

Certificate no: CMNZ30047

Version: I

Original issue date: 18/12/2019

Version date: 02/04/2024

Renewal Date: 02/04/2027

# Product Certificate

## NICHIHA

### EX Series Wall Cladding System

#### 1. Certificate Holder Details



##### Nichiha Corporation

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#### 2. Product Certification Body

##### Global-Mark Pty Ltd

Trading as Global-Mark

57 Willis Street, Wellington, 6011

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**Complaints:** The complaints process for this certificate can be found here:

[www.global-mark.co.nz/complaints](http://www.global-mark.co.nz/complaints)

#### Global-Mark Managing Director.



Herve Michoux

#### 3. Description of Building Method or Product

The Nichiha EX Series wall cladding system consists of pre-finished, cement-bonded, fibrous wood particle panels in numerous profiles/finishes, the panel dimensions are 3,030 mm by 455 mm with a nominal thickness of 16 mm. Panels are pre-finished using a durable multi-layer paint process and a Nichiguard stain resistant coating.

Panels are tongue and groove profiled along longest edges and fit together to form a waterproof joint. Joints at the ends of the panels are aligned for each panel course and are finished with sealant.

The panels are secured with proprietary components and are installed over a flexible wall underlay or rigid air barrier.

#### 4. Intended use of Building Method or Product

The Nichiha EX Series wall cladding system may be used as an external wall cladding and as an internal wall lining for all buildings within the scope of limitations detailed below.

#### 5. New Zealand Building Code Provisions

The Nichiha EX Series wall cladding system if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:	Performance B1.3.1, B1.3.2 and B1.3.4, for the relevant physical conditions of B1.3.3 (a), (F), (h), (j) & (q)
Clause B2 DURABILITY:	Performance B2.3.1(b) 15 years and B2.3.2(a)
Clause C3 FIRE:	Performance C3.4 (a), C3.5 & C3.7
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.2, E2.3.5, E2.3.6 and E2.3.7
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1



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#### 6. Conditions and Limitations of Use

1. The Nichiha EX Series wall cladding system is certified for use as an external wall cladding on buildings:
  - a. Designed:
    - i. in accordance with NZS 3604:2011 for timber framed buildings, or
    - ii. in accordance with NZS 3404:2009 Part 1 and NASH Standard Part 2: May 2019 Light Steel Framed Buildings, or
    - iii. in accordance with NZS 4229:2013 for masonry buildings, and where a flexible membrane or rigid air barrier is incorporated in the Nichiha EX Series wall cladding system, with the following limitations;
      - i. Substrate and cladding framing deflections not exceeding Span/250, and
      - ii. Horizontal or Vertical panel orientation, wind zone (NZS 3604:2011) up to and including Extra High, or
  - b. Designed by Specific Engineering Design in accordance with B1/VM1 first edition, amendment 21 dated 02 November 2023, with the following limitations;
    - i. building height up to 25 metres, and
    - ii. Substrate and cladding framing deflections not exceeding Span/250, and
    - iii. where a flexible membrane is incorporated in the Nichiha EX Series wall cladding system, the following wind pressure limits apply;
      1. Horizontal or Vertical panel orientation, SLS wind pressure:  $\pm 1.5$  kPa, and
      2. Horizontal or Vertical panel orientation, ULS wind pressure:  $\pm 2.5$  kPa, and
    - iv. where a rigid air barrier is incorporated in the Nichiha EX Series wall cladding system, the following wind pressure limits apply;
      1. Horizontal panel orientation, SLS wind pressure:  $\pm 3.72$  kPa, and
      2. Horizontal panel orientation, ULS wind pressure:  $\pm 6.0$  kPa, and
      3. Vertical panel orientation, SLS wind pressure:  $-1.98$  kPa /  $+1.56$ , and
      4. Vertical panel orientation, ULS wind pressure:  $-3.3$  kPa /  $+2.6$  kPa
2. The Nichiha EX Series wall cladding system is certified for use as an external wall cladding on buildings:
  - a. with Importance Levels of 1 to 4, and
  - b. located anywhere with respect to a relevant boundary, and
  - c. when building height is greater than 10 metres and upper levels contain sleeping uses or "other property", horizontal fire control joints must be installed at 3.5 metre max vertical spacing, and
  - d. in Exposure Zones B, C & D (except for microclimates) as defined in NZS 3604:2011 section 4.2, provided all fasteners and fixings are in accordance with NZS 3604:2011 Section 4, and

