



# UNI<sup>®</sup> FR Fire Retardant Flexible Air Barrier

## Installation Instructions



**CARRY ON  
INSIDE**

**WHILE YOU  
WAIT FOR CLADDING  
OUTSIDE**



**MASON'S**  
Designed Smart, Built Tough.



**STAY ON TRACK WITH YOUR  
BUILD IF CLADDING IS DELAYED**

**90  
DAYS**

**TEMPORARY WEATHER  
PROTECTION FOR UP TO 90 DAYS**



**QUICK & EASY TO  
TRANSPORT AND INSTALL**

**UNI<sup>®</sup> FR** is a fire retardant, NZ designed Flexible Air Barrier (FAB<sup>®</sup>). It's unique reinforcing and highly water resistant features allow work to continue on the inside of the building for up to 90 days without waiting for the cladding to be complete.

[masons.nz](http://masons.nz)





### 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 or timber battens with ring shanked nails.
- 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



### Items Required

- UNI FR Soffit roll with self adhesive strip
- UNI Seam Tape
- UNI Fasteners
- Hammer or Fastener Gun
- Masons Tape
  - UNI Seam Tape for UNI overlaps
  - 40BELOW (150mm) for window flashings
- Cutting Knife
- Compressor 90-100 PSI
- Plastic tape scraper to assist tape adhesion



### 1

Top Plate



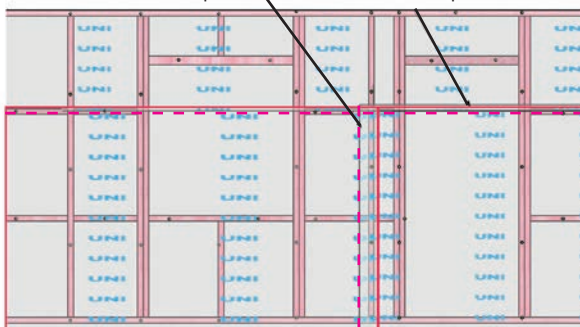
Bottom Plate

- Where required, run a 600mm UNI FR soffit strip taut along the top face of the top plate. Secure with UNI Fasteners at 600mm centres.
- Remove backing from self adhesive strip on reverse of UNI FR soffit roll and press in firmly to underlying UNI FR using a plastic tape scraper or similar tool. Hand /finger pressure alone is not sufficient.
- Or run UNI FR continuously up to the top of the top plate if stud height and fitting of soffit framing permits.

