

# HardieFire™

## INSULATION



## technical data sheet

Australia  
October 2014

### INTRODUCTION

HardieFire™ insulation is specifically designed for use in fire applications with HardieSmart™ systems. Please refer to the current respective HardieSmart™ systems design guide for more information including installation and suitability.

### APPLICATIONS



### PRODUCT DESCRIPTION



A high density fire, acoustic and thermal insulation for use with HardieSmart™ wall systems. Available in 2 batt sizes to suit 90x45mm studs at 600mm and 450mm centres.

This product complies with AS4859.1 – Materials for the thermal insulation of buildings.

### CAUTION

**ELECTRIC CABLES AND EQUIPMENT PARTIALLY OR COMPLETELY SURROUNDED WITH BULK THERMAL INSULATION MAY OVERHEAT AND FAIL. FOR INFORMATION REGARDING THE INSTALLATION OF THERMAL INSULATION IN DWELLINGS, PLEASE REFER TO THE FOLLOWING AUSTRALIAN STANDARDS:**

- I. AS 3999.1992: Thermal Insulation of dwellings – Bulk Insulation, Installation requirements
- II. AS 3000: Electrical Installations – buildings, structures and premises

### BEFORE INSTALLATION

- You must turn the mains power 'Off' before entering work space. If in doubt, you must consult a licensed electrician.
- Care and safety measures must be followed when working in areas that contain live electrical wiring.
- Defective electrical cables, terminals or any other electrical wiring must be repaired by the relevant specialist prior to installation.
- Ensure workspace has adequate and ample ventilation. If working in confined spaces, it is recommended to use HEPA vacuum or other suitable dust extractors.
- Before entering workspace, complete a risk assessment inspection to identify hazards including but not limited to electrical, site access and ventilation.

HARDIEFIRE™ INSULATION		
PRODUCT	HARDIEFIRE™ INSULATION 560x1160x85mm BATT	HARDIEFIRE™ INSULATION 420x1160x85mm BATT
PRODUCT CODE	305790	305791
PACK SIZE	5 batts per pack	5 batts per pack
MASS (PER PACK)	22.1 kg approx.	16.6 kg approx.
COVERAGE (PER PACK)	3.6m <sup>2</sup>	2.7m <sup>2</sup>

\*All dimensions and masses are approximate and subject to manufacturing tolerances.

PHYSICAL PROPERTIES								
DENSITY (minimum)	80 kg/m <sup>3</sup>							
THERMAL RESISTANCE (ASTM C 518-10)	R2.5 m <sup>2</sup> .K/W							
COMBUSTIBILITY (AS 1530.1)	Non-combustible							
FIRE HAZARD PROPERTIES (AS 1530.3 – 1999)								
Ignitability Index	0							
Spread of Flame Index	0							
Heat Evolved Index	0							
Smoke Developed Index	1							
MICROBIAL GROWTH (ASTM C1338-08)	Pass (No growth)							
WATER VAPOUR TRANSMISSION (ASTM C 1104/C 1104M-00)	0.016% of volume absorbed							
SOUND ABSORPTION (AS ISO 11654-2002)	FREQUENCY (HZ)	125	250	500	1000	2000	4000	N.R.C
	PRACTICAL SOUND ABSORPTION COEFFICIENT, (α <sub>p</sub> )	0.65	1.00	1.00	1.00	1.00	1.00	1.05

### STORAGE AND HANDLING

HardieFire™ insulation should be stored in an internal dry area, out of direct sunlight and not exposed to chemicals. James Hardie products must not be installed during an electrical storm and it must be installed in a dry state to a dry surface and protected from weather during transport and storage. HardieFire™ Insulation has not been designed to withstand prolonged direct exposure to the exterior elements. Ensure that the insulation is completely dry prior to lining.

### SAFE WORKING PRACTICES

Keep exposure to a minimum and minimise quantities kept in work areas. Avoid contact with eyes. When handling and installing the HardieFire™ insulation, to prevent irritation ensure to wear:

- Safety goggles/glasses conforming to AS/NZS 1336,
- Protective clothing such as gloves and long sleeve shirts and trousers,
- P1 or P2 respirators.

For more information refer to the HardieFire™ insulation MSDS available at jameshardie.com.au and accel.com.au.

### SPECIFICATION NOTE

When specifying state the following:

Product Name	Batt size
HardieFire™ insulation.	1160 x 560 x 85 mm (for 600mm spaced timber studs, 45mm wide) 1160 x 420 x 85mm (for 450mm spaced timber studs, 35 or 45mm wide)

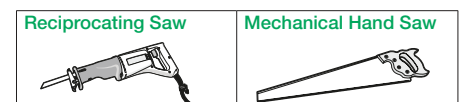
### INSTALLATION TIPS

- When placing HardieFire™ Insulation batts inside the wall stud bays, ensure a minimum 5mm compression in all sides is maintained.
- If cutting is required, please allow 5mm in addition to the required dimension to achieve above compression.

### CUTTING

It is recommended to cut outdoors. If cutting indoors, please ensure that workspace is properly ventilated or HEPA vacuums/dust extractors are used.

1. Position cutting station so wind will blow dust away from the user or others in working area.
2. Use one of the following methods based on the required cutting rate:



### DISPOSAL

Discard any waste pieces of HardieFire™ insulation in accordance to your local council guidelines. Dispose of the material in such a manner to prevent exposure and escape.

### PRODUCT WARRANTY

HardieFire™ insulation has a 10-year manufacturing warranty when used with HardieSmart™ systems. For terms and conditions of product warranty, refer to www.jameshardie.com.au or www.accel.com.au