Certificate of Conformity

Certification Body:

CMI CERTIFICATION
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Certificate Holder:

ASKIN Performance Panels
Askin Pty Ltd
ABN: 13 156 186 033
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Certificate number: CM40334

THIS IS TO CERTIFY THAT

Volcore Internal Wall & Ceiling System

Type and/or use of product:

The Volcore Internal Wall & Ceiling system is made from insulated composite panels intended for use in internal wall and ceiling systems.

Description of product:

The Volcore Internal Wall & Ceiling system include 'Volcore Panel' and/or 'Volcore Panel FRL'. Volcore Panel and Volcore Panel FRL comprise of mineral wool fibre cores adhered between two steel facers made of a minimum thickness of 0.6mm G300 Colorbond. Both products are adhered between steel and core with a 2-part polyurethane adhesive. Refer to A2 for further details.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2022 (Amdt. 2)**

		Volume One	Volume Two
Performance Requirement(s):	B1P1(1),(2)(c)	Structural reliability – Subject to *Limitation and Condition 1*	Not Applicable
Deemed-to-Satisfy Provision(s):	C2D2(2)	Fire Resistance and Stability – Refer to *Limitation and Condition 2.*	Not Applicable
	C2D10(6)(g)	Non-combustible building materials – Bonded laminated materials	
	C2D11 (1)(b)	Fire hazard properties - Refer A3	
	F7D3	Determination of airborne sound and insulation ratings. Can be used in conjunction with other building elements. – Refer A3	
	F7D6	Sound insulation rating of walls. Can be used in conjunction with other building elements. – 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 of the Volcore Panel and Volcore Panel FRL for internal walls and ceilings must be in accordance with the appropriate span tables outlined in section A3 and fixed to a structurally adequate wall / ceiling frame in accordance with the relevant Installation documentation detailed in Section A5 of this Certificate of Conformity. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.

Building classification/s:

Classes 2,3,4,5,6,7,8 & 9

Glen Gugliotti – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 28/10/2025

Date of expiry: 28/10/2028

2. Compliance with FRL is limited to the system components being as specified in A3. Wall and Ceiling Penetrations though the Volcore FRL panel system are tabled in A3 of this certificate of Conformity. Any deviation from the tested specimens or nominated products do not form part of this certificate of conformity.
3. The Scope of Certification for this Certificate of Conformity does not include externally located bonded laminated cladding panels and therefore the requirements of C2D10(6)(g)(iv) and C2D15 are not applicable.
4. 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

Volcore Internal Walls & Ceiling range of panels consist of two types of panels, the Volcore Panel and the Volcore Panel FRL.

- The Volcore Panel has 0.6/0.6mm Colorbond G300 steel facers with a mineral wool fibre core material adhered to the steel facers with a 2-part polyurethane adhesive.
- The Volcore Panel FRL has a minimum 0.6/0.6mm Colorbond G300 steel facers with a mineral wool fibre core material adhered to the steel facers with a 2-part polyurethane adhesive.

The Volcore Internal Walls & Ceiling panels are available in the following thicknesses:

Panel	Thickness	Core Density
Volcore Panel	50, 75, 100, 120, 150mm	110 kg/m³ +/- 10%
Volcore Panel FRL	100, 150mm	110 kg/m³ +/- 10%

A3 Product specification

Structure

In order to maintain compliance with structure, the Span Tables1 located in the following Product Specification Sheets must be referred to for which have been certified by a licensed Professional Engineer.

Document Name	Version
Product Specification Sheet – Internal Walls & Ceilings	October 2025
Product Specification Sheet FRL Systems	October 2025

Source: *Askin Engineering, Report ref. Volcore Panel – REV5; CodeMark span table analysis; Dated 08/08/2022, Ian Bennie & Associates; Report No. 2022-010 ASKIN_AS4040.2_VolcorePanel_01; Dated May 2022, Askin Engineering, Report ref. Volcore Panel – REV1; CodeMark Volcore Panel SINGLE SPAN; Dated 23/06/2022 & Ian Bennie & Associates; Report No. 2022_010_S55_Report; Dated June 2022.*

Non-Combustibility

Each lamina of the Volcore Panel and Volcore Panel FRL for internal walls & ceilings has been tested in accordance with AS 1530.1-1994 and is **NOT** deemed combustible. The Scope of Certification for this Certificate of Conformity does not include externally located bonded laminated cladding panels and therefore the requirements of C2D10(6)(g)(iv) and C2D15 are not applicable.