### 2

150mm Vertical Overlap

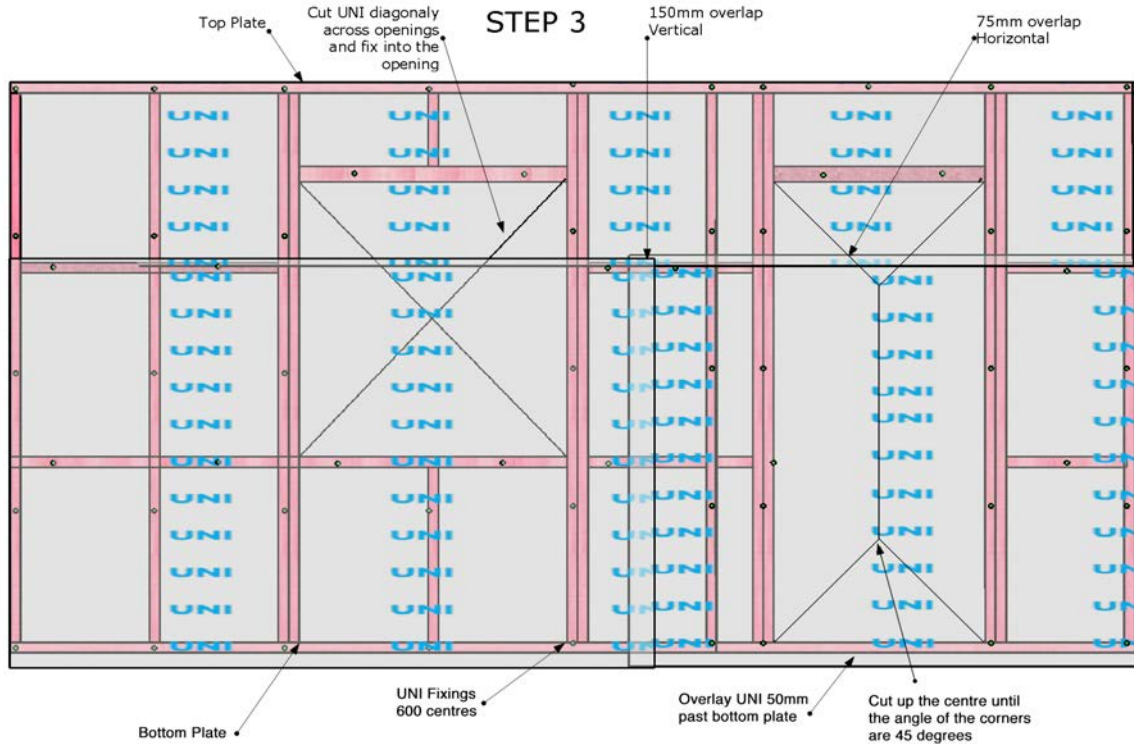
75mm Horizontal Overlap



- Run UNI FR horizontally extend from the upper-edge 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 75mm wide and require to be taped off with **Masons UNI Seam Tape**.
- Vertical laps must be made over stud framing, be no less than 150 mm wide and must be fully sealed and taped off using **Masons UNI Seam Tape pressed in well** with a plastic tape scraper or similar tool.



**3**



- UNI Nail & Screw washers** - It is important to secure UNI FR with Masons UNI 32mm Nail/washer fasteners as they rapidly increase the holding power of UNI FR 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.
- Wind Zones - Fixing Method** - Refer to this table.
- Brick Veneer construction** - Masons brick ties have been subjected subjected to a modified E2/VM1 test with UNI FR therefore Masons brick ties can only be used over the top of UNI FR
- Strapping** - UNI FR when installed taut will assist in restraining from bulging into the drained cavity due to the high strength reinforced core. However should bulging occur, UNI FR must be restrained from bulging into the drained cavity in accordance with E2/AS1. Use UNI Cap nails to fasten wrap strap over the UNI FR if required.

**UNI FR Wind Zone Fixing Methods**

Wind Zone	Min. Studs Centre	Min. Nogs Centre	Perimeter Fixing all Around	Fixing on Studs	Fixing on Nogs	Fixings
Low	600	800	Nails at 300mm centres	Nails at 600mm centres	Nails at centre	25mm nails with 32mm washer
Medium	600	800	Nails at 300mm centres	Nails at 600mm centres	Nails at centre	25mm nails with 32mm washer
High	600	800	Nails at 300mm centres	Nails at 300mm centres	Nails at centre	25mm nails with 32mm washer
Very High	450	800	Nails at 300mm centres	Nails at 300mm centres	Nails at centre	25mm nails with 32mm washer
Extra High	300	800	Nails at 300mm centres	Nails at 300mm centres	Nails at centre	25mm nails with 32mm washer
Low to Extra High	Batten (varies)	800	Batten with Nails at 300mm centres	Batten with Nails at 400mm centres	Batten with Nails at 400mm centres (2 nails minimum)	Batten - 20x45 SG8 Nails - 60x2.8 ring shank galvanised



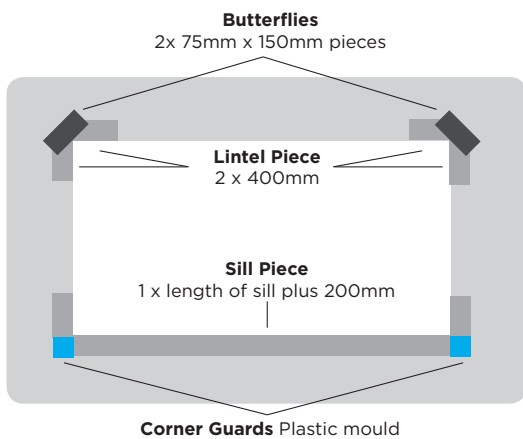


- **Joinery Openings** - The wall underlay should be run over openings and left covered until windows and doors are ready to be installed.  
Openings are formed in the membrane by cutting diagonal from each corner of the penetration.  
The flaps of the cut membrane must be folded inside the opening and 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 immediately with Masons Penetration Seals.

**Head Flashings**

- UNI is to be installed with a second layer over head flashings. This is the preferred and recommend detail for ALL wind zones in accordance with the requirements of Acceptable Solution E2/AS1, Paragraph 9.1.7(e). See supplementary information later in this document
- Alternatively for wind zones Low to High head flashings may be sealed to UNI FR using UNI Seam Tape 60 mm or 3M All Weather Tape pressed in well with a plastic scraper.
- **Temporary weather protection** - All joins must be sealed using Masons UNI Seam Tape or the self adhesive strip on the reverse of UNI FR soffit roll.  
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 insulation installation and internal lining application.

