



Certificate of Conformity

Certificate number: CM40336

Certification Body:



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JAS-ANZ Accreditation
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Certificate Holder:



Askin Pty Ltd
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THIS IS TO CERTIFY THAT

ASKIN EPS-FR External Wall & Facades Panel

Type and/or use of product:

ASKIN EPS-FR External Wall & Facades panels are insulated composite panels intended for use in external wall and façade uses.

Description of product:

The ASKIN EPS-FR External Wall & Facades panels comprise of SL Grade EPS core adhered between two steel facers made from a minimum thickness of 0.6mm G300 Colorbond. Refer to A2 for further details.

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

BCA 2019 (Amdt. 1)

	Volume One	Volume Two
Performance Requirement(s):	BP1.1(b)(iii) Structural reliability	Not Applicable
	FP1.4 Weatherproofing – Subject to <i>Limitation and Condition 3</i> .	
Deemed-to-Satisfy Provision(s):	C1.10(a)(ii) Fire hazard properties – Refer A3	Not Applicable
	J1.5 Energy Efficiency – External Walls. Must be used in conjunction with other building elements to achieve a Total R Value.	
State or territory variation(s):	Not Applicable	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 Installation Requirement detailed in the [ASKIN Exteriors Panel Standard Details; Dated 09/09/2022](#) and [ASKIN Product Specification Sheet - External Walls & Facades EPS-FR Panel; Dated January 2023](#).
- This product has not been tested to AS 1530.1-1994 (R2016) and cannot be considered a non-combustible product.
- To satisfy FP1.4 via verification, the relevant design is required to meet the criteria of FV1.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;
 - (a)(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table FV1.1; and
 - (a)(ii) is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
 - (a)(iii) includes only windows that comply with AS 2047.

Building classification/s:

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

Richard Donarski - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 30/01/2023

Date of expiry: 30/01/2026



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4. The ASKIN EPS-FR Panels must be fixed to a structurally adequate external wall 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.
5. The ASKIN EPS-FR Panels have been tested and certified for impact loading from windborne debris in Region C and D as denoted in AS 1170.2:2011.
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 ASKIN EPS-FR External Wall & Facades Panel has a minimum 0.6mm Colorbond G300 solid steel facers with a SL Grade EPS core material adhered to the steel facers with a 2-part polyurethane adhesive and come in the following thicknesses:

Thickness	Core Density
50, 75, 100, 125, 150, 175, 200, 250mm	13.5 kg/m ³

A3 Product specification

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

Document Name	Version
Product Specification Sheet - External Walls & Facades EPS-FR Panel	January 2023

Thermal Properties The Declared Material R-values of ASKIN EPS-FR (SL) expanded polystyrene insulated core panel have been determined in accordance with AS/NZS 4859.1:2018 and based off test reports for the 50mm & 250mm panel thicknesses.

Declared Material R-Value [(m ² .K)/W]		50	75	100	125	150	175	200	250
Mean Temp(°C)	0°C	1.30	1.95	2.60	3.25	3.95	4.60	5.25	6.55
	15°C	1.20	1.80	2.40	3.00	3.65	4.25	4.85	6.05
	23°C	1.15	1.75	2.35	2.90	3.50	4.10	4.70	5.85

Calculations of Total R-value of ASKIN EPS-FR panels for External 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.

Australia	Total R-Value [(m ² .K)/W] (Summer/Winter) & System U-Value [W/(m ² .K)] (Summer/Winter)								
EPS-FR (SL)	Thickness (mm)	50	75	100	125	150	175	200	250
External Wall	R _(Sum.)	1.3	1.9	2.4	3.0	3.6	4.2	4.8	5.9
	U _(Sum.)	0.77	0.53	0.41	0.33	0.28	0.24	0.21	0.17
	R _(Wint.)	1.4	2.0	2.6	3.2	3.8	4.4	5.0	6.2
	U _(Wint.)	0.3	0.51	0.39	0.31	0.26	0.23	0.20	0.16

Source: Acronem Consulting Australia Pty Ltd; Thermal Performance of ASKIN EPS-FR Core Panels letter Dated 15/09/2021.

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 ASKIN EPS-FR External Wall & Facades Panel.

Ignitability Index	0	Range 0-20
Spread of Flame Index	0	Range 0-10
Heat Evolved Index	0	Range 0-10
Smoke Index	2	Range 0-10

Source: Ignis Labs Pty Ltd; Report No. IGNL-6270-03-01 I01 R00; ASKIN product Evaluation – EPS-FR Panels 50mm-300mm; Issued 23/11/2022.

