



# Certificate of Conformity

Certificate number: CM40257 Rev1

**Certification Body:**

  
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**Certificate Holder:**

  
RMAX  
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**THIS IS TO CERTIFY THAT**

## RMAX Orange Board Ultra Ground Floor EIFS Cladding System

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

External Insulating Facade System.

**Description of product:**

RMAX Orange Board Ultra Ground Floor EIFS Cladding System is an Expanded Polystyrene (EPS) cladding system comprising proprietary components listed in A2 below.

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

**BCA 2019**

	Volume One	Volume Two
<b>Performance Requirement(s)</b>	Not applicable	P2.1.1(a)(b)(iii) Structural stability and resistance to actions P2.2.2 Weatherproofing P2.7.5 Bushfire Areas – Contributes to satisfying the NCC Performance Requirements for the construction of buildings in bushfire prone areas up to BAL 29
<b>Deemed-to-Satisfy Provision(s)</b>	Not applicable	3.12.1.4 Energy Efficiency – External walls - Contributes to the overall energy efficiency of the building
<b>State or territory variation(s)</b>	Not applicable	P2.7.5 (Tas), 3.12.1.4 (NSW, NT, 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:**

- This product may be used in the formulation of a site-specific performance solution for construction in bushfire prone areas up to BAL 29.
- RMAX Orange Board Ultra Ground Floor EIFS Cladding System is to be installed in accordance with the [RMAX Orange Board Ultra Ground Floor EIFS Technical Data and Installation Manual, May 2019](#).
- RMAX Orange Board Ultra Ground Floor EIFS Cladding System is suitable for wind categories from N1 to N6 and C1 to C4. Consult RMAX Orange Board Ultra Ground Floor EIFS Technical Data and Installation Manual, May 2019 for relevant construction requirements.
- It is a requirement that the installation shall be made correctly by a skilled and experienced installer in accordance with all current installation recommendations as per the RMAX Orange Board Ultra Ground Floor EIFS Technical Data and Installation Manual, May 2019, including but not limited to, frame and fastener details, installation and fixing details and installation guidelines.
- 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.

**Building classification/s:**

1 & 10

  
John Thorpe - CMI

  
Don Grehan – Unrestricted Building Certifier

**Date of issue:** 02/05/2019

**Date of expiry:** 15/04/2022





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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.

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

As per page 1.

### A2 Description of product

RMAX Orange Board Ultra Ground Floor EIFS Cladding System incorporates:

- DuPont Tyvek breathable home wrap.
- 100mm thick RMAX OB Ultra starter panel.
- 100mm thick RMAX OB EIFS Panel.
- RMAX Ground floor EIFS aluminium starter channel assembly (design and innovation patent pending).
- Ramset Nylon Anchors with stainless steel nails 5 x 33mm length for starter channel installation into concrete slab.
- RMAX OB Ultra Impact mesh.
- RMAX OB Plus Render.
- RMAX OB Primer.
- 10G x 150mm length CSK head Coarse Ribbed Class 4 needle point fasteners for timber framing.
- RMAX Orange Board washers.
- Bituminous Aluminium flashing tape.
- Aluminium /PVC corner angles.
- Approved Polyurethane construction foam adhesive.
- Selleys Liquid Nails Fastgrab or Instant Hold construction adhesive.

### A3 Product specification

#### Bushfire

The RMAX Orange Board Ultra Ground Floor EIFS Cladding System has been assessed to bushfire attack level BAL 29 incorporating the following list of specific components:

No.	Item	Description
<b>Substrate</b>		
1	Product	100mm PERIPOR® 300E.
	Material	EPS (Expanded Polystyrene).
	Size	2500mm high x 1200mm wide x 100mm thick.
	Density	28 kg/m <sup>3</sup> (measured).
	Location/Fixing	One layer across both exposed face levels and up north and south return walls. Ø4.8 x 150mm Bugle Head Coarse thread Class 4 square drive external wall screws with Ø45mm RMAX ABS washers at nominal 300mm centres along battens.
<b>EPS panels used in lieu of or in conjunction with PERIPOR® 300E</b>		
	Material	Isolite X28 EPS (Expanded Polystyrene).
	Size	1200mm wide x 800mm high x 100mm thick (measured).
	Density	28 kg/m <sup>3</sup> .

