

Certification Body:

ABN: 81 663 250 815 JAS-ANZ Accreditation

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ΏΜΙ

Type and/or use of product:

External Façade Panel and Fixing System.

Certificate of Conformity

Certificate number: CM40221 Rev1

THIS IS TO CERTIFY THAT

Exotec[™] Facade Panel and Fixing System

Description of product:

The James Hardie Exotec[™] Facade Panel and Fixing System is an express joint façade system comprising of compressed fibre cement (CFC) panels and the proprietary James Hardie top hat system. Panels are supplied as paintable or pre-finished.

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

BCA 2019 (Amdt. 1)

other building elements to achieve a Total R Value. Refer A3 State or territory variation(s): G5.2 (NSW & SA) 3.10.5.0 (NSW, QLD), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)			Volume On	e	Volume Tw	10
Windewarding Peemed-to-Satisfy Provision(s): C1.9(a)(i), (d)&(e)(iv) & (d)&(e)&(e)&(e)&(e)&(e)&(e)&(e)&(e)&(e)&(e	ertificate Holder:	Performance Requirement(s):		Structural reliability – Permanent and wind actions		Structural reliability – Permanent and wind actions
Instructed at the problem of the pr	JamesHardie		FP1.4	Weatherproofing – Subject to Limitation and Condition 2.	P2.2.2	Weatherproofing – Subject to Limitation and Condition 2.
Rosehill NSW 2142 P: 13 11 03 J1.5 Energy Efficiency – External Walls. Must be used in conjunction with other building elements to achieve a Total R Value. Refer A3 3.5.4.5 Eaves and soffit linings 3.10.5.0 Bushfire areas (BAL Low-40) 3.12.1.4 Energy Efficiency – External Walls. Must be used in conjunction other building elements to achieve a Total R Value. Refer A3 3.10.5.0 Bushfire areas (BAL Low-40) State or territory variation(s): G5.2 (NSW & SA) G5.2 (NSW & SA) 3.10.5.0 (NSW, QLD), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)	Pty Ltd	Deemed-to-Satisfy Provision(s):	(d)&(e)(iv)	Non-combustible building elements	3.5.4.3(a)	Wall cladding boards – Fibre-cement
ww.jameshardie.com.au S1.5 **** Energy Enterprive External Walls. Must be used in conjunction with other building elements to achieve a Total R Value. Refer A3 3.10.5.0 Bushfire areas (BAL Low-40) 3.12.1.4 Energy Efficiency – External Walls. Must be used in conjunction other building elements to achieve a Total R Value. Refer A3 State or territory variation(s): G5.2 (NSW & SA) 3.10.5.0 (NSW, QLD), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)			G5.2	Construction in bushfire prone areas (BAL Low-40)	3.5.4.4(a)	Sheet wall cladding
3.12.1.4 Energy Efficiency – External Walls. Must be used in conjunction other building elements to achieve a Total R Value. Refer A3 State or territory variation(s): G5.2 (NSW & SA) 3.10.5.0 (NSW, QLD), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)			J1.5		3.5.4.5	Eaves and soffit linings
other building elements to achieve a Total R Value. Refer A3 State or territory variation(s): G5.2 (NSW & SA) 3.10.5.0 (NSW, QLD), Part 3.12 (NSW, NT, SA, Qld, Tas, ACT)					3.10.5.0	Bushfire areas (BAL Low-40)
					3.12.1.4	Energy Efficiency – External Walls. Must be used in conjunction with other building elements to achieve a Total R Value. Refer A3
		State or territory variation(s):	G5.2 (NSW &	SA)	3.10.5.0 (NS)	W, 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		SUBJECT TO THE FOLLO	WING LIMITA	TIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DAT	A IN APPEND	IX A AND EVALUATION STATEMENTS IN APPENDIX B

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Richard Donarski - CMI

Don Grehan – Unrestricted Building Certifier

Date of expiry: 17/05/2024

Date of issue:



Certificate number: CM40221 Rev1

This certificate is only valid when reproduced in its entirety. Page 1 of 6

21/03/2023



Lim	itations and conditions:	Building classification/s:
1.	 The ExoTec[™] Façade Panel and Fixing system must be installed in accordance with the relevant James Hardie technical literature. a. Where ExoTec[™] Façade Panel is to be painted on-site or finished with a factory applied coating, the panels must be specified and installed in accordance with the ExoTec[™] Façade Panel and Fixing System Installation Guide (May 2021). b. A qualified Structural Engineer must design the substructure and the connection between the substructure and the top hats. c. It is the responsibility of the Project Engineer to determine the appropriate wind pressure for the project and specify the fixing of the top hats to the structure. The Engineer must limit deflection of the supporting structure to span/250 for Serviceability Wind Load in accordance with AS 1170.2:2011 'Structural design actions Wind actions'. 	Class 1,2,3,4,5,6,7,8,9 & 10
2.	To satisfy FP1.4 & P2.2.2 via verification, the relevant design is required to meet the criteria of FV1.1 and/or V2.2.1 to the satisfaction of the Appropriate Authority as defined by the NCC. The site specific building must;	
	(a)(i) has a risk score of 20 or less, when the sum of all risk factor scores are determined in accordance with Table FV1.1/V2.2.1a; and (a)(ii) is not subjected to an ultimate limit state wind pressure of more than 2.5kPa; and (a)(iii) includes only windows that comply with AS 2047	
	Compliance with Weatherproofing is limited to the tested specimen detailed in A3, deviations from this specimen, is subject to site specific design and approval by the regulatory authority.	
3.	Compliance with BP1.1(b)(iii) & P2.1.1(b)(iii) excludes resistance to impact loading from windborne debris.	
4.	The Exotec [™] Façade Panel, as certified, will contribute to the overall thermal performance of the building; however, the performance values are for guidance only and must be verified by a suitably qualified person(s). It is the responsibility of the building designer to ensure the minimum thermal requirements for the building envelope is achieved.	
5.	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.	
6.	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.	
7.	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.	
8.	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.

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.



APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

A2 Description of product

System Components

Product	Description	Quantity / Size (Nominal)	
Exotec™ facade panel	Dense compressed panel. Square edge. Factory sealed on all six sides. The Nominal density of the 9mm board	Thickness (mm)	Width (mm)	Lengths (mm)
	is 1550kg/m ³ .	9	900	1800, 2100,
	The Paintable panel has a distinctive white face, which accepts a wide range of paint finishes. The panel must		200	2400, 2700 and
	be installed with the white side facing the exterior of the structure.			3000
	The Pre-Finished Panel is pre-sealed by James Hardie to create a natural "raw" fibre-cement aesthetic with	12	1200	2400 and 3000
	an optional pre-finish using factory applied coating via a third-party supplier.			
Exotec™ Top Hat	A rolled metal section, for use with Exotec™ façade panel and fixing system, designed to span vertically	0.75 gauge	124 wide x 35	6000 and 7200
	across the building structure to support façade panels and isolate different movement of the panels from		deep	
	those of the structure.			
James Hardie Intermediate Top Hat	A metal top hat installed vertically for use with Exotec™ and ComTex façade panel and fixing system, for	0.75 gauge	50 wide x 35	6000 and 7200
	intermediate sheet support.		deep	
Exotec™ Gasket Snap Strip	For use with the Exotec™ façade panel fixing system, this gasket snap strip is specially designed to clip into	-	-	3620
	the Exotec™ Top Hat at vertical façade panel joins to cover fixings to the structure and to provide an initial			
	weather seal and drainage using a neoprene gasket.			
James Hardie Backing Strip	A weather seal at horizontal panel joints for use with Exotec™ façade panel and fixing system.	-	-	1190, 2390 and
				2990
James Hardie Façade Washers	Façade washers used for exposed fastener fixing with Exotec™ façade panel and fixing system.	-	-	-
James Hardie Base Coat	A water-resistant base coat compound used to finish over countersunk fasteners with epoxy.	-	-	-
James Hardie Joint Sealant	A general purpose, paintable, exterior grade polyurethane joint sealant.	-	-	-
HardieEdge™ Trim	An architectural slab edge solution fabricated from high-quality powder coated aluminium.	-	-	3950
HardieWrap™ Weather Barrier	A non-perforated, highly breathable and reflective safe-glare weather barrier.	<1mm	2750	30000/roll



