Certificate of Conformity

Certification Body:

CMI CERTFICATION
ABN: 81 663 250 815
JASANZ Accreditation No. Z4450210AK
PO Box 273,
Palmwoods Qld 4555
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Certificate Holder:

ACE Polystyrene Products Pty Ltd
ABN: 12 603 227 005
203 Woodville Road,
Villawood NSW 2163
Australia
Ph: (02) 9791 1188
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BCA 2022 – Refer to page 8 onwards

Certificate number: CM40376

THIS IS TO CERTIFY THAT

ACE Polystyrene External Cladding System

Type and/or use of product:

External wall cladding for residential Class 1 & 10.

Description of product:

ACE Polystyrene External Cladding System is an Exterior cladding lightweight wall system made with M Grade fire retardant, Polystyrene foam & (EPS) panels 75mm and 100mm -cavity system.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2025**

	Volume One	Volume Two	
Performance Requirement(s):	Not Applicable	H1P1(3)(c)	Structural stability and resistance – Wind actions
		H2P2	Weatherproofing – Refer *Limitation & Condition 3*
		H2P3	Rising damp - Refer *Limitation & Condition 9*
Deemed-to-Satisfy Provision(s):	Not Applicable	H7D4	Construction in bushfire prone areas – BAL-29 *Refer A3*
		H6D2(1)	Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. *Refer A3*
State or territory variation(s):	Not Applicable	H7D4 (NSW, QLD, SA)	

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. This product has not been tested to AS 1530.1-1994 and cannot be considered a non-combustible product.
2. Construction shall be in strict accordance with the ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 3, August 2026.
3. To satisfy H2P2 via performance, the relevant design is required to meet the following;
   (i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table H2V1a; and
   (ii) is not subjected to an ultimate limit state wind pressure of not more than 3.01kPa; and
   (iii) includes only windows that comply with AS 2047.
4. ACE Polystyrene External Cladding Systems are not suitable for use in Cyclonic Regions.
5. In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 7.5.7 of the ABCB Housing Provisions.

Building classification/s:

Class 1 & 10

Glen Gugliotti – CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 31/08/2026

Date of expiry: 31/08/2029

6. In all cases, it is a requirement that the ACE Polystyrene External Cladding System incorporates either;
    a. A timber frame constructed in accordance with AS 1684 series; or
    b. A cold-formed steel frame constructed in accordance with AS 3623-1993 (R2018), or
    c. NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria.
7. Not suitable for use where an FRL is required for a wall and/or Boundary Wall.
8. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
9. A pliable building membrane complying with AS 4200.1:2017 must be installed in accordance with AS 4200.2:2017.
10. Other than the BCA provisions and State or Territory variation(s) listed, the remainder of the information contained in the product's literature is outside the scope of this certification.
11. 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

CE Polystyrene External Cladding System is an Exterior cladding lightweight wall system made with M Grade fire retardant Polystyrene foam & (EPS) panels 75mm and 100mm cavity system used for External wall cladding for residential Class 1 & 10 buildings.

A2 Description of product

ACE Polystyrene External Cladding System consists of the following components:

- ACE Grey Panel, ACE Polystyrene, M-Grade in accordance with AS 1366.3.
- ACE Cavity Batten, H-Grade, 40mm x 25mm, or 40mm x 35mm required for BAL applications, in accordance with AS 1366.3.
- Breathable Wall Wrap that achieves a minimum Light Wall Duty classification and Water Barrier Classification in accordance with AS 4200.1.
    - It must have a “Low” Flammability Index (FI) not greater than 5 in accordance with AS 1530.2.
    - Ametalin SilverwrapTM MD is required for BAL applications.
- Damp proof course (DPC) that meets the requirements of AS/NZS 2904.
- Minimum 48mm wide, wrap-compatible pressure sensitive tape, used to seal the Wall Wrap along its bottom edge at the base of the wall, at joins, and at openings.
- 10G Bugle head, square drive, coarse thread Class 4 to suit steel or timber substrate.
    - Compliant with the corrosion protection requirements of AS 4773 (Part 4 and Appendix C).
    - Achieve a minimum of 25mm penetration into timber wall framing (e.g. Length = Panel + Batten + 25 mm), or minimum 3-full threads through steel wall framing (e.g. Length = Panel + Batten + 3-full threads).
- ACE Grey Plastic Washer, 48 mm diameter flexible high-density polypropylene washer with holes and slots for adhesion / bonding.
- PVC Starter Channel with weep holes.
- Backing rod material is a closed-cell polyethylene foam, 10 mm diameter as ‘back- blocking’ for flexible adhesive sealants placed in joints.
- Fibreglass reinforcing mesh, 5 mm x 5 mm, 160g/m2 non-adhesive alkali resistant fibreglass mesh.
- ACE Expansion Foam, single-component polyurethane low-expansion adhesive foam to suit polystyrene, steel & timber.
- Paintable flexible adhesive sealant at horizontal and vertical control joints.
- Construction adhesive for Starter Channel-to-Panel connection.
- Meshed External beads and trims by PTT must be installed at all external corners, openings and edges.
- Render Coating Minimum Requirements:
    - Base Coat;
        - Fibreglass Reinforcing Mesh; Acrylic Primer and either, Texture Coat or 2x Membrane Top Coat.
        - Base Coat shall be a polymer modified cement base render suitable for application to low porosity surfaces including expanded polystyrene.
    - Acrylic Primer
        - a tintable acrylic primer formulated to reduce porosity and improve adhesion of acrylic finishes,
    - Texture Coat
        - a acrylic based texture coating suitable for external application over rendered surfaces.
    - Membrane Top Coat
        - a pure acrylic exterior grade acrylic membrane formulated for application to renders and textured finishes.

The ACE Polystyrene External Cladding System comes in the following panel sizes:

- (2500mm or 5000mm) x 1200mm x 75mm
- (2500mm or 5000mm) x 1200mm x 100mm

A3 Product specification

Structural stability and resistance to actions. (H1P1)

ACE Polystyrene External Cladding System has been designed and tested for use in AS 4055 Wind Classifications N1 to N4 (excluding AS 4055 Wind Classifications N5, N6, C1, C2, C3 and C4), or Class 1 & 10 buildings with maximum Design Serviceability Limit State Wind Pressures of **+0.82 kPa** and **-1.23 kPa** and maximum Design Ultimate Limit State Wind Pressures of **+2.01kPa**, **-3.01kPa** calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions.

ACE Polystyrene External Cladding System is not load-bearing and control joints are required at regular intervals to allow for building movement. In all cases, where ACE Polystyrene External Cladding System is installed on buildings that conform to the requirements of AS 4055, the;

- distance from ground level to the underside of eaves shall not exceed 6.0m,
- distance from ground level to the highest point of the roof, not including chimneys, shall not exceed 8.5m,
- width including roofed verandas, excluding eaves, shall not exceed 16.0m, and the length shall not exceed five times the width, and
- roof pitch shall not exceed 35 degrees pitch.

Fixing Spacing and Edge Distances

In all cases the maximum vertical fixing spacing shall be 300 mm along studs at maximum 600mm spacing. Fixings must not be placed less than 50 mm or more than the panel thickness the edge or end of a panel.

75mm & 100mm Grey Panel Maximum Fixing Spacing (mm)

Stud Spacing	Walls	AS 4055 Wind Class			
		N1w	N2w	N3w	N4w
450mm	Within 1200mm of corners	300	300	300	300
	Away from corners	300	300	300	300
600mm	Within 1200mm of corners	300	300	300	275
	Away from corners	300	300	300	300

***Source**: Ian Bennie & Associates Pty Ltd, NATA Accreditation No. 2371, Report No. 2022-048-S2, dated 15/8/2022 & Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026*