Source: *CSIRO; NATA Accreditation no. 165; Report FNC12842; Testing of Steel Sheeting in accordance with AS 1530.1:1994; Dated 17/02/2022 & Warringtonfire Australia Pty Ltd; Report RTF190172, R1.0; Combustibility Test for Materials in Accordance with AS 1530.1-1994; dated 10/09/2019.*

Fire Indices

AS/NZS 1530.3-1999 Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release Indices for the Volcore range of panels.

Ignitability Index	0	Range 0-20
Spread of Flame Index	0	Range 0-10
Heat Evolved Index	0	Range 0-10
Smoke Index	1	Range 0-10

Source: *AWTA Product Testing, Report 16-002279 Testing in accordance with AS/NZS 1530.3-1999, dated 10/05/2016.*

Material Group Numbers

The Group Number has been determined in accordance with testing conducted to ISO 9705:2003 (R2016) and AS 5637.1:2015.

Group Number	1
Smoke Growth Rate Index (SMOGRA$_{RC}$)	< 100 m^2/s^2

Source: Warringtonfire Australia Pty Ltd; Report FAS200369, R1.0 dated 16/11/2020.

Fire Resistance Levels (FRLs)

Volcore Panel FRL Wall systems:

Panel Thickness (mm)	Panel Orientation	Stitching requirement	Joint treatment	Perimeter rivets spacing (mm)	Maximum distance between supports	FRL
100	Vertical	1000mm wide panels must be secured to each other using Askin Slip-joint® with blind rivets at 250 mm centers	Sika® Firerate intumescent sealant	150	3.0m	-/60/60
100	Vertical	1200mm wide panels must be secured to each other using Askin Slip-joint®	Sika® Firerate intumescent sealant	150	3.0m	-/60/60
150	Vertical	1200mm wide panels must be secured to each other using cement fiber sheet spine	Flamex One fire rated acrylic sealant and Sika® Firerate intumescent sealant	100	7.5m	-/60/60
				100	6.0m	-/90/90
				150	3.0m	-/120/120
150	Vertical	1000mm wide panels must be secured to each other using Askin Slip-joint® with blind rivets at 250 mm centers	Sika® Firerate intumescent sealant	150	3.0m	-/120/120
150	Vertical	1200mm wide panels must be secured to each other using Askin Slip-joint® with blind rivets at 300 mm centers	Sika® Firerate intumescent sealant	100	7.5m	-/60/60
				100	6.0m	-/90/90
				150	3.0m	-/120/120
150	Horizontal	1200mm wide panels must be secured to each other using cement fiber sheet spine and rivets at 500 mm centers	Sika® Firerate intumescent sealant	150	3.0m	-/120/120
				100	7.5m	-/120/120

Source: *Warringtonfire Assessment Report No. FAS210329 R1.5 dated 06/03/2024 & Warringtonfire Assessment Report No. FAS190117-R3.0 dated 04/11/2024*

Volcore Panel FRL Ceiling systems:

Panel Thickness (mm)	Stitching requirement	Joint treatment	Perimeter rivets spacing (mm)		Maximum distance between supports	FRL
			Exposed side	Unexposed side		
150	Panels must be stitched using rivets at 500 mm and 300 mm spacings on the unexposed and exposed side, respectively	KAO mineral wool with Flamex One fire rate acrylic sealant	75	125	7.0m	-/30/30
			75	150	4.8m	-/60/60
			100	200	3.9m	-/90/90
			100	250	3.5m	-/120/120
150	Panels must be stitched using rivets at 500 mm and 300 mm spacings on the unexposed and exposed side, respectively	KAO ceramic wool with Flamex One fire rated acrylic sealant	150	250	3.0m	-/240/210

