

ALICLAD SYSTEM

PURPOSE

The AliClad system is supplied for use as an external cladding system over a drained and ventilated cavity or as a rainscreen.

EXPLANATION

The AliClad system is an extruded aluminium prefinished weatherboard cladding system. The weatherboards are manufactured from 6063-T5 aluminium and powder coated with polyester and epoxy coating to a minimum film finish of 70 microns.

The weatherboards are 2.2 mm thick and available in three profiles:

- V groove (installed horizontally or vertically)
- S groove (installed horizontally or vertically)
- B profiles (installed vertically).

The system incorporates a hidden fixing system and a two-face extruded flashing system.

ALICLAD



For further assistance
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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In wind zones up to and including Extra High as defined in NZS 3604:2011 or a maximum wind design pressure (ULS) of 2.5 kPa.	➤ Where the wind design pressure exceeds 2.5 kPa, specific design and detailing for structure and weathertightness is required.
In all exposure zones as defined in NZS 3604:2011.	➤ Where adverse microclimatic conditions apply (refer to paragraph 4.2.4 of NZS 3604:2011), contact The Building Agency for technical advice.
Any proximity to a relevant boundary.	➤ Where the external wall is within 1 m of the relevant boundary, the specification of the external wall must be in accordance with the BS 8414 and BR 135 tested assembly.
Building	
In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.	
On timber or lightweight steel framing.	➤ A thermal break with an R-value of not less than 0.25 is required where used with lightweight steel framing.
As an external cladding system over a drained and ventilated cavity.	<ul style="list-style-type: none"> ➤ The building must have a risk score of less than or equal to 20 when evaluated against the E2/AS1 risk matrix. Where the risk score exceeds 20, specific design and detailing for structure and weathertightness is required. ➤ The system must be installed with a flexible building wrap or rigid underlay that meets the requirements Table 23 of E2/AS1. ➤ Where the wind zone exceeds very high as defined in NZS 3604:2011 or 1.5 kPa, a rigid underlay must be installed. ➤ The aluminium joinery must comply with NZS 4211. ➤ Where fire-resistance rating (FRR) with respect to a relevant boundary applies, the specification of the external wall must be in accordance with the BS 8414 and BR 135 tested assembly. ➤ Where the building has a building height greater than 10 m and the upper floors contain sleeping uses or other property, the specification of the external wall must be in accordance with the BS 8414 and BR 135 tested assembly.

CONDITIONS OF USE

The AliClad system must be designed and installed in accordance with the 'AliClad Design Guide' and the 'AliClad Installation Guide'.

USEFUL INFORMATION

For design, installation and maintenance information, refer to thebuildingagency.co.nz.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Building Agency requirements, AliClad system will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q), B1.3.4	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Seismic tested in accordance with AS/NZS 4284:2008 to +/-5.5 kPa by IANZ accredited test facility [Façadelab, 20/07/2022]. AliClad structural span analysis [Heco, n.d.].
B2 DURABILITY B2.3.1 (b), B2.3.2	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> System componentry materials in accordance with Table 20 of Acceptable Solution E2/AS1, section 4 NZS 3604:2011, and Table 1 of Acceptable Solution B2/AS1.
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.5, C3.6, C3.7	ACCEPTABLE SOLUTION C/AS1 and C/AS2	<ul style="list-style-type: none"> Tested in accordance with BR 135 and BS 8414, classified as pass [BRANZ, 8/09/2022]. Tested in accordance with ISO 5660-1:2015, achieved material group 1S [AWTA Product Testing, 31/03/2022].
E2 EXTERNAL MOISTURE E2.3.2, E2.3.5, E2.3.7	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Tested in accordance with AS/NZS 4284:2008 by IANZ accredited test facility [Façadelab, 20/07/2022; The Building Agency, 11/08/2022].
F2 HAZARDOUS BUILDING MATERIALS F3.2.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Aluminium is an inert metal. Use in accordance with supplier's safety instructions.

SOURCES OF INFORMATION

- Façadelab. [20/07/2022] *AliClad horizontal and vertical aluminium weatherboard cladding system in accordance with AS/NZS 4284:2008 'Testing of Building Facades'*. Report 22-07a.
- BRANZ. [08/09/2022] *BR 135 Performance*. Reference FF13923-02-1-C1.
- AWTA Product Testing. [31/03/2022] *Test Report*. Test number 22-000683.
- The Building Agency. [11/08/2022] *ALICLAD AS/NZS 4284:2008 – Weathering Test – Annex 1 [1.0]*.
- Heco. [n.d.] *AliClad Span Chart Analysis*. Analysis of AliClad (V200) Wall Cladding (Vertically Installed on Alpharail).



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1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

The Building Agency Ltd confirms that if AliClad system is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue: 13/06/2023

Date of current issue: 24/10/2023

NZBN: 9429042373131

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of The Building Agency Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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