

Certificate of Conformity

Certificate number: CM40264

Certification Body:


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Certificate Holder:


 Dulux® Acra-Tex®
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THIS IS TO CERTIFY THAT

Exsulite Thermal Facade Cladding Systems

Type and/or use of product:

External wall cladding for residential Class 1 & 10.

Description of product:

Exsulite Thermal Facade Cladding Systems are certified in the following configurations:

- Exsulite Thermal Facade Cladding System
- Exsulite Composite Thermal Facade Cladding System

Refer A2 for more details.

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

BCA 2019 (Amdt. 1)

	Volume One	Volume Two
Performance Requirement(s):	Not Applicable	P2.1.1(b)(iii) Structural stability and resistance – Wind actions P2.2.2 Weatherproofing P2.2.3 Rising damp
Deemed-to-Satisfy Provision(s):	Not Applicable	3.10.5.0 Construction in bushfire prone areas – BAL-29 3.12.1.4 Energy Efficiency – External Walls - Contributes to the overall energy efficiency of the building. Refer A3
State or territory variation(s):	Not Applicable	3.10.5.0 (NSW, Qld), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)

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 [Exsulite Thermal Façade Cladding Specification and Installation Manual, Australia, 1 May 2020](#) and [Exsulite Thermal Façade Cladding Construction Drawings Manual, Australia, 1 May 2020](#).
2. Exsulite Thermal Facade Cladding Systems are not suitable for use in Cyclonic Regions.

Building classification/s:

Class 1 & 10


 Richard Donarski - CMI


 Don Grehan – Unrestricted Building Certifier

Date of issue: 17/11/2020

Date of expiry: 17/11/2023



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3. 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 3.5.4.7 of Volume 2 of the NCC.
4. In all cases, it is a requirement that the Exsulte Thermal Façade Cladding System incorporates either;
 - a. A timber frame constructed in accordance with AS 1684-2010 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; or
 - d. A supporting Structure compliant with other standards as applicable.
5. It is a requirement that system installation is performed by an appropriately licensed trades person to install cladding relative to the governing State Building Authority requirements. Each state & territory has different licensing & trade registration requirements.
6. Not suitable for use where an FRL is required for a wall and/or Boundary Wall.
7. Suitable for Residential External Walls to NCC Volume Two, Class 1 and 10 buildings with wind loads to either AS/NZS 1170.2:2011 or AS 4055-2012 "Wind loads for housing" for Wind Classifications N2, N3, N4, within the AS 4055-2012 limitations less than 8.5m in height less than 16m in width and where the length does not exceed five times the width and roof pitch does not exceed 35 degrees, fixed to either steel or timber frames.
8. Adjacent finished grade must slope away from the building in accordance with local building codes, typically a minimum slope of 50mm over the first metre.
9. Do not install external cladding in areas where it may remain in contact with standing water or debris. Do not back fill.
10. Check to ensure that the correct damp course has been installed to slab edge and termite treatment has been completed. Where no damp course has been installed by others then it must be installed by the Exsulte Installer prior to the wall wrap being installed.
11. This certificate is limited to the details within this certificate including the above compliance elements, product description, purpose or use.
12. 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.
13. 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. This may result in the product being classified as a non-conforming building product.

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, CertMark International 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

Exsulite Thermal Facade Cladding Systems are designed as an integrated non-load bearing lightweight facade system for residential Class 1 & 10 buildings to deliver a weatherproof external building envelope with a self-draining cavity for moisture management whilst providing thermal performance (R value).

A2 Description of product

Exsulite Thermal Facade Cladding System is certified in the following configurations:

Exsulite Thermal Facade Cladding System

Comprises Exsulite Breathable Wrap (or breathable Wall Wrap complying with AS/NZS 4200.1:2017, M-Grade Blue EPS Panel, Cavity Spacers, Exsulite Precoated Starter Piece or Starter Channel with weep holes, Fixing Components / Detail relative to specific Wind Classifications and finished with a AcraTex approved high build weatherproof texture coating system.

Exsulite Composite Thermal Facade Cladding System

Comprises Exsulite Breathable Wrap (or breathable Wall wrap complying with AS/NZS 4200.1:2017), Factory base coated, M-Grade Blue EPS Panel, Cavity Spacers, Exsulite Precoated Starter Piece or Starter Channel with weep holes, Fixing Components / Detail relative to specific Wind Classifications and finished with a AcraTex approved high build weatherproof texture coatings system.

