



# UNI Flexible Air Barrier Installation Instructions

This installation manual is to be read in conjunction with the Certmark UNI assessment brief.

## General Instructions

- Fix with the printed side out.
- Run the wrap horizontally.
- Pull taut over the framing before fixing.
- Only to be fixed with Masons UNI Fasteners either with a gun or hammer.
- Be lapped not less than 75mm at horizontal joints; Have upper sheets lapped over lower sheets to ensure that direction of laps will allow water to be shed to outside of the wall underlay.
- Be lapped not less than 150mm over studs at vertical joints.
- Extend 50mm below bottom plate or bearer



## Tools Required

- Masons UNI Fasteners
- Hammer or Fastener Gun
- Masons 40 BELOW - Flashing Tape
  - 75mm; for seams of overlaps
  - 150mm; for window flashings
- Cutting Knife

**1**

Top Plate



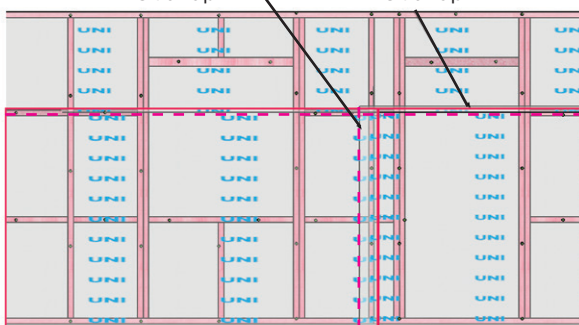
Bottom Plate

- Run a 600mm UNI soffit strip taut along the top and over the top plate. Secure with UNI Fasteners at 600mm centres.

