

# MASONS PLASTABRICK UNI® FLEXIBLE AIR BARRIER

## PURPOSE

Masons Plastabrick supplies UNI® Flexible Air Barrier (UNI® FAB) for use as flexible wall underlay that assists in the control of moisture by ensuring moisture, that occasionally penetrates the wall cladding, is directed back to the exterior of the building. During construction UNI® FAB also functions as a temporary cladding.

## EXPLANATION

UNI® FAB is a nonwoven, absorbent, water-resistant 180 GSM, synthetic wall underlay. It comprises three polypropylene layers: two outer layers of non-woven polypropylene with a middle layer of a functional-technical film. It is manufactured to meet the European standard EN 13859.2:2014 as well as the absorbency performance requirement as per NZS 2295:2006.

It is supplied coloured blue with a black underside, unless an alternative colour is requested.

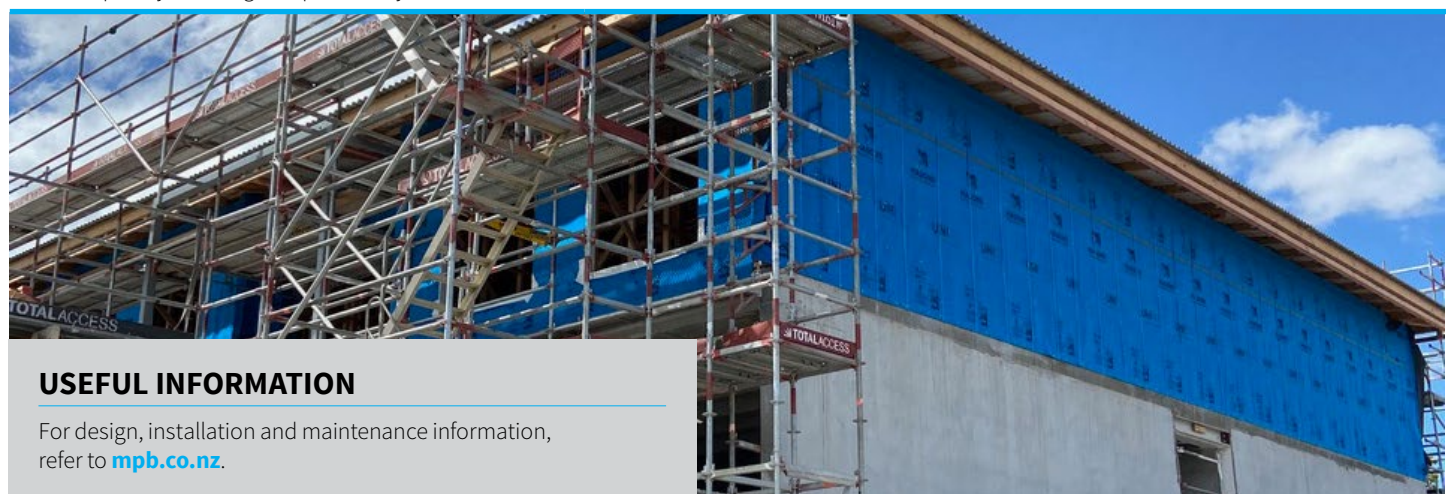


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## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Location</b></p> <p>In locations with a wind design pressure (ULS) of up to and including 4.6 kPa (which includes all NZS 3604:2011 wind zones).</p> <p>In seismic zones up to and including seismic zone 3.</p> <p>In all exposure zones.</p> <p>Further than 1 m from a relevant boundary.</p>	<p>➤ Fixings are to be in accordance with the Masons Plastabrick UNI® FAB fixing chart.</p>
<p><b>Building</b></p> <p>In conjunction with timber or lightweight steel framing.</p> <p>With a primary structure that complies with the relevant provisions of the NZ building code for the site and location or, for existing buildings, where the designer and/or installer have established that it is fit for the intended building work.</p> <p>With buildings of all building heights, up to the permissible wind design pressure of 4.6 kPa.</p> <p>With cladding and joinery that complies with the relevant provisions of the NZ Building Code for the site and location.</p> <p>As a temporary cladding for up to 90 days.</p>	<p>➤ For lightweight steel, a thermal wrap must be installed.</p> <p>➤ Where a building height is greater than 10 m and upper levels contain sleeping uses or other property the external wall must be subject to specific fire engineering.</p> <p>➤ In occupied spaces, UNI® FAB must always be installed in conjunction with an internal lining.</p> <p>➤ UNI® FAB must be covered within 90 days from installation.</p>



## USEFUL INFORMATION

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



## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Masons Plastabrick requirements, UNI® FAB 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, e, f, h, j, m, q, & UV), B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured to EN 13859-2:2014; tested to EN 12311.2:2013 for tensile properties, EN 12310.1:2010 for resistance to tearing, EN 1107.2:2002 for dimensional stability based on supplier's technical data and testing specification [Masons Plastabrick, 30/08/2021b].</li> </ul>
<b>B2 DURABILITY</b> B2.3.1 (a), B2.3.2 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured to EN 13859-2:2014; tested to EN 1297 &amp; EN 1296 for UV exposure and UV exposed samples tested to EN 12311.2:2013 for tensile properties, EN 12310.1:2010 for resistance to tearing, EN 1928.2002 for resistance to water penetration based on supplier's technical data and testing specification [Masons Plastabrick, 30/08/2021b].</li> </ul>
<b>C2 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b> C3.4 (c)	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> <li>UNI® FAB has a flammability index of 9. [NZWTA, 29/09/2021].</li> </ul>
<b>E2 EXTERNAL MOISTURE</b> E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured to EN 13859-2:2014; tested to EN 1928:2002 for resistance to water penetration, EN ISO 12572:2004 for water vapour transmission properties, EN 12114 for air resistance based on supplier's technical data and testing specification [Masons Plastabrick, 30/08/2021b].</li> <li>Tested to AS/NZS 4201: Part 6 for absorbency [Scion, 02/2020].</li> <li>Installation details and requirements meet E2/AS1, E2/AS4.</li> </ul>
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured to EN 13859-2:2014; product does not emit harmful materials based on supplier's technical data and testing specification and material safety information [Masons Plastabrick, 30/08/2021a, 30/08/2021b].</li> </ul>

## SOURCES OF INFORMATION

- Masons Plastabrick. [30/08/2021a]. *UNI® Material Data Safety Sheet.*
- Masons Plastabrick. [30/08/2021b]. *UNI® Technical Data Sheet & Testing Specification.*
- Scion. [02/2020]. *Evaluation of UNI FR FAB to NZS 2295.* Task code/QT number: J31989/QT8080A.
- The Building Business Ltd. [20/08/2021]. *Comparison of EN 13859-2:2014 Flexible sheets for waterproofing – Definitions and characteristics of underlays and NZS 2295:2006 Pliable, permeable building underlays.*
- NZWTA [29/09/2021]. *AS 1530.2-1993 - Methods for Fire Tests on Building Materials, Components and Structures. Part 2 Test for Flammability of Materials.* Report no. 1389479.5
- Scion [10/2021]. *Surface Water Absorbency of UNI Flexible Air Barrier.* Report no. J48921/QT9493.

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

[mpb.co.nz](http://mpb.co.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. 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™.

Masons Plastabrick Ltd confirms that if UNI® Flexible Air Barrier 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:** 27/08/2021

**Date of current issue:** 10/11/2023

**NZBN:** 9429031171090

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Masons Plastabrick Ltd 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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