

INNOCLAD V-JOINT SHIPLAP CLADDING

PURPOSE

The Building Agency supplies InnoClad V-joint Shiplap Cladding for use as a horizontal or vertical external wall cladding.

EXPLANATION

Innoclad V-joint Shiplap weatherboards (weatherboards) are manufactured from a wood plastic composite (WPC) comprised of natural wood waste, PVC, pigments, density modifiers and additives. The weatherboards come with a V-shaped tongue and groove; shadow-line rebated joint. When installed the weatherboards overlap concealing the fixings and locking the weatherboards together.

The weatherboards are available in the following profiles:

- thickness (mm): 25
- width (mm): 136, 200
- length (mm): 5400.

Profiles may be mixed and matched.

At the end of its life, weatherboards are 100% recyclable.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>On all buildings up to extra high wind zone as defined in NZS3604: 2011 or to a maximum calculated design wind pressure (ULS) of 2.5 kPa.</p> <p>In all exposure zones as defined by NZS 3604:2011.</p> <p>On buildings located more than 1 m from the relevant boundary.</p>	<ul style="list-style-type: none"> ➤ All fixings to comply with E2/AS1 (Tables 20 and 21) for the appropriate exposure zone as defined in section 4 of NZS 3604:2011. ➤ For use in microclimatic conditions apply (section 4.2.4, NZS 3604:2011) refer to The Building Agency for technical advice.
<p>Building</p> <p>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.</p> <p>On timber or steel structural framing.</p> <p>Over a drained and ventilated cavity.</p>	<ul style="list-style-type: none"> ➤ A thermal break, with an minimum R-value of 2.0 is required where the weatherboards are used in conjunction with steel framing. ➤ On buildings up to 10 m in building height. ➤ Wall framing tolerances must be in accordance with section 2.2 of NZS 3604:2011 or equivalent. ➤ H3.1 solid timber battens (horizontal installation) or castellated timber battens (vertical installation) must be used. Specified screws must be used (no gun nails are to be used). ➤ A wall underlay must be installed complying with complying with Table 23 and paragraphs 9.1.5 to 9.1.7 of E2/AS1.

CONDITIONS

The specification and installation must be carried out or supervised by a Licensed Building Practitioner (LBP) with the relevant license class and in accordance with:

- InnoClad Weatherboard Cladding System (Vertical) Installation Manual [v1.5 11/2021].
- InnoClad Weatherboard Cladding System (Horizontal) Installation Manual [v1.4 11/2021].
- InnoClad Shiplap Fixing Installation Manual [V1.2 2020].

The aluminium moulds supplied (starter, j-moulds, internal corner and external corner) must be used in the installation.

USEFUL INFORMATION

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

OTHER CERTIFICATIONS AND APPROVALS HELD BY THE MANUFACTURER

Innowood Australia, manufacturer of the InnoClad V-joint Shiplap Cladding, holds the following certifications and memberships:

- The Australasian EPD Programme Limited, Registration S-P-00853 [Innowood, n.d.b].
- Member of Australia Green Building Council.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all The Building Agency requirements, InnoClad V-joint Shiplap Cladding will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (a, b, c, e, h, j, m, q), B1.3.4	VERIFICATION METHOD B1/VM1	<ul style="list-style-type: none"> Span tables in accordance with AS/NZS 1170 [Lautrec Façade Engineers, 20/09/2018]. Assessment to AS/NZS 4266:2004 [University of Sydney, 11/2005]. Wind loadings tested in accordance with AS/NZS 4284:2008 [FaçadeLab, 08/2017].
B2 DURABILITY B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Investigation into new and weathered Innowood [Timbaigl Optics, 05/04/2018]. CSIRO testing of durability for humidity, water and salt water exposure [23/10/2007].
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.5, C3.7	ACCEPTABLE SOLUTION C/AS2 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Achieves Type B performance where fire retardant is specified (by request). Tested to ISO 5660-Part 1:2015(E) by a NATA accredited facility [CSIRO, 27/06/2018]. Tested to EN 13501.1:2007 [SGS, 20/12/2017].
E2 EXTERNAL MOISTURE E2.3.2, E2.3.5, E2.3.7 (a, b, c)	VERIFICATION METHOD E2/VM1 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Tested in accordance with to AS/NZS 4284:2008 and E2/VM1 by FaçadeLab; IANZ accredited [FaçadeLab, 08/2017]. System in keeping with the principles of E2/AS1 for cavity construction, and proximity of cladding elements to the ground.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Use in accordance with supplier's safety information [Innowood, n.d.a]. Low VOC formaldehyde emission [Innowood, n.d.b].

SOURCES OF INFORMATION

- CSIRO. [23/10/2007]. *Evaluation of Composite Timber*. CMMT Report No 2880/R1.
- CSIRO. [27/06/2018]. *ISO 5660-Part 1:2015(E)*. Reaction-to-fire tests. Report FNKI 12180.
- Timbaigl Optics. [05/04/2018] *Observation and Microscopy of New and Weathered Innowood*.
- FaçadeLab. [08/2017]. *Testing of three Innowood cladding systems on cavity in accordance with AS/NZS 4284 (with E2/VM1 and further testing in appendix)*.
- SPS Building. [2017]. *Product Technical Statement Rev 2*.
- University of Sydney Centre for Advanced Structural Engineering. [11/2005]. *Testing of Future Timber Composite – Innowood*. Report no. T637.
- Lautrec Façade Design Engineers. [20/19/2018]. (Span Tables).
- Bureau Veritas. [08/04/2022]. *Product Certificate InnoClad and InnoScreen*. Certificate No: CM70078 Rev2.
- Innowood. [n.d.a]. *Material Safety Data Sheet*. V4.0.
- Innowood. [n.d.b]. *Environmental Product Declaration*.
- SGS. [20/12/2017]. Test report No. AJFS1710009447FF-01.

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™.



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

thebuildingagency.co.nz/products/



The Building Agency Ltd confirms that if InnoClad V-joint Shiplap Cladding 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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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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