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[http://www.kmew.co.jp/
/CERA
FAÇADE/index.html](http://www.kmew.co.jp/CERA/FAÇADE/index.html)

Certificate of Conformity

Certificate number: CM 30074 Rev 4

THIS IS TO CERTIFY THAT

KMEW CERA FAÇADE Panels

Type and/or use of product:

Panel for external wall lining of timber or cold-formed steel framed residential buildings

Description of product:

Ceramic coated, fibre-reinforced cementitious panels used as external wall cladding. The CERA FAÇADE system is a ventilated cavity-based cladding system for use on timber or steel framed residential construction.

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

BCA 2019 + A1

	Volume One including Amendment 1		Volume Two including Amendment 1	
Performance Requirement(s)	BP1.1	Structural reliability	P2.1.1	Structural stability and resistance
	BP1.2	Structural resistance		
	FP1.4	Weatherproofing	P2.2.2	Weatherproofing
	FP1.5	Rising damp	P2.2.3	Rising damp
Deemed-to-Satisfy Provision(s):	C1.9	Non-combustible building elements	3.5.4.3	Wall cladding boards
	F6.2	Condensation management - Pliable building membrane	3.8.7.2	Condensation management - Pliable building membrane

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.

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. The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).


Herve Michoux
Global-Mark Managing Director


Peter Gardner
Unrestricted Building Certifier

Date of issue: 12/03/2023

Date of expiry: 28/03/2025



	G5.2	Construction in bushfire prone areas - Protection	3.10.5	Construction in bushfire prone areas
	J1.5	Energy efficiency - Walls and glazing	3.12.1.4	Energy Efficiency – External walls
State or territory variation(s):	SAFP1.5	Rising damp	NSW P2.2.3	Rising damp
	ACT F6.0	ACT Appendix	SA P2.2.3	Rising damp
	NSW G5.1	Construction in bushfire prone areas - Application of Part	NSW 3.10.5.0	Bushfire Areas – Acceptable construction manuals
	Qld G5.1	Construction in bushfire prone areas - Application of Part	Qld 3.10.5.0	Bushfire Areas – Acceptable construction manuals
	NSW G5.2	Construction in bushfire prone areas – Protection	NSW 3.12	Replaced with BASIX
	NSW Section J	Energy Efficiency	NT 3.12	Replaced with BCA 2009 Part 3.12
	NT Section J	Energy Efficiency	Qld 3.12	Building Act 1975 and Queensland Development Code MP 4.1 – Sustainable buildings
	Qld Section J	Energy Efficiency	ACT 3.12	ACT Appendix
			ACT 3.8.7	ACT Appendix
			TAS 3.8.7	Condensation in Buildings Tasmanian Designers' Guide – Version 2

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

<p>Limitations and conditions:</p> <ol style="list-style-type: none"> 1. Structural resistance in respect of wind actions only: <ol style="list-style-type: none"> a. In accordance with AS 4055:2012 (incorporating Amendment No.1) for non-cyclonic wind classes N1, N2 and N3 only; or, b. In accordance with AS/NZS 1170.2:2011 (incorporating Amendments No.1, No.2, No.3, No.4, and No.5) for ultimate strength wind pressures not exceeding those specified in Table 1. 2. Bushfire resistance up to and including to BAL-40 when installed in accordance with: <ol style="list-style-type: none"> a. KMEW CERA FAÇADE for Steel Frame - Design/Installation Manual for Australia, 21 September 2022; or KMEW CERA FAÇADE for Timber Frame - Design/Installation Manual for Australia, 1 September 2022 as applicable to the framing solution and, b. The requirements of AS 3959:2018. 3. 	<p>Building classification/s:</p> <p>Unrestricted</p>
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- | | |
|---|--|
| <p>a. In applications where a complying thermal resistance of a wall is to be calculated, a thermal resistance as follows shall be adopted: N Product 16 mm hollow core - $R = 0.076 \text{ m}^2\text{K/W}$.</p> <p>b. N Product 18 mm hollow core - $R = 0.086 \text{ m}^2\text{K/W}$.</p> <p>c. F Product 16 mm solid - $R = 0.062 \text{ m}^2\text{K/W}$.</p> | |
|---|--|

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

See type and/or use of product on page 1

A2 Description of product

See description of product on page 1.

