



Certificate of Conformity

Certification Body:



SAI Global Certification Services Pty Limited

(ACN 108 716 669) Trading as "SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

Address: 680 George St, Sydney, NSW 2000

Website: www.saiglobal.com

Certificate Holder:



James Hardie Australia Pty Ltd
10 Colquhoun St, Rosehill
NSW 2142

Ph: 131 103

www.jameshardie.com

Certificate number: CM20131

THIS TO CERTIFY THAT

Hardie™ Smart Intertenancy Wall System

Type and/or use of product:

The Hardie™ Smart Intertenancy Wall System is intended for use as a separating wall between Class 1 buildings, or a wall that separates a Class 1 building from a Class 10a building. The system is designed for use in timber framed buildings with a fire resistance level (FRL) requirement of 60/60/60 or less.

Description of product:

The Hardie™ Smart Intertenancy Wall System is comprised of twin 90mm timber framed walls with a 30mm cavity separation, insulated with 60mm Hardie™ Fire Insulation to both frames within the stud bays. The walls are lined with Villaboard™ to both interior sides.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2019 Amdt.1

	Volume One		Volume Two	
Performance Requirement(s)	N/A	N/A	N/A	N/A
Deemed-to-Satisfy Provision(s):	N/A	N/A	3.7.1.1 (d)	Fire properties for materials and construction General concession – non-combustible materials
			3.7.3.2	Fire protection of separating walls and floors Separating walls
			3.8.6.2	Sound insulation - Sound insulation requirements
State or territory variation(s):	N/A	N/A	NT 3.8.6	In the Northern territory part 3.8.6 acceptable construction practice is replaced with NT 3.8.6

SAI Global Certification Services

Frank Camasta
Global Head of Technical Services
SAI Global Assurance

Quintin Kleyn – Unrestricted Building Certifier

Date of issue: 21/09/2021

Date of expiry: 20/09/2024



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SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. Hardie™ Smart Intertenancy wall system must be constructed in accordance with the “Design Guide – Hardie™ Smart Intertenancy Wall System Class 1 & 10a Timber Frame Building” (dated September 2021).
2. The timber framing of the walls are to be in accordance with AS 1684.
3. Fire rating requirements of the subfloor, when required by the BCA, is to be assessed by the authority having jurisdiction.
4. The footing system must comply with AS 2870 or AS 3600, as applicable.
5. Hardie™ Smart Intertenancy Wall System is not certified as an external wall.

Building classification/s:

Volume 2 – Class 1 and Class 10a buildings

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

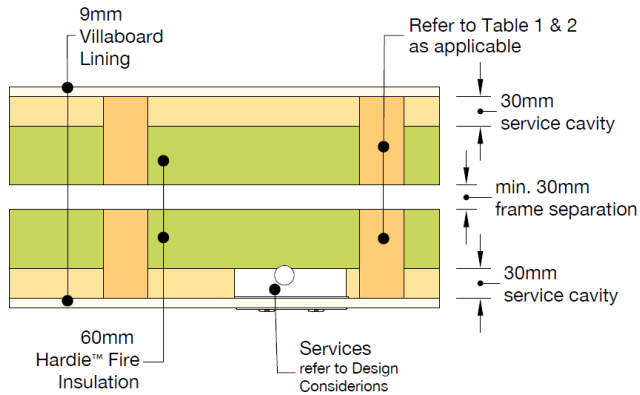
APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

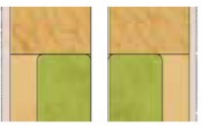
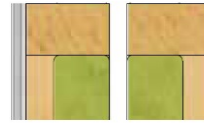
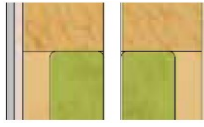
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A2 Description of product

The Hardie™ Smart Intertenancy Wall System is comprised of twin 90mm timber framed walls with a 30mm cavity separation, insulated with 60mm Hardie™ Fire Insulation to both frames within the stud bays. The walls are lined with Villaboard™ to both interior sides. Variations to system configuration as per section A3 below.



A3 Product specification

HSIW-1	FRL (min)	Acoustic (Rw Rw+Ctr)	HSIW-2	FRL (min)	Acoustic (Rw Rw+Ctr)	HSIW-3	FRL (min)	Acoustic (Rw Rw+Ctr)
	60/60/60	60 51		60/60/60	63 54		60/60/60	65 57
Components			Components			Components		
Linings on Both Sides	9mm Villaboard™ lining		Linings on Both Sides	6mm Villaboard™ lining 10mm plasterboard (min. 5.7kg/m2)		Linings on Both Sides	9mm Villaboard™ lining 10mm plasterboard (min. 5.7kg/m2)	
Insulation	60mm Hardie™ Fire insulation		Insulation	60mm Hardie™ Fire insulation		Insulation	60mm Hardie™ Fire insulation	

The product specifications are contained within the “Design Guide – Hardie™ Smart Intertenancy Wall System Class 1 & 10a Timber Frame Building” (dated September 2021).



