

# MASADA™ D5 BUILDING BOARDS

## PURPOSE

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

## MASADA™ D5 BUILDING BOARDS EXPLAINED

D5 Building Boards are lightweight, weather-resistant, uPVC (un-plasticised polyvinyl chloride<sup>1</sup>) boards. They contain no phthalates or BPA. D5 Building Boards are interlocking, shiplap profiled boards that are supplied in 5 colours with the following dimensions:

Board widths (mm) 150, 50

Length (m) 5.8

## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In wind zones up to and including extra high as defined in NZS3604:2011 table 5.4 or up to a specific design wind pressure (ULS) of 2.5kPa. In all corrosion zones as defined in NZS 3604:2011.	› Excludes Micro climates as defined NZS3604:2011 (clause 4.2.4)
<b>Building</b> On steel or timber framed buildings. On new and existing buildings.	› For new buildings, the structure must be designed to comply with the Building Code. › For existing buildings, the designer and installer must have assured themselves that the existing building is suitable for the intended building work.
In conjunction with aluminium or timber joinery.	› Aluminium joinery must comply with NZS 4211:2008 or have a current Product Certificate. › Specific weathertight design is required for timber joinery.
Direct fixed or fixed over a cavity in accordance with table 3, E2/AS1.	› Where D5 Building Boards are direct fixed to the framing, a vapour permeable building wrap must be used. › Where D5 Building Boards are installed over a cavity, a building wrap from Table 23 of E2/AS1 or with a current Product Certificate may be used.
On buildings at least 1 m from the relevant boundary. On buildings of any building height.	› Buildings above 10 m in building height must be specifically designed to take account of the requirements of Building Code Clauses C2-C6.
With the following sealants: › Fosroc Silaflex MS › Holdfast Fix All 220 LM.	

<sup>1</sup> Also known as rigid PVC

## D5 BUILDING BOARD



For further assistance please contact:

☎ 0508 MASADA

✉ info@masada.co.nz

🌐 www.masada.co.nz



## USEFUL INFORMATION

For information on the design, installation and maintenance of D5 Building Boards, and for our warranty, refer to [www.masada.co.nz](http://www.masada.co.nz).

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all of Roly Bolton Ltd requirements, the D5 Building Boards will comply with or contribute to compliance with the following performance claims.

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a, c, e, h, i, j), B1.3.4 (a, b, c, d, e)	VERIFICATION METHOD B1/VM1 AS/NZS 1170:2002 SET	<ul style="list-style-type: none"> <li>› AS 1170.2 (Wind loading) – James Cook University tested to static design pressure 3.2 kPa.</li> <li>› Impact resistance tested by James Cook University to AS/NZS 4256, achieving adequate impact resistance (5.72 kPa).</li> <li>› James Cook University is NATA accredited.</li> <li>› AS 1170.2 (Wind loading) – Darwin Cyclone Area test, which is relevant as the Northern Territory have comparable wind zones to NZ.</li> </ul>
<b>B2 Durability</b> B2.3.1 (b), B2.3.2 (b)	VERIFICATION METHOD B2/VM1: CLAUSE 1.2 VERIFICATION THROUGH LABORATORY TESTING.	<ul style="list-style-type: none"> <li>› UV exposure tested for 26 years to AS 1580.481.</li> <li>› Tested by Allunga Outdoor Exposure Laboratory (reports dated 5/9/2008 &amp; 31/10/2008) (Queensland)</li> <li>› Allunga Outdoor Exposure Laboratory is NATA accredited.</li> </ul>
<b>E2 External Moisture</b> E2.3.2, E2.3.3, E2.3.5, E2.3.7	VERIFICATION METHOD E2/VM1 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>› Façade Lab testing carried out in accordance with AS/NZS 4284. Test report concludes product meets E2/VM1 requirements. Test report no. 14/07 dated 27/08/2014</li> <li>› Façade Lab is IANZ accredited.</li> <li>› Performance comparable with E2/AS1 weatherboard cladding system as installation details in keeping with E2/AS1 details.</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>› Materials used in manufacturing do not contain or emit harmful materials, if handled in accordance with the Safety Data Sheet.</li> </ul>

## SOURCES OF INFORMATION

The following information was relied upon to prepare this pass:

- › Facadelab Test Report No 14/07, 15/9/2014
- › Allunga Exposure Laboratory Report 26/09/2008
- › Darwin Cyclone Area Test Certificate M/211/1
- › Best Practice Guidelines for PVC in the Built Environment, 2011
- › AS/NZS 1170.2:2011 *Wind Actions*
- › NZS 3604:2011 *Timber-framed buildings*
- › E2/VM1 (3rd edition) Amended Sept 2004
- › NZS 4284:2008 *Testing of Building Facades*
- › Net Balance Management Group Pty Ltd, Certificate of Compliance to the Best Practice Guidelines for PVC in the Built Environment, 14/6/2013

SCAN OR CLICK THIS QR CODE FOR A FULL DOWNLOAD OF COMPLIANCE DOCUMENTATION FOR THIS PASS™.

[www.masada.co.nz/page/for-builders](http://www.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 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™.

Roly Bolton Ltd confirms that if Masada D5 Building Boards are 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 s14 G of the Building Act.

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*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of Roly Bolton Ltd and 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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