

Certificate no: CMNZ25003

Version: 01

Original issue date: 16 September 2024

Version date: 16 September 2024

1. Certificate Holder Details



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2. Product Certification Body



SAI Global Certification Services Pty Limited
(ACN 108 716 669) "Intertek SAI Global"
JAS-ANZ Accreditation No. Z1440295AS
Address: Level 7 Suite 7.01. 45 Clarence Street,
Sydney NSW 2000 Australia
www.saiglobal.com

Complaints: The complaints process for this certificate can be found here:
<https://saiassurance.com.au/complaints-appeals/>

Product Certificate

Network Architectural ALPOLIC™ NC

3. Description of Building Method or Product

ALPOLIC™ NC is a 4.0mm thick aluminium composite material (ACM*). It has a 3.0mm non-combustible mineral core, sandwiched between two skins of 0.5mm thick aluminium metal facings.

The topside surface is finished with Lumiflon™ based fluoropolymer coating as standard, and the backside is finished with a thin polyester coating (wash coating) or a service coating. Finishes are available in Solid, Metallic, Sparkling, Prismatic colours and Patterns.

ALPOLIC™ NC is available in panels of:

- Thickness: 4.0mm
- Width: 914mm – 1620mm
- Length: 1800mm – 7200mm

*Note: * Aluminium composite material (ACM) is also commonly referred to as aluminium composite panels (ACP)*

Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use. Continuation of description can be found in item 10 – Supporting Information about Description.

Product brochure/catalogue or models identification numbers:

- ALPOLIC™ A1/NC

4. Intended use of Building Method or Product

ALPOLIC™ NC is intended for use as part of an external cladding system, as an internal wall and ceiling lining including wet areas, and eaves lining.

Continuation of intended use can be found in item 11 – Supporting Information about Intended use.

5. New Zealand Building Code Provisions

Clause B2 Durability — B2.3.1(b)

Clause C3 Fire affecting areas beyond the fire source — C3.4(a); C3.5 (contributes to); C3.7 (contributes to)



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Clause E2 External moisture – E2.3.2 (contributes to); E2.3.7 (contributes to)

Clause E3 Internal moisture – E3.3.4 (contributes to); E3.3.5 (contributes to)

Clause F2 Hazardous building materials – F2.3.1

Clause G3 Food preparation and prevention of contamination – G3.3.2(a) (contributes to) & (b) (contributes to)

*How the building method or product complies or contributes can be found in item 8. **Basis for Certification.***

*Any qualifications on the extent of that compliance can be found in item 6. **Conditions and limitations of use.***

6. Conditions and Limitations of Use

1. ALPOLIC™ NC is certified for use as part of an external wall cladding system on buildings:
 - a. within the scope of the NZBC acceptable solution E2/AS1 para 1.1, for wind zones up to and including “Extra High” (as defined by NZS 3604:2011), or calculated design wind pressure (ULS) of 2.50 kPa, provided:
 - i. when used in conjunction with a drained and ventilated system with a building underlay that meets the performance characteristics of table 23, E2/AS1 and has an air resistance greater than 0.1 MN/m³, and
 - ii. where located in wind zone Extra High or with design wind pressure is greater than 1.55 kPa a rigid air barrier is used, and
 - b. buildings outside the scope of E2/AS1 provided compliance with E2 External moisture E2.3.2, and E2.3.7 is established by specific engineering design, and
 - c. for multi-level buildings with a building height ≥ 25 m (when used as part of a C/AS2 compliant external wall cladding system)
 - d. Located:
 - i. anywhere with respect to a relevant boundary, and
 - ii. in all exposure zones (except for microclimates) as defined in NZS 3604:2011.
Metal flashings and stainless-steel fixings complying with table 7 and table 20 of E2/AS1 must be used.
2. ALPOLIC™ NC is certified for use as an internal lining, including wet areas when used as part of a system which achieves E3 compliance.
3. Where ALPOLIC™ NC is fabricated and or folded to be part of a cladding or lining system:
 - a. it shall be in accordance with the product specifications and properties and details in the referenced documents, and
 - b. compliance of the complete wall cladding system or lining system is not within the scope of this certification.

NOTE: Together, items 3,4,5 and 6 define scope of use

Reference Documents:

- ALPOLIC™ NC-A1 Processing Guide, 202407
- ALPOLIC™ NC Recommended Installation Guide, Rev. 1.8

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7. Health and Safety Information

- ALPOLIC™ A1/ ALPOLIC™ NC – Safety Data Sheet (SDS), 1 Dec, 2022. *The SDS identifies no hazardous materials.*

8. Basis for Certification

- **B2 Durability** – by comparison with provisions of verification method B2/VM1.
- **C3 Fire affecting areas beyond the fire source** – by testing and comparison with the provisions of acceptable solution C/AS1 & C/AS2 and verification method C/VM2
- **E2 External moisture** – by testing and comparison with the provisions of Verification Method E2/VM1.
- **E3 Internal moisture** – by comparison with provisions of Acceptable Solution E3/AS1 clause 3.1.2
- **F2 Hazardous building materials** – by comparison with the Performance Requirements of F2.3.1 and material datasheet.
- **G3 Food preparation and prevention of contamination** - by comparison with provisions of Acceptable Solution G3/AS1.