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A4 Manufacturer and manufacturing plant(s)

James Hardie Australia Pty Ltd
10 Colquhoun St, Rosehill, NSW, 2142 and 1-35 Cobalt St, Carole Park, QLD, 4300

A5 Installation requirements

Refer to Page 2 of this certificate and the following;

- Design Guide – Hardie™ Smart Intertenancy Wall System Class 1 & 10a Timber Frame Building (dated September 2021).
- Installation Guide – Villaboard™ Lining – Interiors (dated July 2021)
- Hardie™ Fire insulation – technical data sheet (dated February 2017)

A6 Other relevant technical data

- None

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The system has been assessed as complying with the identified Performance Requirements of the BCA 2019 Amdt.1. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. Non-combustibility Assessment

- A2.3(2)(a) / A5.2(1)(c) – A current certificate, issued by a certification body – SAI Global

2. Fire Resistance Assessment;

- A2.3(2)(a) / A5.2(1)(d) – A report issued by an Accredited testing Laboratory – CSIRO (NATA accreditation No. 165) & James Hardie Research Pty Limited (NATA accreditation No. 14220)
- A2.3(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person – James Hardie Research Pty Limited

3. Acoustic Assessment;

- A2.3(2)(a) / A5.2(1)(e) – A certificate or report from a professional engineer or other appropriately qualified person – CSIRO, Renzo Tonin & associates.

B2 Reports

Evaluation methods	Related Reports
Non-combustibility Assessment	1, 2
Fire Resistance Assessment	3, 4, 5, 6
Acoustic Assessment	7, 8

- SAI Global – StandardsMark Licence – Certificate No. SMK02107/1 (issued 26 March 2020).** *This Licence identifies that noted products are manufactured to the requirements of AS/NZS 2908.2:2000 – Cellulose-cement products – Flat sheet.*
- SAI Global – StandardsMark Licence – Certificate No. SMK02107/2 (issued 26 March 2020).** *This Licence identifies that noted products are manufactured to the requirements of AS/NZS 2908.2:2000 – Cellulose-cement products – Flat sheet.*
- CSIRO – Fire resistance performance of various load-bearing timber framed walls lined with various James Hardie fibre cement products, Assessment report, Report No. FCO-3222 Rev L (dated 25/05/2021) Nata accreditation no. 165.** *This document contains the review of the performance of James Hardie wall systems based on a summary of other tests by CSIRO and BRANZ to AS1530.4 and concludes an FRL of 60/60/60 can be achieved. The opinion refers to variations in framing, inclusion of GPOs and drilling of holes in studs for conduits of 25mm maximum diameter not closer than 10mm to non-fireside.*
- James Hardie Research Pty Limited – Test Certificate, Impact testing of the HardieSmart™ Intertenancy Wall System to ASTM E695-03 and the National Construction Code (NCC) of Australia clause C1.8, Certificate No. 1103A (dated 7 May 2021) Nata accreditation no. 14220.** *This certificate identifies that walls tested under test report TS018A-20 V2 meet the requirements of NCC specification 1.8 clause 6(b)(d), when tested in accordance with the requirements of specification C1.8 clause 5(c).*
- James Hardie Research Pty Limited – Test Certificate, Deflection Under Static Loading of the HardieSmart™ Intertenancy Wall System to ASTM 72-15 and the National Construction Code (NCC) of Australia clause C1.8, Certificate No. 1104 (dated 21 June 2021) Nata accreditation no. 14220.** *This certificate identifies that walls tested under test report TS018C-20 meet the requirements of NCC specification 1.8 clause 6(b)(c), when tested in accordance with the requirements of specification C1.8 clause 5(b).*
- James Hardie Research Pty Limited – Test Report, Surface Hardness in accordance with AS 2185-1978 for Villaboard™ sheet as used in the HardieSmart™ Intertenancy walling system, Report No. TS018E-20 (Supp.2) (dated 2 September 2021).** *This report identifies that Villaboard internal lining used in Intertenancy wall system meets the requirements of NCC Specification 1.8 Clause 6(e), when tested in accordance with the requirements of Specification C1.8 Clause 5(d).*
- CSIRO – Acoustic Measurement Report, Measurement type: Airborne Sound insulation, Report No. TL591-01-1 (dated 26 October 2016).** *This report identifies the results of testing to AS 1191-2002 “Acoustic – Method for laboratory measurement of airborne sound insulation of building elements” and AS/NZS 1276.1:1999 (ISO717-1:1996) “Acoustics – Rating of sound insulation in buildings and of building elements. Part 1: Airborne sound Insulation”.*
- Renzo Tonin & Associates – James Hardie Villaboard Wall Systems - Acoustic Opinion, Report No. TJ284-01F03 (dated 11 November 2016).** *This document predicts the value of weighted sound reduction index and spectrum adaption $R_w(R_w+C_{tr})$ for six systems including HSIW-2 and HSIW-3 using the data extracted from CSIRO test report item 7 of B2.*