

## MASONS UNI® PLUS FLEXIBLE AIR BARRIER

### PURPOSE

Masons NZ Ltd supplies UNI® Plus Flexible Air Barrier (UNI® Plus) for use as fire retardant flexible wall underlay that assists in the control of moisture by ensuring moisture, which occasionally penetrates the wall cladding, does not penetrate into the wall cavity and is diverted to the back of the cladding as well as being shed via the cavity. During construction UNI® Plus also functions as a temporary weather protection allowing internal works to continue without the cladding in place for up to 90 days.

### EXPLANATION

UNI® Plus is a non-woven, absorbent, vapour-permeable, water-resistant, fire-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 meets New Zealand Standard NZS 2295:2006 characteristics as stated in Table 23 of Acceptable Solution E2/AS1. It is supplied in 2.74 m x 18.25 m (50 m<sup>2</sup>) and 1.5 m x 33.3 m (50 m<sup>2</sup>) rolls coloured blue with a white underside unless an alternative colour is requested.



For further assistance please contact:

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-  [mpb.co.nz](http://mpb.co.nz)

### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In wind zones up to and including Extra High as defined by NZS 3604:2011 or to a wind design pressure (ULS) of 2.1 kPa. Further than 1 m from a relevant boundary.	> Fixings are to be in accordance with the Masons UNI® Plus fixing chart. > In a Very High wind zone, UNI fasteners must be used. > In an Extra High wind zone, battens over the Masons UNI® Plus must be installed.
<b>Building</b> In conjunction with timber or lightweight steel framing. With cladding and joinery that complies with the relevant provisions of the NZ Building Code for the site and location.	> For use with lightweight steel, a thermal break must be installed. > The cladding system may be <ul style="list-style-type: none"> <li>• direct fixed, or</li> <li>• installed over an 18 mm drained cavity, or</li> <li>• installed over masonry veneer that meets the requirements of E2/AS1 or has been specifically designed.</li> </ul> > UNI® Plus must be covered within 90 days of installation.

### CONDITIONS OF USE

UNI® Plus must be installed in accordance with Masons UNI® Plus Flexible Air Barrier Design and Installation Guide.

### 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 NZ Ltd requirements, UNI® Plus 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, f, h, j, m, q, & UV), B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	➤ Meets requirements of NZS 2295:2006; tested to ASTM D882 for tensile properties, TAPPI T470 for resistance to tearing. NZS 2295:2006 is referenced in E2/AS1 for flexible underlays [Scion, 01/2022].
<b>B2 DURABILITY</b> B2.3.1 (a), B2.3.2 (b)	ALTERNATIVE SOLUTION	➤ Meets requirements of NZS 2295:2006; tested to ASTM G154 for accelerated UV ageing [Scion, 01/2022].
<b>C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b> C3.4 (c)	ACCEPTABLE SOLUTION	➤ Meets requirements of NZS 2295:2006; flammability index of 1 when tested to AS 1530.2:1993 [NZWTA, 01/06/2021].
<b>E2 EXTERNAL MOISTURE</b> E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION	➤ Meets requirements of NZS 2295:2006; tested to AS/NZS 4201.4 for water penetration, tested to AS/NZS 4201.6 for surface water absorbency, tested to ASTM E96 Procedure B for Water vapour resistance [Scion, 01/2022]. ➤ Installation details and requirements in accordance with E2/AS1.
<b>F2 HAZARDOUS BUILDING MATERIALS</b> F2.3.1	ALTERNATIVE SOLUTION	➤ Use in accordance with the supplier's requirements [Masons, 02/2024].

## SOURCES OF INFORMATION

- Scion. [01/2022] *Assessment of SP180 to NZS 2295*. Report no. 45558911.
- NZWTA. [1/06/2021] *AS 1530.2-1993 - Methods for Fire Tests on Building Materials, Components and Structures*. Part 2 Test for Flammability of Materials. Report no. 1374734.0.
- Masons. [02/2024] *Material Safety Data Sheet*. V4.



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 NZ Ltd confirms that if UNI® Plus 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.

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[mpb.co.nz](http://mpb.co.nz)



*Kevin Brunton*

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