Components

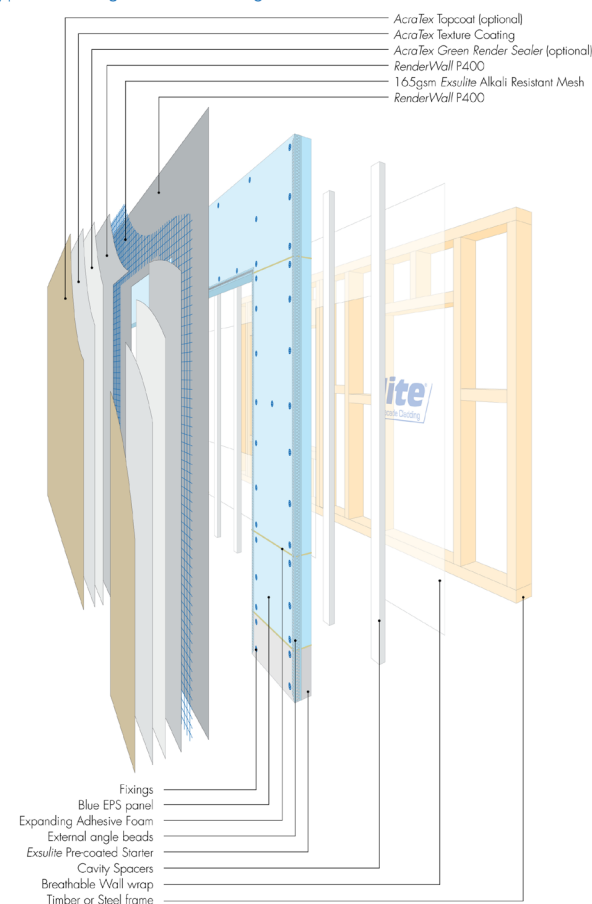
Panel & EPS Components

- Blue EPS panel – M Grade EPS to AS 1366.3:1992
- Composite Blue Precoated Panel - M Grade EPS to AS 1366.3:1992, Factory coated with 1mm (min.) Polymer Modified Cementitious Basecoat with embedded alkali resistant
- Exsulite Pre-coated Starter - M Grade EPS to AS 1366.3:1992, Factory coated with 1mm (min.) Polymer Modified Cementitious Basecoat with alkali resistant mesh - Exsulite Pre-coated Angled Cavity Starter Piece (SP1) - Exsulite Pre-coated Reveal & Slab Cavity Starter Piece (SP2) - Exsulite Pre-coated Square Cavity Starter Piece (SP3) - Exsulite Pre-coated Sill Piece (SP4)
- Cavity Spacers – H Grade EPS, to AS 1366.3:1992, Batten

Alternative Cavity Spacers

- Metal Top Hat Non-Perforated - 24mm, 0.42mm BMT, YS550, AZ150 (min) or 35mm, 0.55mm BMT, YS270, Z275 (min)
- Metal Top Hat Perforated - 24mm, 0.42mm BMT, YS550, AZ150 (min) or 35mm, 0.55mm BMT, YS270, Z275 (min)
- MGP10 H3 (min) Kiln Dried Treated Pine Batten

Typical Configuration Drawing



Starter Channels & Angles

- Exsulite Starter Channel (PVC) - Blue with weep holes
- Exsulite Starter Channel (Aluminium) - With Weep Holes
- Corner Angels (PVC) - Blue Corner Angle / Render Bead
- Corner Angels (Aluminium) - Corner Angle / Render Bead, with or without mesh

Fixings

- Panel Fixing Disk - 40mm BLUE plastic Fixing Disk - Dulux Approved
- Panel Fixing Screw - 10 Gauge, 12 TPI, Needle Point, Bugle Head, Square Drive, Class 3 or 4 relative to location
- Panel Fixing Metal Screw - 10 Gauge, 20 TPI, Needle Point, Bugle Head, Square Drive, Class 3 or 4 relative location
- Top Hat Fixing Screw - 12 Gauge, 11 TPI, Type 17, Hex Head, Class 3
- Top Hat Fixing Screw, Multifix - 12 Gauge, 11 TPI, Type 17, Hex Head, Class 3

Coatings Components

- RenderWall P400 Basecoat - Dulux approved formulations
- AcraTex Acrylic Texture - Dulux approved formulations
- AcraTex Mineral Texture - Dulux approved formulations
- AcraTex Top Coats AcraShield or AcraSkin - Dulux - approved formulations

