members a minimum of 15 mm, up to a maximum of 40 mm.
- 7.6 In all cases, HomeRAB™ Pre-Cladding and RAB™ Board sheet edges must be supported and fixed to the wall framing.



## General

7.7 James Hardie Rigid Air Barriers are intended for use as rigid wall underlays fixed over timber framed walls in order to support wind pressures, and to act as a secondary barrier to wind-driven rain.

## Temporary Weather Protection

7.8 Commencing from installation, James Hardie Rigid Air Barriers must not be exposed to the weather for more than 180 days.

7.9 James Hardie Rigid Air Barriers may be used as a temporary weather protecting sheathing to allow the insulation and internal lining of the building to proceed before the wall cladding is installed. To achieve temporary weathertightness, all joints, internal and external corners of the James Hardie Rigid Air Barriers must be sealed, the roof cladding and soffit linings must be installed, the flexible sill and jamb flashing tape system must be installed around the window and door openings, and the window and door joinery must be installed complete with head flashings and airseals. The timber wall framing moisture content must not exceed that specified by the internal lining system supplier at the time of the insulation installation and internal lining application.

7.10 James Hardie Rigid Air Barriers are suitable for use under wall claddings as a rigid wall underlay as called up in NZBC Acceptable Solution E2/AS1, Table 23, except that non-absorbent claddings must not be installed directly over the James Hardie Rigid Air Barriers.

**Table 1: NZBC E2/AS1 Table 23 Requirements**

NZBC E2/AS1 Table 23 Rigid Wall Underlay Properties	Property Performance Requirement	James Hardie Rigid Air Barriers Actual Property Performance
Vapour Resistance	< 7 MN s/g	0.6 MN s/g
Water Resistance	> 20 mm	Pass

## Structure

### Mass

8.1 The mass of HomeRAB™ Pre-Cladding is approximately 6.5 kg/m<sup>2</sup> at equilibrium moisture content. The mass of 6.0 mm RAB™ Board is approximately 8.6 kg/m<sup>2</sup> at equilibrium moisture content. The mass of 9.0 mm RAB™ Board is approximately 13 kg/m<sup>2</sup> at equilibrium moisture content. This mass must be added to the selected wall cladding system mass when determining the overall wall cladding mass in terms of NZS 3604.

### Wind Zones

8.2 HomeRAB™ Pre-Cladding is suitable for use in all Wind Zones of NZS 3604, up to, and including, Very High. The sheets must be fixed at centres as specified in Table 2. The fixings must be positioned a minimum of 12 mm from all sheet edges, and a minimum of 50 mm horizontally and 75 mm vertically from sheet corners. The fastener heads must finish flush with the sheet surface.

**Table 2: HomeRAB™**

NZS 3604 Wind Zone	Framing Set Out	HomeRAB™ Pre-Cladding Nailing Centres to Studs, Plates and Dwargs
Low, Medium, High and Very High	Studs at 600 mm centres maximum and dwargs at 1200 mm centres	200 mm

- 8.3 RAB™ Board is suitable for use in design wind pressures up to and including 4.5 kPa ULS when used in conjunction with wall cladding systems able to resist the same face load pressures. The sheets must be fixed at centres as specified in Table 3. The fixings must be positioned a minimum of 12 mm from all sheet edges, and a minimum of 50 mm horizontally and 75 mm vertically from sheet corners. The fastener heads must finish flush with the sheet surface. Basis of Appraisal

**Table 3: RAB™ Board Fixing Centres**

Wind Pressure	Framing Set Out	RAB™ Board Nailing Centres to Studs, Plates and Dwargs
≤ 1.5 kPa ULS [NZS 3604 Wind Zone Very High]	Studs at 600 mm centres and dwargs at 1200 mm	200 mm
> 1.5 kPa ULS and ≤ 4.5 kPa ULS [NZS 3604 Wind Zone Extra High and above]	Studs at 400 mm centres and dwargs at 1200 mm	200 mm