Weatherproofing of External Walls of Buildings (H2P2)	Weatherproofing for buildings with designs up to ±3.01Pa The weatherproofing performance of *ACE Polystyrene External Cladding System* installed in applications where an external wall; (i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with NCC Volume 2 Table H2V1a; and (ii) is subjected to an absolute ultimate limit state wind pressure of not more than ±3.01kPa (Refer Section 4.1.1 Wind Actions of ACA report 220712, dated 27/08/2026 for the specific configuration requirements applicable to this case); and (iii) includes only windows that comply with AS 2047; has been verified by a combination of prototype testing in accordance with the requirements of AS/NZS 4284 to NCC verification methods, wind strength testing of the *ACE Polystyrene External Cladding System* and a report from a professional engineer. In all cases, applications are limited to maximum design serviceability limit state wind pressures equal to the tested values of +0.82 kPa and -1.23 kPa. Based on these results, the *ACE Polystyrene External Cladding System* is limited to external wall applications where the design serviceability limit state wind pressure, calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions, does not exceed +0.82 kPa and -1.23 kPa. This is deemed to include AS 4055 Wind Classifications: - N1, N2, N3 & N4, and excludes AS 4055 Wind Classifications, N5, N6, C1, C2, C3 & C4. ***Source:*** *Ian Bennie & Associates Pty Ltd, Nata Accreditation No. 2371, Report No. 2022-48-S1, dated 15/8/2022 & Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026*
Damp-proofing of External Walls of Buildings (H2P2)	The *ACE Polystyrene External Cladding System* to be installed with a minimum 100mm clearance to finished ground level, separated by a damp proof course (DPC) which must meet the requirements of AS/NZS 2904. ***Source:*** *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 2/08/2023 & ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 3, August 2026,*
Condensation Management (H4D9)	The *ACE Polystyrene External Cladding System* requires a wall wrap that complies with AS 4200.1 and is installed in accordance with AS 4200.2 and sealed with flashing tape at all joins, openings and around the perimeter of the wall frame. The wall wrap must achieve the vapour permeance specified in ABCB Housing Provisions Standard Table 10.8.1. Wall wraps must achieve a minimum AS 4200.1, 5.3.4 vapour control membrane (VCM) classification of; - Minimum Class 3 (vapour permeable) in Climate Zones 1–5; and - Class 4 (vapour permeable) in Climate Zones 6–8. 40mm x 25mm H-Grade battens, are arranged vertically on-stud to create a cavity between the cladding and the external side of the primary insulation layer, unobstructed by any control layer and drained to the exterior. The base of the cavity is drained and ventilated by the PVC Starter Channel with weepholes providing openings of not less than 1000mm^2/lm of wall at the base. The top of each cavity shall be detailed to remain open under windows by stopping the vertical battens short of the penetration, and, at the top of the wall by ensuring the eave lining does not close the cavity. ***Source:*** *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026 & ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 3, August 2026,*

Total R-value of External Walls (H6D2(1))

The Total R-values of the ACE Polystyrene External Cladding System, with minimum 25mm thickness ACE Cavity Batten, are:

Panel Thickness	Insulation	Vertical Cavity Spacer	Timber Frame Construction (90x35 @ 600mm c/c)		Steel Frame Construction (90x35 @ 600mm c/c)	
			Summer	Winter	Summer	Winter
75mm	R2.0 Glasswool	25mm	2.56	2.69	2.41	2.65
100mm	R2.7 Glasswool	25mm	3.25	3.42	3.20	3.37

Source: *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026*

Bushfire Attack Level External Walls of Buildings (H7D4(2)(a))

ACE Polystyrene External Cladding System has been tested for heat intensity and ember attack of bushfires in accordance with AS 1530.8.1, as per the requirements of AS 3959:2018, achieving a Bushfire Attack Level – BAL-29 rating.

The following costing system is required and approved for BAL-29.

