

PRODUCT TECHNICAL STATEMENT

saveBOARD – Paperfaced Version V1:1 October 2023

Product Description

saveBOARD Paperfaced is a unique structural composite panel made from 100% recycled materials.

The core of the product is made from shredded and compressed composite packaging.

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 dust, vapours, or other potentially harmful Volatile Organic Compounds (VOC's).

Paperfaced is designed for use with timber or steel framing and is finished with a recycled paper face and back.

Paperfaced is manufactured in New Zealand for exclusive use in New Zealand & Australia. Please refer to the saveBOARD Product Assurance Supplier Statement for compliance with relevant performance

Scope of Use

As an internal wall lining or partition or a ceiling lining.

As a wall bracing element.

As a ceiling diaphragm constructed in accordance with section 13.5 of NZS 3604:20

On timber or steel framing.

In wind zones up to and including Extra High as defined in NZS 3604:2011.

In earthquake zones as defined in NZS 3604:2011.

Where Materials Group 3 is required.

Limitations

Not suitable for wet areas.

Do not use in exterior applications.

Check compatibility with the manufacturer of any glues, resins sealants or building wraps to be used in conjunction with Paperfaced.

Compliance with the New Zealand Building Code

Paperfaced is an MBIE Approved Substitution for Plasterboard

Paperfaced specified as an internal wall lining or ceiling lining and installed in accordance with Paperfaced Installation Guide, contributes to meeting the following provisions of the NZ Building Code:

B1 Structure **Clause B1 Structure:** B1.3.1, B1.3.2, B1.3.3 (a, b, c, e, f, i, j, l, m, o, r) B1.3.4 (a, b, c, d, e)

saveBOARD Paperfaced has demonstrated appropriate structural properties and has been assessed as an: ALTERNATIVE SOLUTION.

Please refer to www.saveBOARD.nz for current test certification.

B2 Durability **Clause B2 Durability:** B2.3.1 (a), B2.3.2 (a)

saveBOARD Paperfaced has been assessed as an: ALTERNATIVE SOLUTION. If Paperfaced is appropriately stored and used in accordance with good building practices and the Paperfaced Installation Guide, it will comply with the requirements of the NZBC B2.

Paperfaced achieves NZBC B2 Durability requirements as part of a combined system reliant upon other building products.

C3 Fire affecting areas beyond the fire source **Clause C3 Fire: C3.4(a)**

saveBOARD Paperfaced is manufactured to meet the requirements of the NZBC Clause C3.4 for use in buildings where material Group 3 or less applies

Clause C3 Fire - Spread of flame Group Number

saveBOARD Paperfaced has been tested and under AS5637.1 is determined to be a Material Group Number 3. Paperfaced cannot be used when Clause C3.4(a) of the Building Code requires a surface finish material of less than material Group 3.

F2 Hazardous Building Materials **Clause F2 Hazardous Building Materials: F2.3.1**

saveBOARD Paperfaced meets the requirement of NZBC F2 and the performance requirement of F2.3.1.

No harmful chemical treatment is used in the manufacturing process.

It does not present a health hazard to people (during construction and building use).

No harmful dust or gases are released.

E3 External Moisture **Clause E3.3.1, E3.3.4, E3.3.5**

saveBOARD Paperfaced has been assessed as an: ACCEPTABLE SOLUTION E2/AS1 TABLE 23

Please refer to www.saveBOARD.nz for current test certification.

saveBOARD Properties		
Thickness	10mm	12mm
Width, Standard	1200mm	1200mm
Length, Standard	2400mm (Up to 3000mm)	2400mm (Up to 3000mm)
Pieces Per Pallet	35	35
Weight, Nominal kg/m ³	750	750
Weight, Nominal kg/m ²	7.5	9
Fire Group Number – AS3837	3	
Mould Resistance – ASTM D3273	10	
VOC Emissions - ASTM D5116	<0.003 mg/m ² /hr	
Formaldehyde Emission ASTM D5116	<0.013 mg/m ² /hr	
Permeability – ASTM E96	12.5 (semi vapour permeable)	

Panel Sizes

2400 mm x 1200 mm x 10 mm (+/-1mm) weight 21.6kg (+/- 10%)

2400 mm x 1200 mm x 12 mm (+/-1mm) weight 25.9kg (+/- 10%)

2700 mm x 1200 mm x 10 mm (+/-1mm) weight 24.3 kg (+/- 10%)

2700 mm x 1200 mm x 12 mm (+/-1mm) weight 29.2kg (+/- 10%)

3000 mm x 1200 mm x 10 mm (+/-1mm) weight 27.0kg (+/- 10%)

3000 mm x 1200 mm x 12 mm (+/-1mm) weight 32.4kg (+/- 10%)

Custom, cut to length is available between 2400 – 3000mm

Quality Assurance

saveBOARD's Quality Assurance process and records are independently audited by a third-party product appraisal organisation.

The Third-party organisation have demonstrated/accredited knowledge of the Building Code and building science, and carry out appropriate sample analysis and reporting on;

- Regular inspections, testing and monitoring of properties to ensure the product conforms during manufacturing.
- Periodic inspections, observations to ensure the product continues to meet the performance requirements when in use.

Not Perfect

saveBOARD products are made from 100% recycled waste and as such are not perfect. The dimensional tolerance is + / - 1mm and the weight + / - 10%/sheet.

The surface of Paperfaced may have veins or press marks, the paper may have creases and some air bubbles may be evident. Instructions on how to address these characteristics can be found online [Not Perfect | saveBOARD – Sustainable Building Materials](#) or in the Install Guide

These are standard characteristics of a saveBOARD product.

Sustainability

All saveBOARD product is manufactured in New Zealand or Australia from 100% locally sourced and recycled composite packaging and soft plastics.

Every panel of Paperfaced will divert approximately 25kgs of waste from landfill

No water, glues, resins or additives are used in the production process.

The embodied carbon (calculated Cradle to Gate) of Paperfaced is 0.85Mj/kg, 0.11kgCO₂/kg material

Circular Economy – site waste, or customer waste can be used to manufacture the panels to be used in the build

Paperfaced has a DECLARE label and is deemed suitable for use in Living Building Challenge

VOC and formaldehyde free. No toxic or harmful dust or vapours are created during installation of saveBOARD products

saveBOARD is a member of the NZGBC

saveBOARD has Environmental Choice New Zealand certification

Green Star credits can available with the use of saveBOARD products

Product Stewart Program- site off cuts can be returned to saveBOARD to be reused in the manufacture of new product

End of Life - saveBOARD product can be returned at End of Life to be reused in the manufacture of new product