

## MASONS FIBRE CEMENT SHEETS

Also known as Barricade Weather Defense System Fibre Cement Sheets



**MASONS**  
Designed Smart, Built Tough.

# DESIGN AND INSTALLATION GUIDE

V1.0 Feb 2025

## General and product information

Manufactured to: AS/NZS2908.2.2000, Manufacturers- BBA certification (British Board of Agreement).

Classified as Type A Category 3 for external use.

Masons Fibre Cement Sheets are autoclaved asbestos free flat sheets with square edges and one smooth face. It is made from NZ sourced long strand cellulose fibre together with silica, additives, and Portland cement.

Available in 6mm or 9mm thickness, Masons Fibre Cement Sheets have square edges, are sanded on one side and have a variety of uses in construction when incorporated into a NZBC complying system or solution with appropriate instructions and limitations.

It is moisture resistant and has good durability for intended uses. The sheets are offered as:

### RIGID WALL UNDERLAY (RWU)

- A rigid wall underlay must be used in Extra High wind zones (or lower as selected) as per E2/AS1 behind flexible wall underlay, for temporary weatherproofing during the build and as an effective line of defence against water penetration through the cladding.

### CLADDING

- An external cladding on drainage cavity for habitable dwellings and direct fix for non-habitable only, in accordance with Cl. 9.7 E2/AS1 (excluding flush jointed).

### GENERAL PURPOSE

- For general purpose uses such as gable ends, carports, sheds, soffit, and veranda linings, (excludes flush jointed).

### TILE UNDERLAY

- Tile underlay for interior installations only.



<b>Reaction fire class:</b>	A per EN 13501.1.2007.
<b>Fire:</b>	30 Mins -Tested as part of the Barricade Weather Defense system contact Masons for information
<b>Bracing:</b>	See <a href="http://www.mpb.co.nz">www.mpb.co.nz</a> Barricade Weather Defense System-Bracing calculator. – bracings units available for sheets fixed directly to framing, specific stainless steel fixings and fixing patterns must be used together with brackets and bolts to bottom plate for bracing panels as
<b>Wind Zone:</b>	For both Rigid Wall Underlay and Cladding – Extra High – when installed with the framing centres as defined in NZS3604, and the fixings and fixing patterns as set out in the Barricade Weather Defense system
<b>Nail Pattern:</b>	See <a href="http://www.mpb.co.nz">www.mpb.co.nz</a> Masons Fibre Cement Sheet- Cad drawings section and as attached.
<b>Gun Nailing:</b>	Yes, Ecco Hammahand coil nailer and fastenings are tested and preferred. See <a href="http://www.mpb.co.nz">www.mpb.co.nz</a> Barricade Weather Defense Alternative nail type and fixing method
<b>Durability:</b>	<ul style="list-style-type: none"><li>➤ 15 years – as underlay and exterior cladding when properly installed and maintained</li><li>➤ 50 years when used as bracing panels when properly installed and maintained</li></ul>
<b>Warranty:</b>	15 years – free from manufacturing defects per Masons NZ standard product warranty- will not rot, crack, delaminate or warp when installed and maintained as outlined by Masons NZ and in accordance with E2/AS1
<b>Details:</b>	To be read in conjunction with: <ul style="list-style-type: none"><li>➤ Barricade Weather Defense System RWU details <a href="http://www.mpb.co.nz">www.mpb.co.nz</a></li><li>➤ Masons Fibre Cement Sheet Details as attached</li><li>➤ Tile backer details as attached</li></ul>



## 1. Sheet Sizes

Square edged – sanded one face.

Masons Code	Description	Sheets on a pallet
BWD6MMX2.4X1.2	6mm Fibre cement Sheet 6 mm x 2.4 m x 1.2 m	75
BWD6MMX3.0X1.2	6mm Fibre Cement Sheet 6 mm x 3.0 m x 1.2 m	60
BWD9MMX2.4X1.2	9mm Fibre Cement Sheet 9 mm x 2.4 m x 1.2 m	50
BWD9MMX3.0X1.2	9mm Fibre Cement Sheet 9 mm x 3.0 m x 1.2 m	40

Other sizes may be available upon request.

## 2. Design

### RIGID WALL UNDERLAY (RWU)

A rigid wall underlay (RWU) must be installed in Extra High wind zones behind a flexible wall cladding and be associated with a drained cavity.