- 75 mm ACE Grey Panel fixed with 4.5mmx100mm bugle head coarse thread Class 4, 48 mm dia., washers @ 300mm spacing; and
- MACRENDER HBS 2x2.4mm coats with mesh 5x5x160gsm, MAC Texture Coat, total nominal render thickness 3.2mm to 6.4mm thickness,
- Ametalin SilverwrapTM Medium Duty; and
- Bosman PU Glue Foam; and
- PVC Starter Channel, meshed PVC external angle,
- H Grade EPS Battens nominally 40mmx35mm thick,
- 90mmx45mm timber framing, or 90mm deep steel framing
- 10mm Plasterboard

Source: *WarringtonFire Australia Pty Ltd, Report No: 46883400 R2.0, FAS220074, dated 8/4/2022*

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

ACE Polystyrene External Cladding System only to be installed in accordance with ACE Polystyrene External Cladding System – Cavity System Specification & Installation Manual Australia – August 2026.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Energy Efficiency Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
2. Fire Safety Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
3. Structural Resistance Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
4. Weatherproofing and Damp Rising Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. Compliance with H1P1 is based on the following reports:
    a. Ian Bennie & Associates Pty Ltd, NATA Accreditation No. 2371, Report No. 2022-048-S2, dated 15/8/2022.
    b. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026.
2. Compliance with H2P2 is based on the following reports:
    a. Ian Bennie & Associates Pty Ltd, Nata Accreditation No. 2371, Report No. 2022-48-S1, dated 15/8/2022.
    b. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026.
3. Compliance with H6D2(1) is based on the following reports:
    a. AWTA Product Testing Pty Ltd, NATA Accreditation No. 986, 985, 1356, Report No: 22-002821, dated 2/8/2022. Thermal testing of the 40mm Ace Polystyrene panel.
    b. AWTA Product Testing Pty Ltd, NATA Accreditation No. 986, 985, 1356, Report No: 22-002822, dated 3/8/2022. Thermal testing of the 100mm Ace Polystyrene panel.
    c. Acronem Consulting Australia Pty Ltd, Report No: W220805a, dated 11/8/2022, Thermal calculations of the 75mm panel with steel frames.
    d. Acronem Consulting Australia Pty Ltd, Report No: W220805b, dated 11/8/2022, Thermal calculations of the 100mm panel with steel frames.
    e. Acronem Consulting Australia Pty Ltd, Report No: W220805c, dated 11/8/2022, Thermal calculations of the 75mm panel with timber frames.
    f. Acronem Consulting Australia Pty Ltd, Report No: W220805d, dated 11/8/2022, Thermal calculations of the 100mm panel with timber frames.
    g. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 27/08/2026.
4. Compliance with H7D4(2)(a) is based on the following report:
    a. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Summary of Assessment, Report No: 46883400 R2.0, FAS220074, dated 8/4/2022.

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

Certificate of Conformity

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Type and/or use of product:

External wall cladding for residential Class 1 & 10.

Description of product:

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

	Volume One	Volume Two	
Performance Requirement(s):	Not Applicable	H1P1(2)(c)	Structural stability and resistance – Wind actions
		H2P2	Weatherproofing – Refer *Limitation & Condition 3*
		H2P3	Rising damp - Refer *Limitation & Condition 9*
Deemed-to-Satisfy Provision(s):	Not Applicable	H7D4	Construction in bushfire prone areas – BAL-29 *Refer A3*
		H6D2(1)	Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. *Refer A3*
State or territory variation(s):	Not Applicable	H7D4 (NSW, QLD, SA)	

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. This product has not been tested to AS 1530.1-1994 and cannot be considered a non-combustible product.
2. Construction shall be in strict accordance with the ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 2, July 2023.
3. To satisfy H2P2 via performance, the relevant design is required to meet the following;
   (i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table H2V1a; and
   (ii) is not subjected to an ultimate limit state wind pressure of not more than 3.01kPa; and
   (iii) includes only windows that comply with AS 2047.
4. ACE Polystyrene External Cladding Systems are not suitable for use in Cyclonic Regions.
5. In all installations the minimum clearance between the underside of panel and the adjoining ground surface level below must comply with the specifications in Part 7.5.7 of the ABCB Housing Provisions.

