

Certificate number: CM40090

THIS IS TO CERTIFY THAT

Rendex® External Cladding System

Certification Body:



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 JAS-ANZ Accreditation
 No. Z4450210AK
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 Palmwoods Qld 4555
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Certificate Holder:



Prestige Wall Systems
 Pty Ltd
 ABN: 97 157 346 486
 24 Humphries Terrace
 Kilkeny SA 5009
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Type and/or use of product:

Rendex® External Cladding System is non-structural external cladding system. Rendex® External Cladding System provides a rendered weatherproof building cladding system.

Description of product:

Rendex® External Cladding System consists of M Grade expanded polystyrene (EPS) boards, factory-coated or applicator-coated on one or two sides with polymer modified render and alkaline resistant fibreglass mesh, mechanically secured, Cavity-Fixed vertical battens, Cavity-Fixed horizontal battens and Direct-Fixed to the exterior wall frame.

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(a) Structural reliability (b)(i)(ii)(iii)	P2.1.1(a) Structural stability and resistance (b)(i)(ii)(iii)
	FP1.4 Weatherproofing – Subject to <i>Limitation and Condition 3</i>	P2.2.2 Weatherproofing – Subject to <i>Limitation and Condition 3</i>
Deemed-to-Satisfy Provision(s):	G5.2 Construction in bushfire prone areas – BAL-AA29 75mm & 100mm Panels Only - Protection of External walls subject to <i>limitation and condition 4.</i>	3.10.5.0 Bushfire areas – BAL-AA29 75mm & 100mm Panels Only - Protection of External walls subject to <i>limitation and condition 4.</i>
State or territory variation(s):	G5.2 (NSW)	3.10.5.0 (NSW, Qld)

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

Limitations and conditions:

- In the absence of a site-specific performance solution, this system is not suitable for use in, or on, Class 2 to 9 of Type A & B construction, where the NCC requires building and/or Ancillary Elements to be non-combustible.
- This product has not been tested for non-combustibility.
- To satisfy P2.2.2 via verification, the relevant design is required to meet the criteria of V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must
 - have a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table V2.2.1a; and
 - is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and
 - include only windows that comply with AS 2047

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10



Richard Donarski - CMI



Don Grehan – Unrestricted Building Certifier

Date of issue: 24/04/2023

Date of expiry: 24/04/2026



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Compliance with Weatherproofing is limited to the tested specimen and any deviations from this specimen is subject to site specific design and approval by the regulatory authority.

4. In order to maintain compliance with BAL, it is the responsibility of the Building Designer to ensure compliance is achieved in accordance with AS 3959:2018.
5. No assessment has been undertaken on the product for Part F6 of Vol 1 or Part 3.8.7 of Vol 2 of the 2019 BCA for Condensation management. A pliable building membrane complying with AS/NZS 4200.1:2017 must be installed in accordance with AS/NZS 4200.2:2017 to separate the wall cladding panels from any water sensitive materials.
6. In all installations, the minimum clearance between the underside of panel and the adjoining surface level below must comply with the specifications in Part 3.5.4.7 of Volume 2 of the NCC.
7. The applications are limited to external walls where the net wind pressure does not exceed 2.01 kPa, the net general wind suction does not exceed 1.72 kPa and local net wind suction does not exceed 3.01 kPa; calculated using AS/NZS 1170.2:2011 or AS 4055-2012. This includes AS 4055-2012 Wind Classifications N1, N2, N3, N4 and C1 (and excludes AS 4055-2012 Wind Classifications N5, N6, C2, C3 and C4).
8. Compliance with BP1.1(b)(iii) & P2.1.1(b)(iii) excludes resistance to impact loading from windborne debris.
9. Rendex[®] External Cladding System must be constructed of the materials and to the details specified in the [Rendex Technical Manual V4.2019](#) excluding section 4, which is outside the scope of this certification.
10. Product installation shall be carried out by a competent carpenter or other tradesman under the direction of a Builder, both of whom are conversant with the method of product installation and have access to all relevant technical information on product installation.
11. Product selection, and incorporation into the building design, shall be made by a person who is conversant with the application and technical aspects of the product, and has ready access to the relevant technical information related to the product use.
12. Rendex[®] External Cladding System must be fixed to a structurally adequate external wall frame in accordance with the appropriate span tables in section A3.
13. The structural support members are designed and engineered separately as per project requirements by building designers and engineers.
14. The installed Rendex[®] panels must be rendered within two weeks of construction and must not be rendered when wet e.g. from dew, rain or frost.
15. 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.



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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.