Sheets must be:

- › in accordance with Table 23 E2/AS1
- › Min. 6mm of thickness
- › Direct fixed to framing
- › Sheet edges to be fixed over solid framing
- › Be over fixed with Barricade WD or similar flexible wall underlay in accordance with 9.1.7.1 E2/AS1
- › Have the flexible underlay folded into opening reveals
- › Have cavity battens @ max. 600 crs
- › Be finished flush with underside of bottom plate or bearer

### CLADDING

Use within the scope of section 9 of E2/AS1.

Fibre cement sheet claddings can be direct fixed if they have a Risk score of between 0-6 (non-habitable buildings only).

Risk Score of 7- 20 will need be to be constructed on a nominal 20mm drained cavity.

For use on timber framing constructed in accordance with NZS3604 and steel framing in accordance with NZS3404.

Extra care is to be taken for claddings in Extra High Wind Zones which require:

- › Rigid underlays
- › Drained cavities



- › Hooks and hems on flashing upstands and additional 25mm height as per cl.4.6 E2/AS1

All cladding to be compliant with the following clauses of E2/AS1:

- › Construction - to be within the scope of cl.1.1
- › Weathertightness - cl.2.1
- › Maintenance - cl. 2.5
- › Cladding finish colour - cl.2.4
- › Durability - Refer Table 20 when 50 year durability is required
- › Installation - cl.9.7.2.1
- › Air barriers - cl.9.1.4 and Table 23
- › Wall underlays - cl 9.1.5 and 9.1.7
- › Drained cavities - cl.9.1.8

### **GENERAL PURPOSE**

For uses such as gable ends, car ports, sheds, soffit, and veranda linings, (excludes flush jointed) fibre cement sheet cladding.

Outbuildings such as stand alone garages and other structures that are unlined, are outside the scope of E2/AS1 and therefore the details provided may be in excess of the minimum required by the Building Code. This is particularly the case in regard to unlined and uninsulated buildings, where a drained cavity is unlikely to be necessary. However, care must be taken, as some weathertight details depend on the presence of an internal lining to provide pressure equalisation behind the cladding.

#### **In all situations above**

Timber Framing should be as per NZS3604, Steel framing as per NZS3404 and in both situations to E2 AS1. Timber framing should be 18 % Moisture content or below for best results (minimal movement from timber drying).

Select required materials for weather tightness as per E2 AS1 table 20, 21 and 22.

When installed as cladding or RWU the edges and cut notches of holes in the Masons Fibre Cement should be sealed with proprietary fibre cement edge sealer, or good quality primer sealer sprayed, brushed or roller applied.

#### **Sheet Layout:**

All sheet edges must be supported by framing and sheets should be installed vertically. Masons fibre cement sheet cladding can be jointed in several ways and they must be joined over framing support.

These details to be read in conjunction with E2 AS1 Fig. 104-117 for fibre cement sheet cladding (excludes flush finished fibre cement system).

Fixings as per Table 24 E2 AS1 and in accordance with corrosion resistance selected for the appropriate corrosion zone as per Table 1 NZS3604

#### **Sheet Fixing & Durability:**

- › Also refer Tables 20 & 21 E2/AS1 for material compatibility.
- › All nails to be minimum 12mm from sheet edges and a min. of 50mm horizontally and 150mm vertically from sheet
- › All other nailing to be at 150 crs
- › All nails to be driven flush with sheet surface



- All nails to be hand driven or gun nailed in accordance with the Alternative Fixing Method in the Masons Barricade Weather Defense System downloads

**Direct Fix**

40 x 2.8mm 304/316 Stainless steel clouts - Zone D

40 x 2.8mm hot dip galv (to comply with AS/NZS 4680) - Zones B & C

**Cavity Fix - up to Very High wind zone**

60 x 3.15mm 304/316 Stainless steel clouts - Zone D

60 x 3.15mm hot dip galv (to comply with AS/NZS 4680) - Zones B & C

**Cavity Fix - up to Extra High wind zone or 2.5kPa ULS wind pressure over RWU**

75 x 3.15mm 304/316 Stainless steel clouts - Zone D

75 x 3.15mm hot dip galv (to comply with AS/NZS 4680) - Zones B & C

**Bracing Sheets**

Refer Masons Barricade Weather Defense System for sheet fixings and Brace Types. [www.mpb.co.nz](http://www.mpb.co.nz) These can also be used for Masons direct fix sheet cladding bracing & RWU sheet bracing (excludes cavity fix cladding). All bracing sheets to have SS fixings.

