Certificate of Conformity

Certification Body:

CMI CERTIFICATION
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JAS-ANZ Accreditation No. Z4450210AK
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Certificate Holder:

NASAHI® building smarter
AAC Building Products Pty Ltd
T/A NASAHI®
ABN: 74621069207
1331 Stud Road
Rowville, Victoria 3178
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Ph: 1300 26 27 24
www.nasahi.net.au

Certificate number: CM40412

THIS IS TO CERTIFY THAT

Nasahi® Vertical Party Wall System

Type and/or use of product:

Internal Walls in Class 2 – 9 buildings and Separating Walls in Class 1 & 10.

Description of product:

Nasahi® Vertical Party Wall System incorporates either SUPER^{50} & SUPER^{75LD} Nasahi® AAC Panels and proprietary components providing fire, acoustic and thermal performance.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2022**

	Volume One		Volume Two	
Performance Requirement(s):	Not Applicable		Not Applicable	
Deemed-to-Satisfy Provision(s):	B1D4(b)(ii)	Structural provisions. Refer *Limitation and Condition 2.*		
	C2D2(2)	Fire Resistance and Stability – FRLs dependant of the configuration of the wall. Refer *Limitation and Condition 1 and 2.*	H1D7(4)(a)	Structural provisions. Refer *Limitation and Condition 2.*
	C2D10(5)(e)	Non-combustible building elements – Limited to the AAC Panel only.	H3D4	Fire protection of separating walls – FRLs dependant of the configuration of the wall. Refer *Limitation and Condition 1 and 2.*
	C2D11(3)(a)	Fire hazard properties – Limited to the plasterboard lining used in the NASAHI® Vertical Party Wall System.	H4D8	Sound insulation – Refer A3
	F7D4(2)	Determination of impact sound insulation ratings – *Subject to Limitations and condition 6.*		
	F7D6	Sound insulation rating of walls – Refer A3		
State or territory variation(s):	Part F7 (NT)		Not Applicable	

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. Construction shall be in strict accordance with the Nasahi® Vertical Party Wall System – Design and Installation Guide, SUPER50 & SUPER75LD, November 2024
2. Compliance with FRL is dependent on the system components being as specified in A3. Any deviation from the tested specimen does not form part of this certificate of conformity.

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10

Richard Donarski - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 19/12/2024

Date of expiry: 19/12/2027

3. Typical service penetrations may penetrate the outer linings without special treatments but Penetrations through the Nasahi® AAC Panel for service installations are not permitted. Penetrations through the Nasahi® panel are outside of the scope of this certification and a fire engineer must be consulted.
4. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
5. In all cases, it is a requirement that the Nasahi® Party Wall System incorporates;
    a. A timber frame constructed in accordance with AS 1720.1 and/or AS 1684 as applicable with a minimum 70mm depth; or
    b. A cold-formed steel frame constructed in accordance with AS/NZS 4600 or AS3623 as applicable, with and a minimum thickness of 0.75mm BMT: a minimum 51 mm stud depth for non-loadbearing applications; a minimum 76mm stud depth for loadbearing applications.
    c. A 20mm minimum gap between framing and panels.
    d. Wall linings of minimum 10mm thickness standard core plasterboard.
6. Discontinuous construction can only be achieved where walls do not exceed 3.3m in height to ensure aluminium angle bracket installation is restricted to the periphery.
7. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

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.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

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.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CMI Certification Pty Ltd (CMI) has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1

A2 Description of product

The Nasahi® Vertical Party Wall System includes the following:

