

Certificate number: CM40339 Rev1

Certification Body:



ABN: 81 663 250 815
 JAS-ANZ Accreditation
 No. Z4450210AK
 PO Box 273,
 Palmwoods Qld 4555
 Australia
 P: +61 7 5445 2199
www.cmicert.com.au
office@cmicert.com.au

Certificate Holder:



Askin Pty Ltd
 ABN: 13 156 186 033
 Level 3, Suite 3.01, 150
 Albert Road, South
 Melbourne VIC 3205
 Australia
www.askin.net.au

THIS IS TO CERTIFY THAT

ASKIN XFLAM Internal Wall & Ceiling Panel

Type and/or use of product:

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

Description of product:

The XFLAM Internal Wall & Ceiling system include 'XFLAM Panel' and/or 'XFLAM Panel FRL'. The XFLAM Panel and XFLAM Panel FRL comprise of syntactic phenolic foam cores adhered between two steel facers made from a minimum thickness of 0.6mm G300 Colorbond. Each Panel is 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

	Volume One	Volume Two
Performance Requirement(s):	B1P1 Structural reliability – Limited to wind actions only	Not Applicable
Deemed-to-Satisfy Provision(s):	C2D2(2) Fire resistance and stability – FRLs achieved contribute to Fire-resisting construction (FRLs are limited to the XFLAM Panel FRL and subject to <i>limitation and condition 5</i>)	Not Applicable
	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:

- Construction shall be in strict accordance with the [ASKIN Interior Panel Standard Details \(Dated 19/09/2022\)](#); or [ASKIN Interiors Cold Storage Standard Details \(Dated 06/10/2022\)](#); or [ASKIN XFLAM Panel FRL Standard Details \(Dated 09/12/2022\)](#).

Building classification/s:

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


 Richard Donarski – CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 10/11/2023

Date of expiry: 30/01/2026



Certificate of Conformity

2. This product has not been tested to AS 1530.1-1994 (R2016) and cannot be considered a non-combustible product.
3. For internal walls and ceilings the ASKIN XFLAM Internal Wall & Ceiling Panel must be fixed to a structurally adequate wall / ceiling frame in accordance with the appropriate span tables in section A3. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
4. The Group number was determined in accordance with AS 5637.1:2015 as Group 1 based on testing to AS ISO 9705:2003 (R2016). Refer A3 of this Certificate of Conformity.
5. Compliance with FRL is dependent on the system being constructed in accordance with [Product Specification Sheet – XFLAM Panel FRL February 2023](#) and [ASKIN XFLAM Panel FRL Standard Details; Dated 09/12/2022](#). Any deviation from the tested specimen does not form part of this certificate of conformity.
6. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
7. Other than the items and information listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
8. 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 XFLAM Internal Wall & Ceiling system range of panels consist of XFLAM Panel and XFLAM Panel FRL. The XFLAM Panel and XFLAM Panel FRL comprise of syntactic phenolic foam cores adhered between two steel facers made from a minimum thickness of 0.6mm G300 Colorbond with a 2-part polyurethane adhesive and come in the following thicknesses:

Panel	Thickness	Core Density
XFLAM Panel	50, 75, 100, 125, 150, 175, 200, 250mm	36 kg/m ³ +/- 4 kg/m ³
XFLAM Panel FRL	100mm	min 50kg/m ³
	160, 220, 250, 275mm	min 40kg/m ³ for >100mm thick panels

A3 Product specification

Structure In order to maintain compliance with structure, the Span Tables 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 and Ceilings XFLAM Panel	February 2023
Product Specification Sheet –XFLAM Panel FRL	February 2023

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 (SMOGRARC)	< 100 m ² /s ²

Source: Warringtonfire Australia Pty Ltd; Report FAS220049 R1.0 Dated 23/12/2022.

Fire Properties 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 XFLAM 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: Ignis Labs Report No. IGNL-6259-01-01 I01 R00 Dated 16/12/2022.

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Fire Resistance Levels (FRLs)

XFLAM Panel FRL Wall systems:

Panel Thickness (mm)	Panel Orientation	Perimeter rivets spacing (mm)	Maximum distance between supports (mm)	FRL
100	Vertical	150	3000	-/120/30
		100	7500	-/30/30
160	Vertical	150	3000	-/120/60
		100	7500	-/60/60
220	Vertical	150	3000	-/120/90
		100	6000	-/90/90
275	Vertical	150	3000	-/120/120

Note: All joints to be sealed with either Flamex One fire rated acrylic sealant or Sika® Firerate intumescent sealant. Connection details are provided in [Product Specification Sheet – XFLAM Panel FRL February 2023](#) and [ASKIN XFLAM Panel FRL Standard Details; Dated 09/12/2022](#)

Source: Warringtonfire Assessment Report No. FAS200511 R2.0 Dated 11/03/2022.

