

# ALUCOBOND® PLUS EXTERNAL CLADDING SYSTEM WITH THE HOOK/PIN AND ROUT/RETURN FIXING SYSTEMS

## PURPOSE

The Alucobond® Plus External Cladding System is supplied by The Building Agency Ltd for use as an external cladding system with the Hook/Pin and Rout/Return fixing systems.

## EXPLANATION

Alucobond® Plus panels are aluminium composite panels composed of two 0.5 mm aluminum cover sheets and a low flammability and non-combustible mineral-filled core, resulting in a 4 mm total thickness.

The rear faces of the aluminum sheets are coated with a polyester-based service layer, while the visible exterior surfaces are finished with a continuously coil coated baked enamel coating.

The Alucobond® Plus External Cladding System is installed over a drained and ventilated cavity, with panels fixed using the following fixing systems:

- Hook/Pin - Suspended Cassette
- Rout/Return - Fixed Cassette.

Alucobond® Plus panels are available in a range of colours in the following profiles:

Thickness: 4 mm      Width: 1000,1250,1500,1575 mm.      Length: To order.

Following use as external cladding systems, the aluminium and core material can be recycled.

## SCOPE AND LIMITATIONS OF USE

| Scope                                                                                                                                                                                                                                           | Limitations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location</b><br>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.<br>In all exposure zones as defined in NZS 3604:2011.                                           | ➤ Where microclimatic conditions apply as defined in paragraph 4.2.4 of NZS 3604:2011, contact The Building Agency for advice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Any proximity to a relevant boundary.                                                                                                                                                                                                           | ➤ Where fire code obligations for proximity to the boundary apply, the external wall installation must be in accordance with the NFPA 285 test assembly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Building</b><br>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.<br>On timber or steel framing. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| As an external cladding system over a drained and ventilated cavity.                                                                                                                                                                            | ➤ The system may be installed on building heights up to a design ULS of 2.5 kPa.<br>➤ Installation must be in conjunction with The Building Agency Hook/Pin (Suspended Cassette) and Rout/Return (Fixed Cassette) fixing systems.<br>➤ A rigid air barrier, suitable for use with the Alucobond® Plus External Cladding System, in wind zones of very high and greater as defined in NZS3604:2011, that meets the properties of Table 23 of E2/AS1.<br>➤ The wall assembly must be in accordance with the E2/VM1 test assembly.<br>➤ At building heights where fire code obligations apply, the external wall installation must be subject to specific fire engineering design.<br>➤ Joinery must be in accordance with NZS 4211:2008 or have a current product certificate. |



For further assistance please contact:

- ☎ 09 415 2669
- ✉ [info@buildingagency.co.nz](mailto:info@buildingagency.co.nz)
- 🌐 [thebuildingagency.co.nz](http://thebuildingagency.co.nz)

## USEFUL INFORMATION

For design, installation and maintenance information, refer to [thebuildingagency.co.nz](http://thebuildingagency.co.nz).

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Building Agency requirements, the Alucobond® Plus External Cladding System with the Hook/Pin and Rout/Return fixing systems will comply with or contribute to compliance with the following performance claims:

| NZ Building Code clauses                                      | Compliance statement                | BASIS OF COMPLIANCE Demonstrated by                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B1 STRUCTURE</b><br>B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q) | ALTERNATIVE SOLUTION                | <ul style="list-style-type: none"> <li>Tested in accordance with AS/NZS 4284:2008 to 2.5 kPa by IANZ accredited test facility [FMI Research, 27/07/2012].</li> </ul>                                                                                                                |
| <b>B2 DURABILITY</b><br>B2.3.1 (b)                            | ALTERNATIVE SOLUTION                | <ul style="list-style-type: none"> <li>System componentry materials in accordance with Table 20 of Acceptable Solution E2/AS1, Section 4 of NZS 3604:2011, and Table 1 of Acceptable Solution B2/AS1.</li> <li>EN-AW5005 corrosion resistant alloy [3A Composites, n.d].</li> </ul> |
| <b>C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b><br>C3.5 | ACCEPTABLE SOLUTION C/AS1 and C/AS2 | <ul style="list-style-type: none"> <li>Aluminium is non-combustible.</li> <li>Alucobond® Plus tested to EN 13501-1:2007 [TÜV SÜD PSB, 12/04/2017].</li> </ul>                                                                                                                       |
| <b>E2 EXTERNAL MOISTURE</b><br>E2.3.2, E2.3.3, E2.3.5, E2.3.7 | ALTERNATIVE SOLUTION                | <ul style="list-style-type: none"> <li>Aluminium is impervious to moisture.</li> <li>Tested in accordance with AS/NZS 4284:2008 by accredited test facility [FMI Research Ltd, 27/07/2012]</li> </ul>                                                                               |
| <b>F2 HAZARDOUS BUILDING MATERIALS</b><br>F3.2.1              | ALTERNATIVE SOLUTION                | <ul style="list-style-type: none"> <li>Aluminium is an inert metal and coating system is inert once dry.</li> </ul>                                                                                                                                                                 |

## SOURCES OF INFORMATION

- FMI Research. [27/07/2012] *Test Report No. 12/16*. AS/NZS 4284:2008 Performance tests on Alucobond Fixed Cassette and Suspended Cassette Cladding System.
- TÜV SÜD PSB. [12/04/2017] *Certificate of Conformity*. No. CLS1A 17 11 80739 031.
- 3A Composites. [n.d] *Alucobond®*.

SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

[thebuildingagency.co.nz](http://thebuildingagency.co.nz)



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 Alucobond® Plus External Cladding 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.

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**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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