

## 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](http://www.spsbuilding.co.nz)



### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Location</b></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"> <li>➤ All fixings to comply with E2/AS1 (table 20 and 21) for the appropriate exposure zone as defined in NZS 3604:2011, section 4.</li> <li>➤ For use in microclimatic considerations (s4.2.4, NZS 3604:2011) refer to SPS Building.</li> </ul>
<p><b>Building</b></p> <p>On timber or steel structural framing.</p>	<ul style="list-style-type: none"> <li>➤ A thermal break, with an minimum R-value of 2.0, is required where the weatherboards are used in conjunction with steel framing.</li> <li>➤ On buildings of any building height.</li> <li>➤ The spacing between the centres of fixing battens must be no more than 450 mm.</li> <li>➤ 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.</li> <li>➤ With aluminium joinery that meets NZS 4211:2008 or has a current product certificate (CodeMark).</li> </ul> <p>Horizontal fixing:</p> <ul style="list-style-type: none"> <li>➤ Direct fixed where E2/AS1 risk score &lt;7.</li> <li>➤ Over ventilated cavity where E2/AS1 risk score is ≥7, but &lt;20.</li> </ul> <p>Vertical fixing:</p> <ul style="list-style-type: none"> <li>➤ Direct fixed where E2/AS1 risk score &lt;13.</li> <li>➤ Over ventilated cavity where E2/AS1 risk score is ≥13, but &lt;20.</li> </ul>
<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](http://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 <sup>1</sup>	
	Compliance statement	Demonstrated by
<b>B1 Structure</b> 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"> <li>➤ Innowood Span Tables.</li> <li>➤ University of Sydney assessment to AS/NZS 4266:2004.</li> </ul>
<b>B2 Durability</b> B2.3.1 (b) B2.3.2 (b)	ALTERNATIVE METHOD	<ul style="list-style-type: none"> <li>➤ Timbaigl Optics Pty Report. <i>Investigation into new and weathered Innowood.</i></li> <li>➤ CSIRO Report No. 2880-R1: <i>Evaluation of the performance of Innowood products when exposed to humidity, water and saltwater.</i></li> </ul>
<b>C3 Fire affecting areas beyond the fire source</b> C3.5	VERIFICATION METHOD C/VM2	<ul style="list-style-type: none"> <li>➤ CSIRO tested to ISO5660.</li> <li>➤ CSIRO is NATA accredited.</li> </ul>
<b>E2 External Moisture</b> 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"> <li>➤ Façade Lab test to AS/NZS 4284:2008, incl. E2/VM1.</li> <li>➤ Façade Lab is IANZ accredited.</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ INNOCLAD V-joint Shiplap Cladding System does not contain or emit harmful materials.</li> </ul>

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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