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	Location/Fixing	One layer on the exposed face of timber framing. 150mm Galvanised Class 4, 10 Gauge square drive external wall screws with 48mm diameter RMAX ABS washers were used to fix the panels to the timber framing.
<b>Battens</b>		
<b>2</b>	Product	RMAX X28 Cavity Battens.
	Material	Isolite Expanded Polystyrene.
	Size	1250mm high x 40mm wide x (10 to 25) mm thick.
	Density	28 kg/m <sup>3</sup> .
	Location/Fixing	Battens nailed (30mm length clout nails) to the timber framing over wall wrap at stud, nogging locations.
<b>Render System</b>		
<b>3</b>	Density	1498 kg/m <sup>3</sup> .
	Thickness	4.8mm minimum thickness.
<b>a</b>	Product	RMAX OB Plus Orange Board Render.
	Thickness	First coat – Nominal 2.5mm. Second coat – Nominal 2.5mm.
	Location	First layer applied directly over panels (Item 1). Mesh (Item 3b) embedded in basecoat.
<b>b</b>	Product	RMAX OB Ultra Impact mesh.
	Location	Embedded in first render layer (Item 3a).
<b>Wraps and Sealants</b>		
<b>4</b>	Product	Dupont Tyvek Home Wrap.
	Material	Breathable Film/Non-Woven Polyolefin.
	Weight	61gsm.
	Size	1350mm tall sheet, full width of wall.
	Location	Single Layer with nominal 50mm overlap on exposed side of timber framing.
	Fixing	Stapled to the timber framing at nominal 300mm centres.
<b>5</b>	Product	PE/Render Tape.
	Material	Polyethylene.
	Size	48mm wide.
	Location	Applied around perimeter of window (Item 10) with nominally 25mm on the wall and 23mm on the window frame.
<b>6</b>	Product	BOSMAN PU Glue Foam.
	Location	Sealing joints between panels (Item 1). Applied to all edge interfaces of the panels. Applied to starting channel before installation of EPS panels.
<b>7</b>	Product	Starting Channel.
	Material	RMAX A1 Aluminium 100mm wide starter channel.
	Size	60mm x 100mm x 32mm.
	Location	Channel was fixed to bottom of the wall over wall wrap and behind batten.
	Material	RMAX Aluminium 130mm wide starter channel.

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	Size	32mm high x 130mm wide x 60mm high x 0.6mm thick (cut to length) incorporating weep holes or slots.
	Location	Channel was fixed to bottom of the wall. 100mm wide x 4.5mm thick Fibre Cement sheeting coated with Supersec 2413 waterproofing membrane and fitted into the Aluminium Starter Channel prior to installing EPS panels (refer to figure A1.6). HB Fuller Firesound acoustic sealant is applied to bond the fibre cement sheeting onto the starter channel.
<b>8</b>	Product	Meshed External Angle
	Material	PVC with Alkali Resistant Mesh.
	Size	35mm x 35mm, with 135mm x 75mm mesh.
	Location	Angles embedded into first render coat; around outer perimeter edge of wall specimen (vertical edges only), window (top and vertical edges only) and two vertical pieces at the wing wall/return wall edges as well as along the sill.
	Alternative Product	Meshed External Unequal Angle (refer to figure A1.6).
	Material	Aluminium and fiberglass.
	Size	130mm x 70mm x 0.6mm thick (measured).
	Location	Angles embedded into first render coat; around outer perimeter edge of wall specimen.
<b>Unexposed Cladding</b>		
<b>9</b>	Product	Gyprock 10mm Plasterboard.
	Size	1200mm wide x 3000mm long sheets cut to suit.
	Density	660 kg/m <sup>3</sup> (nominal).
	Location	Clad horizontally on the unexposed side of the timber framing.
	Fixings	32mm x 6g Bugle Head Drill Point Fine Thread ZY Plasterboard Screws at nominal 300mm centers.
<b>Window</b>		
<b>10</b>	Frame	Extruded Aluminium.
	Glazing	5TF Grade A Safety Glass – 5mm thick toughened glass.
	Size	OD: Nominal 800mm wide x 800mm high x 52mm deep. ID: 742mm wide x 742mm high (to glazing).
<b>Framing</b>		
<b>11</b>	Product	90 x 45 MGP10 Radiata Pine.
	Density	489 kg/m <sup>3</sup> (measured).
	Location	Refer to figures A1.1 and A1.2 for frame details.
<b>Framing</b>		
<b>12</b>	Eve Cladding	4.5mm Gyprock Fibre-cement sheet.
<b>13</b>	Sill Cladding	13mm Gyprock Fyrchek Plasterboard.
<b>14</b>	Sill Cladding	6mm Gyprock Fibre-cement sheet.