Source: *Warringtonfire Assessment Report No. FRT190223 R1.0 dated 10/10/2019 & Warringtonfire Assessment Report No. FAS210329 R1.5 dated 06/03/2024.*

Wall Penetration FRLs

Assessed wall penetrations through the FRL Panels systems:

Service	Referenced figure	Local protection	FRL
Blank seal up to 1200mm x 600mm	Figure 29	TBA Firefly Intubatt with Firetherm Intumastic used on the interface between the panel surface and Intubatt. A maximum annular gap of 6mm must be maintained.	Up to -/120/120
40 – 100 mm uPVC pipes	Figure 30 and Figure 31	FC Promat collar with PROMASEAL® - An Acrylic sealant applied to the annular gap between the pipe and panel to a minimum depth of 20 mm. A maximum annular gap of 6 mm must be maintained.	Up to -/120/120
Up to 50 mm HDPE pipes	Figure 32	FC50 Promat collar with PROMASEAL® - An Acrylic sealant applied to the annular gap between the pipe and panel to a minimum depth of 20 mm.	Up to -/120/120
40 – 100 mm copper pipes	Figure 33 and Figure 34	PROMASEAL® SupaWrap to 600 mm with PROMASEAL® - An Acrylic sealant applied to the annular gap between the pipe and panel to a minimum depth of 20 mm. A maximum annular gap of 6 mm must be maintained.	Up to -/120/120
Maximum 30 mm diameter, 3 × 2.5 mm2 2C + E TPS cables	Figure 35	PROMASEAL® - An Acrylic sealant applied to the annular gap between the pipe and panel to a minimum depth of 20 mm and a 25 mm × 25 mm fillet around the cable bundle at the wall on both sides.	Up to -/120/120
Maximum 130 × CAT 6 cables	Figure 36	FC100 Promat collar with PROMASEAL® Grafitex paste applied to the annular gap between the cable bundle and collar.	Up to -/120/120
Any service penetrating through the TBA Firefly Intubatt with an established FRL achieved through testing or assessment by an accredited testing laboratory can be installed through the TBA Firefly Intubatt applied to the blank seal in the Volcore panel wall system. FRL of the services will be governed by the lesser FRL of the separating element and the service.			

Source: *Table 16 of Warringtonfire Assessment Report No. FAS210329 R1.5 06/03/2024.*

Door Penetration FRLs

The following fire doors have been assessed and achieved the following FRL's :

- The 100mm Askin Volcore Panel and Howhua 37mm Mini door -/60/30
- The 150mm Askin Volcore Panel and Howhua 46mm Maxi door -/120/30

When the following door hardware has been used:

Service	Permitted Door Hardware and Vision Panel
Door Hinge	H2 Lockwood Lw 10000 BBSS, Button Tipped, fixed Pin, ball bearing, satin stainless steel butt hinge.
Mortise Lock	L1 Lockwood 3572X SC Nocyl Morise Escape Lock (No Cylinder)
Door Strike	L2 Lockwood ES9000 Electric Door Strike with limit switch
Handle	H2 Lockwood 5805/5905/70 SC, Lever on Plate, No Cylinder
Door Closer	C5 Dorma TS 68BC Push-Side Installation with Lockwood A3000 x 230 Sequence Selector.
Bolts	B2 Fire Rated automatic flush bolt.
Door Seals	Se2 Raven RP38 Bottom Door Seal (Fully Recessed) SE4 Fire door seals (by fire door manufacturer)
Vision Panel	600 mm high x 100 mm wide vision panel

Source: *Page 10 Ignis Labs; Report No: INNL-7280-99R I01 R03; Howhua Sound Fire Door - Product Evaluation;*

Ceiling Penetration FRLs

Assessed Ceiling Penetrations through the FRL Panels systems:

