

# Hardie™ Mineral Insulation

Technical Supplement – November 2022

Accessory	Code
	<b>304904</b>

## 1. INSULATION

Hardie™ Mineral Insulation is used in James Hardie's fire rated system in accordance with the system specification. Hardie™ Mineral Insulation has been tested with James Hardie's fire rated systems and cannot be substituted with any other insulation material.

Also refer to clause H1 of the NZBC for further information on construction R-value requirements.

## 2. PHYSICAL PROPERTIES

- Size: 600 x 800 x 90mm - 2.4m<sup>2</sup> per bale.
- R-Value: 2.74m<sup>2</sup>K/W.
- Density: 80kg/m<sup>3</sup>.

## 3. APPLICATION

Fit the specified insulation tightly in all framing cavities against the flexible underlay. Always ensure that the flexible underlay is not pushed out of the framing plane as it will tend to block off the cavity ventilation/drainage when the cladding is fixed over cavity battens. Hardie™ Mineral Insulation is pre-cut 50mm bigger in length and width than the cavity size to ensure a tight friction fit in the cavity.

If the cavity to be insulated is smaller than the size of insulation supplied, the insulation may be cut on site to fit to size. Ensure that insulation is at least 50mm bigger in each direction than the size of frame cavity to be filled so that a tight friction fit is achieved.

## 4. SAFE WORKING PRACTICES

### Storage

Hardie™ Mineral Insulation should be stored in the packaging provided in a clean dry space where it will not get wet, knocked or damaged.

### Handling and safety

Protective clothing must be worn when handling this product.

### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high you are advised to modify processes or increase ventilation. Follow the Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres, published by the WorkSafe.

### Personal Protective Equipment

#### Eyes:



Avoid contact with eyes. Use safety glasses or goggles if irritant levels of fibres and dusts are present.

#### Skin:



Protective gloves and clothing should be worn when handling mineral insulation.

To prevent irritation which occurs by contact of the loose fibres with the skin, it is advisable to wear either disposable or single-use overalls or light weight nylon overalls complete with hoods when handling the insulation material. The overalls should be close fitting at the neck wrists and ankles to prevent problems of skin irritation, where overalls are to be laundered, they should be laundered in separate laundry facilities and not in the home.

## Respiratory:



In general use, a respirator is not likely to be required. A respirator should be used when airborne concentrations approach the WES, if there is airborne dust or fibres. It is recommended to use an half face air purifying respirator with a minimum of a P1 particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

## WES Additional Information

Formaldehyde is included in the above information, as traces of formaldehyde may be emitted from the product, especially immediately after removing the plastic packaging. The concentration of formaldehyde emissions has been tested by James Hardie New Zealand Limited and was found to be below the 8 hour workplace exposure standard.

Work Safe New Zealand Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres requires lightweight nylon overalls, gloves, appropriate eye protection and a respirator with a minimum of a class P1 filter. Handling the product as if it is fragile will greatly reduce the potential dust creation and loose fibres. A SDS is available by visiting [www.jameshardie.co.nz](http://www.jameshardie.co.nz) or Ask James Hardie™ on 0800 808 868.

## Cutting

A straight edge and stiff blade knife or similar will neatly cut this product with the minimum of dust creation.

## WARRANTY

James Hardie New Zealand Limited ("James Hardie") warrants for a period of 15 years from the date of purchase that the Hardie™ Mineral Insulation supplied by James Hardie will be free from defects due to defective factory workmanship or materials. Serviceable life is 50 years.

Nothing in this document shall exclude or modify any legal rights a customer may have under the Consumer Guarantees Act or otherwise which cannot be excluded or modified at law.

## CONDITIONS OF WARRANTY:

The warranty is strictly subject to the following conditions:

- a) James Hardie will not be liable for breach of warranty unless the claimant provides proof of purchase and makes a written claim either within 30 days after the defect would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation;
- b) this warranty is not transferable;
- c) the Hardie™ Mineral Insulation must be installed strictly in accordance with the relevant Fire and Acoustic fire rated system by James Hardie current at the time of installation and must be installed in conjunction with the components or products specified in the literature. Further, all other products,

including coating and jointing systems, applied to or used in conjunction with the Hardie™ Mineral Insulation must be applied or installed and maintained strictly in accordance with the relevant manufacturer's instructions and good trade practice;

- d) the project must be designed and constructed in strict compliance with all relevant provisions of the current New Zealand Building Code ("NZBC"), regulations and standards;
- e) the claimant's sole remedy for breach of warranty is (at James Hardie's option) that James Hardie will either supply replacement product, rectify the affected product or pay for the cost of the replacement or rectification of the affected product;
- f) James Hardie will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing James Hardie will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing, settlement or structural movement and/or movement of materials to which the Product is attached, incorrect design of the structure, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions, efflorescence or performance of paint/coatings applied to the Product, normal wear and tear, growth of mould, mildew, fungi, bacteria, or any organism on any Product surface or Product (whether on the exposed or unexposed surfaces);
- g) all warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law;
- h) if meeting a claim under this warranty involves re-coating of Products, there may be slight colour differences between the original and replacement Products due to the effects of weathering and variations in materials over time.

**Disclaimer:** The recommendations in James Hardie's literature are based on good building practice, but are not an exhaustive statement of all relevant information and are subject to conditions (c), (d), (f) and (g) above. James Hardie has tested/assessed the performance of the Hardie™ Mineral Insulation when installed in accordance with the Fire and Acoustic Design Manual by James Hardie, in accordance with the standards and verification methods required by the NZBC and those test results demonstrate the product complies with the performance criteria established by the NZBC. However, as the successful performance of the relevant system depends on numerous factors outside the control of James Hardie (e.g. quality of

workmanship and design) James Hardie shall not be liable for the recommendations made in its literature and the performance of the relevant system, including its suitability for any purpose or ability to satisfy the relevant provisions of the NZBC, regulations and standards, as it is the responsibility of the building designer to ensure that the details and recommendations provided in the relevant James Hardie installation manual are suitable for the intended project and that specific design is conducted where appropriate.