CERA FAÇADE Panels are pre-finished extruded fibre-reinforced cement wall claddings, 3030 mm in length, 466 mm in width (for an effective cover of 455 mm) and 16 mm or 18 mm in thickness. CERA FAÇADE Panels are installed either horizontally or vertically to timber or cold-formed steel wall frame studs with proprietary brackets and fasteners providing a nominal 15 mm cavity.

Figure 1 on page 5 shows the typical construction configuration for horizontal panel layout where the B1015 clips are fixed directly to the studs. Figure 2 on page 6 shows the typical construction configuration for vertical panel layout where the B10115 clips are fixed to minimum 30 mm thick horizontal furring strips that are fixed to the studs.

A3 Product specification

Product selection, and incorporation into the building design, shall be made by a professional Architect or Engineer or other appropriately qualified person who:

- Has qualifications and experience acceptable to the relevant approval authorities; and
- Has ready access to KMEW CERA FAÇADE for Steel Frame - Design/Installation Manual for Australia, 21 September 2022 and KMEW CERA FAÇADE for Timber Frame - Design/Installation Manual for Australia, 1 September 2022.

The product is classified as a Type A Category 3 fibre cement board in accordance with AS/NZS 2908.2:2000.

Refer to Table 1 on page 6 for CERA FAÇADE Panel fixing requirements by Wind Class to AS 4055:2012 (incorporating Amendment No.1) or corresponding ultimate strength wind pressure.

Refer to Table 2 on page 6 for CERA FAÇADE wall system R-Values.