Service	Aperture size (mm)	Local protection	FRL
60 x Panduit Cat 6 Chilli Cable Bundle	Ø 68	PROMASEAL® FC 50 collar & PROMASEAL® -A sealant	-/240/120
DN 110 HDPE	Ø 121	PROMASEAL® FC 100 collar & PROMASEAL® -A sealant	-/240/120
DN 56HDPE	Ø 68	PROMASEAL® FC 50 collar & PROMASEAL® -A sealant	-/240/180
DN 40 Copper Pipe	Ø 51	PROMASEAL® -A sealant & PROMASEAL® SupaWrap 40	-/180/120
SISO cable	Ø 25	PROMASEAL® -A sealant	-/240/180
3 x Panduit Cat 6 Chilli Cable Bundle	Ø 30	PROMASEAL® -A sealant	-/240/180
3 x 2C+ E TPS Cables	Ø 30	PROMASEAL® -A sealant	-/240/180
2 x SISO cable	Ø 51	PROMASEAL® -A sealant & PROMASEAL® FC 50 collar	-/240/180
NB 25 Galvanised Steel Pipe	Ø 51	PROMASEAL® -A sealant	-/240/240
NB 150 Galvanised Steel Pipe	Ø 177	PROMASEAL® -A sealant & PROMASEAL® SupaWrap 40	-/240/240
DN 100 Copper Pipe	Ø 114	PROMASEAL® -A sealant & PROMASEAL® SupaWrap 40	-/180/90
100mm Cast Iron Pipe	Ø 121	PROMASEAL® -A sealant & PROMASEAL® SupaWrap 40	-/180/120

Source: *Adapted from Table 2 and Table 3 of Warringtonfire Assessment Report No. FRT220221 R1.0 dated 24/02/2023.*

Acoustics

The following acoustic values have been tested in accordance with AS 1191-2002 and assessed against AS/NZS ISO 717.1: 2004 with the following results:

Panel Thickness (mm)	R_W	$R_w + C_{tr}$
Askin Volcore Panel 75mm	28	25
Askin Volcore Panel 100mm **Askin Volcore Panel FRL 100mm**	29	-
Askin Volcore Panel 120mm	30	-
Askin Volcore Panel 150mm **Askin Volcore Panel FRL 150mm**	31	-

Source: *75mm Panel - Acoustic Laboratories Australia Pty Ltd, Report No. ALA 09-080-2 dated 26/03/2009.*
100mm Panel - SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK2 20170628 dated 28/06/2017.
120mm Panel - SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK5 20170629 dated 29/06/2017.
150mm Panel - SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK6 20170629 dated 29/06/2017.

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Installation must be in accordance with the following relevant Technical Drawing manual as appropriate to the panel profile and intended use.

ASKIN Interiors Cold Storage Standard Details 2022-10	ASKIN FRL Systems Volcore Panel FRL (Walls) (100mm) 11-2024
ASKIN Interiors Standard Details 2022-09	ASKIN FRL Systems Volcore Panel FRL (Walls/Ceilings/Penetrations) (150mm) 11-2023

A6 Other relevant technical data

Thermal

The Declared Material R-values of ASKIN Volcore mineral wool insulated core panel have been determined in accordance with AS/NZS 4859.1:2018.

Declared Material R-Value [(m².K)/W]									
Volcore	Thickness (mm)	50	75	100	120	150	160	175	180
Mean Temp(°C)	0°C	1.35	2.00	2.70	3.25	4.05	4.30	4.75	4.85
	15°C	1.30	1.95	2.60	3.10	3.90	4.15	4.55	4.65
	23°C	1.25	1.85	2.50	3.00	3.75	4.00	4.40	4.50

Calculations of Total R-value of ASKIN Volcore panels for Internal Wall applications performed in accordance with AS/NZS 4859.1:2018 are provided below. In all cases the construction is assumed to consist of the panel

Australia	**Total R-Value [(m².K)/W] (Summer/Winter) & System U-Value [W/(m².K)] (Summer/Winter)**								
Volcore	Thickness (mm)	50	75	100	120	150	160	175	180
Internal Wall	$R_{(Sum.)}$	1.5	2.1	2.7	3.2	3.9	4.2	4.5	4.6
	$U_{(Sum.)}$	0.68	0.48	0.37	0.31	0.25	0.24	0.22	0.21
	$R_{(Wint.)}$	1.5	2.2	2.8	3.3	4.1	4.4	4.8	4.9
	$U_{(Wint.)}$	0.65	0.46	0.35	0.30	0.24	0.23	0.21	0.20

