

INNOCLAD V-JOINT SHIPLAP CLADDING

PURPOSE

SPS Building Ltd supplies INNOCLAD V-joint Shiplap boards for use as a horizontal or vertical installed 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, INNOCLAD V-joint Shiplap Cladding System weatherboards are 100% recyclable.



For further assistance please contact:

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🌐 www.spsbuilding.co.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>On all buildings up to extra high wind zone as defined in NZS 3604:2011 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 (table 20 and 21) for the appropriate exposure zone as defined in NZS 3604:2011, section 4. ➤ For use in microclimatic considerations (s4.2.4, NZS 3604:2011) refer to SPS Building.
<p>Building</p> <p>On timber or steel structural framing.</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 of any building height. ➤ The spacing between the centres of fixing battens must be no more than 450 mm. ➤ In conjunction with a flexible building wrap or rigid air barrier (depending on location and wind zone) that meets the performance characteristics (as a minimum), that are described in table 23, E2/AS1. ➤ With aluminium joinery that meets NZS 4211:2008 or has a current product certificate (CodeMark). <p>Horizontal fixing:</p> <ul style="list-style-type: none"> ➤ Direct fixed where E2/AS1 risk score <7. ➤ Over ventilated cavity where E2/AS1 risk score is ≥7, but <20. <p>Vertical fixing:</p> <ul style="list-style-type: none"> ➤ Direct fixed where E2/AS1 risk score <13. ➤ Over ventilated cavity where E2/AS1 risk score is ≥13, but <20.
<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>	

USEFUL INFORMATION

For information on the specification, installation and maintenance of the INNOCLAD V-joint Shiplap Cladding System, and for our warranty, refer to www.spsbuilding.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY THE MANUFACTURER

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

- Environmental Product Declaration (EPD) Registered S-P-00853.
- Member of Australia Green Building Council.

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 V-joint Shiplap Fixing Installation Manual Jun 2017-V2.
- The installation of the weatherboards must use the Aluminium moulds (starter, j-moulds, internal & external corner) supplied by SPS Building.

PERFORMANCE CLAIMS

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

NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q) B1.3.4 (b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Innowood Span Tables. ➤ University of Sydney assessment to AS/NZS 4266:2004.
B2 Durability B2.3.1 (b) B2.3.2 (b)	ALTERNATIVE METHOD	<ul style="list-style-type: none"> ➤ Timbaigl Optics Pty Report. <i>Investigation into new and weathered Innowood.</i> ➤ CSIRO Report No. 2880-R1: <i>Evaluation of the performance of Innowood products when exposed to humidity, water and saltwater.</i>
C3 Fire affecting areas beyond the fire source C3.5	VERIFICATION METHOD C/VM2	<ul style="list-style-type: none"> ➤ CSIRO tested to ISO5660. ➤ CSIRO is NATA accredited.
E2 External Moisture E2.3.2, E2.3.3, E2.3.5, E2.3.7 (a, b, c, d)	VERIFICATION METHOD E2/VM1	<ul style="list-style-type: none"> ➤ Façade Lab test to AS/NZS 4284:2008, incl. E2/VM1. ➤ Façade Lab is IANZ accredited.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ INNOCLAD V-joint Shiplap Cladding System does not contain or emit harmful materials.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- AS/NZS 4266:2004. *Reconstituted wood-based panels – Methods of tests.*
- CSIRO. [2007]. *Evaluation of Composite Timber.* CMMT Report No 2880/R1.
- CSIRO. [2018]. ISO 5660-Part 1:2015(E). *Reaction-to-fire tests.* Report FNKI 12180.
- Cobb. W. [2018]. *Innowood Span Table.* Lautrec Façade Design Engineers.
- Dabbs. T. [2018]. *Observation and Microscopy of New and Weathered Innowood.* Timbaigl Optics Pty.
- Façade Lab. [2017]. AS/NZS 4824 (with E2/VM1). *Testing of building facades. Report No 17-11. Testing of three Innowood cladding systems on cavity.*
- SPS Building. [2017]. *Product Technical Statement Rev 2.*
- University of Sydney Centre for Advanced Structural Engineering. [2005]. *Testing of Future Timber Composite – Innowood.* Report no. T637.



VERSION:

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Note: Uncontrolled in printed format.

NAME:

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POSITION:

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DATE:

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Ben Heald

Director

Signed on behalf of SPS Building Ltd.:

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



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