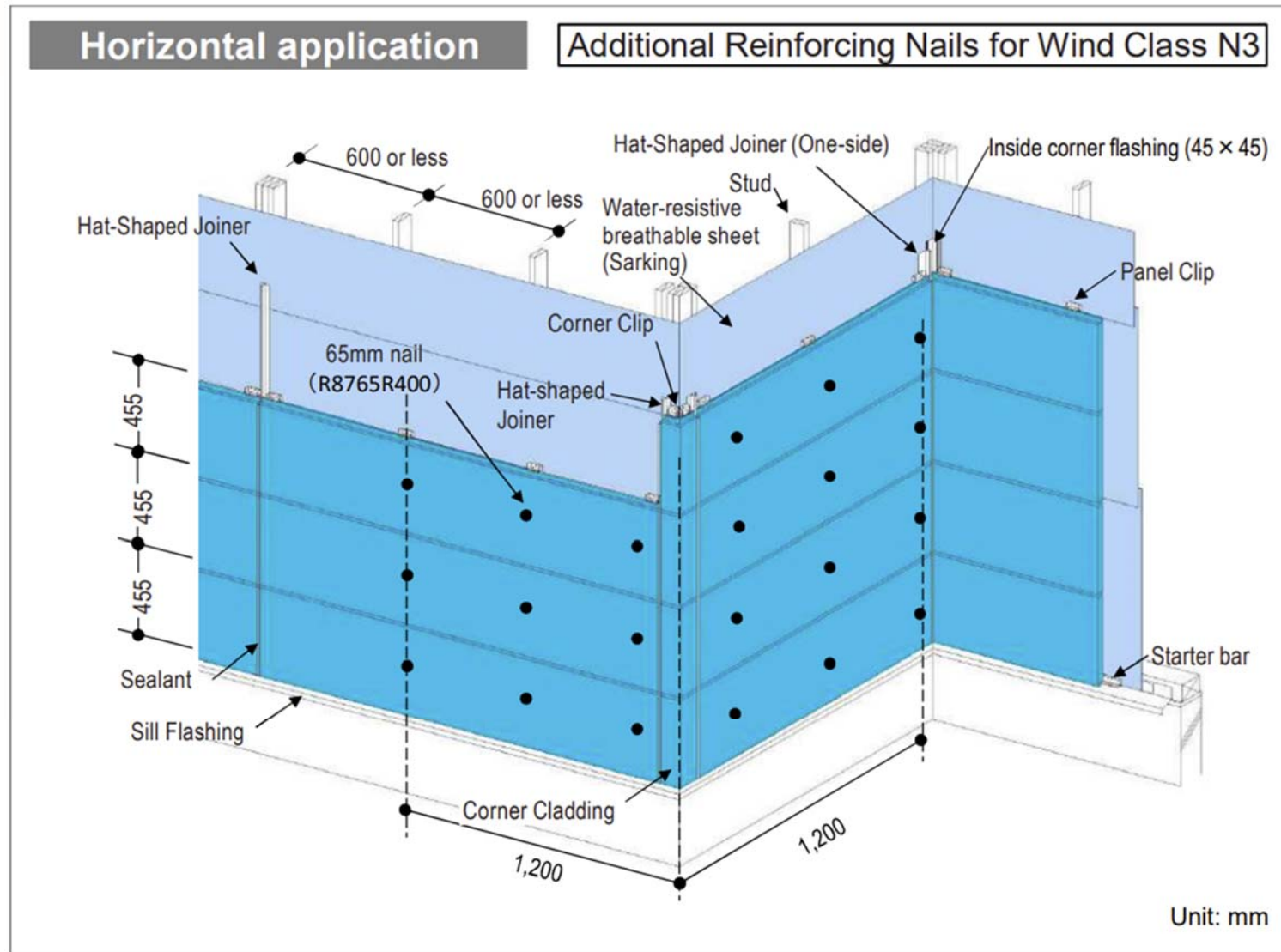


Figure 1

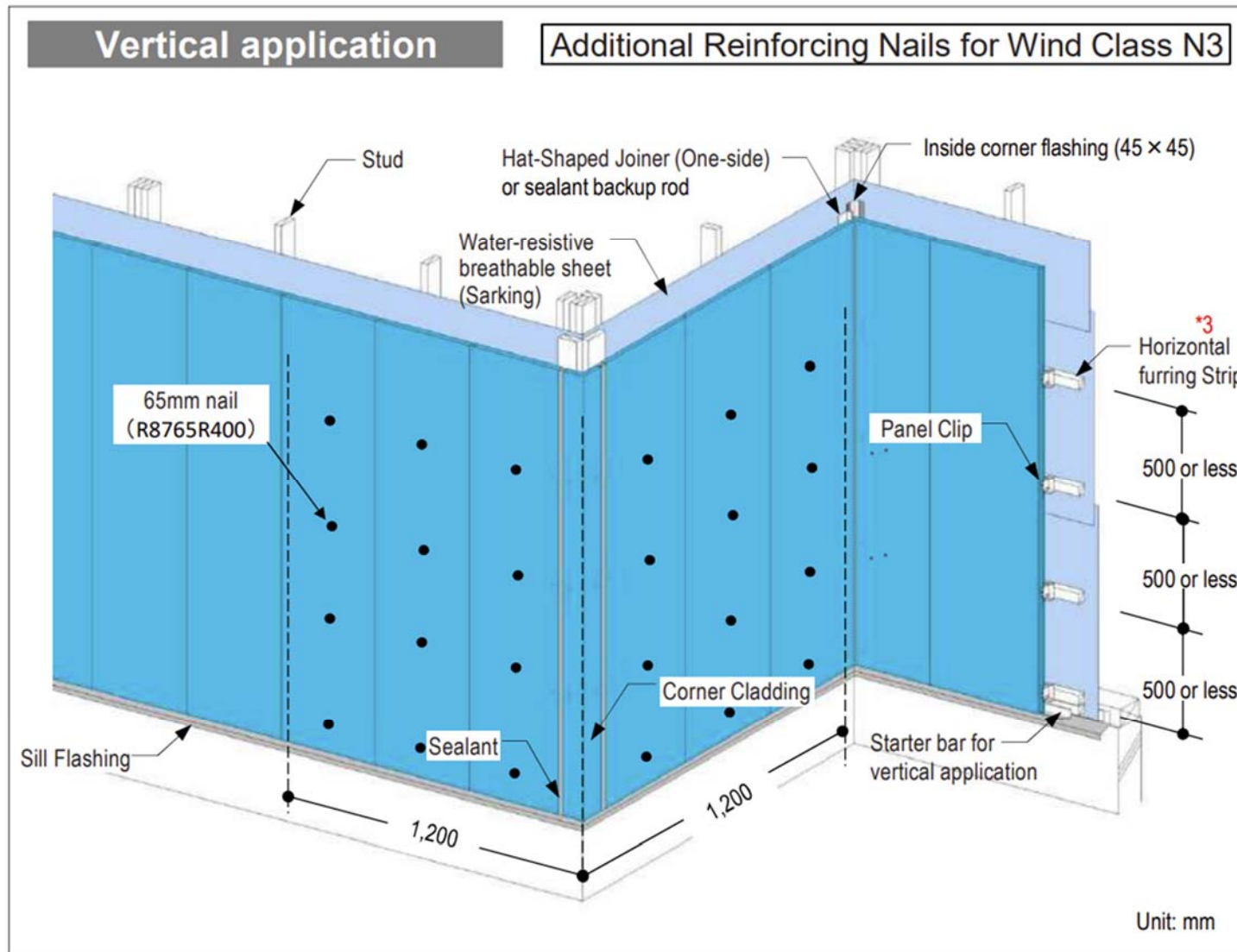


Figure 2

Table 1: CERA FAÇADE Panel Fixing Requirement

Wind Class to AS 4055	Applicable Ultimate Strength Wind Pressure		Minimum CERA FAÇADE Panel Fixing Requirement	
	General Areas	Corner Zones	General Areas	Corner Zones
N1	+0.62 kPa / -0.53 kPa	-0.94 kPa	Panel clip at 600 mm ctrs.	Panel clip at 600 mm ctrs.
N2	+0.86 kPa / -0.74 kPa	-1.30 kPa	Panel clip at 600 mm ctrs.	Panel clip at 600 mm ctrs.
N3	+1.35 kPa / -1.16 kPa	-2.03 kPa	Panel clip at 600 mm ctrs.	Panel clip + face fix at 600 mm ctrs.

Notes to Table 1:

1. Corner zone is within 1,200 mm of an external corner of a building.
2. Face fix is an additional mid width panel fixing to each stud with the following fasteners:
 - a. Timber frame – dia. 3 mm x 65 mm nail
 - b. Cold-formed steel frame – 50 mm countersunk head screw
3. For buildings outside the scope of AS 4055:2012 (incorporating Amendment No.1), the specified ultimate strength wind pressure shall not be exceeded for the fixing method. In summary, the maximum capacity of the system is as follows:
 - a. Panel clip at 600 mm ctrs.: +1.35 kPa / -1.30 kPa
 - b. Panel clip + face fix at 600 mm ctrs.: +1.35 kPa / -2.03 kPa

Table 2: Wall System R-Value – 16 mm CERA FAÇADE Panel

Stud Cavity Width (mm)	Stud Cavity Added Insulation R-Value (m ² K/W)	Wall System R-Value (m ² K/W)	