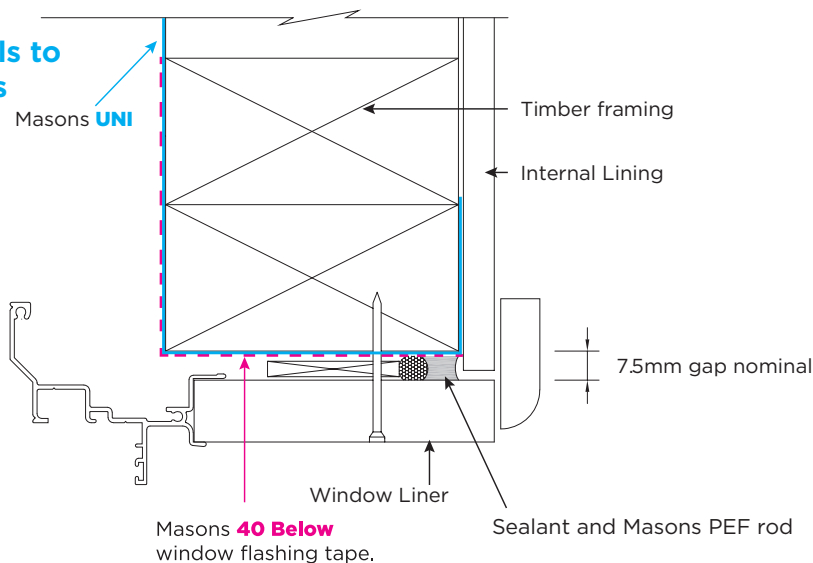
**4**



- Use Masons 40 Below and Masons UNI Seam Tape with the Uni FR Flexible Air Barrier.
- Particular attention must be paid to the installation of the sill and jamb tapes around window and door openings to ensure all exposed timber wall framing in the opening is protected.
- Should any lifting of 40 below tape occur staple back using the minimum number of staples required to secure the tape. Do not use Masons UNI Seam Tape to flash window openings, do not staple or penetrate Masons UNI Seam Tape.
- Refer to the 40Below 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.
- Where plastic DPC is installed around joinery as secondary water proofing such as for brick veneer work, fasten the DPC to the frame over the UNI using UNI fasteners.

**5**

**Installing Air Seals to Joinery Openings**





### Repairs & Replacement

It is important that the site foreman checks UNI regularly 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 immediately.

Damaged areas can be repaired by covering with new material lapping the damaged area by at least 150 mm and taping using Masons UNI Seam Tape, or by taping small tears using Masons UNI Seam 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 exposure product should be replaced. Exposure past 90 days will affect warranty. Seek advice from Masons if UNI is going to be exposed past 90 days.

### Handling & Storage

Masons UNI FR whether on or off site should:

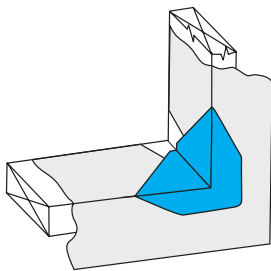
- Be stored on end under a cover, in a clean and dry area
- Do not crush the rolls
- The rolls must be protected from damage
- When fixing the product in windy conditions, care must be taken due to the large sail area created by wide roll widths

View UNI's installation video at: [masons.nz](http://masons.nz) or scan this code



**IMPORTANT: All tapes must be pressed in well onto dry clean wrap with a plastic scraper for best adhesion**

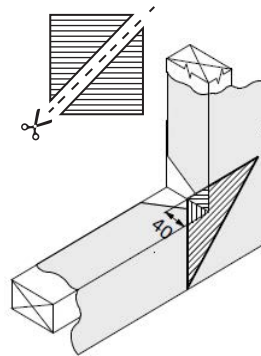
### Window Sill Installation Instructions



#### Preferred Method

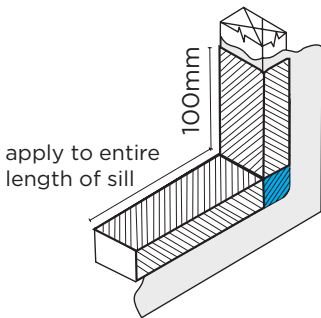
#### 1. Corner Guard *option 1*

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.