Group Number Classifications

Group 1 – 150mm or less panel thickness Smoke Growth Rate Index (**SMOGR_{RC}**) < 100

- Insulating sandwich panel, nominal thickness 150 mm or less
- Panel to panel corner junctions require aluminium angles fixed to the steel skins at not more than 300mm centres, with aluminium rivets.

Source: BRANZ; Certificate No. 373 Issue 2 Dated 23/02/2021

Group 1 – 250mm or less panel thickness Smoke Growth Rate Index (**SMOGR_{RC}**) < 100

- Insulating sandwich panel, nominal thickness 250 mm or less
- Panel to panel junctions require steel angles fixed to the steel skins at not more than 300 mm centres, with steel rivets.
- Ceiling panel to panels joins require a steel (stitch) rivet connecting the metal skins at not more than 1200 mm centres

Source: BRANZ; Certificate No. 374 Issue 2 Dated 23/02/2021

Group 2 – 250mm or less panel thickness Smoke Growth Rate Index (**SMOGR_{RC}**) < 100

- Insulating sandwich panel, nominal thickness 250 mm or less.
- Panel to panel junctions require steel angles fixed to the steel skins at not more than 300 mm centres, with steel rivets

Source: BRANZ; Certificate No. 372 Issue 2 Ddated 23/02/2021

Weatherproofing Vertical & Horizontal panel configuration installed as a Direct Fix System in accordance with Verification Methods FV1 with AS/NZS 4284:2008. Nominated serviceability limit state pressures: +1000 Pa and –1000 Pa. Installation requirements are outlined in Section A5 of this Certificate of Conformity.

Source: Ian Bennie and Associates; NCC-2016 Verification Methods FV1 in accordance with AS/NZS 4284:2008; Dated 17/07/2017 & Acronem Consulting Australia Pty Ltd; NCC 2016 Verification Methods FV1 & V2.2.1 vs. NCC 2019(Amdt.1) Verification Methods FV1 & V2.2.1; Dated 19/01/2022.

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 Installation Requirement detailed in the [ASKIN Exteriors Panel Standard Details; Dated 09/09/2022](#) and [Product Specification Sheet - External Walls & Facades EPS-FR Panel; Dated January 2023](#).

A6 Other relevant technical data

Acoustic Performance The 75mm ASKIN EPS-FR 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 EPS-FR panel 75mm	25	20	25 (-4, -5)

Source: Acoustic Laboratories Australia Pty Ltd; Report No.: ALA 09-080-1, Determination of the Airborne Sound Insulation of 75mm ECONOTILT™; dated 25/03/2009

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions A5.2(1)(e). Reports from a professional engineer.
2. Fire Safety Provisions A5.2(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Thermal Provisions A5.2(1)(e). Reports from a professional engineer.
4. Weatherproofing Provision A5.2(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. ASKIN Performance Panels Pty Ltd; ASKIN STRUCTURAL ANALYSIS Design Pressures for Cyclone wind loading - September 2022; Dated 28/09/2022.
2. PENDYALA CONSULTING Pty Ltd; PC JOB NO. 22164; ASKIN EPS-FR WALL PANELS. – Certification of Structural Competence; Dated 21/09/2022.
3. Ian Bennie and Associates Pty Ltd; NATA Accreditation No. 2371; Test Report No. 2017-094-S1; NCC-2016 VERIFICATION METHODS FV1 AND V2.2.1 for Askin Pty Ltd; Dated 16/11/2017.
4. Acronem Consulting Australia Pty Ltd, NCC 2016 Verification Methods FV1 & V2.2.1 vs. NCC 2019(Amdt.1) Verification Methods FV1 & V2.2.1; Dated 19/01/2022.
5. Ignis Labs Pty Ltd; NATA Accreditation No. 20534; Report No. IGNU-6270-03-01 I01 R00; ASKIN product Evaluation – EPS-FR Panels 50mm-300mm; Dated 23/11/2022.
6. BRANZ; IANZ Accreditation No. 37; Test Report No. FAR 2489 ISSUE 3; FIRE ASSESSMENT REPORT; Dated 23/02/2021.
7. BRANZ; IANZ Accreditation No. 37; Certificate No. 372 Issue 2; Fire Test Certificate AS ISO 9705; Dated 23/02/2021.
8. BRANZ; IANZ Accreditation No. 37; Certificate No. 373 Issue 2; Fire Test Certificate AS ISO 9705; Dated 23/02/2021.
9. BRANZ; IANZ Accreditation No. 37; Certificate No. 374 Issue 2; Fire Test Certificate AS ISO 9705; Dated 23/02/2021.
10. Acronem Consulting Australia Pty Ltd; Thermal Performance of ASKIN EPS-FR Core Panels – Roofing, External Wall & Internal Wall Applications Letter; Dated 15/09/2021

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