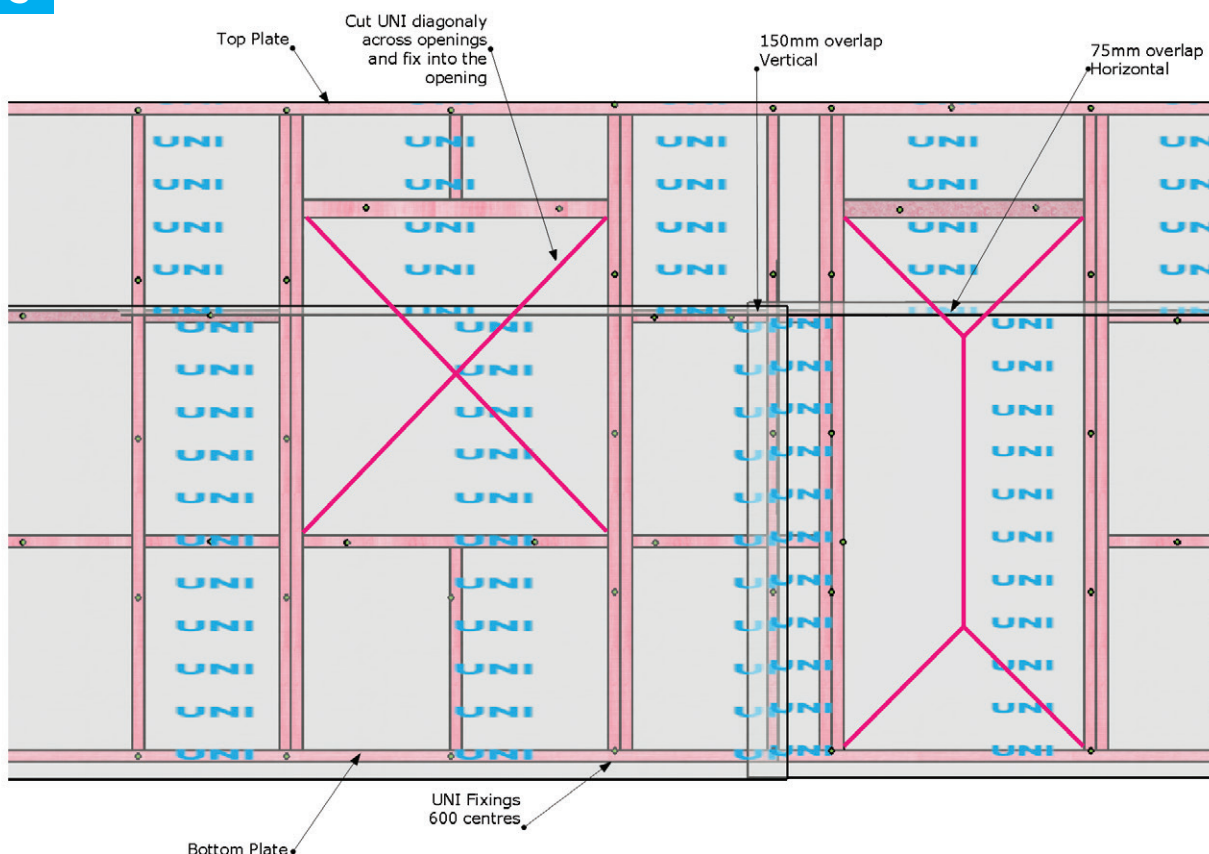
**2**

150mm Vertical  
Overlap

75mm Horizontal  
Overlap



- Run UNI horizontally extend from the upper-side of the top plate to the under-side of the bearers or wall plates supporting ground floor joists, or a minimum of **50mm below bottom plates** on concrete slabs.
- Horizontal laps must be no less than 75 mm wide and require to be taped off with Masons 75mm **40 BELOW** - Window Flashing Tape.
- End laps must be made over stud framing, be no less than 150 mm wide and must be fully sealed and taped off using Masons 40 below self-adhesive window tape.



- Uni Nail & Screw washers** - It is important to secure UNI with masons UNI 32mm Nail/washer fasteners as they rapidly increase the holding power of UNI at 600mm centres over normal 8-10mm staples. For steel frame use UNI washers with either a Phillips or square drive self-drilling screw.
- Installing cavity battens** - When installing timber cavity battens using UNI fasteners you must keep the batten nail a minimum of 100mm away from the UNI fastener.
- Brick Veneer construction** - Masons brick ties have been subjected to the BEAL Modified E2/VM1 test with UNI as a system therefore Masons brick ties can only be used over the top of UNI.
- Strapping** - UNI when installed taught will assist in restraining from bulging into the drained cavity due to the high strength reinforced core, however should bulging occur the UNI must be restrained from bulging into the drained cavity in accordance with E2/AS1 Masons wrap strap can be used to assist with this, any penetration to UNI with staples must be stapled over the top of Masons 40 below flashing to provide moisture seal ability around the staple.
- Joinery Openings** - The wall underlay should be run over openings and left covered until windows and doors are ready to be installed. Openings are formed in the membrane by cutting 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.
- Penetrations** - Pipe or Service penetrations must be sealed/flashed immediately.
- UNI Flexible air barrier can be added as a second layer over head flashings in accordance with the requirements of Acceptable Solution E2/AS1, Paragraph 9.1.7(e).
- Temporary weather protection** - To achieve temporary weathertightness all joins of UNI must be sealed using Masons 40 BELOW Flashing Tape. The roof cladding and soffit linings must be installed. The timber wall framing must have a maximum moisture content as specified by the internal lining system at the time of the unsulation installation and internal lining application.

**IMPORTANT:** consult the [UNI on-site checklist](#) directly after application. The checklist must be completed as part of the product warranty. This includes daily UNI inspections by the site supervisor.



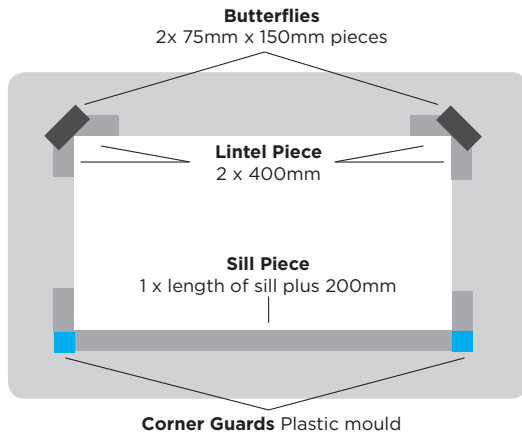
View UNI's installation video online by clicking the QR code or visit [masons.nz](http://masons.nz)