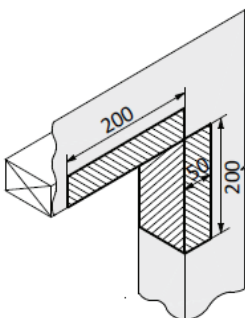
apply to entire length of sill

100mm

#### 2. Sill Guard

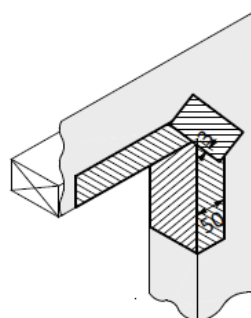
- Install sill tape flush with the interior face of the opening. Apply along entire length of sill, continue up each jamb with a minimum of 100mm
- IMPORTANT:** Press tape firmly into the corner over the Corner Guard first, then fold around onto the frame face.
- Fold remainder *Flashing Tape* against 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.

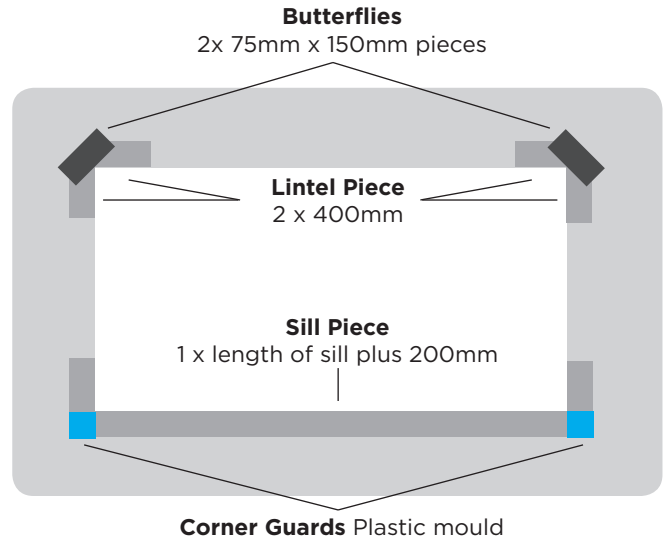


### Window Head Flashing Installation

A second layer of UNI FR over the head flashings per E2/AS 1 is to be installed for all wind zones. Refer to window and cladding details for specific application.

If head flashings are taped to UNI FR use Masons Seam Tape or 3M All Weather Tape pressed in well with a plastic scraper or similar tool. Only use in Low to High wind zones, Masons UNI Seam Tape 60 mm or 3M All Weather tape must be used. This is not the preferred detail.