Building classification/s:

Class 1 & 10

Glen Gugliotti – CMI

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Date of issue: 31/08/2026

Date of expiry: 31/08/2029

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    a. A timber frame constructed in accordance with AS 1684 series; or
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    c. NASH Standard for Residential and Low-rise Steel Framing, Part 1: Design Criteria.
7. Not suitable for use where an FRL is required for a wall and/or Boundary Wall.
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APPENDIX A – PRODUCT TECHNICAL DATA

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A2 Description of product

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- ACE Cavity Batten, H-Grade, 40mm x 25mm, or 40mm x 35mm required for BAL applications, in accordance with AS 1366.3.
- Breathable Wall Wrap that achieves a minimum Light Wall Duty classification and Water Barrier Classification in accordance with AS 4200.1.
    - It must have a "Low" Flammability Index (FI) not greater than 5 in accordance with AS 1530.2.
    - Ametalin SilverwrapTM MD is required for BAL applications.
- Damp proof course (DPC) that meets the requirements of AS/NZS 2904.
- Minimum 48mm wide, wrap-compatible pressure sensitive tape, used to seal the Wall Wrap along its bottom edge at the base of the wall, at joins, and at openings.
- 10G Bugle head, square drive, coarse thread Class 4 to suit steel or timber substrate.
    - Compliant with the corrosion protection requirements of AS 4773 (Part 4 and Appendix C).
    - Achieve a minimum of 25mm penetration into timber wall framing (e.g. Length = Panel + Batten + 25 mm), or minimum 3-full threads through steel wall framing (e.g. Length = Panel + Batten + 3-full threads).
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- PVC Starter Channel with weep holes.
- Backing rod material is a closed-cell polyethylene foam, 10 mm diameter as 'back- blocking' for flexible adhesive sealants placed in joints.
- Fibreglass reinforcing mesh, 5 mm x 5 mm, 160g/m2 non-adhesive alkali resistant fibreglass mesh.
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- Paintable flexible adhesive sealant at horizontal and vertical control joints.
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- Render Coating Minimum Requirements:
    - Base Coat;
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        - a tintable acrylic primer formulated to reduce porosity and improve adhesion of acrylic finishes,
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        - a acrylic based texture coating suitable for external application over rendered surfaces.
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        - a pure acrylic exterior grade acrylic membrane formulated for application to renders and textured finishes.

The *ACE Polystyrene External Cladding System* comes in the following panel sizes:

- (2500mm or 5000mm) x 1200mm x 75mm
- (2500mm or 5000mm) x 1200mm x 100mm

A3 Product specification

Structural stability and resistance to actions. (H1P1)

ACE Polystyrene External Cladding System has been designed and tested for use in AS 4055 Wind Classifications N1 to N4 (excluding AS 4055 Wind Classifications N5, N6, C1, C2, C3 and C4), or Class 1 & 10 buildings with maximum Design Serviceability Limit State Wind Pressures of **+0.82 kPa** and **-1.23 kPa** and maximum Design Ultimate Limit State Wind Pressures of **+2.01kPa**, **-3.01kPa** calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions.

ACE Polystyrene External Cladding System is not load-bearing and control joints are required at regular intervals to allow for building movement. In all cases, where *ACE Polystyrene External Cladding System* is installed on buildings that conform to the requirements of AS 4055, the;

- distance from ground level to the underside of eaves shall not exceed 6.0m,
- distance from ground level to the highest point of the roof, not including chimneys, shall not exceed 8.5m,
- width including roofed verandas, excluding eaves, shall not exceed 16.0m, and the length shall not exceed five times the width, and
- roof pitch shall not exceed 35 degrees pitch.

Fixing Spacing and Edge Distances

In all cases the maximum vertical fixing spacing shall be 300 mm along studs at maximum 600mm spacing. Fixings must not be placed less than 50 mm or more than the panel thickness the edge or end of a panel.

