

# saveBOARD INTERNAL LINING AND WALL BRACING

## PURPOSE

Upcycled Building Materials Limited manufacture and supply saveBOARD building products for use as an internal wall and ceiling lining. It is also intended for use as a ceiling diaphragm and to provide wall bracing.

## EXPLANATION

saveBOARD is a structural composite panel manufactured from shredded and compressed composite packaging. The panels are supplied in two face finishes, paper-faced and exposed. The paper-faced panel has a recycled paper on the finished face while the exposed has a clear LDPE plastic transparent film on the finished face.

Both boards are 1200 mm in width and supplied in two thicknesses: 10 mm and 12 mm, and three lengths: 2400, 2700, 3000 mm. The paper-faced panel may be painted, wallpapered, or be used as a tile substrate; as for plasterboard. The exposed panel is designed to be left in its natural state and requires no other finishing.

saveBOARD is manufactured from 100% recycled materials diverted from landfill, and all offcuts and waste may be reused as feedstock for new product.



For further assistance please contact:

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## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In wind zones up to and including extra high as defined in NZS 3604:2011. In earthquake zones as defined in NZS 3604:2011.	
<b>Building</b> In conjunction with timber or lightweight steel framing that complies with the NZ Building Code or where the designer and/or installer have established that the existing framing is suitable for the intended building work.	
On timber or lightweight steel framing.	<ul style="list-style-type: none"> <li>➤ Where installed over steel framing, a thermal break is required.</li> </ul>
As an internal wall and partition lining.	<ul style="list-style-type: none"> <li>➤ Where paper-faced panels are installed in a wet area, a protective coating must be applied.</li> <li>➤ saveBOARD should only be used where material group number 3 applies.</li> </ul>
As a wall bracing element.	<ul style="list-style-type: none"> <li>➤ Installation must be in accordance with Scion P21 test assembly and Upcycled Building Materials Limited installation requirements.</li> <li>➤ saveBOARD 10 mm must be used.</li> </ul>

## CONDITIONS OF USE

Upcycled Building Materials Limited do not allow any substitution of the assembly or assembly components where saveBOARD Paperfaced or Exposed has been designed and specified.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Upcycled Building Materials Limited requirements, the saveBOARD 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>	VERIFICATION METHOD	<ul style="list-style-type: none"> <li>➤ P21 wall bracing [Scion: 18/09/2020a, 18/09/2020b].</li> <li>➤ TBB product performance evaluation for use as an internal lining or bracing element [TBB, 11/2021].</li> </ul>
B1.3.1, B1.3.2, B1.3.3 (a, b, c, e, f, i, j, l, m, o, r)	and	
B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Bending stiffness and strength test to AS/NZS 2269.1:2012 [Scion, 08/2021].</li> </ul>

## USEFUL INFORMATION

For information on the design, installation and maintenance of saveBOARD and for our warranty refer to [www.saveboard.nz](http://www.saveboard.nz).

NZ Building Code clauses		BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by	
		<ul style="list-style-type: none"> <li>› Compression indentation testing to ASTM D2394-83 [Intertek, 26/11/2013].</li> <li>› Testing to ASTM E2126 and CUREE protocol and ASTM D3043 for performance under lateral load, lateral shear load and centre point flexure load to determine bending stiffness, flexural modulus and rupture modulus [DrJ, 18/12/2013].</li> <li>› Flexural capacity (three point bending) evaluation to ASTM D3043 [Auckland UniServices Ltd, n.d.].</li> </ul>	
<b>B2 DURABILITY</b> B2.3.1 (a), B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>› TBB product performance evaluation for use as an internal lining or bracing element [TBB, 11/2021].</li> <li>› Water vapour transmission and permeance tested to E96-16 [Intertek, 30/05/2018].</li> <li>› Tested to ASTM D2373-12 for resistance to growth of mould [Intertek, 29/07/2013].</li> </ul>	
<b>E3 INTERNAL MOISTURE</b> E3.3.1, E3.3.4, E3.3.5	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> <li>› Water vapour transmission and permeance tested to E96-16 [Intertek, 30/05/2018].</li> <li>› TBB product performance evaluation for use as an internal lining or bracing element [TBB, 11/2021].</li> <li>› Tested to ASTM D2373-12 for resistance to growth of mould [Intertek, 29/07/2013].</li> <li>› Sustainable Engineering ASHRAE 160P Hygrothermal modelling / mould growth (Sept 2020).</li> </ul>	
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>› VOC and formaldehyde testing to ASTM D5116:2017 [CETEC: 26/08/2021a, 26/08/2021b].</li> <li>› TBB product performance evaluation for use as an internal lining or bracing element [TBB, 11/2021].</li> </ul>	
<b>H1 ENERGY EFFICIENCY</b> H1.3.1	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> <li>› Thermal conductivity tested to ASTM C518 [Intertek, 02/2012].</li> </ul>	

## SOURCES OF INFORMATION

- › Auckland UniServices Ltd. [n.d.] *Evaluation of the flexural capacity of ReWall products* (three point bending).
- › CETEC. [26/08/2021a] *ASTM D5116-2017 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products*. VOC Emission Test Certificate.
- › CETEC. [26/08/2021b] *ASTM D5116-2017 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products*. VOC Emission Test Certificate.
- › DrJ. [18/12/2013] *Technical Evaluation Report*. TER No. 1202-02.
- › Intertek. [29/07/2013] *Test Report*. Report number 101207581COL-001.
- › Intertek. [26/11/2013] *Test Report*. Report number 101416039MID-001.
- › Intertek. [30/05/2018] *Test Report. Testing Halfback Roofing Board to Evaluate Water Vapour Transmission and Permeance in accordance with ASTM E96-16 (Procedure B)*. Document control no. ATI 00231.
- › Scion. [18/09/2020a] *P21:2010 1200mm x 2.4m 10mm Saveboard with brackets (single wall)*.
- › Scion. [18/09/2020b] *P21:2010 1200mm x 2.4m 10mm Saveboard without brackets*.
- › Scion. [08/2021] *Bending stiffness and strength tests on 12mm saveBOARD*.
- › Scion. [28/09/2021] *Screw head pull through Testing TE21-007 on 12mm saveBOARD*.

- › TBB. [11/2021] *Product Performance Evaluation of saveBOARD where used as an internal lining or bracing element*.



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[www.saveboard.nz](http://www.saveboard.nz)



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.

Upcycled Building Materials Limited confirms that if saveBOARD is used in accordance with the requirements of this pass™ the product will comply with the 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.

**Date of first issue:**

**Date of current issue:**

**NZBN:**

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the Upcycled Building Materials Limited 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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VERSION:

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