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



### UNI FR Head Flashing Intersection

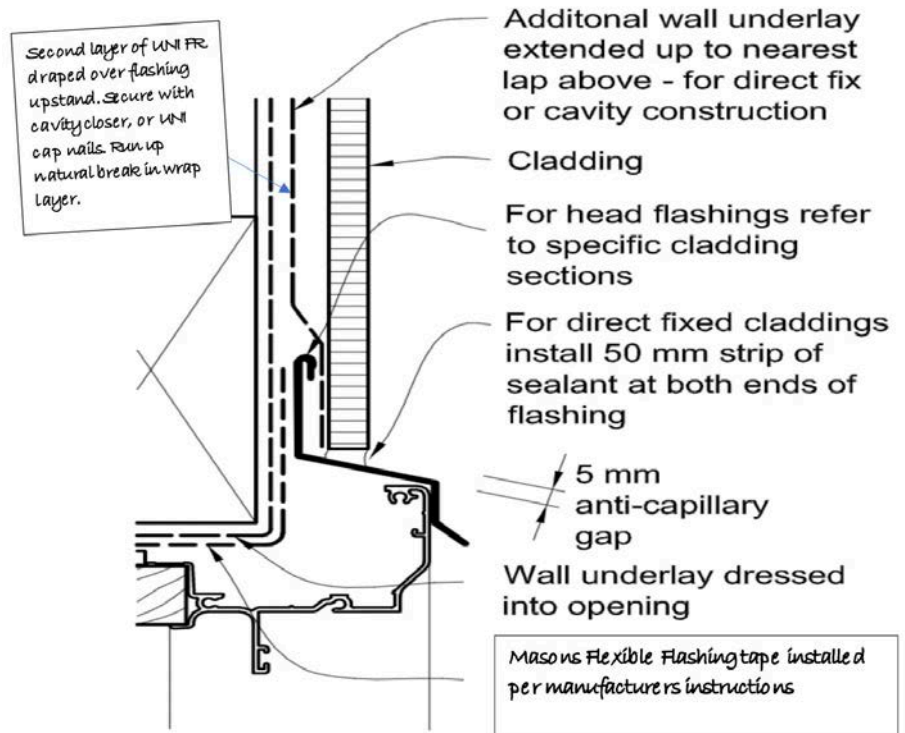
#### Cavity construction

- 1.** Fit a second layer of UNI FR over the primary UNI FR layer.
- 2.** Run this up over the top plate, ribbon board or under the interstory flashing or other logical vertical 'break' in the cladding, drape the secondary layer of UNI FR down over the head flashing upstand. Optionally the draped over UNI FR layer may be sealed to the head flashing up stand with 150mm of 40 Below Ultra Sticky, UNI FAB Seam tape, or 3M All Weather tape. Apply to dry wrap/head flashing - press in well with a plastic scraper. Always ensure water is shed 'shingle fashion' or gavity lapped.
- 3.** Fit the cavity closer above the head flashing upstand.
- 4.** Run the UNI FR 100-150mm out each side of the joinery jamb. Secure the additional layer of UNI FR with UNI cap nails to the framing.

This is the preferred detail for all wind zones. Its is mandatory for Very High and Extra High Wind Zones with the UNI FR FAB system

**Fig 1.**

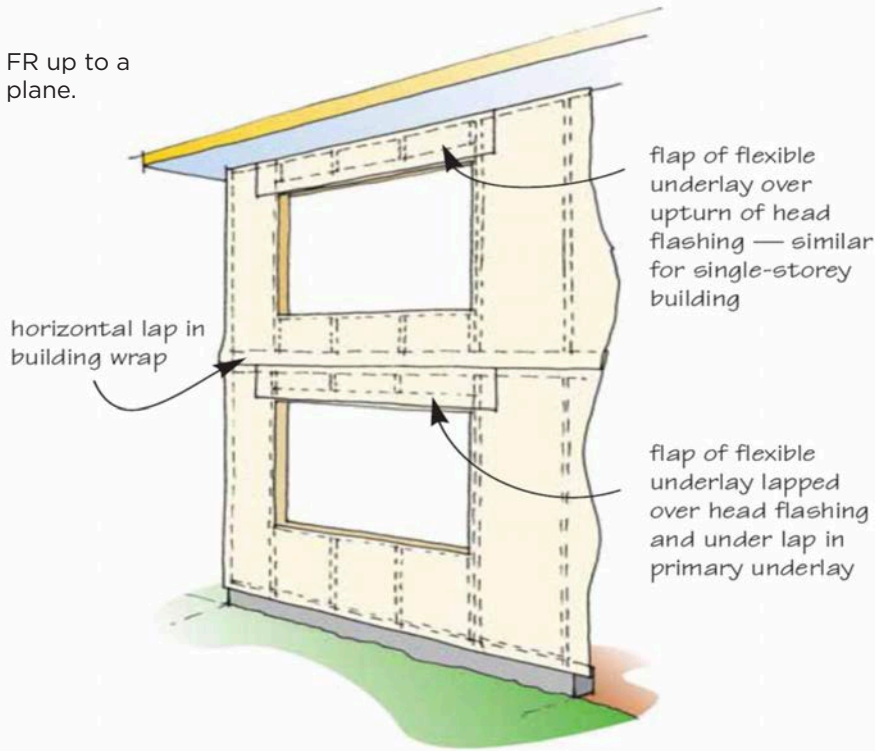
Run a second layer of UNI FR over the primary layer of UNI FR draped over the headflashing.  
Stylised detail only.





**Fig 2.**

Run the second flap of UNI FR up to a logical break in the vertical plane.  
Stylised detail only.



### Alternative detail. Head Flashings taped to UNI FR FAB with flexible flashing tape. Per E2/AS1

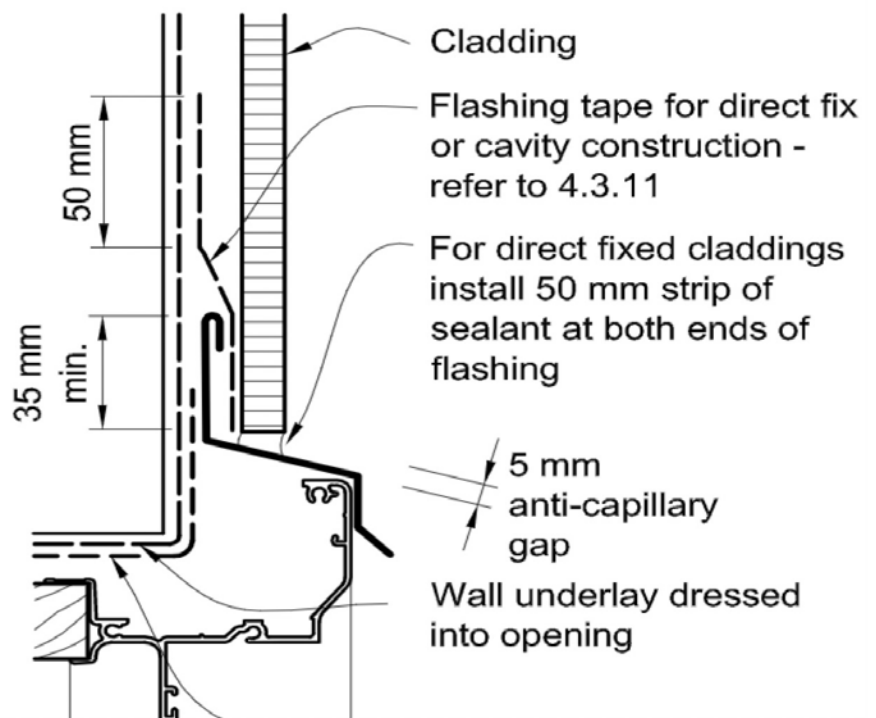
This is not the preferred method for fixing the head flashings with UNI FR. Not recommended for VHWZ and EHWZ when using as a 90-day temporary weather protection system.