75mm & 100mm Grey Panel Maximum Fixing Spacing (mm)					
Stud Spacing	Walls	AS 4055 Wind Class			
		N1	N2	N3	N4
450mm	Within 1200mm of corners	300	300	300	300
	Away from corners	300	300	300	300
600mm	Within 1200mm of corners	300	300	300	275
	Away from corners	300	300	300	300

***Source**: Ian Bennie & Associates Pty Ltd, NATA Accreditation No. 2371, Report No. 2022-048-S2, dated 15/8/2022 & Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026*

Weatherproofing of External Walls of Buildings (H2P2)	The weatherproofing performance of the *ACE Polystyrene External Cladding System* to prevent the penetration of water is verified by prototype testing in accordance with the requirements of AS/NZS 4284:2008 Testing of Building Facades, Water Penetration Tests in accordance with NCC 2019, Volume Two Verification Method V2.2.1 which has been deemed to demonstrates the identical required performance for NCC 2022 H2V1. The weatherproofing performance of *ACE Polystyrene External Cladding System* installed in applications where an external wall; (i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with NCC 2022, Volume Two & Housing Provisions, Table H2V1a; and (ii) is subjected to an absolute ultimate limit state wind pressure of more than 2.5 kPa but not more than 3.01kPa; and (iii) includes only windows that comply with AS 2047; has been verified by a combination of prototype testing in accordance with the requirements of AS/NZS 4284, wind strength testing of the ACE Polystyrene External Cladding System, and a report from a professional engineer. In all cases, applications are limited to maximum design serviceability limit state wind pressures equal to the tested values of +0.82 kPa and -1.23 kPa. **Weatherproofing for buildings with designs up to ±3.01Pa** The weatherproofing performance of *ACE Polystyrene External Cladding System* installed in applications where an external wall; (ii) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with NCC Volume 2 Table H2V1a; and (ii) is subjected to an absolute ultimate limit state wind pressure of not more than ±3.01kPa (Refer Section 4.1.1 Wind Actions of ACA report 220712, dated 27/08/2026 for the specific configuration requirements applicable to this case); and (iii) includes only windows that comply with AS 2047; has been verified by a combination of prototype testing in accordance with the requirements of AS/NZS 4284 to NCC verification methods, wind strength testing of the *ACE Polystyrene External Cladding System* and a report from a professional engineer. In all cases, applications are limited to maximum design serviceability limit state wind pressures equal to the tested values of +0.82 kPa and -1.23 kPa. Based on these results, the *ACE Polystyrene External Cladding System* is limited to external wall applications where the design serviceability limit state wind pressure, calculated in accordance with AS/NZS 1170.2 Structural Design Actions Part 2: Wind Actions, does not exceed +0.82 kPa and -1.23 kPa. This is deemed to include AS 4055 Wind Classifications: - N1, N2, N3 & N4, and excludes AS 4055 Wind Classifications, N5, N6, C1, C2, C3 & C4. ***Source:*** *Ian Bennie & Associates Pty Ltd, Nata Accreditation No. 2371, Report No. 2022-48-S1, dated 15/8/2022 & Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026*
Damp-proofing of External Walls of Buildings (H2P2)	The *ACE Polystyrene External Cladding System* to be installed with a minimum 100mm clearance to finished ground level, separated by a damp proof course (DPC) which must meet the requirements of AS/NZS 2904. ***Source:*** *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 2/08/2023 & ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 2, July 2023*

Condensation Management (H4D9)

The *ACE Polystyrene External Cladding System* requires a wall wrap that complies with AS 4200.1 and is installed in accordance with AS 4200.2 and sealed with flashing tape at all joins, openings and around the perimeter of the wall frame.

The wall wrap must achieve the vapour permeance specified in ABCB Housing Provisions Standard Table 10.8.1. Wall wraps must achieve a minimum AS 4200.1, 5.3.4 vapour control membrane (VCM) classification of;

- Minimum Class 3 (vapour permeable) in Climate Zones 1–5; and

- Class 4 (vapour permeable) in Climate Zones 6–8.

40mm x 25mm H-Grade battens, are arranged vertically on-stud to create a cavity between the cladding and the external side of the primary insulation layer, unobstructed by any control layer and drained to the exterior.

The base of the cavity is drained and ventilated by the PVC Starter Channel with weepholes providing openings of not less than 1000mm^2/lm of wall at the base. The top of each cavity shall be detailed to remain open under windows by stopping the vertical battens short of the penetration, and, at the top of the wall by ensuring the eave lining does not close the cavity.