Use Premium uPVC sheet jointers and cavity closers if required such as Masons Redway or similar.

Jointers, flashings, cover battens and sealants should be used as set out in E2 AS1 4.0, 9.7- 9.7.7 (excluding flush finished fibre cement sheet system).

Soudal Gorilla MS sealants are recommended for sealant joints.

The grade of the adjacent finished ground must slope away from the building to prevent water accumulation, in compliance with NZBC. The gap between the bottom edge of the cladding and the paved or unpaved ground must meet the requirements as outlined in Section 9.1.3 of E2/AS1.

**Limitations:**

Not to be used in the following situations:

- Buildings exceeding 10m in height
- When risk score is over 20
- When in contact with ground moisture

**Durability as an external cladding:**

To meet the required durability, Masons BWD Fibre Cement sheets installed externally should always be painted within 3 months of installation using premium quality self-priming acrylic paint 2-3 coats according to the paint manufacturer's instructions. uPVC flashings and jointers should also be coated. See E2 AS1 9.7.10.1.

Darker paint colours may lead to movement, cracking and premature fading and may be used at the owner's risk. Do not coat with colours with an LRV of below 40. Low sheen is recommended.

Paint should be washed down annually or sooner in coastal zones, and fixings, joints, sealant joints and flashings examined annually with any degraded components repaired promptly to maintain the designed weather tightness.



Cladding to ground clearances must always be maintained to achieve durability requirements.

## **TILE UNDERLAY**

Ideal for use in interior applications and suitable for wet and dry areas such as living spaces, kitchens, bathrooms and laundries. Provides a smooth surface for laying tiles, slate and vinyl over both new and existing timber, particleboard or plywood floors. Protects the finished tile floor from movement.

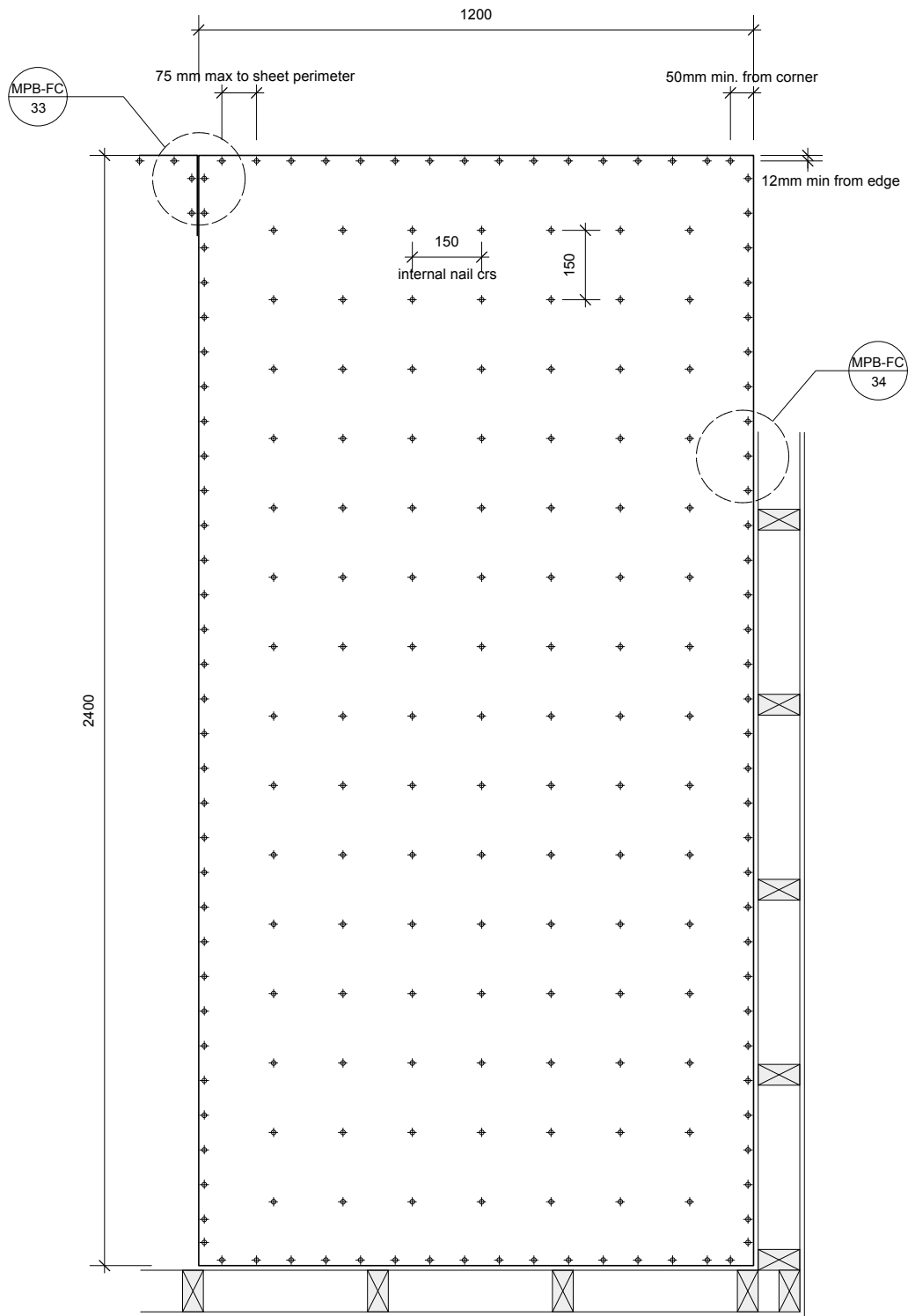
Masons tile underlay is a durable and moisture resistant substrate that will help minimise tile cracking and reduce damage from moisture, ensuring a strong, long lasting foundation.