9. Supporting Documentation for Certification

Acceptable Solutions and Verification Methods for New Zealand Building Code:

- **B2 Durability** – Acceptable Solution and Verification Methods, 2nd edition (amendment 12, 28 November 2019).
- **C3 Fire affecting areas beyond the source:**
 - C1-C6 Protection from Fire Acceptable Solution C/AS1 Protection from fire for buildings with sleeping (residential) and outbuildings (risk group SH), 2nd edition (2 November 2023)
 - C/AS2 Acceptable Solution for Buildings other than Risk Group SH For New Zealand Building Code Clauses C1-C6 Protection from Fire, 1st edition (amendment 3, 2 November 2023)
 - C/VM2 Verification Method: Framework for Fire Safety Design For New Zealand Building Code Clauses C1-C6 Protection from Fire, 1st edition (amendment 7, 2 November 2023)
- **E2 External moisture** – Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3, 3rd edition (amendment 7, 31 March 2019).
- **E3 Internal moisture** – Acceptable Solutions and Verification Methods, 2nd edition (amendment 7, 5 November 2020).
- **F2 Hazardous Building Materials** – Acceptable Solutions and Verification Methods, 1st edition (amendment 3, 1 January 2017).
- **G3 Food preparation and prevention of contamination** – Acceptable Solutions and Verification Methods, 1st edition (amendment 2, 1 January 2017).

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Test Reports:

B2 Durability	1, 2
C3 Fire affecting areas beyond the source	3, 4, 5, 6, 7
E2 External moisture	9
E3 Internal moisture	-
F2 Hazardous Building Materials	8
G3 Food preparation and preventions of contamination	-

- Mitsubishi Chemical Infratec, ALPOLIC/fr, Declaration of ALPOLIC/fr, NC durability of adhesion strength (dated 17 January 2024).** This document provides the test results of ALPOLIC/fr and ALPOLIC NC when tested to ASTM D903 – Peel Strength Testing of Adhesive Bonds and to ASTM D1781 – Climbing Drum Peel Testing (including after accelerated tests) and confirms the adhesion strength between the aluminium skin and the core is durable for 20 years.
- Mitsubishi Chemical Infratec, Declaration of ALPOLIC/fr, NC durability for lamination strength (dated 17 January 2024).** This declaration confirms that the adhesion strength between the aluminium skin and core of ALPOLIC®/fr and NC is durable for 20 years.
- ignis labs, Material Fire Test Certificate for Aluminium Skin of Mitsubishi Alpolic, IGNL-4157-01C I01 R01 (dated 4 December 2020).** This certificate provides the results to testing of the Aluminium Skin of Mitsubishi ALPOLIC NC to the requirements of AS1530.1-1994 and determines that the product is NOT deemed Combustible.
- Warringtonfire, A reaction-to-fire test in accordance with AS1530.1-1994 (R2016), Job Number RTF190153 R2.0 (dated 11 July 2019).** This report provides the results of testing Mitsubishi NC Core material, being Aluminium Tri-Hydroxide, Calcium Carbonate and a polymer binder, to the requirements of AS1530.1, and determines that the material was NOT deemed combustible.
- BRANZ, Cone Calorimeter Test Report, Report No. FH12423-002 Issue 1 (dated 9 February 2021).** This test report provides the results of testing of ALPOLIC™ NC in accordance with ISO 5660-1:2002 and determines that the product meets Type A classification complying with the NZBC Acceptable Solution C/AS2 Section 5.8.1 for external wall cladding located less than 1.0m from a relevant boundary.
- BRANZ, Cone Calorimeter Test of Alpolic NC, Report No. FH12423-001 Issue 1 (dated 9 February 2021).** This test report provides the results of testing of ALPOLIC™ NC 4mm thick composite panel in accordance with ISO 5660:2002 (Parts 1 & 2), and determines the Group Number classification according to Verification Method C/VM2 Appendix A to be 1-S.
- Warringtonfire, Classification of Reaction to Fire Performance, Report No. WF 423155, Issue No. 2 (dated 24 February 2020).** This test report provides the results of testing Alpolic™ NC to EN13501-1:2018 and classifies the reaction to fire behavior as A1.
- ALPOLIC™ A1/ ALPOLIC™ NC – Safety Data Sheet (SDS), 1 Dec, 2022.** The SDS identifies no hazardous materials
- Meinhart-Bonacci Consulting Engineers – Alpolic NC, NZBC E2/VM1 compliance (15 October 2020).** The report identifies compliance for ALPOLIC™ NC to E2/VM1 from comparison against test report 15/02 (facadelab – IANZ 9055) to AS/NZS 4284:2008.

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Signatures

Name and Signature of the Product Certification Body's (PCB) authorised representative and, where different, the person assigned by the PCB to make the certification decision.



Calin Moldovean
President, Business Assurance
SAI Global Assurance

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.