Accessories

- Breathable Wall Wrap - Exsulite breathable wall wrap or alternative wall wrap meeting AS/NZS 4200.1:2017 - Vapour Permeable
- Self Adhesive flashing tape - Aluminium Bituminous self-adhesive flashing tape
- Construction Adhesive - Construction Adhesive - Water Based
- PU Sealant - Paintable Polyurethane Joint Sealant
- PU Expanding Foam Adhesive - Low Foaming Single Pack Polyurethane Adhesive - Dulux Approved
- Sheet Membrane - Self-adhesive butyl rubber sheet with Polypropylene fabric facing suitable for coating - Dulux Approved
- Damp Proof Course - Polyethylene Damp Course to AS/NZS 2904:1995
- Exsulite Mesh - Fiberglass Mesh 165gsm (+/-5%), 5x5mm, Alkali Resistant

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Structural

Panel Fixings Specification for Vertical Batten Configuration - Minimum Panel Thickness & Fixing Spacings To Wind Classifications AS 4055-2012 and/or AS/NZS 1170.2:2011

Wind Classification to AS 4055-2012 for Wall areas located further than 1200mm from corners

Wind Classification (AS 4055-2012)	Stud Centres 450mm			Stud Centres 600mm		
	Min Panel Thickness	Fixings per Stud	Fixing Spacings	Min Panel Thickness	Fixings per Stud	Fixing Spacings
N1 & N2	60mm	5	275mm	60mm	5	275mm
N3	60mm	5	275mm	60mm	5	275mm
N4	60mm	5	275mm	75mm	5	275mm

For Wind Classification to AS 4055-2012 for Wall areas located within 1200mm of corners

Wind Classification (AS 4055-2012)	Stud Centres 450mm			Stud Centres 600mm		
	Min Panel Thickness	Fixings per Stud	Fixing Spacings	Min Panel Thickness	Fixings per Stud	Fixing Spacings
N1 & N2	60mm	5	275mm	60mm	5	275mm
N3	60mm	5	275mm	75mm	6	220mm
N4	60mm	7	180mm	100mm	8	150mm

AS/NZS 1170.2:2011 – Wind Pressure Criteria Design for Buildings that fall outside AS 4055-2012

Maximum fixing spacings to satisfy design ultimate wind pressures (kPa)

Design Ultimate Wind Pressure kPa (AS/NZS 1170.2:2011)	Stud Centres 450mm			Stud Centres 600mm		
	Min Panel Thickness	Fixings per Stud	Fixing Spacings	Min Panel Thickness	Fixings per Stud	Fixing Spacings
1.0	60mm	5	275mm	60mm	5	275mm
1.5	60mm	5	275mm	60mm	5	275mm
2.0	60mm	5	275mm	60mm	6	220mm
2.5	60mm	6	220mm	75mm	8	150mm
3.0	60mm	7	180mm	75mm	9	130mm
3.5	60mm	8	150mm	100mm	10	120mm
4.0	75mm	9	130mm	100mm	11	110mm
4.5	75mm	10	120mm	-	-	-
5.0	75mm	11	110mm	-	-	-
5.5	75mm	11	110mm	-	-	-

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Top Hat and Panel Fixing Specification for Horizontal Top Hat Configuration

Top Hat to Stud (Timber or Metal up to 1.8 BMT)	
Fixing Spacing	600mm (max) centres to both sides of Top Hat legs

Wind Classification (AS 4055-2012)	Design Ultimate Wind Pressure AS/NZS 1170.2:2011 (kPa)		Max. Stud Spacing (mm)	Top-Hat Spacing (mm)	
	Over 1200mm from corners	Within 1200mm of corners		Over 1200mm from corners	Within 1200mm of corners
N1 & N2	0.67/-0.62	-1.25	600	600	600
N3	1.05/-0.98	-1.95	600	600	600
N4	1.56/-1.45	-2.90	450	600	450

AS 4055-2012: Minimum Panel Thickness & Maximum Fixing Spacings Over 1200mm from Corners				
Wind Classification (AS 4055-2012)	Top-hat spacing 450mm		Top-hat spacing 600mm	
	Min. Panel Thickness (mm)	Max. Fixing Spacings (mm)	Min. Panel Thickness (mm)	Max. Fixing Spacings (mm)
N1 & N2	60	275	60	275
N3	60	275	60	275
N4	60	275	75	275

