



# Certificate of Conformity

Certificate number: CM40112 Rev2

**Certification Body:**

  
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**THIS TO CERTIFY THAT**

## RMAX ThermaWall™ Direct Fix or Batten Cavity Fix (EIFS) Cladding System

**Type and/or use of product:**

The RMAX ThermaWall™ Direct Fix or Batten Cavity Fix (EIFS) Cladding Systems are certified for use as an External Insulation Finishing System (EIFS) in class 1 and 10 buildings. Either system can be applied to steel or timber frames.

**Description of product:**

The RMAX ThermaWall™ Direct Fix or Batten Cavity Fix (EIFS) Cladding System Panels are made from Isolite® closed cell Expanded Polystyrene (EPS) bead material (density grade M).

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

**BCA 2016**

	Volume One	Volume Two
<b>Performance Requirement(s)</b>	Not applicable to this Product	P2.1.1(a)&(b)(i),(ii),(iii) Structural for External Wall Cladding <sup>(a)</sup> P2.2.2 Weatherproofing for External Wall Cladding <sup>(c)</sup> P2.3.4 Bushfire Areas for External Wall Cladding <sup>(d)</sup> P2.6.1 Energy Efficiency for External Walls <sup>(f)</sup>
<b>Deemed-to-Satisfy Provision(s):</b>	Not applicable to this Product	Not applicable to this Product
<b>State or territory variation(s):</b>	Not applicable to this Product	TAS P2.3.4 VIC P2.6.1 In New South Wales, Part 2.6 does not apply. In the Northern Territory, Part 2.6 is replaced with BCA 2009 Part 2.6.

**SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B**

**Limitations and conditions:**

- Wind load resistance is dependent on panel thickness, stud spacing and fastener spacing. Please see RMAX Technical Data and Installation Manuals, [08 -17 Batten Cavity Fix Version 4 0 Codemark](#) and [08 - 17 Direct Fix version 4 0 Codemark](#), for performance ratings.
- Minimum BMT of steel frames must be 1.0mm.
- The RMAX ThermaWall™ Direct Fix or Batten Cavity Fix (EIFS) Cladding System must be installed with breathable sarking installed behind the EPS.
- Is only suitable for applications up to a maximum of BAL-29 when constructed using 75mm and 100mm thick board on both direct fix or batten cavity fix applications, with minimum 4.8mm thick RMAX Orange Board™ Plus Render System on external face of external walls, 90mm x 45mm timber frame and 10mm thick plasterboard on internal face. Only valid when rendered side, faces fire front.

**Building classification/s:**

Class 1 and 10

  
John Thorpe - CMI

  
Don Grehan – Unrestricted Building Certifier

Date of issue: 11/08/2017

Date of expiry: 17/07/2020





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**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](http://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.

**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.



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## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

As per page one.

### A2 Description of product

The ThermaWall™ Panels incorporate a dove tail groove design at equal spacings of 75mm on one side of the panel which can be installed to the stud frame either vertically or horizontally. The ThermaWall™ Panels are fixed to the structural frame (non-grooved side of panel facing the frame) using 10G class 3 or 4 screws and 40mm diameter washers either directly to the frame or through EPS battens to create a cavity. The panel thicknesses covered by this Certification are 60mm, 75mm and 100mm.

### A3 Product specification

Overall thermal performance of a wall system will vary with panel thickness. Refer RMAX Technical Data and Installation Manuals, 08 -17 Batten Cavity Fix Version 4\_0 Codemark and 08 - 17 Direct Fix version 4\_0 Codemark for suitable constructions and climate zone information.

Total R Value of RMAX ThermaWall™ Direct Fix (EIFS) EPS Cladding Wall System		
Standard Cladding Panel Thickness (mm)	Total R Value Summer (m <sup>2</sup> K/W)	Total R Value Winter (m <sup>2</sup> K/W)
60	1.93	2.04
75	2.32	2.44
100	2.96	3.12

Total R Value of RMAX ThermaWall™ Batten Cavity Fix (EIFS) EPS Cladding Wall System		
Standard Cladding Panel Thickness (mm)	Total R Value Summer (m <sup>2</sup> K/W)	Total R Value Winter (m <sup>2</sup> K/W)
60	2.09	2.21
75	2.48	2.61
100	3.13	3.29

Total R Value of RMAX ThermaWall™ Direct Fix (EIFS) EPS Cladding Wall System, Including Reflective Sarking		
Standard Cladding Panel Thickness (mm)	Total R Value Summer (m <sup>2</sup> K/W)	Total R Value Winter (m <sup>2</sup> K/W)
60	2.41	2.51
75	2.79	2.92
100	3.43	3.59

Total R Value of RMAX ThermaWall™ Batten Cavity Fix (EIFS) EPS Cladding Wall System, Including Reflective Sarking		
Standard Cladding Panel Thickness (mm)	Total R Value Summer (m <sup>2</sup> K/W)	Total R Value Winter (m <sup>2</sup> K/W)
60	2.57	2.68
75	2.95	3.09
100	3.59	3.75