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- e. with aluminium window and door joinery that meets the requirements of NZS 4211:2008 and installed with suitable vertical jambs and horizontal heads and sills flashings.
3. The Nichiha EX Series wall cladding system with panel installation other than vertical or horizontal, and on non-vertical surfaces (eg. parapet capping) is outside the scope of this certificate.
4. Nichiha EX Series wall cladding system is also certified for use as an internal wall lining in buildings:
  - a. with Importance Levels of 1 to 4 and
  - b. in any area of the building, except wet areas, and
  - c. with or without an automatic fire sprinkler system.
5. The Nichiha EX Series wall cladding system must be specified, installed and maintained in accordance with the following documentation referenced as the applicable technical literature:
  - a. Cemintel Territory Series – External Horizontal Installation FCNZ504, April 2024
  - b. Cemintel Territory Series – External Vertical Installation FCNZ524, April 2024
  - c. Cemintel Territory Series – Internal Installation FCNZ544, April 2024
6. The designer shall provide a signed declaration for submission with the building consent application that the use of this product in the proposed building work falls within the scope of this certificate and that all design conditions of this certificate have been met.
7. The installer shall supply a signed Declaration that the product has been installed in accordance with this certificate, for consideration for issuing a Code Compliance Certificate (CCC).

## 7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the applicable SDS must be observed at all times. Please refer to:

- Safety Data Sheet – Territory Panel Joint Sealant, LWS-SDS-141, 9 May 2018
- Safety Data Sheet – Territory Panel Joint Sealant Woodlands Whitewash, Woodlands Ebony, Steppe Tundra & Steppe Montane, CSR0000301, 18 April 2019
- Safety Data Sheet – Territory Panel, CSR0001201, 15 June 2020
- Safety Data Sheet – Territory Primer 1, LWS-SDS-201, 14 December 2016
- Safety Data Sheet – Territory Primer 2, LWS-SDS-229, 19 September 2017
- Safety Data Sheet – Territory Touch Up Paint, CSR0004001, 21 March 2022
- Safety Data Sheet – Cemintel Edge Sealer, CSR0003601, 21 January 2022



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### 8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
Clause B1 STRUCTURE:	Alternate solution – Testing and assessment, Expert judgement	1, 2, 3, 4, 5, 6, 8 & 9
Clause B2 DURABILITY:	Alternate solution – Expert judgement	1, 2, 3, 7 & 10
Clause C3 FIRE:	Verification method – Testing and assessment, Acceptable solution – Testing and assessment,	1, 2, 3, 11, 12, 13, 14 & 15
Clause E2 EXTERNAL MOISTURE:	Verification method – Testing and assessment	1, 2, 16, 17, 18, 19, 20 & 21
Clause F2 HAZARDOUS BUILDING MATERIALS:	Alternate solution – Expert judgement	1, 2, 3, 22, 23, 24, 25, 26, 27 & 28

### 9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
1.	CSR Cemintel	Cemintel Territory Series – External Horizontal Installation FCNZ504	April 2024
2.	CSR Cemintel	Cemintel Territory Series – External Vertical Installation FCNZ524	April 2024
3.	CSR Cemintel	Cemintel Territory Series – Internal Installation FCNZ544	April 2024
4. *	David Beneke Consulting	Structural Design Verification of Cemintel Designer Series Residential Cladding	9 January 2016
5. *	David Beneke Consulting	CSR CDS Walling System for New Zealand Applications	26 September 2016
6. *	David Beneke Consulting	Certification of CSR Designer Series Facade System	20 March 2017



