

MASONS BARRICADE FR HOUSE WRAP

DESIGN AND INSTALLATION GUIDE



MASONS
Designed Smart, Built Tough.

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General and product information

PURPOSE

This design and installation guide relates to Masons Barricade FR.

IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- › Masons Barricade FR Codemark
- › Masons Barricade FR Warranty
- › Masons Barricade FR Material Safety Data Sheet.

SKILLS REQUIRED

This guide is suitable for use by a competent designer and person with basic carpentry skills. Where applicable the person specifying, supervising or installing the Masons Barricade FR must be able to meet all RBW provisions.

FOR MORE HELP

Technical assistance is available at www.mpb.co.nz.

While all reasonable efforts have been made to ensure the accuracy of information provided, this guide is a guide only. It may be subject to change.

FOR OUR WARRANTY

Refer to www.mpb.co.nz.

PRODUCT DESCRIPTION

Barricade FR is a flammability-rated synthetic breather-type flexible wall underlay and air barrier. It is manufactured from spun-bonded polypropylene and is coloured white and is available in 2.73m, 1.37m and 0.6m wide rolls.

SCOPE AND LIMITATIONS

For scope of use, limitations, conditions and statement of building code compliance, refer to the Masons Barricade FR Codemark.



Design

STEP 1: CONFIRM SCOPE

Confirm the proposed use is within the scope and limitations of the Codemark.

STEP 2: CONFIRM RELATED BUILDING WORK

Masons Barricade FR is suitable for use with a timber or steel framed structure. For new and existing buildings confirm that the primary structure:

- complies with the NZ Building Code and is designed in accordance with NZS 3604:2011 or NASH Design Standard 2019 Parts 1 and 2; or
- is specifically designed to NZS 3603:1993 or AS/NZS 1170:2002; or
- where existing, is suitable for the intended building work.

Masons Barricade FR is an exterior wall underlay and air barrier for timber and light-steel framed buildings.

Barricade FR, should be installed in buildings where it will be fully covered or enclosed by suitable interior linings. From 1 July 2025 the use of Barricade FR in an unlined structure will be excluded from the products warranty.

STEP 3: SPECIFY ANCILLARY PRODUCTS

Ensure all required ancillary products are specified in the completed Masons Barricade FR specification.

STEP 4: QUALITY CHECK

Confirm all relevant design requirements are met.

Collate the following documents and include in the building consent application:

- Masons Barricade FR Codemark,
- Masons Barricade FR Material Safety Data Sheet,
- Masons Barricade FR Warranty and
- this document.

Pre-installation

HEALTH AND SAFETY

Take all necessary steps to ensure your safety and the safety of others:

- ensure adequate ventilation or mechanical dust extraction when cutting or drilling
- take care when fixing the wrap in windy conditions
- wear appropriate safety equipment, clothing and footwear
- use all tools in accordance with relevant instruction manuals
- plan and monitor a safe approach for working at height; select and use the right equipment
- clear the work area of any obstruction before work starts.

For further information refer to:

- WorkSafe. [July 2018] Small Construction Sites, the Absolutely Essential Health and Safety Toolkit.
- WorkSafe. [December 2016] Health and Safety at Work, Quick Reference Guide.

These documents are available at www.worksafe.govt.nz.



HANDLING AND STORAGE

Handling

Care must be taken during loading, unloading, and transporting the materials to prevent pre-installation damage.

Unload the rolls carefully by hand. Do not crush the rolls and ensure they are protected from damage.

Storage

Store the rolls on end under a cover, in a clean and dry area and out of direct sunlight.

TOOLS AND EQUIPMENT REQUIRED

Install Masons Barricade FR using standard carpentry tools and equipment. Use tools in accordance with good trade practice and supplier's instructions.

Installation

STEP 1: BUILDING CONSENT DOCUMENTATION

Where applicable, access and view building consent documentation.

STEP 2: CHECK RELATED BUILDING WORK

For new and existing buildings ensure the primary structure is straight and true and within framing tolerances as described in Table 2.1, section 2 of NZS 3604:2011.

Masons Barricade FR can be used where cladding is installed over a cavity system or direct fixed cladding.

STEP 3: INSTALL WRAP

For assistance in installing Barricade FR call 0800 522 533 to be put in touch with your Masons Rep.

Barricade FR, should be installed in buildings where it will be fully covered or enclosed by suitable interior linings.

From 1 July 2025 the use of Barricade FR in an unlined structure will be excluded from the products warranty.

Fit Wrap

Ensure all necessary equipment and ancillary components are available.

Masons Barricade FR must be fixed (with the printed side out) to all framing members at maximum 300 mm centres with large-head clouts 20 mm long, 8 mm minimum staples, self drilling screws or proprietary underlay fixings. The membrane must be pulled taut over the framing before fixing.



Fixing

Masons Building Wrap must be run horizontally and must extend from the upper-side of the top plate to the under-side of the bearers or wall plates supporting ground floor joists, or below bottom plates on concrete slabs. Horizontal laps must be no less than 75 mm wide, with the direction of the lap ensuring that water is shed to the outer face of the membrane. End laps must be made over framing and be no less than 150 mm wide.

The wall underlay should be run over openings and these left covered until windows and doors are ready to be installed. Openings are formed in the membrane by cutting on a 45 degree diagonal from each corner of the penetration. The flaps of the cut membrane must be folded inside the opening and stapled to the penetration framing. Excess underlay may be cut off flush with the internal face of the wall frame. Masons Hydro™ or 40 Below™ Flashing Tape needs to be installed around the openings prior to fitting the doors and windows.

Masons Building Wrap must be restrained from bulging into the drained cavity in accordance with NZBC Acceptable Solution E2/ AS1, Paragraph 9.1.8.5. Installing Masons WrapStrap - horizontal at 300mm centres - prevents the wrap and insulation from bulging.

Masons Building Wrap can be added as a second layer over head flashings in accordance with the requirements of NZBC Acceptable Solution E2/AS1, Paragraph 9.1.7(e).

When fixing the product in windy conditions, care must be taken due to the large sail area created by wide roll widths.

Tears

Any damaged areas of Masons Building Wrap, such as tears, holes or gaps around service penetrations, must be repaired. Damaged areas can be repaired by covering with new material lapping the damaged area by at least 150 mm and taping, or by taping small tears with Masons Hydro™ or 40 Below™ Flashing Tape.

Provided Masons Wrap is not exposed to the weather or ultra-violet light for a total of more than 60 days, and provided the exterior cladding is maintained in accordance with the manufacturers instructions and the cladding remains weather resistant, the wrap is expected to have a serviceable life equal to that of the cladding.

STEP 4: QUALITY CHECK

Ensure that all joins are overlapped, and all tears have been repaired. Ensure full adhesion around penetrations and openings.

Ensure Mason's warranty is inserted into the client document package.