		Winter	Summer
70	None	1.6	1.3
70	1.4	2.3	2.0
75	1.5	2.4	2.1
90	2.0	2.9	2.6

Notes to Table 2:

1. System R-Value includes air films and non-ventilated cavity air space in accordance with AS/NZS 4859.1:2002 (incorporating Amendment No.1).
2. Minimum 10 mm thick plasterboard lining internal.
3. 15 mm cavity between CERA FAÇADE Panel and the stud frame.
4. R 0.2 m²K/W may be added to the system R-Value when the vapour barrier is reflective.



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A4 Manufacturer and manufacturing plant(s)

KMEW IGA plants, manufacturing the “Neorock” and “Filtect” product series, known as “CERA FAÇADE” in the Australian market.

IGA Plant address: 410-1, Higashi-omachi, Mita-aza, Iga-City, Mie, 5108-0022, Japan

Ashikaga Plant address: 1009-1, Kishinome, Hakari-cho, Ashikaga, Tochigi, , 326-0327 Japan

A5 Installation requirements

1. Product installation shall be carried out by a competent tradesperson under the direction of a Builder, both of whom have ready access to the KMEW CERA FAÇADE for Steel Frame - Design/Installation Manual for Australia, 21 September 2022; or KMEW CERA FAÇADE for Timber Frame - Design/Installation Manual for Australia, 1 September 2022 as applicable to the framing solution for the building.
2. The installer must complete, sign and send to the Certificate Holder a Certificate of Installation when installation is complete.

