

# MASADA™ D5 BUILDING BOARDS

## PURPOSE

Masada™ supplies D5 Building Boards for use as an external cladding system.

## EXPLANATION

Masada™ D5 Building Boards are lightweight, weather-resistant, uPVC (un-plasticised polyvinyl chloride) boards. They contain no phthalates or BPA. Masada™ D5 Building Boards are interlocking, shiplap profiled boards that are supplied in five colours with the following dimensions:

Board widths (mm) 150, 50

Length (m) 5.8.



For further assistance please contact:

-  0508 62 72 32
-  [info@masada.co.nz](mailto:info@masada.co.nz)
-  [masada.co.nz](http://masada.co.nz)

## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Location</b></p> <p>In wind zones up to and including extra high as defined in NZS 3604:2011 or to a specific design wind pressure (ULS) of 2.1 kPa.</p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>At least 1 m from the relevant boundary.</p>	<p>› Masada™ D5 Building Boards must not be used where microclimatic conditions apply as defined in paragraph 4.2.4 of NZS 3604:0211.</p>
<p><b>Building</b></p> <p>In conjunction with a primary structure that complies with the NZ Building Code or for an existing building, where the designer and/or installer have established that the existing building is suitable for the intended building work.</p> <p>On timber or lightweight steel framing.</p> <p>As an external cladding system.</p>	<p>› A thermal break must be installed if the framing is lightweight steel.</p> <p>› Masada™ D5 Building Boards may be direct fixed up to a risk score of 12 when evaluated against the E2/AS1 risk matrix.</p> <p>› Masada™ D5 Building Boards must be installed over a drained and ventilated cavity when the risk score is greater than 12 when evaluated against the E2/AS1 risk matrix.</p> <p>› Where Masada™ D5 Building Boards are direct fixed to the framing, a vapour permeable building wrap must be used.</p> <p>› Where Masada™ D5 Building Boards are installed over a drained and ventilated cavity, a building wrap must be used that complies with Table C.2.1.1 of E2/AS1 or that has a current Product Certificate with all conditions met by the design and application.</p> <p>› With Fosroc Silaflex MS or Holdfast Fix All 220 LM sealants.</p> <p>› With aluminium joinery that complies with NZS 4211:2008 or that has a current Product Certificate, or with specifically designed timber joinery.</p>

## CONDITIONS OF USE

Masada™ D5 Building Boards must be installed in accordance with all Masada™ installation requirements.

## USEFUL INFORMATION

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

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Masada™ requirements, Masada™ D5 Building Boards 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> B1.3.1, B1.3.2, B1.3.3 (a, c, e, h, l, j), B1.3.4	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>▶ Tested in accordance with AS/NZS 4284:2008 and additional E2/VM1 (Amendment 5) to ULS 2.1 kPa.</li> <li>▶ Impact resistance tested to ASTM D-3029 procedure B, 12.2 joules [Envorinex, n.d.].</li> </ul>
<b>B2 DURABILITY</b> B2.3.1 (b), B2.3.2	VERIFICATION METHOD B2/VM1	<ul style="list-style-type: none"> <li>▶ Exposure tested by NATA accredited Allunga Outdoor Exposure Laboratory for 26 years to AS 1580.481.0:2003 (R2013) [Envorinex, n.d.].</li> <li>▶ Does not support mould growth, tested to AS 1157.1:1972 and .2:1978 [Envorinex, n.d.].</li> </ul>
<b>E2 EXTERNAL MOISTURE</b> E2.3.2, E2.3.3, E2.3.5, E2.3.7	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>▶ Tested in accordance with AS/NZS 4284:2008 and additional E2/VM1 (Amendment 5), includes internal and external corners, butt joint, window penetration, apron flashing, pipe penetration by an accredited test facility. Passed static and cyclic pressure and wet wall tests [façadelab, 15/09/2014].</li> <li>▶ Comparable with E2/AS1 weatherboard cladding system as material and installation details are in keeping with E2/AS1 [TBB, 03/2023].</li> </ul>
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>▶ Product is inert and does not emit harmful materials.</li> </ul>

## SOURCES OF INFORMATION

- ▶ Envorinex. [n.d.]. *Masada™ D5 Building Board Wall Cladding System.*
- ▶ Façadelab. [15/09/2014] *Performance tests of Masada Twinwall uPVC horizontal weatherboard cladding system in accordance New Zealand Building Code E2/VM1:2011.* Test Report No. 14/07.
- ▶ TBB. [03/2023] *Evaluation of Masada™ D5 Weatherboards with Clause E2 of the Building Code.*

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

[masada.co.nz/page/for-builders](https://masada.co.nz/page/for-builders)



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™.

Roly Bolton Ltd (Masada™) confirms that if Masada™ D5 Building Boards 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:** 01/03/2017

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**NZBN:** 9429035228219

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Roly Bolton Ltd (Masada™) 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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