Note: There are no approved variations to the tested specimen.



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## Thermal

The RMAX Orange Board Ultra Ground Floor EIFS Cladding System has been tested in accordance with AS/NZS 4589.1:2018 as follows:

Wall incorporating 100mm R2.8 RMAX OB EIFS Panel & 40mm x 25mm RMAX EPS Cavity Batten – 90mm x 45mm pine studs assumed at 600mm centres.

- (i) Insulation path: 5mm render/mesh/render, 100mm R2.8 RMAX OB EIFS panel, 25mm non-reflective air space, Tyvek Home Wrap breathable sarking, 90mm non-reflective air space, 10mm plasterboard.
- (ii) Frame path: 5mm render/mesh/render, 100mm R2.8 RMAX OB EIFS panel, 40x25mm R0.7 RMAX EPS Cavity Batten, Tyvek Home Wrap breathable sarking, 90 x 45mm pine stud, 10mm plasterboard.

Overall Total Thermal Resistance,  $R_T$ :

Winter	Summer	Average
3.53	3.35	3.44

Additional testing conducted includes 90mm x 45mm pine stud at 450mm centres as well as 70mm x 45mm pine studs with 600mm and 450mm centres. Variations to Stud sizing and centres will impact on the results and should be referred to the Certificate Holder.

## 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

Installation must be in accordance with the [RMAX Orange Board Ultra Ground Floor EIFS Technical Data and Installation Manual, May 2019](#).

## A6 Other relevant technical data

No other relevant technical data.

## APPENDIX B – EVALUATION STATEMENTS

### B1 Evaluation methods

1. Structural Provision; A5.2(1)(d) & (e). Reports from a professional engineer, reports from Accredited Testing Laboratory and other forms of documentary evidence.
2. Bushfire Provision; A5.2(1)(d). Reports from Accredited Testing Laboratory.
3. Weatherproofing Provision A5.2(1)(d). Reports from Accredited Testing Laboratory.
4. Thermal Provision; A5.2(1)(d) & (e). Reports from a professional engineer, reports from Accredited Testing Laboratory and other forms of documentary evidence.

### B2 Reports

- a. Acronem Consulting Australia Pty Ltd; Report No. ACA-190417; Technical appraisal of RMAX Orange Board Ultra Ground Floor External Insulation Facade System; Dated 01/05/2019.
- b. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2018-080-S1; Static ultimate wind load tests in accordance with AS 4040.2-1992; Dated 18/10/2018.
- c. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2018-080-S2; Static ultimate wind load tests in accordance with AS 4040.2-1992; Dated 18/10/2018.
- d. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2015-108-S1; Cyclic ultimate wind load tests in accordance with AS 4040.3-1992; Dated 18/10/2018.
- e. Vipac Engineers & Scientists Ltd; Ref No.: 30S-16-0108-COC-611925-2; Certificate of Conformance for cyclone testing in accordance with AS/NZS 1170.2:2011; Dated 2 March 2017.
- f. Ian Bennie & Associates Pty Ltd; NATA Accreditation No. 2371; Report No. 2015-108-S1; Weatherproof testing in accordance with AS/NZS 4284:2008 and V2.2.1; Dated 10/03/2016.
- g. James M Fricker Pty Ltd; Report No. i1336a; Thermal calculations of RMAX OB EIFS Panel; Dated 11/12/2018.
- h. BRANZ; NATA Accreditation No. 918; Test Report: DI10955-001-01; Thermal Resistance of an Insulation Sample in accordance with ASTM C518; Dated 26 October 2018.
- i. Exova Warringtonfire; NATA Accreditation No. 3277; Bushfire resistance performance assessment; EWFA Report No: 47899700.5; Dated 24/10/2018.

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