### Top Plate Hold Down Connections

- 8.4 James Hardie Rigid Air Barriers can be used as an alternative to wire dog connectors to achieve a top plate connection capacity of 4.7 kN in accordance with Fixing Type B of NZS 3604 Table 8.18. To achieve the connection strength, the HomeRAB™ Pre-Cladding and RAB™ Board sheets must be fixed along the top edge into the top plate with 50 x 2.8 mm hot-dip galvanised or ring shank stainless steel round head nails, or hand driven 40 x 2.8 mm hot-dip galvanised or ring shank stainless steel HardieFlex™ nails at 75 mm centres. The fixings must be positioned a minimum of 20 mm from the sheet edge. The fastener heads must finish flush with the sheet surface. The remainder of the sheet is fixed in accordance with Table 2 or Table 3.

### Wall Cladding Fixing

- 8.5 The length of the selected wall cladding fixing must be increased by a minimum of the thickness of the James Hardie Rigid Air Barrier to maintain the face load strength of the wall cladding system.

### Bracing

- 8.6 HomeRAB™ Pre-Cladding and RAB™ Board can be used to provide structural bracing. This has not been assessed by this Appraisal and is outside its scope.

### Inter-storey Deflection

- 8.7 RAB™ Board is suitable to accommodate inter-storey deflections. When installed in accordance with the detail contained in the technical literature, RAB™ Board is capable of withstanding Serviceability Limit State [SLS] deflections up to height/180. For structures where greater inter-storey deflections are expected, a deflection head should be incorporated into design as detailed in the technical literature in conjunction with specific engineering design.

## Durability

- 9.1 James Hardie Rigid Air Barriers meet code compliance with NZBC Clause B2.3.1 (a), not less than 50 years when used where the cladding durability requirement or expected serviceable life is not less than 50 years, e.g. behind masonry veneer, and code compliance with NZBC Clause B2.3.1 (b), 15 years where the cladding durability requirement is 15 years.



### Serviceable Life

- 9.2 Provided they are not exposed to the weather or ultraviolet light for a total of more than 180 days, and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather resistant, James Hardie Rigid Air Barriers are expected to have a serviceable life of at least 50 years.
- 9.3 Areas of geothermal activity and coastal locations can be very corrosive to fasteners, especially coastal locations within distances of up to 500 metres of the sea including harbours, or 100 metres from tidal estuaries and sheltered inlets in some instances. These coastal locations are defined in NZS 3604: 2011 as Zone D. For the James Hardie Rigid Air Barriers when used as a rigid sheathing in Zone D they must be fixed with stainless steel fasteners. Fasteners outside Zone D may be hot dipped galvanised steel.

### Maintenance

- 10.1 James Hardie Rigid Air Barriers will not normally require maintenance. However, if damage occurs to the cladding or lining protecting the sheathing or to the sheathing itself, the repairs or replacement must be carried out to ensure the integrity of the rigid wall underlay.

### Prevention of Fire Occurring

- 11.1 James Hardie Rigid Air Barriers are considered a non-combustible material and need not be separated from heat sources such as fire places, heating appliances, flues and chimneys. However, when used in conjunction with, or attached to heat sensitive materials, the heat sensitive material must be separated from fireplaces, heating appliances, flues and chimneys in accordance with the requirements of Part 7 of NZBC Acceptable Solutions C/AS1 – C/AS6 and NZBC Verification Method C/VM1.

### External Moisture

- 12.1 James Hardie Rigid Air Barriers must be used behind claddings that meet the performance requirements of NZBC Clause E2.
- 12.2 James Hardie Rigid Air Barriers meet the performance requirements for a rigid wall underlay as called up in NZBC Acceptable Solution E2/AS1, Table 23, except that non-absorbent claddings must not be installed directly over the James Hardie Rigid Air Barriers.
- 12.2 James Hardie Rigid Air Barriers, when installed in accordance with the Installation Manual and this Appraisal, will assist in the total cladding system's compliance with NZBC Clause E2.

