



Paperfaced



save
B O A R D

Issued: June 2023

saveBOARD Paperfaced

What is saveBOARD?

saveBOARD Paperfaced internal lining is a unique structural composite panel made from 100% upcycled materials.

The core of the product is made from shredded and compressed composite packaging, giving the user a sustainable and superior performing product.

saveBOARD does not use glues, resins or other such biological or environmentally harmful products. During construction, or in-service use saveBOARD does not create harmful dusts, vapours, or other potentially harmful Volatile Organic Compounds (VOC's) .

The saveBOARD construction boards are semi-vapour permeable, durable wall and roofing products. The product is designed for use with timber or steel framing and is finished with a recycled facing paper on the top surface and a recycled facing paper on the bottom surface.

Using saveBOARD reduces embodied energy by -2.7 kgCO₂ eq/sqm. This is a significant climate change benefit compared to traditional building materials which add carbon to a building.

saveBOARD Paperfaced internal lining is manufactured in New Zealand for exclusive use in New Zealand & Australia in 2022. Please refer to the saveBOARD Paperfaced internal lining Technical Statement for compliance with relevant performance clauses of New Zealand & Australian Building Codes / Permits.

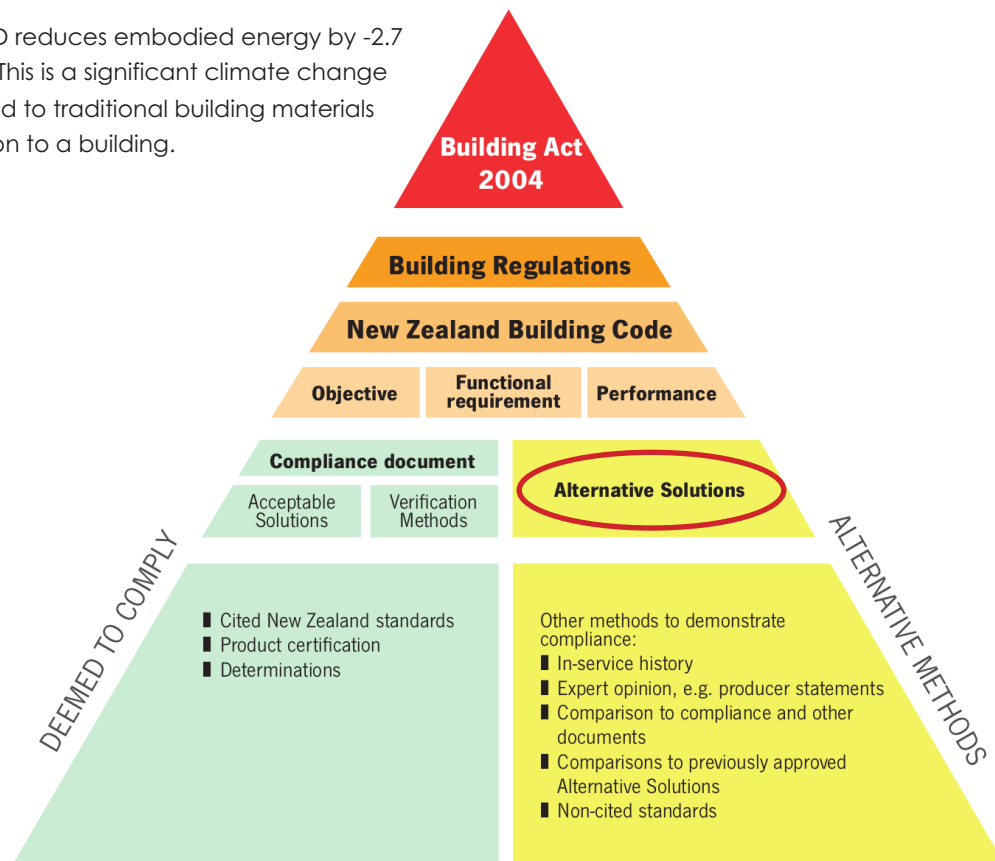
saveBOARD Paperfaced internal lining may be overlaid on self-supporting product/structure and can be used for the verified specified uses.

What is saveBOARD's scope of use?

saveBOARD Paperfaced internal lining fit for use in NZ by an Engineering Statement for NZBC compliance including specific Structural testing by Scion laboratories.

How does saveBOARD demonstrate compliance with NZBC?

saveBOARD Paperfaced internal lining is as an **Alternative Solution Product**. saveBOARD is also 1 of 5 approved Plasterboard substitution options as provide by MBIE guidance.