AS/NZS 1170.2:2011 (kPa): Design Wind Pressure: For Buildings that fall outside of AS 4055-2012 Minimum Panel Thickness & Maximum Fixing Spacings (kPa)				
Design Ultimate Wind Pressure kPa (AS/NZS 1170.2:2011)	Top-hat spacing 450mm		Top-hat spacing 600mm	
	Min. Panel Thickness (mm)	Max. Fixing Spacings (mm)	Min. Panel Thickness (mm)	Max. Fixing Spacings (mm)
1.0	60	275	60	275
1.5	60	275	60	275
1.95	60	275	60	220
2.5	60	220	-	-
2.9	60	180	-	-

Notes: Assumption is based on a panel size of 2400mm x 1200mm panel size. It is acceptable to use a panel thickness equal to or greater than the minimum requirement to satisfy the wind classification and meet thermal requirements. Increased peak pressures occur near the edges of side walls and corners on buildings. Using AS 4055-2012, the size of the building has been assumed and hence the size of these high pressure zones is specified as within 1200mm from corners.

Weatherproofing	Is limited to external wall applications where the Design Serviceability Limit State Wind Pressure calculated in accordance with AS/NZS 1170.2:2011 does not exceed of +0.82 kPa and -1.23 kPa. This includes AS 4055-2012 Wind Classifications N1, N2, N3 and N4 and excludes N5, N6, C1, C2, C3 and C4.
Bushfire Attack Level	<i>Exsulite</i> Thermal Facade Cladding has been tested for heat intensity and ember attack of bushfires in relation to AS 3959-2018 making suitable for use up to a Bushfire Attack Level – BAL-29.

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Thermal Performance

Thermal R Value Ratings

Timber Frame Construction					
Panel Thickness	Vertical Cavity Spacer	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	15mm	3.69	3.90	2.16	2.28
75mm	25mm	4.12	4.36	2.57	2.71
100mm	25mm	4.77	5.04	3.22	3.38
Timber Frame Construction					
Panel Thickness	Horizontal Top Hat	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	25mm or 35mm	3.73	3.92	2.18	2.28
75mm	25mm or 35mm	4.13	4.33	2.57	2.69
100mm	25mm or 35mm	4.78	5.01	3.22	3.37
Steel Frame Construction					
Panel Thickness	Vertical Cavity Spacer	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	15mm	3.59	3.80	2.10	2.22
75mm	25mm	4.00	4.20	2.50	2.61
100mm	25mm	4.67	4.91	3.14	3.29
Steel Frame Construction					
Panel Thickness	Horizontal Top Hat	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	25mm or 35mm	3.59	3.77	2.11	2.21
75mm	25mm or 35mm	4.00	4.20	2.50	2.61
100mm	25mm or 35mm	4.67	4.90	3.14	3.29

Notes: The above results are combined by area weighting & isothermal planes method to deduce Overall Surface "TOTAL R" to AS/NZS 4859 Parts 1 & 2:2018.

Exsulite R-Values are calculated on M Grade EPS manufactured to AS 1366.3-1992 with a conductivity value of 0.0383 W/m2.K. as a total walling system from plasterboard to coating.

A4 Manufacturer and manufacturing plant(s)

This field is voluntary. For more information, please contact Certificate Holder.

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A5 Installation requirements

Exsulite Thermal Facade Cladding System only to be installed in accordance with [Exsulite® Thermal Facade Cladding Specification & Installation Manual Australia - 01 May 2020](#) and [Exsulite® Thermal Facade Cladding Construction Drawings Manual Australia 01 May 2020](#).

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Fire Safety Provisions A5.2(1)(e). Reports from a professional engineer.
2. Structural Provisions A5.2(1)(e). Reports from a professional engineer.
3. Thermal Provisions A5.2(1)(e). Reports from a professional engineer.
4. Weatherproofing Provision A5.2(1)(e). Reports from a professional engineer.

B2 Reports

1. Warringtonfire Australia; NATA Accreditation No. 3277; Fire Assessment Report No: 27615 Rev.8.1; Bushfire performance of Dulux Exsulite cavity wall system; Dated 09/06/2020.
2. Ian Bennie and Associates; NATA Accreditation No. 2371; Test Report No. 2020-001-S1; Exsulite Cladding System – Cavity; Dated 20/04/2020.
3. Acronem Consulting Australia Pty Ltd; Appraisal Report No. ACA 191129 200916; Exsulite Thermal façade Cladding NCC 2019 Vol. 2 Appraisal; Dated 16/09/2020.

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