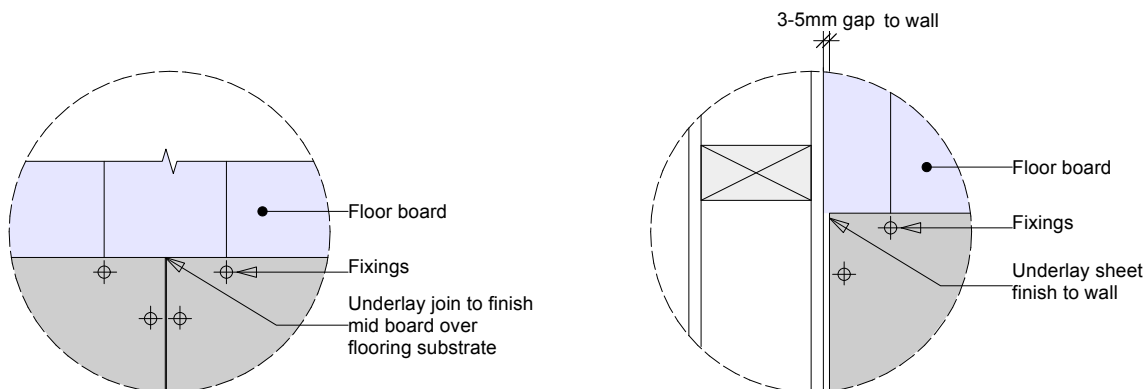
### **Framing Layout:**

- To be in accordance with NZS3604
- Reduce joist spans in NZS3604 by 20% for tiled floors
- Joists to be at max. 400 c/s
- Moisture content in the substrate that the underlay is fixing to must not exceed 16%

### **Sheet Layout:**

- Pieces less than 200mm wide should be avoided
- Lay sheets perpendicular to flooring substrate in a staggered brick pattern
- Leave 3-5mm between wall and floor - Refer detail MPB-FC-34
- Joints in the underlay should not line up with joints in the underlying substrate - Refer detail MPB-FC-33





MPB - FC-33

MPB - FC-34

#### Fixing of underlay:

- Over timber substrates use adhesive as well as nail fixings
- Pay particular attention to all sheet edges when applying adhesive
- Use flexible sealant between wall and sheet edge
- Nail from the centre out to ensure a finish flat
- Nail @ 150 crs to the main central area of the sheet
- Nail @ 75mm to sheet perimeter ensuring a min. of 12mm to sheet edge and 50mm to sheet corners
- Ensure nails are driven flush to the surface of the sheet
- Failure to achieve a smooth finish may cause defects to show through cork or vinyl coverings
- Underlay can be nailed only to hardwood floors but must be glued and nailed when fixing to softwood substrates such as particle board or plywood

