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**Certificate Holder:**

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# Certificate of Conformity

Certificate number: CM30021 Rev 5

**THIS TO CERTIFY THAT**

## Nichiha EX Series Cavity Walling System

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

Nichiha EX Series Cavity Walling System (Nichiha EX Series) is an external wall cladding system designed for use with all building types, subject to limitations detailed within this certificate and system / project specific limitations.

**Description of product:**

- Nichiha EX Series panels are 455 mm wide, 3,030 mm long and 16 mm nom thickness.
- Nichiha EX Series panels are available in differing textures and colours.
- Nichiha & Sekisui accessories may be used for specific construction options as detailed in the system options table in Appendix A3.
- Panels may be installed in horizontal or vertical orientation.
- The Nichiha EX Series system achieves EW classification in accordance with AS5113:2016.
- Other construction system components are detailed in the "Territory system design & installation manuals":
  - Cemintel Territory Design and Installation Guide for External Horizontal Installation, dated 06/2019
  - Cemintel Territory Design and Installation Guide for External Vertical Installation, dated 06/2019

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

**BCA 2019**

	Volume One		Volume Two	
<b>Performance Requirement(s)</b>	<b>BP1.1</b>	Structural Provisions	<b>P2.1.1</b>	Structural stability and resistance to actions
	<b>FP1.4</b>	Damp and Weatherproofing	<b>P2.2.2</b>	Weatherproofing

**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.

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: 01/08/2019**

**Date of expiry: 01/08/2022**



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<b>Deemed-to-Satisfy Provision(s):</b>	<b>A5.4</b>	Fire Resistance of Building Elements		
	<b>C1.9</b>	Non-Combustible Material		
	<b>Spec C1.1</b>	Fire-Resisting Construction	<b>3.7.2.4</b>	Fire Safety – Construction of External Walls
	<b>G5.2</b>	Construction in bushfire prone areas	<b>3.10.5.0 (c)</b>	Construction in bushfire prone areas
	<b>J1.5</b>	Building Fabric	<b>3.12.1.4</b>	Building Fabric – External Walls
<b>State or territory variation(s):</b>	<b>NSW G5.2</b>	Construction in Bushfire Prone Areas	<b>NSW 3.10.5.0</b>	Construction in bushfire prone areas
			<b>QLD 3.10.5.0</b>	Construction in bushfire prone areas
	<b>NSW J(A)1</b>	Building Fabric (Class 2 & 4 only)	<b>NSW Part 3.12.1</b>	Building Fabric thermal insulation
	<b>NSW J(B)1</b>	Energy efficiency (Class 3, 5, 6, 7, 8 & 9)		
	<b>NT Section J</b>	Replaced by BCA2009 Section J	<b>NT Part 3.12</b>	Replaced by BCA 2009 Part 3.12
	<b>QLD Section J</b>	Replaced by BCA2009 Section J (Class 2 only)		
<b>SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B</b>				
<b>Limitations and conditions:</b>				<b>Building classification/s:</b>
<b>Vol 1 BP1.1 &amp; Vol 2 P2.1.1</b> The wall system as described has maximum design wind load limits documented within the relevant Design & Installation Guides. When panels are installed in a vertical orientation, the wall system is limited to applications in non-cyclonic regions. For both horizontal and vertical panel orientation, wind load limits, construction detail and fixing must follow the relevant details contained within the engineering detail sections of the relevant Design & Installation Guides. For time dependent effects, system install is limited to zones C1, C2, C3 & C4 as defined by AS4312:2008 – Atmospheric Corrosivity Zones in Australia.				<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<b>Vol 1 BP1.1 (b) (v) (vi) and (ix) &amp; Vol 2 P2.1.1 (b) (v) (vi) and (ix)</b> Snow, liquid pressure and earth pressure actions are excluded.				<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<b>Vol 1 BP1.4 &amp; Vol 2 P2.1.2</b> Compliance for flood hazard areas is excluded.				<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<b>Vol 1 FP1.4 &amp; Vol 2 P2.2.2</b> The system remains weatherproof up to serviceability wind load of $\pm 3.72\text{kPa}$ (rigid air barrier) or $\pm 1.5\text{kPa}$ (flexible wall membrane).				<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<b>Vol 1 FP1.7 &amp; Vol 2 P2.4.1</b> Compliance for use in wet areas is excluded.				<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<b>Vol1 C1.9</b> The Nichiha EX Series may be used where non-combustible materials are required.				<b>2, 3, 4, 5, 6, 7, 8 &amp; 9</b>

