

MASONS BARRICADE WEATHER DEFENSE SYSTEM INSTALLATION GUIDE



MASONS
Designed Smart, Built Tough.

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General and product information

PURPOSE

This guide is for the installation of Masons Barricade weather defense system.

IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- › the Masons Barricade weather defense system pass™
- › the Masons Barricade weather defense system Specification guide
- › the Masons Barricade weather defense system warranty.

SKILLS REQUIRED

This guide is suitable for use by a licensed building practitioner licensed to the relevant class or by a practitioner who will be supervised by a licensed building practitioner licensed to the relevant class or deemed LBP.

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

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 and 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 m² 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.

SCOPE AND LIMITATIONS

For scope of use, limitations, conditions and statement of building code compliance refer to the Masons Barricade weather defense system pass™



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.
- › Ensure the timber and fibre cement sheets are well supported when cutting and nailing.
- › Wear appropriate safety equipment, clothing, footwear and eye protection.
- › Use all tools in accordance with relevant instruction manuals.
- › Ensure all tooling is sharp.
- › Plan and monitor a safe approach for working at height; select and use the right equipment. Do not step directly on the sheets between roof purlins. Always use stepping ladders or crawling boards supported by a minimum of three roof structural elements.
- › 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

Take care when transporting, handling and storing system components to avoid damaging the components.

Unload fibre cement boards by hand or using a forklift. Use two people to carry sheets on edge, holding near each end. Do not lean sheets against vertical surfaces as this can cause the sheets to bend.

Storage

Store boards in a flat area undercover and off the ground. Place on a pallet or supported by timbers running the length of the boards. Store rolls of wrap in a dry location and undercover.

TOOLS AND EQUIPMENT REQUIRED

Install the system using standard carpentry tools and equipment.

Use tools in accordance with good trade practice and supplier's instructions.

Masons Barricade weather defence fibre cement boards can be cut with tungsten carbide tipped tools.

COMPONENTS

The following components are required:

- › Masons Barricade weather defence fibre cement board 6 mm or 9 mm
- › Masons Barricade weather defence self-adhesive wrap 50 m² rolls
- › 1 to 75 mm Masons Penetration seals
- › 80 to 170 mm Masons Penetration seals
- › 90 x 45 mm SG8 timber framing (at a minimum)



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- › 40 Below™ Platinum tape or 40 Below™ Flex tape
- › 40 mm x 10 g CSK SS clout fixings
- › GIB HandiBrac®
- › M12 Bowmac Screw Bolt for concrete.
- › M12 coach screw for timber
- › 13 mm GIB Fyreline®
- › R2.2 Pink® Batts® glass fibre batts
- › Hilti CP 606 Firestop acrylic sealant.
- › 2-3 mm double-sided butyl construction tape or 3.2 mm or 4.8 mm closed cell PVC self-adhesive medium density construction foam.



Installation

PREPARATION

Step 1

Building consent documentation

Access and view building consent documentation.
Access and view details in the building consent documentation or access the relevant details from Masons
NZS 3604:2011 should be available for reference

Step 2

Confirm the scope

Confirm the proposed use is within the scope and limitations of the pass™.

Step 3

Check related building work

Confirm the timber or concrete floor structure is constructed in accordance with the building consent or NZS 3604:2011.

INSTALLATION

Step 4

Install the timber framing

Install framing in accordance with the building consent. Framing must be minimum 90 x 45 mm SG8 timber framing. Studs must be at 400 mm or 600 mm maximum centres and nogs must be at 800 mm maximum centres.

Fix framing to floor using hold down method specified in the building consent. For wall bracing, the hold down method must be GIB HandiBrac® to frame and bottom plate with M12 Bowmac screw bolt for concrete or M12 coach screw or equivalent fixing to bottom plate.

Ensure the framing is straight and true and within framing tolerances as described in section 2 and Table 2.1 of NZS 3604:2011.

Step 5

Install fibre cement board

Fit Masons Barricade weather defense fibre cement board to framing and fix using 40 mm x 10 g CSK SS clout fixings at 150 mm centres, 12 mm minimum edge distance and 50 mm corner distance.

Step 6

Install wrap

Install the Masons Barricade weather defense self-adhesive wrap.

Step 7

Install penetration seals, if applicable

Install the Masons Penetration seals around pipes, ducts and services.



Step 8

Install over door and window openings, if applicable

Where Masons Barricade weather defense is to be used as a temporary cladding system, the fibre cement sheeting can be installed over door and window openings and can be removed when required to complete the external cladding system. Install temporary timber members to support larger openings.

Install Masons Barricade WD self-adhesive wrap over the cut edges once the openings have been made with a minimum lap of 150 mm and install self-adhesive tape to all laps.

Where installing an adjoining member such as brackets or cleats to be fixed to the Masons Barricade weather defense surface, weather seal the back surface with double sided butyl construction tape or closed cell PVC self-adhesive medium density construction foam. The foam must be compressed at least by 30%.

A primer may be required on porous surfaces such as cast concrete.

Step 9

Install remaining components to form the fire rated assembly, if applicable

- Apply Hilti CP 606 Firestop acrylic sealant to all joins, if a fire rated assembly is required.
- Install R2.2 Pink[®] Batts[®] glass fibre insulation between framing members.
- Install 13 mm GIB Fyrelite[®].

Install all products in accordance with the product supplier's instructions.

COMPLETION

Step 10

Quality check

Check to ensure all components are installed correctly and in accordance with this document.
