

## MASONS BARRICADE WEATHER DEFENSE SYSTEM

### PURPOSE

Masons Plastabrick supplies the Barricade weather defense system for use as a rigid air barrier system that can be used as a bracing element and a fire rated wall system. Masons Barricade weather defense system also provides weather protection allowing internal works to continue without the cladding in place for up to 150 days.

### EXPLANATION

Masons Barricade weather defense system is a rigid air barrier system comprising Masons Barricade weather defense fibre cement sheets, covered in a Masons Barricade WD self-adhesive wrap, installed with timber framing.

Masons Barricade weather defense fibre cement sheets are autoclaved, asbestos free, 6 mm and 9 mm fibre cement board. The sheets are installed as a non-combustible rigid wall underlay in sheet sizes 1200 mm wide and up to 3000 mm in length.

Masons Barricade WD self-adhesive wrap is a heavy-duty, trilaminate non-woven polypropylene wrap coated with polyacrylic pressure-sensitive self-adhesive and backing release film. It is supplied in 50 m<sup>2</sup> rolls (1.46 m x 31.14 m).

The system is designed to provide UV and weather protection and has fire rating and bracing performance attributes when installed in accordance with Masons' installation requirements.



For further assistance please contact:

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### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In wind zones as defined in NZS 3604:2011 or specific design wind pressure of 2.1 kPa. In all corrosion zones as defined in NZS 3604:2011. Any proximity to a relevant boundary.	<ul style="list-style-type: none"> <li>➤ The ULS is limited by the performance of the primary structure, which must be designed for the design wind pressure.</li> <li>➤ Where installed within 1 m of a relevant boundary, the installation must be in accordance with the tested assembly and Masons' installation requirements.</li> <li>➤ Where installed within 1 m of a relevant boundary, the balance of the wall structure must meet the relevant fire-related building code obligations.</li> </ul>
<b>Building</b> On buildings where the primary structure complies with the NZ Building Code or where the designer and installer are satisfied that the existing structure is suitable for the intended building work. In conjunction with a concrete or timber floor and timber wall framing. With cladding and joinery that complies with the relevant provisions of the NZ Building Code for the site and location.	<ul style="list-style-type: none"> <li>➤ Where the Barricade weather defense system is used as a temporary cladding all sheets must be fastened in accordance with Scion P21 test assembly to resist the design wind pressure.</li> <li>➤ The cladding system may be direct fixed or installed over a drained and ventilated cavity that meets the requirements of E2/AS1 or has been specifically designed.</li> </ul>

### PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Masons Plastabrick requirements, the Barricade weather defense system 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, b, e f, h, j, m, q, uv), B1.3.4 (a, b, c, d, e)	ACCEPTABLE SOLUTION B1/AS1	➤ P21 (2010) tests for bracing capacity as cited in NZS 3604 [Scion, 31/05/2021a, 31/05/2021b, 21/06/2021].

### USEFUL INFORMATION

For information on the design, installation and maintenance of the Masons Barricade weather defense system and for our warranty refer to [www.mpb.co.nz](http://www.mpb.co.nz).

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
<b>B1 Structure (continued)</b>	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Fibre cement board properties [Masons, 04/2022].</li> <li>➤ Tested in accordance with NZS 2295 for edge tear (machine direction), edge tear (cross direction), and Tensile properties. [Scion 09/2021].</li> </ul>
<b>B2 Durability</b> B2.3.1, B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Tested in accordance with NZS 2295: 2006 for resistance to UV exposure, water vapour resistance, absorbency, edge tear (machine direction), edge tear (cross direction), and tensile properties [Scion 09/2021].</li> <li>➤ Analysis shows metrics of relevant EN standards meet the requirements of NZS 2295:2006 including Amendment 1 [The Building Business, 20/08/2021].</li> <li>➤ Fibre cement manufactured to AS/NZS 2908.2, used as a rigid air barrier in accordance with E2/AS1 [Sirim QAS International, 15/09/2021].</li> </ul>
<b>C3 Fire Affecting Areas Beyond the Source</b> C3.5, C3.7	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Tested in accordance with AS 1530.4:2014 by an ILAC MRA and IANZ accredited testing laboratory. Achieves FRR/FRL 30/30/30 [BRANZ, 25/01/22a, 25/01/22b].</li> <li>➤ AS 1530.4-2005 is cited in C/AS2 and C/VM2. The test set up, conditions and criteria are not appreciably different between the cited standard and AS 1530.4:2014, so the solution is considered to be consistent with the requirements of C/AS2 and C/VM2.</li> <li>➤ Tested in accordance with AS1530.2-1993 Test Flammability of materials. Flammability index 2 [Scion 09/2021].</li> <li>➤ Tested in accordance with AS 1530.2-1993 Test Flammability of materials. Flammability index 2 [NZWTA 24/01/2022].</li> </ul>
<b>E2 External moisture</b> E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ACCEPTABLE SOLUTION E2/AS1	<ul style="list-style-type: none"> <li>➤ Tested in accordance with NZS 2295: 2006 for resistance to UV exposure, water vapour resistance, absorbency, edge tear (machine direction), edge tear (cross direction), air resistance and Tensile properties. [Scion 09/2021].</li> <li>➤ Fibre cement manufactured to AS/NZS 2908.2, used as a rigid air barrier in accordance with E2/AS1 [Sirim QAS International, 15/09/2021].</li> <li>➤ Installation details and requirements meet E2/AS1.</li> </ul>
<b>F2 Hazardous building materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Use in accordance with the supplier's use and installation requirements [Masons, 04/2022].</li> <li>➤ Tested in accordance with AS/NZS 1301.421:1998 pH of extract. [Scion 09/2021].</li> </ul>

## SOURCES OF INFORMATION

- BRANZ. [25/01/2022a] *Fire Type Test Report FR14192-001-01.*
- BRANZ. [25/01/2022b] *FR14192-001-01 Type Test Summary.*
- Masons. [04/2022] *Masons Barricade Weather Defense. v1.0.*
- Masons. [04/2022] *Masons Barricade WD self-adhesive wall underlay – weather resistive barrier. V1.0*
- Scion. [31/05/2021a] *P21:2010 fibre cement 400mm walls with brackets.*
- Scion. [31/05/2021b] *P21:2010 fibre cement 600mm walls with brackets.*
- Scion. [21/06/2021] *P21:2010 fibre cement 1200mm walls with brackets.*
- Scion. [02/2022] *Moisture Vapour Properties of Seven Self-adhesive Underlays.* Report No. 45651642.
- Scion. [09/2022] *Testing to NZS2295:2006 Test Report No. 437 43986.*
- 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.*
- Sirim QAS International. [15/09/2021] *Product Certificate License.* License number PCOO1411.

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 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™.
4. Where E2/AS1 is referenced it is to be read as including E2/AS4.



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Mason Plastabrick Ltd confirms that if Masons Barricade weather defense system 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:** 03/05/2022

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**NZBN:** 9429031171090

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of Masons Plasterbrick 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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