Component	Description
NASAHI® PANELS	Nasahi® Panels are manufactured from Autoclaved Aerated Concrete (AAC), embedded with coated steel reinforcing mesh, in a standard width of 600mm.
ADHESIVE	Nasahi® Adhesive comes in bags and is used to glue and seal panel joints, and to fill screw heads.
TOUCH-UP PAINT	If Nasahi® Panels are cut to size, all exposed reinforcing steel must be treated with Nasahi® Corrosion Protection Touch-up Paint in accordance with the instructions on the container.
FASTENERS	• Tek Fastner for Fixing Brackets to Steel Frame - 10-16 x 20mm Hex Head Self-Drilling Class 3 Screws • Timber Fastener for Fixing Brackets to Timber Frame 12-11 x 25mm Hex Head Type 17 Class 3 Screws • Fastener to Fixing Brackets into 50mm Nasahi® Panels 12G x 45mm Hex Head Type 17, Class 3 Screws • Fastener to Fixing Brackets into 75mm Nasahi® Panels 14-10 x 65mm Hex Head Type 17, Class 3 Screws
NASAHI® ALUMINIUM ANGLE BRACKET	The Nasahi® aluminium angle bracket is used to attach Nasahi® Panels to the periphery of the timber or steel frame. • 75mm x 45mm x 50mm BMT = 1.5 mm • Each angle bracket requires 2 fixings in panel and 2 fixings into frame.
NASAHI® C-CHANNEL	Optional galvanised steel 'C'-section Base Channel For Super^{50} Panel adopt 'C' - 51mm x 35mm BMT = 0.55mm For Super^{75LD} Panel adopt ' C' - 76mm x 50mm BMT = 0.55mm Used as Party Wall base as shown in Detail 3.1 on Page 33 and/or to align Nasahi® Panels at wall ends.
INSULATION	Provide wall insulation between each stud to achieve the required Acoustic and Energy rating performance- refer to the Acoustic section of this manual for acoustic performance and NCC 2022 compliance table for Energy rating compliance. Insulation must be non-combustible and conform with the requirements of AS/NZS 4859.1:2018. **Note:** Minimum R2.0 Glass wool or mineral wool insulation that fills the cavity must be used to fulfill Acoustic requirements.
FIRE RESISTANT MINERAL WOOL	A non-combustible, moisture-resistant, non-corrosive, non-deteriorating, mildew-proof and vermin-proof mineral wool must be used to provide fire protection in party wall constructions as shown in the drawings.
ROCKWOOL MINERAL WOOL	50mm wide x 13mm thick material fibre (density > 110 kg/m^3
FIRE & ACOUSTIC SEALANT	To achieve the system FRL and Acoustic requirements, all perimeter gaps, penetrations and control joints must be adequately sealed with a polyurethane fire and acoustic rated sealant to manufacturer's specifications.

A3 Product specification

Fire Resistance and Stability

The following table is the conclusion of the assessment conducted by Assurance Construction Testing and Certification and must be read in conjunction with the construction details contained in Nasahi® Vertical Party Wall System – Design and Installation Guide, SUPER^{50} & SUPER^{75LD}, November 2024, pages 30 to 41.

Construction	Maximum Wall Height	FRL	Imposed Load
• Nasahi® Panel (Super^{50} or Super^{75LD}) • Min 70 mm deep timber or min 76 mm deep steel stud wall framing. • 10 mm Standard Plasterboard • Aluminium angle brackets 75 mm x 45 mm x 50 mm BMT – 1.5 mm Fixed to top and bottom plat	15.0m	90/90/90	11.1 kN (on panel)

Source: *Assurance Construction Testing and Certification; Fire Assessment Report ACTC-8363-99-02R I01R01; Dated 01/10/2024.*

Sound transmission through walls including in residential care buildings

Predicted acoustic ratings of internal (inter-tenancy) wall systems:

Party Wall System	Wall Structure	Panel Thickness	Airborne R_W (C_{tr})
Option 1	• One layer of 10mm standard grade plasterboard • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 10mm standard grade plasterboard	50mm	65 (-15)
		75mm	66 (-14)
Option 3	• One layer of 10mm standard grade plasterboard • 92mm metal stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 92mm metal stud • One layer of 10mm standard grade plasterboard	50mm	66 (-13)
		75mm	70 (-14)

Party Wall System	Wall Structure	Panel Thickness	Airborne R_W (C_{tr})
Option 2	• One layer of 10mm standard grade plasterboard • 76mm metal stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 76mm metal stud • One layer of 10mm standard grade plasterboard	50mm	65 (-15)
		75mm	67 (-17)
Option 4	• One layer of 13mm standard grade plasterboard • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 13mm standard grade plasterboard	50mm	69 (-14)
		75mm	72 (-14)

Party Wall System	Wall Structure	Panel Thickness	Airborne R_W (C_{tr})
Option 5	• One layer of 13mm sound rated Plasterboard • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 13mm sound rated Plasterboard	50mm	72 (-15)
		75mm	76 (-15)
Option 7	• One layer of 10mm water resistant plasterboard • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 10mm water resistant plasterboard	50mm	66 (-14)
		75mm	68 (-14)
Option 9	• One layer of 10mm sound rated Plasterboard • 70mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 70mm timber stud • One layer of 10mm sound rated Plasterboard	50mm	68 (-15)
		75mm	71 (-15)