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<p><b>Vol 1 Spec C1.1 &amp; Vol 2 3.7.2.4</b> Fyrchek MR required beneath cladding material to achieve external wall FRLs (up to 90/90/90) as outlined in: Tables 6.16, 6.17, 6.18 &amp; 6.19 in Cemintel Design &amp; Installation Guide – Territory – External Horizontal installation, dated 06/2019, and/or Tables 6.13, 6.14, 6.15 &amp; 6.16 in Cemintel Design &amp; Installation Guide – Territory – External Vertical installation, dated 06/2019.</p>	<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<p><b>Vol 1 G5.2 &amp; Vol 2 3.10.5.0 (c)</b> Including respective NSW G5.2 variation: – Construction in Bushfire Prone Areas, up to BAL40.</p>	<b>1, 2, 3 &amp; 10</b>
<p><b>Vol 1 J1.5 &amp; Vol 2 3.12.1.4</b> The wall system contributes towards the Total wall system U or R value, which is to be determined in accordance with Vol 1 J1.5 &amp; Vol 2 3.12.1.4. Insulation shall be included within the wall system, as outlined in the Territory system design &amp; installation manuals.</p>	<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<p><b>Vol 1 NSW J(A)1 &amp; Vol 2 NSW 3.12.1</b> Insulation in accordance with NSW BASIX.</p>	<b>1, 2, 4 &amp; 10</b>
<p><b>Vol 1 NSW J(B)1</b> Insulation in accordance with energy efficiency requirements.</p>	<b>3, 5, 6, 7, 8 &amp; 9</b>
<p><b>Vol 1 NT &amp; QLD Section J</b> Insulation in accordance with energy efficiency requirements of BCA 2009 Section J.</p>	<b>2, 3, 4, 5, 6, 7, 8 &amp; 9</b>
<p><b>Vol 2 NT Part 2.6</b> Insulation in accordance with building fabric requirements of BCA 2009 Part 2.6.</p>	<b>1 &amp; 10</b>
<p><b>General</b> Compliance, where panels are exposed to temperature over 50 °C, is excluded, for example around chimneys and fireplaces.</p>	<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<p><b>General</b> Internal linings to be designed &amp; specified in accordance with internal linings manufacturer guidelines or by a suitably qualified building professional.</p>	<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>
<p><b>General</b> The wall system shall be designed &amp; specified by a suitably qualified design professional and installed by suitably qualified and trained building professionals, in accordance with the Territory system design &amp; installation manuals.</p>	<b>1, 2, 3, 4, 5, 6, 7, 8, 9 &amp; 10</b>

## APPENDIX A – PRODUCT TECHNICAL DATA

### A1 Type and intended use of product

Nichiha EX Series is an external wall cladding system designed for use with all building types.

### A2 Description of product

Nichiha EX Series is an external wall cladding system consisting of cement-bonded fibrous wood particle panels for attachment to structural framing of timber or steel or to a masonry wall.

Nichiha & Sekisui accessories may be used for specific construction options as detailed in the system options table in Appendix A3.

### A3 Product specification

The table below presents the Nichiha & Sekisui specific system options:

<i>Installation type</i>	<i>Option</i>	<i>Cavity width</i>	<i>Short Clip reference</i>	<i>Long clip reference</i>	<i>Starter strip reference</i>
Horizontal Installation	Option 1	15mm	Nichiha JE825	Nichiha JEL860	Nichiha FA850A
	Option 2	5mm	Nichiha JE555	-	Nichiha FA150A
	Option 3	18mm	Sekisui Type I or II	-	Sekisui Type I or II
Vertical Installation	Option 1	15mm	Nichiha JE715	Nichiha JEL860	Nichiha FA750T
	Option 2	5mm	Nichiha JE555	-	Nichiha FA300T

NOTE: The Nichiha EX Series achieves EW Classification in accordance with AS5113:2016 when cavity barriers and non-combustible components (including insulation) are used.

For other general system specification details, refer to items 1 & 2 listed in B2:

- Cemintel Design and Installation Guide – Territory – External Horizontal Installation, dated 06/2019
- Cemintel Design and Installation Guide – Territory – External Vertical Installation, dated 06/2019

## Appendix A3 cont'd

The following tables (1, 2, 3 & 4) contain Wind Load Tables for Nichiha & Sekisui specific system components:

Table 1: Conforming JE825 Systems				
AS 4055 Wind Classification	Net Pressure kPa		Average More than 1.2 m from corners	Local Within 1.2 m of the corners
	Average	Local		
N1	0.69	1.04	JE825 @ 600 JE825 @ 600 + face nail	JE825 @ 600 JE825 @ 600 + face nail
N2	0.96	1.44	JE825 @ 600 JE825 @ 600 + face nail	JE825 @ 600 JE825 @ 600 + face nail
N3	1.50	2.25	JE825 @ 600 JE825 @ 600 + face nail	JE825 @ 600 + face nail
N4	2.23	3.35	JE825 @ 600 + face nail	JE825 @ 600 + face nail
N5	3.29	4.93	JE825 @ 600 + face nail	JE825 @ 600 + face nail
N6	4.44	6.66	JE825 @ 600 + face nail	JE825 @ 600 + double face nail
C1	2.03	3.00	JE825 @ 600 JE825 @ 600 + face nail	JE825 @ 600 JE825 @ 600 + face nail
C2	3.01	4.47	JE825 @ 600 JE825 @ 600 + face nail	JE825 @ 600 + face nail
C3	4.44	6.57	JE825 @ 600 + face nail	JE825 @ 600 + double face nail
C4	5.99	8.88	Not suitable	Not suitable