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7.*	BRANZ	Testing of Nichiha Cladding Sample following AS2331.3.13	11 February 2019
8.*	QUASAR Management Services	Nichiha EX Series Wall System – Analysis of Screw Fixing Tests	19 September 2011
9.*	James Cook University	Cyclic Simulated Wind Load Strength Testing of Cemintel Designer Series Cladding System for Facade Applications	25 August 2016
10.*	Venn Engineering	Durability Compliance Opinion – Cemintel Territory Series Cladding System	6 March 2019
11.*	AWTA	Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate	31 August 2015
12.*	BRANZ	Fire resistance of CSR timber framed walls	24 December 2015
13.*	BRANZ	CSR steel framed walls	6 July 2017
14.*	CSIRO	Test on cement bonded fibrous wood particle panel at 50-kW/m2 irradiance	21 March 2012
15.*	WarringtonFire	Fire Assessment Report – FAS190252: 45759 R11.1	26 May 2022
16.*	CSIRO	Structural, air infiltration & water penetration performance tests	16 February 2016
17.*	BRANZ	Weather-tightness test of CSR Cemintel Cladding	15 November 2012
18.*	BRANZ	E2/VM1 Testing of a CSR Cemintel Panel	6 May 2015
19.*	Ian Bennie & Associates	Cemintel CDS Horizontal Cladding System with Rigid Air Barrier	21 November 2016
20.*	Ian Bennie & Associates	Bradford Enviroseal Proctorwrap CW-IT	8 November 2016
21.*	Ian Bennie & Associates	Cemintel CDS Cladding System with Bradford Enviroseal Proctorwrap CW-IT	8 November 2016
22.	CSR Cemintel	Safety Data Sheet – Territory Panel Joint Sealant, LWS-SDS-141	9 May 2018



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23.	CSR Cemintel	Safety Data Sheet – Territory Panel Joint Sealant Woodlands Whitewash, Woodlands Ebony, Steppe Tundra & Steppe Montane, CSR0000301	18 April 2019
24.	CSR Cemintel	Safety Data Sheet – Territory Panel, CSR0001201	15 June 2020
25.	CSR Cemintel	Safety Data Sheet – Territory Primer 1, LWS-SDS-201	14 December 2016
26.	CSR Cemintel	Safety Data Sheet – Territory Primer 2, LWS-SDS-229	19 September 2017
27.	CSR Cemintel	Safety Data Sheet – Territory Touch Up Paint, CSR0004001	21 March 2022
28.	CSR Cemintel	Safety Data Sheet – Cemintel Edge Sealer, CSR0003601	21 January 2022

\* These documents were provided commercial in confidence and are not publicly available

#### 10. Supporting Information About Description (Optional)

The Nichiha EX Series panels are pre-finished, cement-bonded, fibrous wood particle panels and may be fixed to either timber frames, steel frames or masonry structure with proprietary fixing brackets, fasteners, flashing and profiles, including:

- back flashings, finished with a continuous sealant
- pre-formed external corner
- corner trim,
- backing strip
- panel clips
- ventilated vermin proof starter strip
- eave trim
- spacers

#### 11. Supporting Information About Intended Use (Optional)

The Nichiha EX Series wall cladding system accessories and approved construction components are detailed in the following technical documentation:

- Cemintel Territory Series – External Horizontal Installation FCNZ504, April 2024
- Cemintel Territory Series – External Vertical Installation FCNZ524, April 2024
- Cemintel Territory Series – Internal Installation FCNZ544, April 2024

#### 12. Supporting Information About Conditions and Limitations of Use (Optional)



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In addition to the limitations of Condition 1 (b), other design features and parameters that limit the scope of E2/VM2 (BRANZ EM7) may also limit the scope of this certificate and must be taken into account by the designer.

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**All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)**

**If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.**



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