### Installation Information

#### Installation Skill Level Requirements

- 13.1 Installation must always be carried out in accordance with the James Hardie Rigid Air Barriers Installation Manual and this Appraisal, by or under the supervision of, a Licensed Building Practitioner [LBP] with the relevant Licence Class.

#### System Installation

- 14.1 James Hardie Rigid Air Barriers may be cut by scoring and snapping, hand guillotine, hand or power saw. Holes and cut-outs may be formed by drilling a number of holes around the perimeter of the opening required and tapping out the centre with a hammer, or by using a hole saw.
- 14.2 Sheets must be dry prior to installation. Cut edges that are left exposed must be sealed prior to installation.
- 14.3 Prior to fixing James Hardie Rigid Air Barriers, a check must be made to ensure all sheet edges will be supported by framing. At the base of the wall, the sheet must hang below the bottom plate by a minimum of 15 mm.

- 14.4 James Hardie Rigid Air Barriers must be fixed to the timber framing with 40 mm or 50 x 2.8 mm hot-dip galvanised or ring shank stainless steel round head nails, or hand driven 40 x 2.8 mm hot-dip galvanised or ring shank stainless steel HardieFlex™ nails. Refer to Table 2, Table 3 and Paragraph 8.4 for fixing centres and Paragraph 9.3 for material selection.
- 14.5 At vertical joints, James Hardie Rigid Air Barriers must be installed with a 2-3 mm gap between the sheet edges and must be supported over vertical framing. At horizontal joints between floor levels, James Hardie Rigid Air Barriers must be installed with a minimum 6 mm gap between the sheet edges and must be supported over horizontal framing. At inter-storey floor levels, James Hardie Rigid Air Barriers must not be fixed to inter-storey joists or blocking and must have a minimum 15 mm gap between the sheet edges at this point to allow for shrinkage of the framing. All horizontal joints must be flashed with a uPVC flashing.
- 14.6 Any damaged areas, such as holes or gaps around service penetrations, must be repaired. Damaged areas can be repaired by covering with joint sealing tape.

#### **Joint Sealing Tape Installation**

- 14.7 All vertical sheet joints, internal and external corners must be covered with 3M™ All Weather Flashing Tape 8067 or SUPER-STICK flexible flashing tape. The manufacturer's instructions regarding the application temperatures for the joint sealing tapes, and the requirements for the use of adhesive primer must be followed.
- 14.8 James Hardie Rigid Air Barriers must be cleaned of dust and other surface contaminants prior the application of the joint sealing tape to ensure adequate adhesion is achieved.

#### **Flexible Sill and Jamb Tape Installation**

- 14.9 The selected flexible sill and jamb tape flashing system must be installed in accordance with the tape manufacturer's instructions, except where varied by the James Hardie Rigid Air Barriers Installation Manual. Particular attention must be paid to the installation of the sill and jamb tapes around window and door joinery openings to ensure all exposed timber wall framing in the opening is protected.

#### **Inspections**

- 14.10 The Installation Manual must be referred to during the inspection of James Hardie Rigid Air Barriers installations. When the construction sequence is followed in accordance with Paragraph 7.10 and the Installation Manual, the BCA inspections for pre-cladding and pre-lining may be combined.

## **Health and Safety**

- 15.1 Cutting of James Hardie Rigid Air Barriers must be carried out in well ventilated areas, and a dust mask and eye protection must be worn.
- 15.2 When power tools are used for cutting, grinding or forming holes, health and safety measures as set out in the Installation Manual must be undertaken because of the amount of dust generated.
- 15.3 Safe use and handling procedures for James Hardie Rigid Air Barriers and the components that make up the cladding system are provided in the relevant manufacturer's Installation Manual.

## **Basis of Appraisal**

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

### **Tests**

- 16.1 Testing has been carried out by James Hardie Building Products to determine the face load pressure resistance of HomeRAB™ Pre-Cladding. Testing has also been carried out by James Hardie Building Products to determine the face load pressure resistance of RAB™ Board in conjunction with Titan Facade Panels. The testing was completed in a NATA Accredited laboratory and was observed by BRANZ. The test method and results have been reviewed by BRANZ and found to be satisfactory.