# UNI Flexible Air Barrier

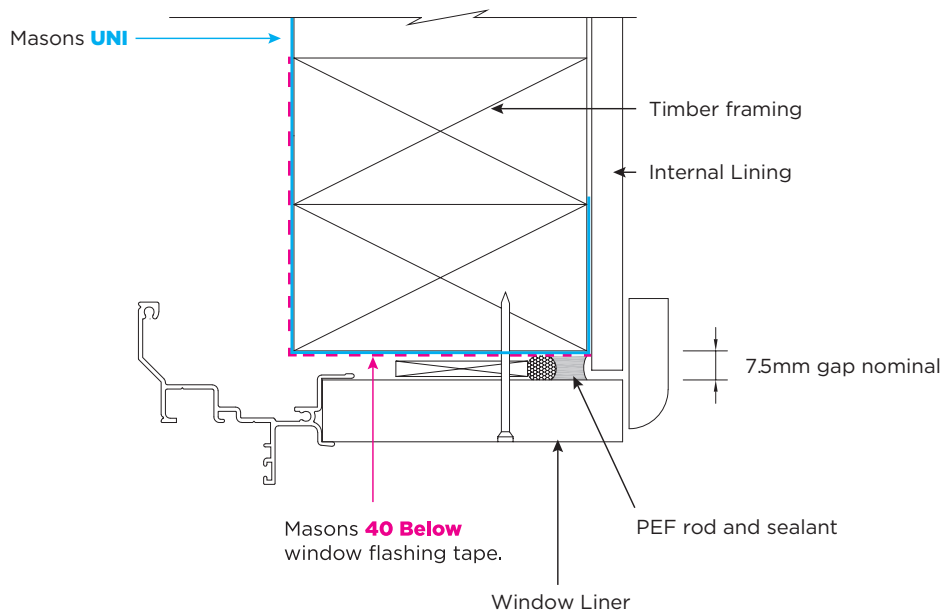
## Installation Instructions

4



- Masons 40 BELOW - Window Flashing Tape is exclusively to be used with UNI Flexible air barrier
- Particular attention must be paid to the installation of the sill and jam tapes around window and door openings to ensure all exposed timber wall framing in the opening is protected.
- Refer to the 40 Below Product installation instructions for more details
- The Window and door joinery must be installed complete with head flashings and air seals. See detail drawing below.

5



### Repairs & Replacement

It is important that the site foreman checks UNI daily for damage/tears to UNI. Any damaged areas of UNI Flexible air barrier, 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 using Masons 40 below flashing tape, or by taping small tears using Masons 40 below flashing tape. Masons UNI is not to be exposed to the weather or ultra-violet light for a total of more than 90 days. After 90 days the product will need to be replaced otherwise the warranty is void.

### Handling & Storage

Masons UNI whether on or off site should

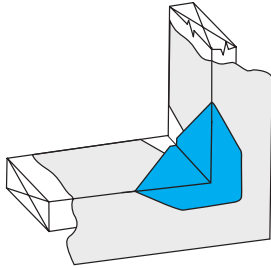
- Be stored on end under a cover, in a clean and dry area
- Do not crush the rolls
- The rolls must be protected from damage
- When fixing the product in windy conditions, care must be taken due to the large sail area created by wide roll widths.



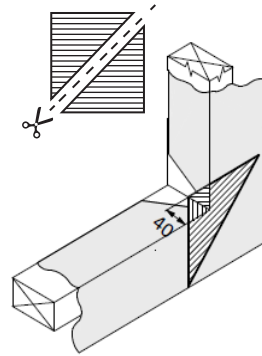
# Flashing Tape

## Installation Instructions for UNI

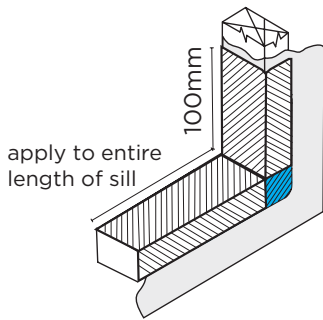
### Window Sill Installation Instructions



**1. Corner Guard *option 1***  
Place the *Masons Corner Guard* over the UNI wrap and into the **bottom** corners of the window or door sill, staple to the jamb. With steel frames use double sided tape to attach the *Corner Guard* to the metal.