Primary NZ Compliance Evidence

NZBC Compliance Appraisal – Compliance Statements (NZ)

- saveBOARD Paperfaced internal lining is supported by a Compliance Statement.

Please refer to the saveBOARD technical support literature, NZBC Compliance Appraisals and product test information available on the saveBOARD website.

NZ - Expert Analysis and Testing – July 2021 – Still Current

- saveBOARD has been independently appraised against NZBC compliance.
- saveBOARD has been independently tested by a leading NZ recognised research Laboratories - SCION.

Support Compliance Evidence

In-service History

- The saveBOARD product has been successfully used in the US for over 12 years.

US - Expert Analysis and Testing 2015 – Current

- saveBOARD has been independently tested and verified to internationally recognised standards by accredited testing laboratories in the US.
- saveBOARD has achieved compliance with the International Building Code for use in the US as an internal wall and ceiling lining.

NZ - MBIE Substitution Plasterboard – Current

- saveBOARD is 1 of 5 approved plasterboard substitution options as per MBIE guidance.
- <https://www.building.govt.nz/assets/Uploads/building-code-compliance/certifications-programmes/product-assurance/product-substitution-plasterboard-guidance.pdf>

NZBC Compliance Appraisal Notes

An NZBC Compliance Appraisal is a technical opinion of a building product or system's fitness for purpose. It involves extensive testing and verification of Building Code compliance and is done by an independent appraisal organisation. (Such as Chartered Engineer or Accredited Testing Laboratory).

An appraisal looks at any specific installation systems or processes. It recognises limitation on a product's intended scope of use.

Appraisals have no legal standing. However, they can form a useful part of your evidence of compliance.

Products are assessed against a wide range of performance factors. These include:

- the requirements of the Building Code
- performance under test conditions
- in-service performance
- accuracy of the product's technical information
- manufacturing procedures and quality control systems.

Appraisal organisations

An appraisal organisation should be independent of the product's manufacturer or distributor.

It should have:

- thorough and validated testing procedures (for example, its processes are reviewed by a third party)
- suitably qualified staff (such as engineers and research scientists).

The organisation should also carry out or require:

- regular inspections to ensure the product conforms during manufacture
- regular inspections to ensure the product conforms when in use
- knowledge of the Building Code and building science.

You can use an appraisal organisation from outside New Zealand. However, the product needs to be assessed against the New Zealand Building Code.

Ref - <https://www.building.govt.nz/building-code-compliance/product-assurance-and-multiproof/product-assurance/your-product-and-the-law/>

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:



paul@saveboard.nz

www.saveboard.nz

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including extra high as defined in NZS 3604:2011. In earthquake zones as defined in NZS 3604:2011.	
Building 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"> Where installed over steel framing, a thermal break is required.
As an internal wall and partition lining.	<ul style="list-style-type: none"> Where paper-faced panels are installed in a wet area, a protective coating must be applied. saveBOARD should only be used where material group number 3 applies.
As a wall bracing element.	<ul style="list-style-type: none"> Installation must be in accordance with Scion P21 test assembly and Upcycled Building Materials Limited installation requirements. saveBOARD 10 mm must be used.

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
B1 STRUCTURE	VERIFICATION METHOD	<ul style="list-style-type: none"> P21 wall bracing [Scion: 18/09/2020a, 18/09/2020b]. TBB product performance evaluation for use as an internal lining or bracing element [TBB, 11/2021].
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"> Bending stiffness and strength test to AS/NZS 2269.1:2012 [Scion, 08/2021].

USEFUL INFORMATION

For information on the design, installation and maintenance of saveBOARD and for our warranty refer to www.saveboard.nz.

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

SOURCES OF INFORMATION

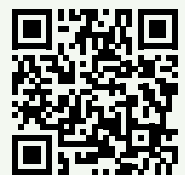
- › Auckland UniServices Ltd. [n.d.] *Evaluation of the flexural capacity of ReWall products* (three point bending).
- › CETEC. [26/08/2021a] *ASTM D5116-2017 Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Material/Products*. VOC Emission Test Certificate.
- › 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*.



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

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.

9606D66ADE51EA6CCC25850D00239F99

30 Sunshine Ave, Te Rapa, Hamilton 3200 › paul@saveboard.nz ›

› www.saveboard.nz

Copyright © 2017, The Building Business Limited (TBB). All rights reserved.

VERSION:

Uncontrolled in printed format