Source: *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026 & ACE Polystyrene External Cladding System, Technical & Installation Manual, Version 2, July 2023,*

Total R-value of External Walls (H6D2(1))

The Total R-values of the ACE Polystyrene External Cladding System, with minimum 25mm thickness ACE Cavity Batten, are:

Panel Thickness	Insulation	Vertical Cavity Spacer	Timber Frame Construction (90x35 @ 600mm c/c)		Steel Frame Construction (90x35 @ 600mm c/c)	
			Summer	Winter	Summer	Winter
75mm	R2.0 Glasswool	25mm	2.56	2.69	2.41	2.65
100mm	R2.7 Glasswool	25mm	3.25	3.42	3.20	3.37

Source: *Acronem Consulting Australia Pty Ltd report ACA 220712 dated 2/08/2023*

Bushfire Attack Level External Walls of Buildings (H7D4(2)(a))

ACE Polystyrene External Cladding System has been tested for heat intensity and ember attack of bushfires in accordance with AS 1530.8.1, as per the requirements of AS 3959:2018, achieving a Bushfire Attack Level – BAL-29 rating.

The following costing system is required and approved for BAL-29.

- 75 mm ACE Grey Panel fixed with 4.5mmx100mm bugle head coarse thread Class 4, 48 mm dia., washers @ 300mm spacing; and
- MACRENDER HBS 2x2.4mm coats with mesh 5x5x160gsm, MAC Texture Coat, total nominal render thickness 3.2mm to 6.4mm thickness,
- Ametalin SilverwrapTM Medium Duty; and
- Bosman PU Glue Foam; and
- PVC Starter Channel, meshed PVC external angle,
- H Grade EPS Battens nominally 40mmx35mm thick,
- 90mmx45mm timber framing, or 90mm deep steel framing
- 10mm Plasterboard

Source: *WarringtonFire Australia Pty Ltd, Report No: 46883400 R2.0, FAS220074, dated 8/4/2022*

A4 Manufacturer and manufacturing plant(s)

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

A5 Installation requirements

ACE Polystyrene External Cladding System only to be installed in accordance with ACE Polystyrene External Cladding System – Cavity System Specification & Installation Manual Australia – Version 2 July 2023.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Energy Efficiency Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
2. Fire Safety Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
3. Structural Resistance Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.
4. Weatherproofing and Damp Rising Provisions A5G3(1)(d)&(e). Reports issued by Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. Compliance with H1P1 is based on the following reports:
    a. Ian Bennie & Associates Pty Ltd, NATA Accreditation No. 2371, Report No. 2022-048-S2, dated 15/8/2022.
    b. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026.
2. Compliance with H2P2 is based on the following reports:
    a. Ian Bennie & Associates Pty Ltd, Nata Accreditation No. 2371, Report No. 2022-48-S1, dated 15/8/2022.
    b. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026.
3. Compliance with H6D2(1) is based on the following reports:
    a. AWTA Product Testing Pty Ltd, NATA Accreditation No. 986, 985, 1356, Report No: 22-002821, dated 2/8/2022. Thermal testing of the 40mm Ace Polystyrene panel.
    b. AWTA Product Testing Pty Ltd, NATA Accreditation No. 986, 985, 1356, Report No: 22-002822, dated 3/8/2022. Thermal testing of the 100mm Ace Polystyrene panel.
    c. Acronem Consulting Australia Pty Ltd, Report No: W220805a, dated 11/8/2022, Thermal calculations of the 75mm panel with steel frames.
    d. Acronem Consulting Australia Pty Ltd, Report No: W220805b, dated 11/8/2022, Thermal calculations of the 100mm panel with steel frames.
    e. Acronem Consulting Australia Pty Ltd, Report No: W220805c, dated 11/8/2022, Thermal calculations of the 75mm panel with timber frames.
    f. Acronem Consulting Australia Pty Ltd, Report No: W220805d, dated 11/8/2022, Thermal calculations of the 100mm panel with timber frames.
    g. Acronem Consulting Australia Pty Ltd report ACA 220712 dated 28/08/2026.
4. Compliance with H7D4(2)(a) is based on the following report:
    a. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Summary of Assessment, Report No: 46883400 R2.0, FAS220074, dated 8/4/2022.

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