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APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

A2 Description of product

Rendex® Panels are available as 1200mm x 2400mm sheets in the following thicknesses:

Factory Coated on One Side	50mm	75mm	100mm
Factory Coated on Two Sides	40mm	75mm	100mm
Applicator Coated on One Site	50mm	75mm	100mm

75mm or 100mm Rendex® Factory Coated Panels are also available in 3000mm lengths.

75mm or 100mm Rendex® Applicator Coated Panels are also available in lengths up to 5000mm.

System Components:

Component	Specifications/Characteristics
Rendex® M-Grade Expanded Polystyrene Panels	Flame Retardant in accordance with AS1366.3-1992 (R2018), factory pre-coated or un-coated (applicator) panels, pink in colour
Wall Wrap	Breathable (permeable), heavy duty, water vapour transmission no less than 140Ng/Ns
Fibreglass Mesh	Alkaline Resistant, 5mm x 5mm, 145gsm
Fibreglass Joint Mesh	Alkaline Resistant, 5mm x 5mm, 160gsm, 200mm wide (pre-coated panels)
Factory Coat	Polymer modified Render
Starter Channel / Panel	Starter Channel / Rendex® Pre-coated Starter Panel
Screw Fixings	Coarse threaded, 25mm longer than EPS board, galvanised or stainless depending on environment specs
Washers	50mm diameter, flexible polypropylene
PU Foam	HB Fuller Polyurethane low expansion Foam
External beading	Aluminium beading with mesh
Fine Joint Patch	Patch for joints (pre-coated panels)
Base Coat Render	Polymer Base Coat on Rendex® Panel
Texture Coat	Acrylic Texture Coat applied on Base Coat
Acrylic Paint	Acrylic Membrane Paint
Sealant	Fulaflex 550 PU Polyurethane Sealant



CODEMARK
Australia

A3 Product specification

Weatherproofing – Direct Fix

Testing was conducted in accordance with the Verification Method FV1 (Volume 1) and V2.2.1 ' (Volume 2) test procedure as contained within National Construction Code of Australia. Determined in accordance with AS/NZS 4284:2008 and NCC 2016 FV1 and V2.2.1, which remain unchanged in the NCC 2019 (Amdt.1) FV1.1 & V2.2.1.

Results

Test Type	Criteria	Result
Static Pressure Wind Load Test	Positive and negative serviceability limit state pressures were applied to the external face of the specimen for periods of 1 minute each. Nominated serviceability limit state pressures: + 1190 Pa and –1790 Pa	Pass
Static Pressure Water Test	A water penetration test was then carried out in accordance with Clause 8.5 of AS/NZS 4284:2008 at a static pressure of 360 Pa for a period of 15 minutes	Pass
Cyclic Pressure Water Test	A water penetration test was then carried out in accordance with Clause 8.6 of AS/NZS 4284:2008 at the cyclic pressures of: 180 - 360 Pa for 5 minutes. 240 - 480 Pa for 5 minutes. 360 - 720 Pa for 5 minutes.	Pass

Source: Test Report No. 2019-051-S1, NCC-2016 Verification Methods FV1 and V2.2.1 dated 16 July 2018.

Weatherproofing – Cavity Fix

Testing was conducted in accordance with the Verification Method FV1 (Volume 1) and V2.2.1 ' (Volume 2) test procedure as contained within National Construction Code of Australia.

Test Type	Criteria	Result
Static Pressure Wind Load Test	Positive and negative serviceability limit state pressures were applied to the external face of the specimen for periods of 1 minute each. Nominated serviceability limit state pressures: + 820 Pa and –1230 Pa	Pass
Static Pressure Water Test	A water penetration test was then carried out in accordance with Clause 8.5 of AS/NZS 4284:2008 at a static pressure of 300 Pa for a period of 15 minutes.	Pass
Cyclic Pressure Water Test	A water penetration test was then carried out in accordance with Clause 8.6 of AS/NZS 4284:2008 at the cyclic pressures of 245 - 490 Pa for 5 minutes.	Pass
Cyclic Pressure Water Test with 6mm Holes in Cladding.	6mm diameter holes were inserted in the external face of the specimen at the following locations: (AA) Wall/window joint at 3/4 height of the window (BB) Immediately above the window (CC) Through the external sealing of the vertical and horizontal control joints (DD) Above the meter box and the downpipe penetrations. Water penetration test were then carried out in accordance with Clause 8.6 of AS/NZS 4284:2008 at the Static and Cyclic pressures as detailed above.	Pass
Static Pressure Water Test with Internal Lining Removed.	The internal acrylic lining of the sample was removed and a static water penetration test was then carried out in accordance with Clause 8.5 of AS/NZS 4284:2008 at a static pressure of 50Pa for a period of 15 minutes.	Pass

Source: Test Report No. 2020-057-S1, NCC-2019 Verification Methods FV1 and V2.2.1 dated 26 June 2020.