Acoustic Performance

The 75mm ASKIN XFLAM Panels have been tested in accordance with AS 1191-2002 and assessed against AS/NZS ISO 717.1: 2004 by Acoustic Laboratories Australia Pty Ltd and achieve the following acoustic value.

Panel Thickness (mm)	R _w	R _w + C _{tr}	R _w (C, C _{tr})
AskIn XFLAM Panel 75mm	25	23	25 (-2, -2)

Source: Acoustic Laboratories Australia Pty Ltd; Report No.: ALA 09-080-3, Determination of the Airborne Sound Insulation of 75mm XFLAM PANEL™; Dated 27/03/2009.

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

Installation shall be in strict accordance with the following Technical Drawings manuals and Product Specification Sheets as appropriate.

XFLAM Panel

- [ASKIN Interior Panel - Standard Details – 19-09-2022](#)
- [ASKIN Interiors - Cold Storage Standard Details – 06-10-2022](#)
- [Product Specification Sheet – XFLAM Interiors XFLAM Panel February 2023](#)

XFLAM Panel FRL

- [ASKIN XFLAM Panel - FRL Standard Details – 09-12-2022](#)
- [Product Specification Sheet – XFLAM Panel FRL February 2023](#)

A6 Other relevant technical data

Thermal

The Declared Material R-values of ASKIN XFLAM foam insulated core panel have been determined in accordance with AS/NZS 4859.1:2018 as:

Declared Material R-Value [(m ² .K)/W]		50	75	100	125	150	175	200	250
XFLAM Core	Thickness (mm)								
	0°C	1.50	2.20	2.95	3.70	4.45	5.20	5.95	7.40
	Mean Temp(°C)								
Mean Temp(°C)	15°C	1.40	2.10	2.80	3.50	4.25	4.95	5.65	7.05
	23°C	1.40	2.05	2.75	3.45	4.15	4.85	5.55	6.90

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

Total R-Value [(m ² .K)/W] (Summer/Winter) & System U-Value [W/(m ² .K)] (Summer/Winter)		50	75	100	125	150	175	200	250
XFLAM Core	Thickness (mm)								
	R _(Sum.)	1.6	2.2	2.9	3.6	4.3	4.9	5.6	7.0
Internal Wall	U _(Sum.)	0.61	0.44	0.34	0.28	0.23	0.20	0.19	0.14
	R _(Wint.)	1.7	2.3	3.0	3.8	4.5	5.2	5.9	7.3
	U _(Wint)	0.59	0.42	0.32	0.26	0.22	0.19	0.17	0.14

Source: Acronem Consulting Australia Pty Ltd letter Dated 01/04/2022.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Acoustic and Sound Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.
2. Fire Safety Provisions A5G3(1)(d)&(e). A report issued by an Accredited Testing Laboratory & a certificate or report from a professional engineer or other appropriately qualified person.
3. Structural Resistance Provisions A5G3(1)(e). A report from a professional engineer or other appropriately qualified person.

B2 Reports

1. ASKIN Performance Panels Pty Ltd; CODEMARK STRUCTURAL ANALYSIS XFLAM Panel – REV2.AUGUST 2022; Dated 16/08/2022. This report contributes towards compliance with B1P1.
2. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Report No. FAS200511 R2.0; Fire assessment report XFLAM insulated panels in accordance with AS 1530.4:2014; Dated 11/03/2022. This report shows the nominated FRL's of the system for compliance with C2D2(2).
3. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Report No. FAS220049 R1.0; Fire hazard properties of XFLAM panels in accordance with AS 5637.1:2015; Dated 23/12/2022. This report details the results of the Fire hazard properties of the panel for compliance with C2D11(1)(b).
4. Ignis Labs Pty Ltd; NATA Accreditation No. 20534; Report No. IGNU-6259-01-01 I01 R00; ASKIN Product Evaluation XFLAM Panel 50 mm – 300 mm; Dated 16/12/2022. This report extends the results of the fire hazard properties to the range of XFlam thicknesses for compliance with C2D11(1)(b).
5. Acoustic Laboratories Australia Pty Ltd; Report No.: ALA 09-080-3, Determination of the Airborne Sound Insulation of 75mm XFLAM PANEL™; Dated 27/03/2009. This report notes the acoustic determinations for compliance with F7D3 & F7D6.

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