

**MASONS BARRICADE WD SELF-ADHESIVE
WEATHER RESISTIVE BARRIER**
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 WD self-adhesive weather resistive barrier. To be read in conjunction with the Barricade WD visual installation guide.

IMPORTANT DOCUMENTS

This guide must be read in conjunction with:

- › the Masons Barricade WD Visual Installation Guide
- › the Masons Barricade WD Working Spec 3D animations.
- › the Masons Barricade WD Architectural Drawings.
- › Masons Barricade WD Technical Data Sheet

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 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).

It is designed to provide a weather resistive barrier that excludes air and water, whilst water vapour to pass. Barricade WD resists UV exposure for 150 days. Barricade WD may be applied over clean dry sound rigid substrates such as plywood, fibre cement sheet, timber, OSB board, smooth dense EPS and XPS board, and metal elements such as aluminum and steel providing a continuous self adhesive underlay over these elements. Barricade WD forms part of the buildings moisture management design, and will be a substantial secondary line of defense against moisture intrusion for the life of the the cladding..

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.

Store Masons Barricade WD and Masons 40 Below Flex in cool dry conditions.

Rolls may be stored on edge or one their sides on level even surfaces. Do not remove any outer wrapping until just before use.

Storage

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.

A hard roller or wide plastics crapper or similar to apply pressure to face of Barricade WD.

COMPONENTS

The following components are required:

- › Masons Barricade weather defence self-adhesive wrap 50 m² rolls
- › 1 to 75 mm Masons Penetration seals
- › 80 to 170 mm Masons Penetration seals
- › Masons 40 Below™ Flex flashing tape
- › 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. Available via NZ Tape Specialties resellers.
- › Sealants and expanding foams per approved tested list from Soudal. See Masons website.



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

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 and the relevant NZ building standards .

INSTALLATION

Step 4

Install the framing

Install framing in accordance with the building consent and the architects and engineers drawings.
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 rigid wall underlay - substrate

The rigid wall underlay or rigid substrate should be installed to the manufacturers instructions including bracing requirements, fixing type and pattern, movement joint, and in keeping with good trade practice.

Substrates must be relatively smooth, dry , clean and free of dust, oil, or any contaminates such as treatment residue that may affect adhesion.

Concrete surfaces must be free of release agents and may need a surface primer.

A site adhesion test is recommended for for EPDM, Butyl, and brush on membranes.

Do Not attempt to install Barricade WD over surfaces affected by release agents, surfactants, modified bitumen coatings, anti graffiti coatings, silicone based water proofing, or un flashed off LOSP timber.



Step 6

Install wrap

- › Plan the install. This is typically a two person install for best results. Ensure substrates are prepared, plan the start and stop points. Plan to pre finish internal and external corners. Plan to work around scaffold and obstacles. Plan for disposal of the backing film.

Barricade WD is installed with the blue side out.

Some Installers may prefer to measure and precut the length to be installed to the wall. Allow for 150 mm over lap to corners or the next section of Barricade WD.

- › Working from the bottom up, measure and mark out placement of the first layer of Barricade WD. Chalk line or pencil mark where the top of the first layer will finish.
- › Install any internal - external corners first - see visual installation guide.
- › Re check measure and markings are level and true. Barricade WD adhesive is aggressive and will be difficult to reposition later.
- › Peel the top third of the backing film from one end of the Barricade WD, gently press this to the marked line. Work along the marked line gradually peeling and sticking the top third of the underlay. Keep the underlay level and avoid sagging and wrinkles. Smooth out air bubble and small wrinkles using a plastic scrapper or hard roller.
- › Once the top third of the underlay is adhered to the substrate remove the balance of the backing paper progressively smoothing the underlay down to the substrate.
- › Ensure the underlay is pressed in well the substrate with a hard roller or a wide plastic scrapper.
- › All over laps should be 150 mm, press the upper layer of Barricade WD into the under layer of Barricade WD well to achieve good adhesion.
- › Gradually work up and around the face of the building ensuring 150 mm over laps, and pressure is used to activate the adhesive.
- › Always work from the bottom up to top of the wall. Water will then run off the installed underlay from upper to lower layers.

Step 7

Install penetration seals, if applicable

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



Step 8

Door and window openings, penetration

Joinery

- › Cut Barricade WD in a similar fashion to conventional flexible wall underlay.
- › Turn the Barricade WD into to the framed opening, and press into the framing. Trim the excess.
- › Masons blue plastic corner soakers should be fitted the sill corners.
- › Now flash the opening using 40 Below Flex. one layer on the sill, 200 mm up each jamb, 50 mm out turned the face of the underlay.
- › Flash the window head corners 200x 200mm, 45 deg butterflies to the corners. 50 mm out turn of tape to the face of the underlay.

See Masons Visual Installation Guide

Pipes and conduits

- › Seal any pipe or conduit penetrations using Masons Penetration seals.

Bolts, cleats, fixing penetrations

- › A layer of self sealing 40 Below Flex tape may be used to provide a self sealing layer for screws and nails, use two layers if the surface is uneven.
- › Bolts, thread rod and other substantial fixings through the underlay should have Tape Spec self adhesive foam construction tape applied to the back the cleat or stringer before being bolted up (through the underlay). This is designed to permanently exclude air and water and must be fitted correctly and with compression to achieve this. Tape Spec PVC or Butyl tapes may be custom ordered from Tape Spec NZ resellers. orde

Where installing an adjoining member such as brackets or cleats to be fixed to the Masons Barricade WD 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%.

COMPLETION

Step 10

Quality check

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