#### Sheet Preparation for dry floor:

- Check the floor is level
- If uneven sand back before fixing underlay
- Repair existing floors prior to installation of underlay if required
- There should be no 'bounce' in the floor
- Ensure floor is clean, dust free and dry prior to installing underlay

#### Sheet Preparation for wet floor:

In addition to above:

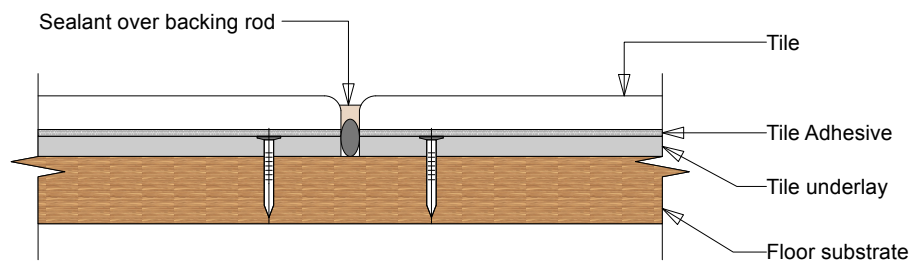
- Apply approved waterproof membrane to tile underlay
- Apply tiles with tile adhesive





### Control Joints:

- Provide joints at maximum 5m centres in both directions or where there is a change of direction or across any openings or doorways. Refer detail MPB-FC-35
- Across openings and doorways
- Control joint width should be similar to the tile grout width.

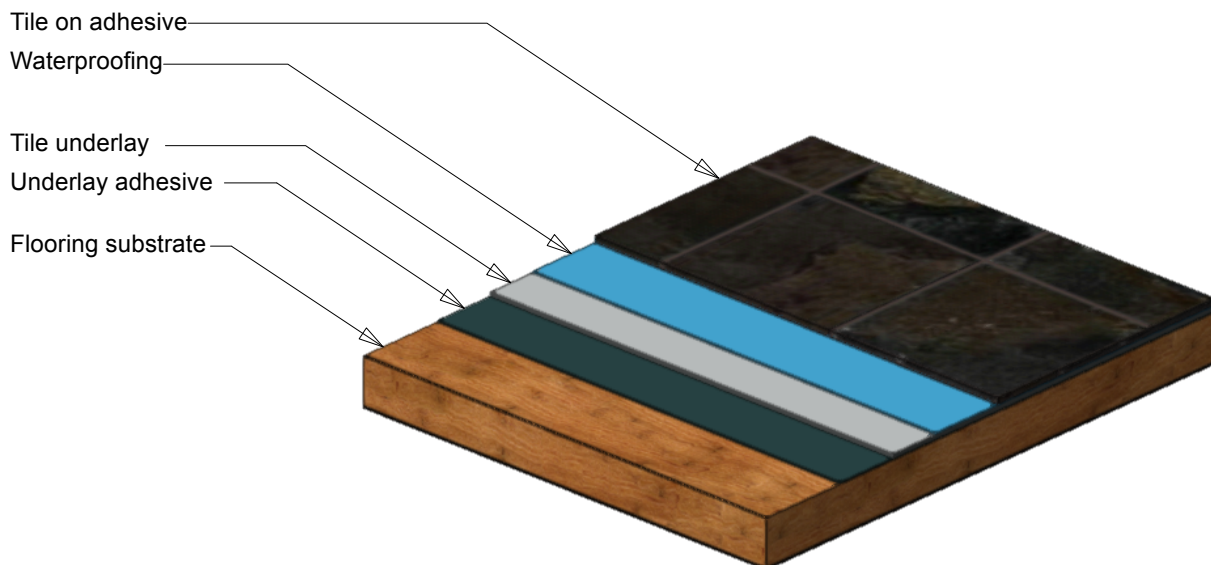


Movement Control Joint

### MPB - FC-35

### Waterproofing:

- All waterproofing to internal wet areas to be in accordance with AS3740 and manufacturers specifications
- Prior to application the floor must be dry and free from dust and dirt.