Use Masons UNI FAB Seam and Repair Tape or a 150m section of 40 Below Ultra Sticky flashing tape. These MUST be applied and pressed in well to dry clean wrap with plastic scraper.



**Fig 3.**

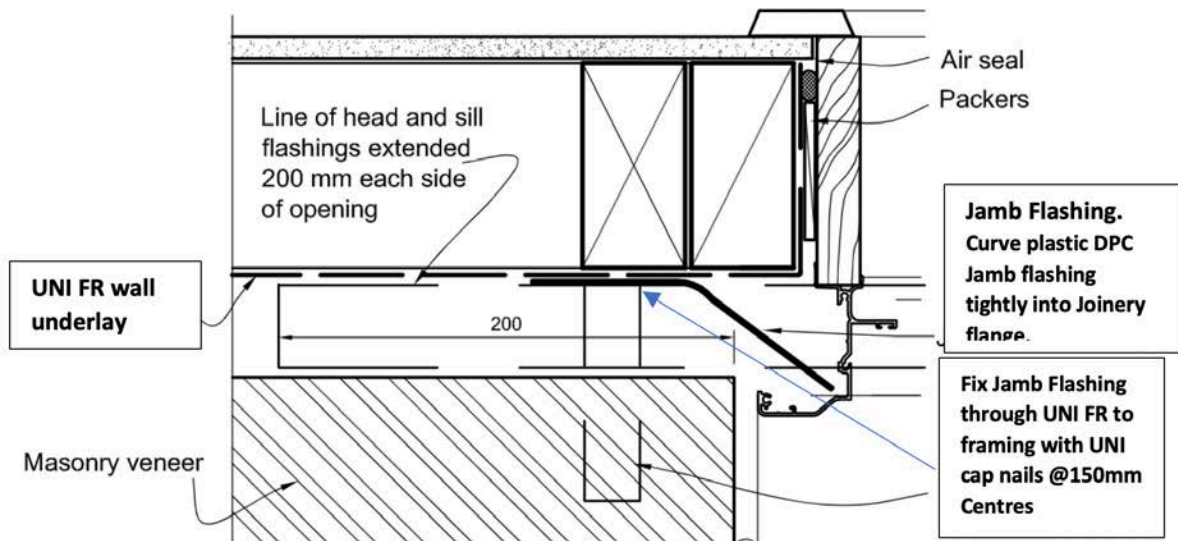
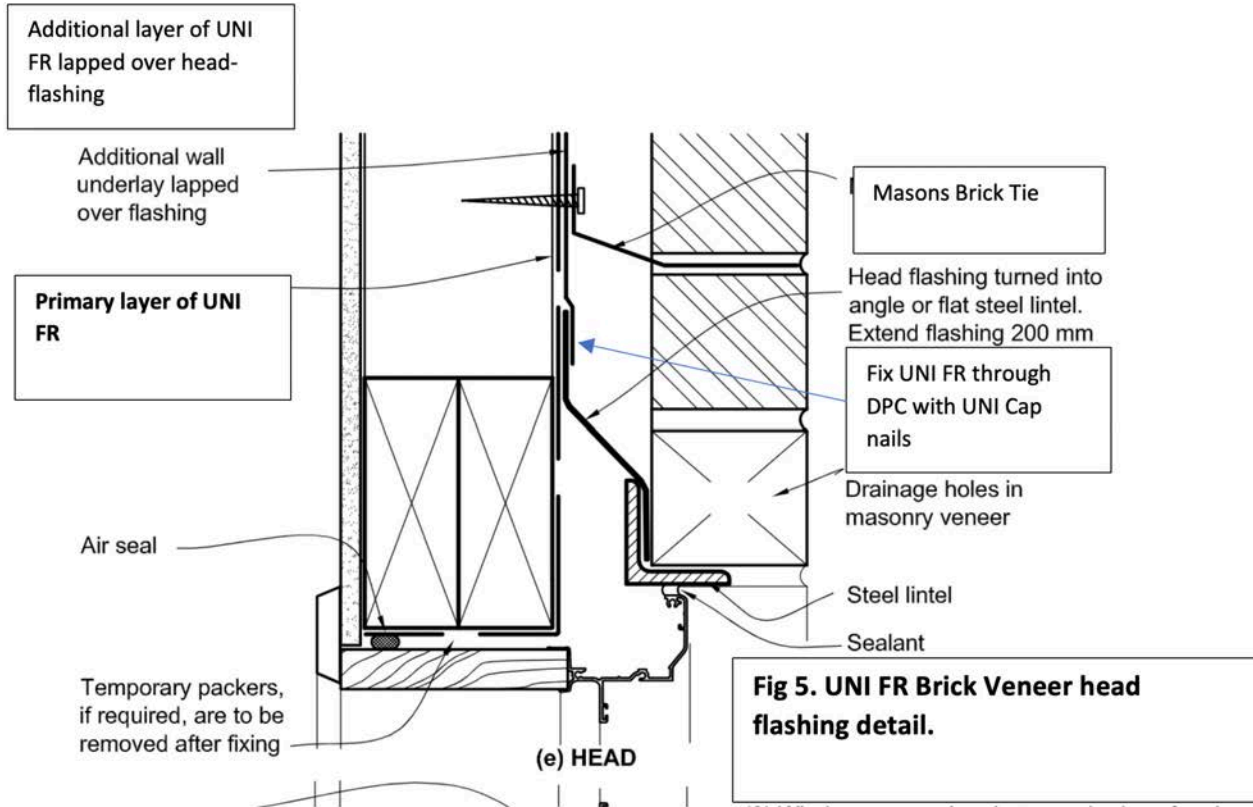
Flexible flashing tape to seal head flashing to UNI FR (per E2/AS1) in up to High Wind Zones.  
Stylised detail only.