Party Wall System	Wall Structure	Panel Thickness	Airborne R_W (C_{tr})
Option 6	• One layer of 13mm fire rated plasterboard • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 13mm fire rated plasterboard	50mm	70 (-14)
		75mm	73 (-15)
Option 8	• One layer of 6mm fibre cement • 90mm timber stud • R2 insulation • 10-70mm cavity* • Nasahi® Panel • 10-70mm cavity* • R2 insulation • 90mm timber stud • One layer of 6mm fibre cement	50mm	69 (-15)
		75mm	75 (-14)

Source: *Report TH736-01F02 r17 Renzo Tonin & Associates Dated 16/09/2024 & Report TH736-01F03 Opinion letter (r1); Renzo Tonin & Associates Dated 12/02/2024*

A4 Manufacturer and manufacturing plant(s)

This field is optional. Contact the Certificate Holder for details.

A5 Installation requirements

Only to be installed in accordance with Nasahi® Vertical Party Wall System – Design and Installation Guide, SUPER^{50} & SUPER^{75LD}, November 2024.

Refer page 17 for Party Wall System Installation Process and pages 38 for FRL construction details.

A6 Other relevant technical data

Thermal Performance

The overall Total R-value calculations based upon AS/NZS 4859 Parts 1 & 2:2018, Thermal insulation materials for buildings incorporating the effects of thermal bridging and AIRAH Technical Handbook, Edition 5 2013, pp. 62-73 - Thermal Properties of Building and Insulating Material.

Overall Total R-value RT (m2.K/W) 3.8 Winter and 3.6 Summer

System Description:

- 10mm Plasterboard Lining, R2.0 Glasswool Batt Insulation (70mm, R2.0),
- 76x35x0.55bmt Steel Framing (stud, top & bottom plates, 1-row noggins), 2700mm studs@450mm c/c,
- 20mm non-reflective air space, 50mm Nasahi® Panel (R0=0.391), 20mm non-reflective air space,
- R2.0 Glasswool Batt Insulation (70mm, R2.0),
- 76x35x0.55bmt Steel Framing (stud, top & bottom plates, 1-row noggins), 2700mm studs@450mm c/c,
- 10mm Plasterboard Lining

***Source**: Acronem Consulting Australia Pty Ltd; Calculation Number W210517a dated 17/05/2022*

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions A5G3(1)(e). Reports from a professional engineer.
2. Fire Safety Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Acoustic Provisions A5G3(1)(e). Reports from a professional engineer.

B2 Reports

1. Assurance Construction Testing and Certification; Fire Assessment Report ACTC-8363-99-02R I01R01; Fire Assessment Report; Dated 01/10/2024. Outlines FRLs in accordance with the BCA and compliance with C2D2(2), C2D10(5)(e), C2D11(3)(a) and H3D4.
2. Clarkson Consulting Services Pty Ltd; Compressive Strength testing analysis; Dated 16/09/2024. Report confirms compliance with AS 5146.2 in accordance with B1D4(b)(ii), C2D10(5)(e) and H1D7(4)(a).
3. Sharp & Howells; NATA Accreditation No. 658; Compliancy Statement Report 24-0441; AAC Panels were tested in accordance with Australian Standards AS 5146.1, .2 & .3 (Reinforced Autoclaved Aerated Concrete); Dated 28/08/2024. Contributes towards compliance with B1D4(b)(ii), C2D10(5)(e) and H1D7(4)(a).
4. Renzo Tonin & Associates; Report No. TH736-01F02 r17; Opinion of Acoustic Performance of Wall and Floor Systems; Dated 16/09/2024. Contributes towards compliance with F7D4(2), F7D6 and H4D8.
5. Renzo Tonin & Associates; Report No. TH736-01F03; Opinion letter (r1); Dated 12/02/2024. Contributes towards compliance with F7D4(2), F7D6 and H4D8.
6. Warringtonfire Australia Pty Ltd; Nata Accreditation No. 3277; Report No. FRT240077 R1.1; Testing in accordance with AS1530.4:2014; Dated 23/07/2024. Contributes towards compliance with C2D2(2) and H3D4.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.