- 16.2 The resistance of James Hardie Rigid Air Barriers to water vapour transmission in accordance with AS/NZS 4200.1 and resistance to water penetration in accordance with AS/NZS 4201.4 has been completed by BRANZ.

## Other Investigations

- 17.1 Structural and durability opinions were given by BRANZ technical experts.
- 17.2 BRANZ expert opinion on NZBC E2 code compliance for James Hardie Rigid Air Barriers was based on evaluation of all details within the scope and as stated within this Appraisal. The details contained within the Installation Manual have been reviewed, and an opinion has been given by BRANZ technical experts that the system will meet the performance levels of Acceptable Solution E2/AS1 for rigid wall underlays.
- 17.3 The non-combustibility of James Hardie Rigid Air Barriers have been assessed by BRANZ technical experts.
- 17.4 The Installation Manual for James Hardie Rigid Air Barriers has been examined by BRANZ and found to be satisfactory.
- 17.5 The Installation Manual for James Hardie Rigid Air Barriers has been examined by BRANZ and found to be satisfactory.

## Quality

- 18.1 The manufacture of James Hardie Rigid Air Barriers has been examined by BRANZ, including methods adopted for quality control. Details regarding the composition of the materials used were obtained by BRANZ and found to be satisfactory.
- 18.2 The quality of materials, components and accessories supplied by James Hardie New Zealand Limited is the responsibility of James Hardie New Zealand Limited. The quality control system of James Hardie New Zealand Limited has been assessed and registered as meeting the requirements of ISO 9001: 2008 by Telarc SAI Limited.
- 18.3 Quality of installation on site of components and accessories supplied by James Hardie New Zealand Limited and the building contractor is the responsibility of the installer.
- 18.4 Designers are responsible for the building design, and building contractors are responsible for the quality of installation of the framing systems, uPVC flashings, joint seal tapes and flexible sill and jamb tape systems in accordance with the instructions of James Hardie New Zealand Limited.

## Sources of Information

- Sources of Information
- AS/NZS 1170: 2002 Structural design action - General principles.
- AS/NZS 2908.2: 2000 Cellulose-cement products - Flat sheet.
- AS/NZS 4200.1: 1994 Pliable building membranes and underlays - materials.
- AS/NZS 4201.4: 1994 Pliable building membranes and underlays - Methods of test - Resistance to water penetration.
- NZS 3602: 2003 Timber and wood-based products for use in building.
- NZS 3603: 1993 Timber Structures Standard.
- NZS 3604: 2011 Timber-framed buildings.
- Acceptable Solutions and Verification Methods for the 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.





## Amendments

### Amendment No. 1, 3 September 2013

This Appraisal has been amended to update clause changes as required by the introduction of NZBC Fire Clauses C1-C6 Protection from Fire and A3 Building Importance Levels.

### Amendment No. 2, 15 December 2014

This Appraisal has been amended to replace 3.5 mm thick HomeRAB® Preclad™ Lining with 4.5 mm thick HomeRAB® Pre-Cladding. The use of James Hardie Rigid Air Barriers as an alternative to the NZS 3604 top plate hold down connections has also been included.

### Amendment No. 3, 13 March 2019

This Appraisal has been amended to add 9.0 mm RAB Board sheets and to increase the construction exposure time to 180 days and inter-storey deflections, clarify non-combustibility of James Hardie Rigid Air Barriers.



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26 August 2011

JAMES HARDIE RIGID AIR  
BARRIERS



In the opinion of BRANZ, **James Hardie Rigid Air Barriers** 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 **James Hardie New Zealand**, 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. **James Hardie New Zealand:**
  - 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 **James Hardie New Zealand**.
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 **James Hardie New Zealand** or any third party.

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**For BRANZ**

**Chelydra Percy**

Chief Executive

Date of Issue:

26 August 2011