Source: *Acronem Consulting Australia Pty Ltd letter dated 13/09/2021.*

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

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

B2 Reports

1. AWTA Product Testing, Nata Accreditation No. 1356; Report 16-002279; Testing in accordance with AS/NZS 1530.3-1999, Dated 10/05/2016. Report supports compliance with C2D10(6)(g).
2. CSIRO; NATA Accreditation No. 165; Report No. FNC12842; Combustibility Test for Materials in Accordance with AS 1530.1-1994; Dated 17/02/2022. Report confirms non-combustible properties of the Volcore products as required by C2D10(6)(g).
3. Warringtonfire Australia Pty Ltd; Nata Accreditation No. 3277; Report RTF190172, R1.0; Combustibility Test for Materials in Accordance with AS 1530.1-1994; Dated 10/09/2019. Report confirms non-combustible properties of the Volcore products as required by C2D10(6)(g).
4. Warringtonfire Aus Pty Ltd; Nata Accreditation No. 3277; Report No. FAS210329 R1.5; Assessment of Volcore panel wall and floor systems to AS 1530.4-2014; Dated 06/03/2024. Reports provides FRLs achieved by the systems outlined in the report that confirms compliance with C2D2(2).
5. Warringtonfire Aus Pty Ltd; Nata Accreditation No. 3277; Report No. FAS190117-R3.0, Assessment of Volcore panel wall system to AS 1530.4-2014 dated 04/11/2024. Reports provides FRLs achieved by the systems outlined in the report that confirms compliance with C2D2(2) and G5D3 as the product can be in Construction in Bushfire prone areas up to and including BAL-FZ.
6. Askin Engineering, Report ref. Volcore Panel – REV5; CodeMark span table analysis; Dated 16/08/2022. Report provides evidence for compliance with B1P1(1),(2)(c).
7. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2022-010 ASKIN_AS4040.2_VolcorePanel_01; Dated May 2022. Report provides evidence for compliance with B1P1(1),(2)(c).
8. Askin Engineering, Report ref. Volcore Panel SINGLE SPAN REV1; Dated 16/08/2022. Report provides evidence for compliance with B1P1(1),(2)(c).
9. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. ASKIN_2022_010_S55_Report; Dated 09/06/2022. Report provides evidence for compliance with B1P1(1),(2)(c).
10. Acoustic Laboratories Australia Pty Ltd; Report No. ALA 09-080-2; Determination of the Airborne Sound Insulation of 75mm thick panel; Dated 26/03/2009. Report provides acoustic performance opinion for compliance with F7D3 and F7D6.
11. SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK2 20170628; Acoustical Opinion of Airborne Sound Insulation (Rw Rating) 100mm thick panel; Dated 28/06/2017. Report provides acoustic performance opinion for compliance with F7D3 and F7D6.
12. SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK5 20170629; Acoustical Opinion of Airborne Sound Insulation (Rw Rating) 120mm thick panel; Dated 29/06/2017. Report provides acoustic performance opinion for compliance with F7D3 and F7D6.
13. SLR Consulting Australia Pty Ltd, Opinion Report No. 640.11482 ASK6 20170629; Acoustical Opinion of Airborne Sound Insulation (Rw Rating) 150mm thick panel; Dated 29/06/2017. Report provides acoustic performance opinion for compliance with F7D3 and F7D6.
14. Warringtonfire Aus Pty Ltd; Nata Accreditation No. 3277; Report No. FRT220221 R1.0; Assessment of Ceiling Penetrations of the Volcore FRL System to AS 1530.4-2014; Dated 24/02/2023. Reports outlines the allowable Ceiling Penetrations and the FRLs achieved by the systems for compliance with C2D2(2).
15. Jensen Hughes; Report No: FAS200369 - R2.0; Fire Hazard properties of Volcore Panels in accordance with AS 5637.1:2015; Dated 24/09/2025 - Reports provides confirmation of the Group Number in accordance with Specification S7C4 for compliance with C2D11(1)(b).
16. Ignis Labs; Report No: INNL-7280-99R I01 R03; Howhua Sound Fire Door - Product Evaluation; Dated 30/05/2024.

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