Panel Thickness	Surface Mass (Unrendered)	Sheet weight (Unrendered)
60mm	1.14kg/m <sup>2</sup>	3.4kg
75mm	1.43kg/m <sup>2</sup>	4.3kg
100mm	1.90kg/m <sup>2</sup>	5.7kg



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## A4 Manufacturer and manufacturing plant(s)

RMAX (VIC) 2 - 4 Mephan Street, Maribyrnong VIC 3032.	RMAX (WA) 5 Baldwin Street, Kewdale WA 6105	RMAX (NSW) 27 Chifley Street, Smithfield NSW 2164
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## A5 Installation requirements

1. The RMAX ThermaWall™ Direct Fix or Batten Cavity Fix (EIFS) Cladding System must be installed in accordance with the respective RMAX Technical Data and Installation Manuals, [08 -17 Batten Cavity Fix Version 4\\_0 Codemark](#) and [08 - 17 Direct Fix version 4\\_0 Codemark](#).
2. In cyclonic wind regions, panel joints must incorporate a double stud. Shared studs may only be used if project specific engineering approval is provided.
3. Fixing screws must be 25mm longer than the panel thickness for timber frame construction and 15mm longer than the panel thickness for steel frames.
4. Fasteners must be offset 20mm from stud edge.

## A6 Other relevant technical data

Wind Regions	Non-Cyclonic (A & B)						Cyclonic (C & D)			
Wind category	N1	N2	N3	N4	N5	N6	C1	C2	C3	C4
Panel Thickness (mm)	60mm, 75mm, 100mm						75mm, 100mm			
Stud Spacing (mm)	300mm, 450mm, 600mm				300mm, 450mm		300mm			
Fastener Spacing (mm)	300mm (150mm at perimeter of wall)	300mm (150mm at perimeter of wall)	300mm (150mm at perimeter of wall)	300mm (150mm at perimeter of wall)	300mm (150mm at perimeter of wall)	200mm (150mm at perimeter of wall)	200mm (150mm at perimeter of wall)	200mm (150mm at perimeter of wall)	200mm (150mm at perimeter of wall)	200mm (150mm at perimeter of wall)
Number of Fasteners/m <sup>2</sup>	12	12	12	12	12	18	18	18	18	18

### RMAX ThermaWall™ Direct Fix Cladding Product Range Weighted Sound Reduction Index (Rw) Performance

Panel Thickness	Construction	Rw
75mm	75mm Panel only + Frame + Sarking	12dB
75mm	75mm Panel + 8mm thick Render + Sarking + Frame + 10mm thick Plaster (Full wall system)	44dB

### RMAX ThermaWall™ Batten Cavity Fix Cladding Product Range Weighted Sound Reduction Index (Rw) Performance

Panel Thickness	Construction	Rw
75mm	75mm Panel only + 25mm Batten + Frame + Sarking	12dB
75mm	75mm Panel + 25mm Batten + 8mm thick render + Sarking + Frame + 10mm thick Plaster (Full wall system)	44dB



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## AS 1530.3:1999 Fire Indices

Fire resistance as tested on rendered Thermawall™ Panel	
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	4

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Structural Provision 1.2.2 (a)(i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
2. Weatherproofing 1.2.2 (a)(i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
3. Thermal Provision 1.2.2 (a)(i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.
4. Bushfire Prone Areas 1.2.2 (a)(i) & (iii). Reports from NATA accredited test laboratories and certificates from Professional Engineer.

### B2 Reports

1. Vipac Engineers & Scientists; NATA #676; Report No. 30B-12-0118-TRP-332220-2; 450mm Shared Stud Test Report Wind load resistance dated 14/05/2013. Compliance to Structural provision of the BCA.
2. Vipac Engineers & Scientists; NATA #676; Report No. 30B-10-0467-TRP-593179-2, RMAX Thermawall™ Performance against AS 4284:2008 dated 27/05/2011. Compliance with Weatherproofing provisions.
3. SKIP BRAC-Appraisal; Report No. SKC10-154-BRAC, Engineering report confirming compliance with P2.1.1 & P2.2.2 for Thermawall™ dated 30/09/2011.
4. AWTA; NATA #1356; 7-582752-NV RMAX ThermaSilver™ EPS Test Report 19/12/2011, in accordance with AS 1366.3:1992. Compliance to Energy efficiency for external walls.
5. Ian Benney; NATA #2371; Report No. 2015-108-S1; Weatherproofing Test In accordance with AS/NZS 4284:2008 Testing of building facades, dated 11/02/2016.
6. Petrovic Engineering; Report No. 16-37, Weatherproofing and Wind Load Resistance Batten Cavity & Direct Fix dated 27/02/2017.
7. Petrovic Engineering; Report No. 17-05, Impact Load Resistance Batten Cavity & Direct Fix - AS/NZS 1170.2:2011 dated 27/02/2017. Compliance to Structural provisions of the BCA.
8. Petrovic Engineering; Report No. 17-13, Wind Pressures above 10m Height - AS/NZS 1170.2:2011 dated 20/03/2017. Compliance to Structural provisions of the BCA.
9. Exova Warringtonfire; NATA #3277; Assessment Report No. 47899700.2, Testing Report against AS 1530.8.1- 2007 dated 30/04/2017. Compliance to Bushfire Prone Areas provision.