A3 Product specification

Physical Properties		Saturated Condition	Equilibrium Condition 23ºC – 50% RH	Standard	
	Average Bending Strength	> 7.0MPa			
	Category	3	-	AS/NZS 2908.2:2000	
	Туре	Α			
	Density in kg/m ³ (Oven Dry)	1490	-	AS/NZS 2908.2:2000	
	Watertightness	-	Passes	AS/NZS 4284:2008 & AS/NZS 2908.2:2000	
	Dimensional Conformance	-	Passes	AS/NZS 2908.2:2000	
	Heat-Rain Durability				
	Warm Water Resistance	Bassas	AS /NZS 2008 2.2000		
	Freeze-Thaw Resistance	Passes		AS/NZS 2908.2:2000	
	Soak-dry				
	Combustibility	Suitable where non-combustible materials are req	uired in accordance with C1.9 of the BCA	Deemed to comply with BCA	
Bushfire	Provided any joints are no greater t BAL-Low to BAL-40.	han 3mm or appropriately sealed, compliance with As	3959-2009 as well as the National Construction	on Code of Australia 2019 Volumes 1 and 2 fo	
Thermal Properties	The EveTeeM feede pende will see	tribute to the everall thermal nerformerse of the built	ling, however, it is the responsibility of the by	uilding decigner to ensure the minimum them	
Fhermal Properties	requirements for the building envel	tribute to the overall thermal performance of the buil ope is achieved. TM C518, the 9mm panel achieves an R-Value of 0.01			
Thermal Properties	requirements for the building envel When tested in accordance with AS building envelope is achieved. Exotec™ Facade Panel and Fixing Sy	ope is achieved.	. It is the responsibility of the building design lethod FV1.1 and V2.2.1 'Weatherproofing' te	er to ensure the minimum R-Value for the	
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A4 Manufacturer and manufacturing plant(s)

Exotec[™] Facade Panels and Fixing Systems are manufactured in Australia by James Hardie Australia Pty Ltd. Contact Certificate Holder for details.

A5 Installation requirements

The ExoTec[™] Façade Panel and Fixing system must be installed in accordance with the relevant James Hardie technical literature. Where ExoTec[™] Façade Panel is to be painted on-site or finished with a factory applied coating, the panels must be specified and installed in accordance with the ExoTec Facade Panel Install Guide July 2021.

Failure to install, finish or maintain this product in accordance with applicable building codes, regulations, standards and James Hardie's written application instructions may lead to personal injury, affect system performance, violate local building codes, and void James Hardie's product warranty.

A6 Other relevant technical data

Fire Resistance Testing conducted by CSIRO on the Exotec[™] Cladding materials in accordance with AS/NZS 3837:1998 and are classified as Group 1 material. (Average Specific Extinction Area 55.1m²/Kg).

Source: CSIRO Certificate No. 1126 dated 28/08/2008.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

- 1. Characteristic Type Testing A5.2(1)(d). Reports from Accredited Testing Laboratories.
- 2. Bushfire Provisions A5.2(1)(e). Reports from a professional engineer.
- 3. Fire Safety Provisions A5.2(1)(d). Reports from Accredited Testing Laboratories.
- 4. Structural Provisions A5.2(1)(e). Reports from a professional engineer.
- 5. Thermal Provisions A5.2(1)(e). Reports from a professional engineer.
- 6. Weatherproofing Provision A5.2(1)(d). Reports from Accredited Testing Laboratories.

B2 Reports

- 1. Acronem Consulting Australia Pty Ltd; Thermal break requirements for Exotec[™] on Metal Frames Single Stud; Dated 28/11/2017.
- 2. BRANZ, Project Number: EC0712; Thermal Conductivity Measurement of Six Samples of Fibre Cement Board Products; Dated 17/10/2003.
- 3. Cardno; Engineering Report S11713-LO-44A; Certification of James Hardie ExoTec™ Façade Panel and Fixing System compliance to AS/NZS 1170.2-2002 Clause 2.5.5 & AS 4040.3-1992; Dated 18/08/2009.
- 4. CSIRO; NATA Accreditation No. 165; Certificate No.: 1126; Certificate of Assessment in accordance with AS/NZS 3837 Group Number 1 and Average specific extinction area: 55.1m²/kg; Dated 28/08/2008.
- 5. David Beneke Consulting Pty Ltd; Report No. 2011-45-LO-05; Certification of James Hardie ExoTec™ Façade Systems in High Wind Applications; Dated 19/04/2011.
- 6. David Beneke Consulting Pty Ltd; Report No. 2011-45-LO-83; Structural Certification of the James Hardie Exotec[™] Facade System Revision 4; Dated 02/08/2018.
- 7. David Beneke Consulting Pty Ltd; Report No. 2011-45-LO-84; Structural Certification of The James Hardie Exotec[™] Facade System used in Soffit Applications Revision 2; Dated 02/08/2018.
- 8. Ignis Solutions Pty Ltd; Evaluation No. IGNS-6690-01 Issue 01 Revision 00[2018]; Compliance with AS 3959-2009 BAL Low-40; Dated 31/03/2018.
- 9. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Compliance Certificate ExoTec[™] Façade Panel Characteristic Type Tests required by AS/NZS 2908.2:2000; Dated July 2010.
- 10. James Hardie Research Pty Ltd; NATA Accreditation No. 14220; Report No. TS002-21; Weathertightness (FV1.1 / V2.2.1 Weatherproofing); Dated 22/03/2021.

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