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendix A, A3 and Appendix A, A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with NCC 2019 including Amendment 1:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
NCC Volume Two P2.1.1	NCC Volume Two A2.2(2)(a)	NCC Volume Two A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 1, 2, 3, 4, 7, 8, 11 and 12
		NCC Volume Two A5.2(1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 5 and 6
		NCC Volume Two A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume Two P2.2.2	NCC Volume Two A2.2(2)(a)	NCC Volume Two A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 4 and 8
NCC Volume Two P2.2.3	NCC Volume Two A2.2(2)(a)	NCC Volume Two A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 4 and 8
NCC Volume Two 3.5.4.3	NCC Volume Two A2.3(2)(a)	NCC Volume Two A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 11 and 12
NCC Volume Two 3.10.5	NCC Volume Two A2.3(3)(a)(i)	NCC Volume Two A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume Two 3.12.1.4	NCC Volume Two A2.3(2)(a)	NCC Volume Two A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume Two 3.8.7.2	NCC Volume Two A2.3(1)	NCC Volume Two A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 11 and 12
NCC Volume One BP1.1	NCC Volume One A2.2(2)(a)	NCC Volume One A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 1, 2, 3, 4, 7, 8, 11 and 12
		NCC Volume One A5.2(1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 5 and 6
		NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume One BP1.2	NCC Volume One A2.2(2)(a)	NCC Volume One A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 1, 2, 3, 4, 7, 8, 11 and 12
		NCC Volume One A5.2(1)(e) Certificate or report from a professional engineer or other appropriately qualified person	Items 5 and 6
		NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume One FP1.4	NCC Volume One A2.2(2)(a)	NCC Volume One A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 4 and 8

NCC Volume One FP1.5	NCC Volume One A2.2(2)(a)	NCC Volume One A5.2(1)(d) Report issued by an Accredited Testing Laboratory	Items 4 and 8
NCC Volume One C1.9	NCC Volume One A2.3(2)(a)	NCC Volume One A5.2(1)(d) Report issued by an Accredited Testing Laboratory and NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 10 and 11
NCC Volume One F6.2	NCC Volume One A2.3(1)	NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume One G5.2	NCC Volume One A2.3(1)	NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 9 and 10
NCC Volume One J1.5	NCC Volume One A2.3(2)(a)	NCC Volume One A5.2(1)(f) Another form of documentary evidence	Items 9 and 10

B2 Reports

The following reports have been used as evidence to determine compliance with NCC 2019 including Amendment 1:

Ref	Author	Reference	Date	Description	NATA Registration
1	BRANZ	ST0875/1	20/3/2012	Face load pressure box tests on KMEW Ceradir siding 14 mm solid core nail fixed over timber battens to timber studs – in accordance with AS 4040.2.	Via ilac-MRA IANZ Accreditation No. 918
2	BRANZ	ST0875/2.R1	19/6/2012	Face load pressure box tests on KMEW Neorock siding 16 mm thick hollow core clip and nail fixed to timber framing – in accordance with AS 4040.2.	Via ilac-MRA IANZ Accreditation No. 918
3	BRANZ	ST0875/3	20/3/2012	Face load pressure box tests on KMEW Neorock siding 16 mm thick hollow core which was clip fixed to timber framing – in accordance with AS 4040.2.	Via ilac-MRA IANZ Accreditation No. 918
4	BRANZ	Appraisal No. 783	27/3/2013	KMEW NEOROCK and CERADIR 16 mm Panels Cladding System	Via ilac-MRA IANZ Accreditation No. 918
5	Parametric Developments		13/4/2015	Preliminary Test Report – KMEW Ceradir Cladding fixed to steel framing - connection	Not applicable
6	Parametric Developments		14/9/2015	Preliminary Test Report – KMEW Ceradir Cladding fixed to steel framing – shear test	Not applicable
7	BRANZ	ST1110	15/3/2016	Face load testing for KMEW	Via ilac-MRA IANZ Accreditation No. 918
8	ICC Evaluation Service LLC	ESR-1627	12/2016	CERA FAÇADE Rain Screen System: Fiber-Reinforce Cement Exterior Wall Panel System	Via ilac-MRA ANSI Accreditation ID# 1000
9	KMEW Co., Ltd.		21/09/2022	KMEW CERA FAÇADE for Steel Frame - Design/Installation Manual for Australia	Not applicable
10	KMEW Co., Ltd.		01/09/2022	KMEW CERA FAÇADE for Timber Frame - Design/Installation Manual for Australia	Not applicable



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11	BRANZ	DC2251	28/06/2012	AS/NZS 2908.2 Testing of KMEW Ceradir Siding 14 mm Solid Core Board	Via ilac-MRA IANZ Accreditation No. 918
12	BRANZ	DC12569-001	17/06/2021	AS/NZS 2908.2 testing of KMEW NEOROCK 16 mm hollow core fibre cement board	Via ilac-MRA IANZ Accreditation No. 918

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