**Head and Jamb Details for UNI FR - Brick Veneer. Preferred all wind zones. Mandatory VH & Ex HWZ's**





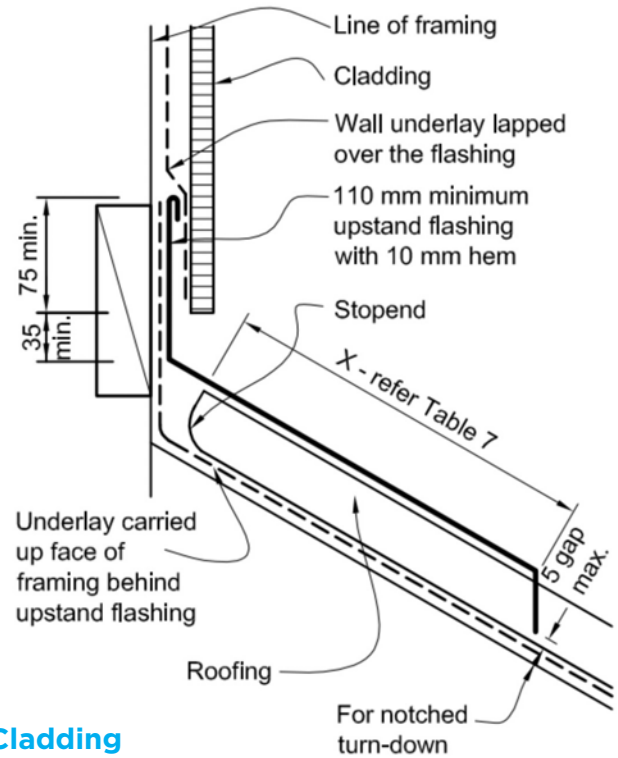


### UNI FR – Apron, Change of Pitch, Inter Story and all Similar Intersections.

1. Drape UNI FR over the upstand of apron, change of pitch or inter story flashings per E2/AS1
2. If necessary secure the UNI FR to the flashing upstand with UNI FAB seam tape, Masons 40 below ultra-sticky or 3M All Weather tape. MUST be applied to dry wrap and metal and pressed in well with a plastic scraper.
3. Fasten UNI FR to the frame with UNI Cap nails offset from the studs, or cavity closer.