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Bushfire Attack Level

Testing by of the 75mm RendeX® External Cladding system has confirmed that the Crib Class was Type AA, the Peak heat flux is 29kW/m² and the test result is BAL – AA29.

The tested 75mm RendeX® External Cladding System comprising of 6.9 mm thick RendeX® render applied over a 75 mm thick RendeX® pre coated panels with a 5 mm wide control joint that was incorporated into the wall system at the south window reveal extending the entire height of the main wall. The control joint was sealed to a depth of 5 mm using FulaFlex FR fire resistant sealant.

Fixings must be no more than 400mm centres and no less than 50mm away from panel edges.

Source: Warringtonfire Australia Pty Ltd, Report No. FRT220223; A simulated bushfire report in accordance with AS 1530.8.1:2018; dated 29/11/2022.

Structural

Structural Performance to wind ratings N1, N2, N3, N4 and C1 determined in accordance with AS 4040.2-1992 (R2016). The numbers of fasteners required for the system, to comply with the strength requirements of the various wind regions are detailed as follows:

Wind Class (to AS 4055-2012)	RendeX® Panel Thickness (mm)	Minimum number of fasteners per m ²	
		Further than 1200mm from external corners	Within 1200mm of external corners
N1	40 ¹ ,50,75,100	5	5
N2	40 ² ,50,75,100	5	5
N3	40 ² ,75,100	5	5
N4	40 ² ,75,100	5	7
C1	75,100	5	7

¹Double-sided 40mm RendeX® Panel.

²Applicable for Serviceability assessment.

The figures above are based on a maximum fastener spacing of 600mm (both directions) and are used to determine the RendeX® Panel specific fixings, for each system as defined in the RendeX® Technical Manual V4.2019.

System 1:

Comprises vertical RendeX® Panels fixed to horizontal steel battens

Wind Classes N1, N2 & N3				
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / Panel (General)	Fixings / Panel (Corner)
1200mm x 2400mm	600mm	5	15 (3/batten)	15 (3/batten)
1200mm x 2400mm	600mm	6	18 (3/batten)	18 (3/batten)

Wind Classes N4 & C1				
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / Panel (General)	Fixings / Panel (Corner)
1200mm x 2400mm	600mm	5	15 (3/batten)	20 (4/batten)
	30mm	9		27 (3/batten)
1200mm x 2400mm	600mm	6	18 (3/batten)	24 (4/batten)
	300mm	11		33 (3/batten)

Systems 2 & 3:

Comprises horizontal RendeX® Panels fixed direct to studs or vertical timber battens.

Within 1200mm of external corners:

Wind Classes N1, N2 & N3			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m ²
1200mm x 2400mm (full panel)	600mm	3	4
	450mm	3	6
600mm (half panel)	600mm	2	6
	450mm	2	7
300mm (starter panel)	600mm	2	11
	450mm	2	15

Wind Classes N4 & C1			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m ²
1200mm x 2400mm (full panel)	600mm	5	7
	450mm	4	7
600mm (half panel)	600mm	3	8
	450mm	2	7
300mm (starter panel)	600mm	2	11
	450mm	2	15

Further that 1200mm from external corners:

Wind Classes N1, N2, N3, N4 & C1			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m ²
1200mm x 2400mm (full panel)	600mm	3	4
	450mm	3	6
600mm (half panel)	600mm	2	6
	450mm	2	7
300mm (starter panel)	600mm	2	11
	450mm	2	15

RendeX® Applicator Coated Panels

The minimum number of standard fixings for RendeX® Applicator Coated Panels (raw EPS) is summarised in the table below:

Wind Class (to AS 4055- 2012)	RendeX® Panel Thickness (mm)	Minimum number of fasteners per m ²	
		Further than 1200mm from external corners	Within 1200mm of external corners
N1	50,75,100	5	5
N2	50,75,100	5	5
N3	50 ³ ,75,100	5	6
N4	75,100	5	8
C1	75,100	5	8

³ 450mm maximum batten/stud spacing.

The figures above are based on a maximum fastener spacing of 600mm (both directions) and are used to determine the RendeX® Panel specific details, for each system as defined in the RendeX® Technical Manual V4.2019.

System 1:

Comprises vertical RendeX® Applicator Panels (raw EPS) fixed to studs or vertical timber battens.