Note:

1. The capacity of the "Nichiha system with JE825 clips in studs at 600 centres and double face-nailed" has been deduced for "local N6" applications by taking the test result for a single face-nailed system and adding an estimate of the contribution of the extra nail of at least 1.13 kPa. The justification is as follows:
  - a. The capacity of "no-nails" is 3.22 kPa,
  - b. of "single face-nail" is 5.53 kPa (an increase of 2.31 kPa), and
  - c. of "double face-nail" is estimated to be in excess of 6.66 kPa (an increase of 1.13 kPa).
2. Tests indicate that the reduction of stud spacing from 600 mm to 450 mm increases the capacity. However, there is insufficient data to use this as a justification for deleting face nailing in those cases where it has been specified in the table.

## Appendix A3 cont'd

<b>Table 2: Conforming JE555 Systems</b>				
AS 4055 Wind Classification	Net Pressure kPa		Average	Local
	Average	Local	More than 1.2 m from corners	Within 1.2 m of the corners
N1	0.69	1.04	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail JE555 + furring @ 450	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail JE555 + furring @ 450
N2	0.96	1.44	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail JE555 + furring @ 450	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail JE555 + furring @ 450
N3	1.50	2.25	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail JE555 + furring @ 450	JE555 + furring @ 600 + face-nail JE555 + furring @ 450
N4	2.23	3.35	JE555 + furring @ 600 + face-nail	Not suitable
N5	3.29	4.93	Not suitable	Not suitable
N6	4.44	6.66	Not suitable	Not suitable
C1	2.03	3.00	JE555 + furring @ 600 JE555 + furring @ 600 + face-nail	JE555 + furring @ 600 + face-nail
C2	3.01	4.47	JE555 + furring @ 600 + face-nail	Not suitable
C3	4.44	6.57	Not suitable	Not suitable
C4	5.99	8.88	Not suitable	Not suitable

Note:  
1. Stud spacing of 450 mm used only when there is sufficient capacity for both average and local pressures.

## Appendix A3 cont'd

AS 4055 Wind Classification	Net Pressure kPa		Average More than 1.2 m from corners	Local Within 1.2 m of the corners
	Average	Local		
N1	0.69	1.04	Sekisui @ 600 Sekisui @ 600 + face-nail Sekisui @ 450	Sekisui @ 600 Sekisui @ 600 + face-nail Sekisui @ 450
N2	0.96	1.44	Sekisui @ 600 Sekisui @ 600 + face-nail Sekisui @ 450	Sekisui @ 600 + face-nail Sekisui @ 450
N3	1.50	2.25	Sekisui @ 600 + face-nail	Sekisui @ 600 + face-nail
N4	2.23	3.35	Sekisui @ 600 + face-nail	Sekisui @ 600 + face-nail
N5	3.29	4.93	Sekisui @ 600 + face-nail	Sekisui @ 600 + face-nail
N6	4.44	6.66	Not suitable	Not suitable
C1	2.03	3.00	Sekisui @ 600 + face-nail	Sekisui @ 600 + face-nail
C2	3.01	4.47	Sekisui @ 600 + face-nail	Sekisui @ 600 + face-nail
C3	4.44	6.57	Not suitable	Not suitable
C4	5.99	8.88	Not suitable	Not suitable

Note:

1. Stud spacing of 450 mm used only when there is sufficient capacity for both average and local pressures.

AS 4055 Wind Classification	Net Pressure kPa		Average More than 1.2 m from corners	Local Within 1.2 m of the corners
	Average	Local		
N1	0.69	1.04	Sekisui @600 Sekisui @300	Sekisui @600 Sekisui @300
N2	0.96	1.44	Sekisui @600 Sekisui @300	Sekisui @600 Sekisui @300
N3	1.50	2.25	Sekisui @600 Sekisui @300	Sekisui @600 Sekisui @300
N4	2.23	3.35	Sekisui @600 Sekisui @300	Sekisui @300
N5	3.29	4.93	Sekisui @300	Not suitable
C1	2.03	3.00	Sekisui @600 Sekisui @300	Sekisui @300
C2	3.01	4.47	Sekisui @300	Not suitable

Note:

1. Stud spacing of 300 mm used only when there is sufficient capacity for both average and local pressures.



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## **A4 Manufacturer and manufacturing plant(s)**

Nichiha Corporation  
2-18-19 Nishiki, Nakaku  
Nagoya 460-8610, Japan

## **A5 Installation requirements**

Refer to items 1 & 2 listed in B2:

- Cemintel Design and Installation Guide – Territory – External Horizontal Installation, dated 06/2019
- Cemintel Design and Installation Guide – Territory – External Vertical Installation, dated 06/2019

## **A6 Other relevant technical data**

Refer to items 1 & 2 listed in B2:

- Cemintel Design and Installation Guide – Territory – External Horizontal Installation, dated 06/2019
- Cemintel Design and Installation Guide – Territory – External Vertical Installation, dated 06/2019

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 2016:

Code Clause	Assessment Method(s)	Evidence of suitability	Evidence reference in B2
NCC Volume One BP1.1	Combination of A2.2 – 2 (a) & (c)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 3, 4, 5, 6, 7, 8 & 27
NCC Volume Two: P2.1.1	Combination of A2.2 – 2 (a) & (c)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 3, 4, 5, 6, 7, 8 & 27
NCC Volume One FP1.4	Combination of A2.2 – 2 (a) & (c)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 5, 6, 14, 15, 16, 17 & 18
NCC Volume Two: P2.2.2	Combination of A2.2 – 2 (a) & (c)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 5, 6, 14, 15, 16, 17 & 18
NCC Volume One: A5.4	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 11, 12 & 29
NCC Volume One: C1.9	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 10, 13, 24, 25 & 26
NCC Volume One Spec C1.1	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 11, 12 & 28
NCC Volume Two: 3.7.2.4	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 11, 12 & 28
NCC Volume One G5.2	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 9 & 13
NCC Volume Two: 3.10.5.0 (c)	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (e) – Test report & expert judgement	Items 9 & 13
NCC Volume One J1.5	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (f) – Test report & calculation	Items 19, 20, 21, 22 & 23
NCC Volume Two: 3.12.1.4	Combination of A2.3 – 2 (a) & (b)	Combination of A5.2 – 1 (d) & (f) – Test report & calculation	Items 19, 20, 21, 22 & 23

### B2 Reports

The following reports have been used as evidence to determine compliance with NCC 2016:

Ref	Author	Reference	Date	Description	NATA Registration
1	Cemintel	-	Jun-19	Cemintel Territory Series D&I Guide Horizontal install	-
2	Cemintel	-	Jun-19	Cemintel Territory Series D&I Guide Vertical install	-
3	David Beneke	2012-32-LO126	Feb-17	Structural engineer's certificate	-
4	James Cook Uni	TS1044	Aug-17	Structural test report	14937
5	Ian Bennie & Assoc	2016-066-S2	Nov-16	Structural & Weather tightness test report	2371
6	Ian Bennie & Assoc	2016-066-S3	Nov-16	Structural & Weather tightness test report	2371
7	Quasar	Q09102702-12	Jul-12	Structural analysis report	-
8	Quasar	Q11091701-0	Sep-11	Structural analysis report	-
9	BRANZ	FAR4628	Oct-16	Fire Assessment Report	-
10	SGA	277.3 R1.1	Jun-17	Combustibility assessment report	-
11	BRANZ	FAR2303	Dec-15	Fire Assessment Report	-
12	BRANZ	FAR2357	Jul-17	Fire Assessment Report	-
13	EXOVA	2593800	Feb-12	Fire Test Report	3277

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14	Ian Bennie & Assoc	2016-066-S1	Nov-16	Weather proofing test report	2371
15	AECOM	-	Jul-16	Weather proofing assessment	-
16	BRANZ	DC2314-DU01	Nov-12	Weather proofing test report	-
17	BRANZ	DC2568	May-15	Weather proofing test report	-
18	CSIRO	DTF1045	Feb-16	Weather proofing test report	-
19	CSR	TC906	Mar-13	Thermal test report	-
20	CSR	-	Jul-13	Thermal assessment calculations	-
21	CSR	-	Jul-13	Thermal assessment calculations	-
22	CSR	-	Jul-13	Thermal assessment calculations	-
23	CSR	-	Jul-13	Thermal assessment calculations	-
24	Warringtonfire	RTF180305a2	Jul-19	Fire Test Report	3277
25	Warringtonfire	ASCRRTF180305a2	Jul-19	Fire Classification Report	3277
26	Warringtonfire	FAS190024-R1.2	Jul-19	Fire Assessment Report	3277
27	Quasar	B31090901-1	Sep-13	Durability / Corrosion Assessment Report	-
28	Exova Warringtonfire	2406400	Sep-09	Fire Test Report	3277

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.

**End of Certificate.**