**Fig 7 & 8.**

Drape UNI FR over the upstand of the Apron, change of pitch, inter-story and similar flashings.  
Representative images only



### Temporary Weather Protection for Joinery - No Cladding

#### Cavity construction.

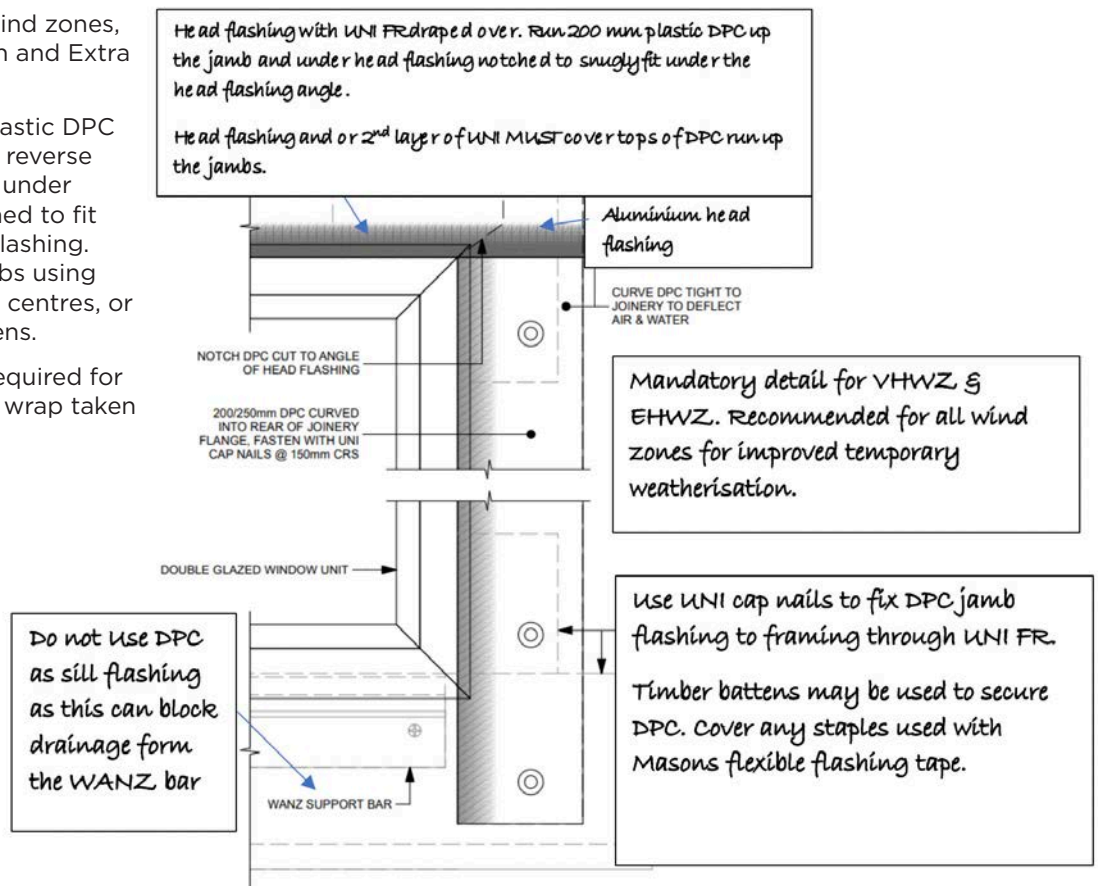
Recommended for all wind zones, mandatory for Very high and Extra high wind zones.

1, Jambs. Fit 200 mm plastic DPC curved and fit tightly to reverse of joinery flange run up under the head flashing, notched to fit snugly under the head flashing. Fix to studs next to jambs using UNI Cap nails at 150mm centres, or continuous timber battens.

2, Fit head flashing as required for UNI FR system with the wrap taken over the head flashing.

**Fig 9.**

Weather protection for joinery - No cladding in place UNI FR FAB system, 20 mm cavity.





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 or UNI FR Flexible Air Barrier installed with all seams and edges sealed against moisture and air ingress as per the UNI/UNI FR Installation Instructions | YES / NO |
| 3. All pipe and service penetrations sealed as per UNI/UNI FR Installation Instructions  | YES / NO |
| 4. Are fixing caps nail/washer or screws/washer installed as per UNI FR Installation Instructions  | YES / NO |
| 5. Battens installed as per UNI/UNI FR Installation Instructions   | 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/UNI FR Installation Instructions   | YES / NO |
| 10. Checked regularly during build by site supervisor  | YES / NO |

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

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

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