Wind Classes N1 & N2				
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / Panel (General)	Fixings / Panel (Corner)
1200mm x 2400mm	600mm	5	15 (3/batten)	15 (3/batten)
1200mm x 3000mm	600mm	6	18 (3/batten)	18 (3/batten)

Wind Classes N3				
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / Panel (General)	Fixings / Panel (Corner)
1200mm x 2400mm	600mm	5	15 (3/batten)	20 (4/batten)
	450mm	6	18 (3/batten)	24 (4/batten)
1200mm x 3000mm	600mm	6	18 (3/batten)	24 (4/batten)
	450mm	7	21 (3/batten)	28 (4/batten)

Wind Classes N4 & C1				
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / Panel (General)	Fixings / Panel (Corner)
1200mm x 2400mm	600mm	5	15 (3/batten)	25 (5/batten)
	300mm	9		27 (3/batten)
1200mm x 3000mm	600mm	6	18 (3/batten)	30 (5/batten)
	300mm	11		33 (3/batten)

Systems 2 & 3:

Comprises horizontal RendeX® Factory Coated Panels (raw EPS) fixed direct to studs or vertical timber battens

Within 1200mm of external corners:

Wind Classes N1 & N2			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m2
1200mm x 2400mm (full panel)	600mm	4	5
	450mm	3	6
600mm (half panel)	600mm	2	6
	450mm	2	7

Wind Classes N3			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m2
1200mm x 2400mm (full panel)	600mm	5	7
	450mm	4	7
600mm (half panel)	600mm	3	8
	450mm	2	7

Wind Classes N4 & C1			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m2
1200mm x 2400mm (full panel)	450mm	4	7
	300mm	3	8
600mm (half panel)	450mm	3	11
	300mm	2	11

Further than 1200mm from external corners:

Wind Classes N1, N2, N3, N4 & C1			
RendeX® Panel Size	Nominal Batten Spacing	No. of Battens	Fixings / m2
1200mm x 2400mm (full panel)	600mm	4	5
	450mm	3	6
600mm (half panel)	600mm	2	6
	450mm	2	7
300mm (starter panel)	600mm	2	11
	450mm	2	15



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A4 Manufacturer and manufacturing plant(s)

Prestige Wall Systems.
24 Humphries Terrace,
Kilkenny SA 5009.

A5 Installation requirements

Product installation shall be carried out in accordance with the [RendeX® Technical Manual V4.2019](#), excluding section 4, which is outside the scope of this certification.

The RendeX® External Cladding System can be installed in three alternate configurations:

- System 1: Vertical RendeX® Panels fixed to horizontal steel battens, on steel or timber studs.
- System 2: Horizontal RendeX® Panels fixed to vertical timber battens or EPS battens on timber studs.
- System 3: Horizontal RendeX® Panels fixed directly to steel or timber studs.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Bushfire Provisions A5.2(1)(d). Reports from Accredited Testing Laboratories
2. Structural Provisions – A5.2(1)(d)&(e). Reports from a professional engineer and Accredited Testing Laboratories.
3. Weatherproofing Provision – A5.2(1)(d). Reports from Accredited Testing Laboratories

B2 Reports

1. Greg Perry, RendeX® Engineer; Report No. 190813; Report on the performance compliance for structural clauses; Dated 18/03/2020.
2. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S1; Weatherproof testing to AS/NZS 4284:2008 and NCC-2016 FV1 and V2.2.1; Dated 30/05/2019.
3. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S2; 75mm x 600mm studs & 20 fixings per panel; Static Ultimate Wind Load Tests to AS 4040.2-1992 (R2016); Dated 31/05/2019.
4. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S3; 75mm x 600mm studs & 25 fixings per panel; Static Ultimate Wind Load Tests to AS 4040.2-1992 (R2016); Dated 31/05/2019.
5. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S4; 40mm x 600mm studs & 35 fixings per panel; Static Ultimate Wind Load Tests to AS 4040.2-1992 (R2016); Dated 31/05/2019.
6. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S2; 50mm x 600mm studs & 35 fixings per panel; Static Ultimate Wind Load Tests to AS 4040.2-1992 (R2016); Dated 31/05/2019.
7. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2019-051-S2; 50mm x 600mm studs & 24 fixings per panel; Static Ultimate Wind Load Tests to AS 4040.2-1992 (R2016); Dated 31/05/2019.
8. Ian Bennie and Associates; NATA Accreditation No. 2371; Report No. 2020-057-S1; Weatherproof testing to AS/NZS 4284:2008 and NCC-2019 FV1 and V2.2.1; Dated 26/06/2020.
9. Warringtonfire Australia Pty Ltd; NATA Accreditation No. 3277; Report No. FRT220223; A simulated bushfire report in accordance with AS 1530.8.1:2018; dated 29/11/2022.

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