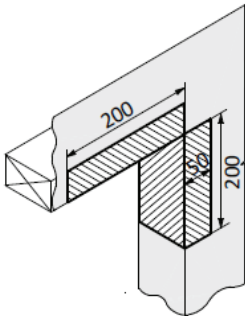
**1. Corner Guard *option 2***  
Cut a 150mm square of *Flashing Tape* into two equal triangular pieces. Install these at the **bottom** corners of the frame opening. The triangle needs to reach 40mm in from the extreme end of the window sill. With the remainder overlapping the UNI Wrap.



### 2. Sill Guard

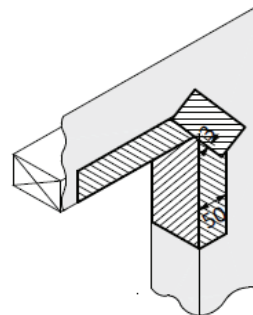
- A. Install sill tape flush with the interior face of the opening. Apply along entire length of sill, continue up each jamb with a minimum of 100mm
- B. IMPORTANT: Press tape firmly into the corner over the Corner Guard first, then fold around onto the frame face.
- C. Fold remainder *Flashing Tape* against outer face of frame/building. Smooth out all creases & press firmly for good adhesion.

### Window Head Installation



### 1. Lintel Piece

Install Lintel pieces on top corners of opening, 200mm along the lintel and 200mm down the jamb. Slit at each corner & fold onto outer face of building wrap (at least 50mm).



### 2. Butterflies

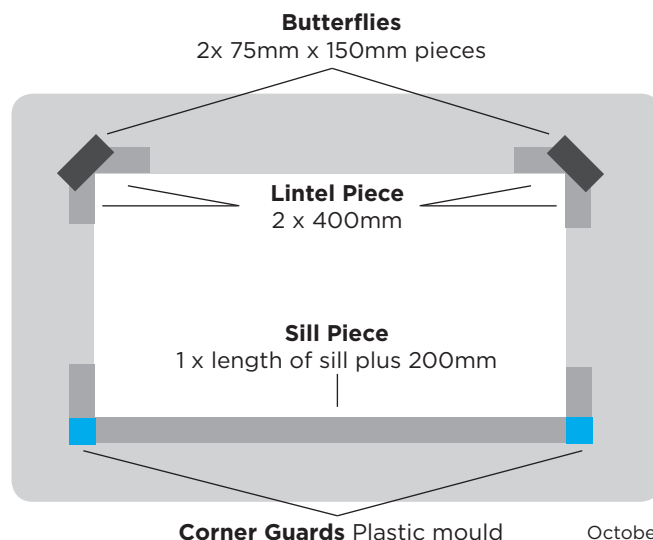
To create a seal at corner junction, Install butterflies at 45° across the corner of head/jamb.

### Window Head Flashing Installation

Apply *Masons Flashing Tape* to top of window head flashing, up-stand and UNI wrap. Refer to window & cladding details for specific application.

### Cutting Diagram:

To ensure maximum adhesion of the tape, make sure the substrate surface is clean, dry and free from any dust or other contaminants.



# UNI Flexible Air Barrier

## ON-SITE Checklist



**MASONS**  
Designed Smart, Built Tough.

Date: \_\_\_\_\_

Consent # \_\_\_\_\_ (If known)

Owner/Applicant: \_\_\_\_\_

Architect/Engineer: \_\_\_\_\_

Consent Address: \_\_\_\_\_

Name of Builder/Installer: \_\_\_\_\_

- |  |          |
|--|----------|
| 1. Framing installed as per designer's drawings  | YES / NO |
| 2. UNI Flexible Air Barrier installed with all seams and edges sealed against moisture and air ingress as per the UNI Technical Manual | YES / NO |
| 3. All pipe and service penetrations sealed as per UNI Technical Manual  | YES / NO |
| 4. Are fixing caps, staples and or screws installed as per UNI Technical Manual  | YES / NO |
| 5. Battens installed as per UNI Technical Manual   | YES / NO |
| 6. All Window and Door flashings and air sealing carried out as per Manufacturers Specifications                                       | YES / NO |
| 7. Has the underlay been exposed to the elements for more than 90 days   | YES / NO |
| 8. Any tears or penetrations been repaired as per UNI Technical Manual   | YES / NO |
| 10. Checked daily by site supervisor   | YES / NO |

Name of LBP/Builder: \_\_\_\_\_

Signature of LBP/Builder \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