### 3. Installation safety

Masons Fibre Cement Sheets are manufactured from New Zealand cellulose fibre, silica Portland cement and additives. When drilling cut or sanded using power tools cellulose fibres, silica and calcium silicate dust are released. Breathing in fine silica dust is hazardous, breathing in or ingesting the dust produced by such operations **MUST** be avoided.

After cutting, sanding, grinding, or drilling fibre cement board, wash hands before eating drinking or smoking

### 4. Cutting to size on site

Masons recommend using the score and snap cutting method to minimise dust production. Snap Score the sheet face 4 or 5 times with a fibre cement 'score and snap' knife. Support the scored edge and snap the sheet upward for a clean break.

A fibre cement sheet hand guillotine may also be used. Cut on the off-cut side of the line to allow for the blade thickness.

If using power tools for cutting, drilling, or sanding they must be fitted with appropriate dust collection devices. An approved correctly fitting respiratory dust mask and safety glasses should be worn. Carry out cutting in a well-ventilated room if access to outside is limited.

Eye and ear protection is essential. Gloves are recommended.

### 5. Handling

Masons Fibre Cement Sheets should be stacked flat, up off the ground and supported on level dunnage. Where possible store the sheets on the pallet they are delivered on. The sheets must be kept dry. When stored outdoors they must be protected from the weather. Care should be taken to avoid damage to the ends, edges, and surfaces. Sheets must be dry prior to being fixed, or painted. Sheets must be carried on edge.

### 6. Details – PDF



Masons Fibre Cement Sheet

Base Cladding Detail - Direct Fix  
Non-habitable

Scale:

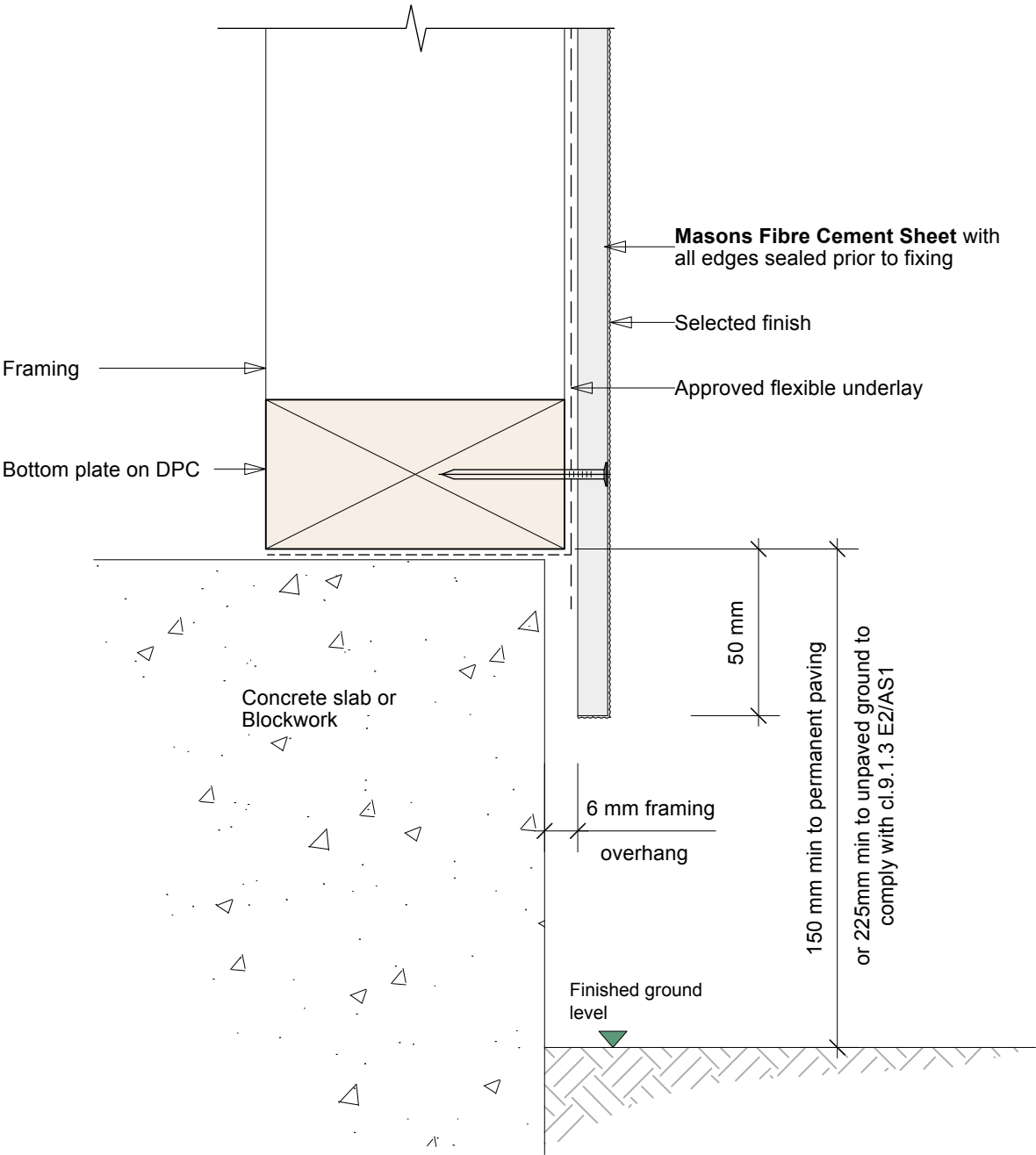
1:2

Date:

10/02/25

Drawing No.

MPB - FC-01



**Notes:**  
When 50 year durability is required please refer to Table 20 of the NZBC  
Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar



**MASONS**  
Designed Smart, Built Tough.

Masons Fibre Cement Sheet

Scale:

1:2

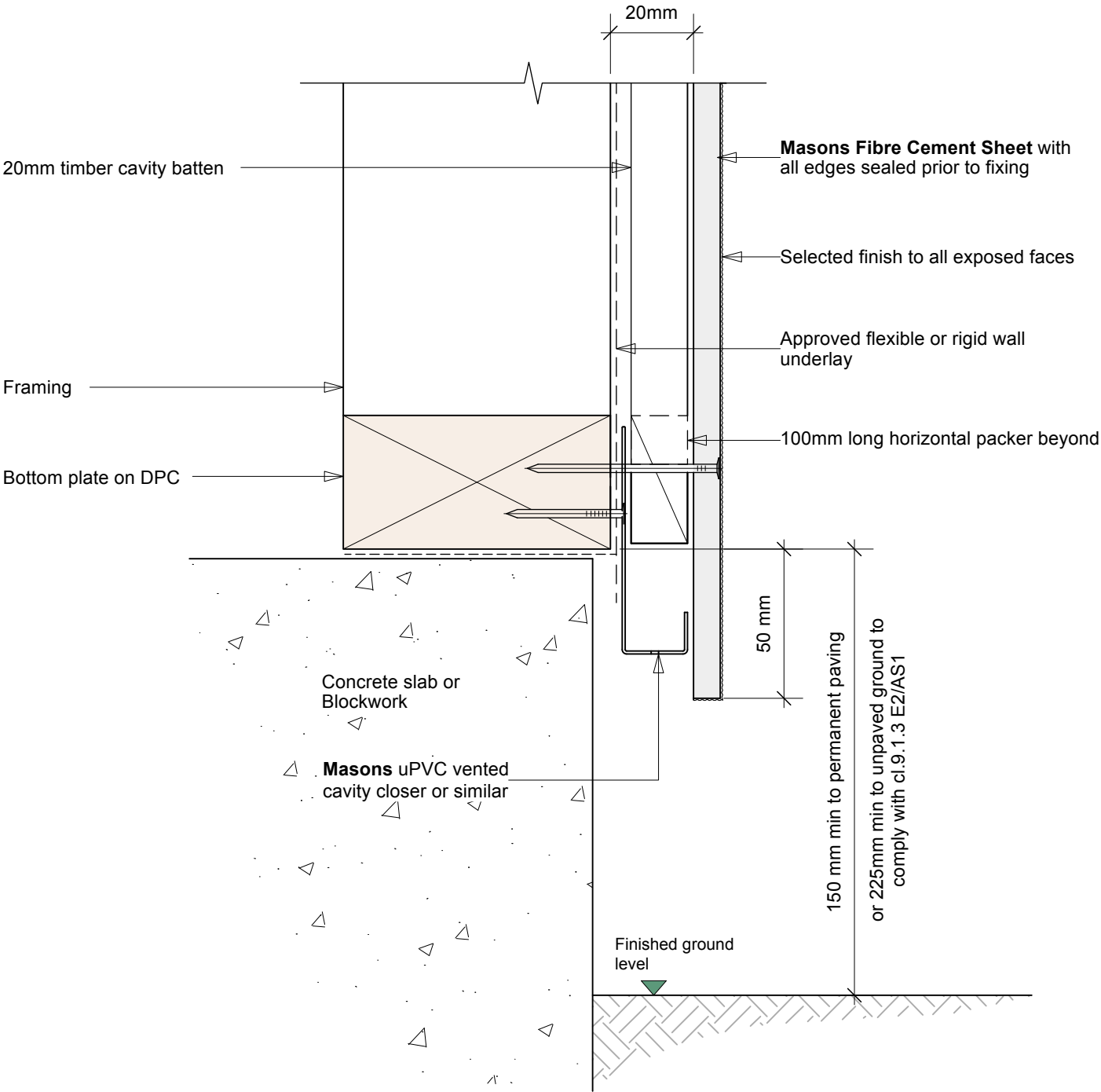
Date:

10/02/25

Drawing No.

MPB - FC-02

Base Cladding Detail - Cavity Fix



**Notes:**  
When 50 year durability is required please refer to Table 20 of the NZBC  
Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Vertical uPVC Joints

Scale:

1:2

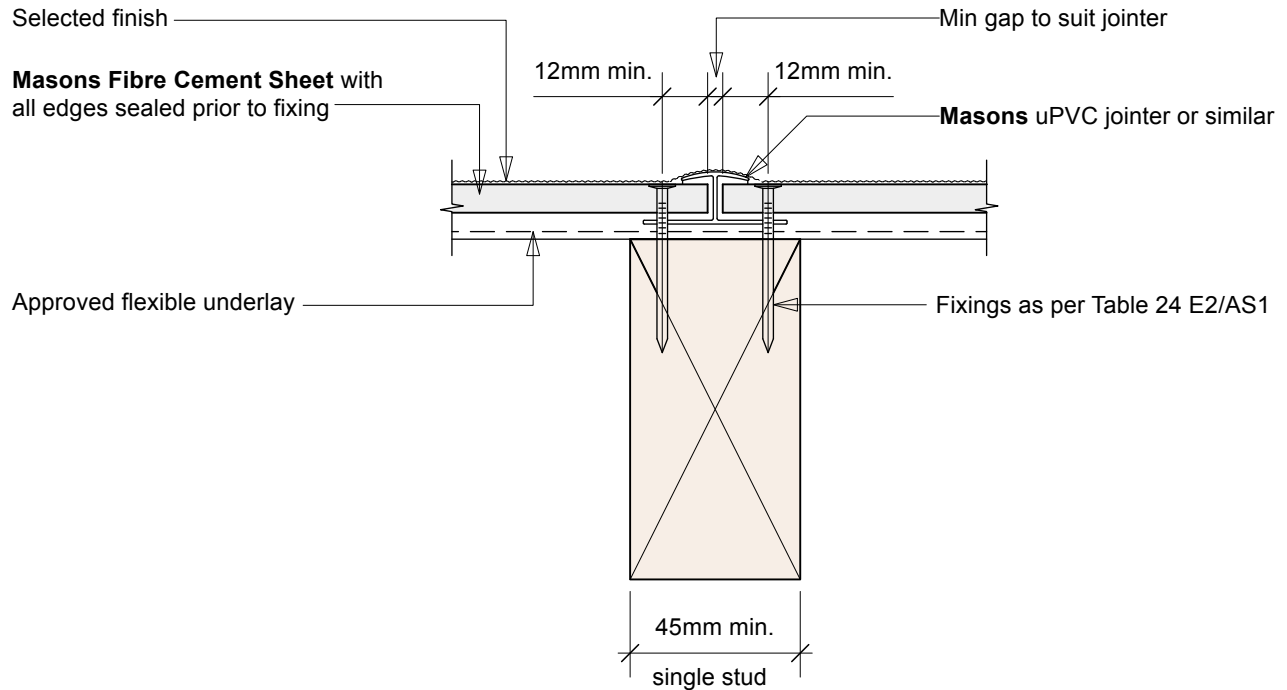
Date:

10/02/25

Drawing No.

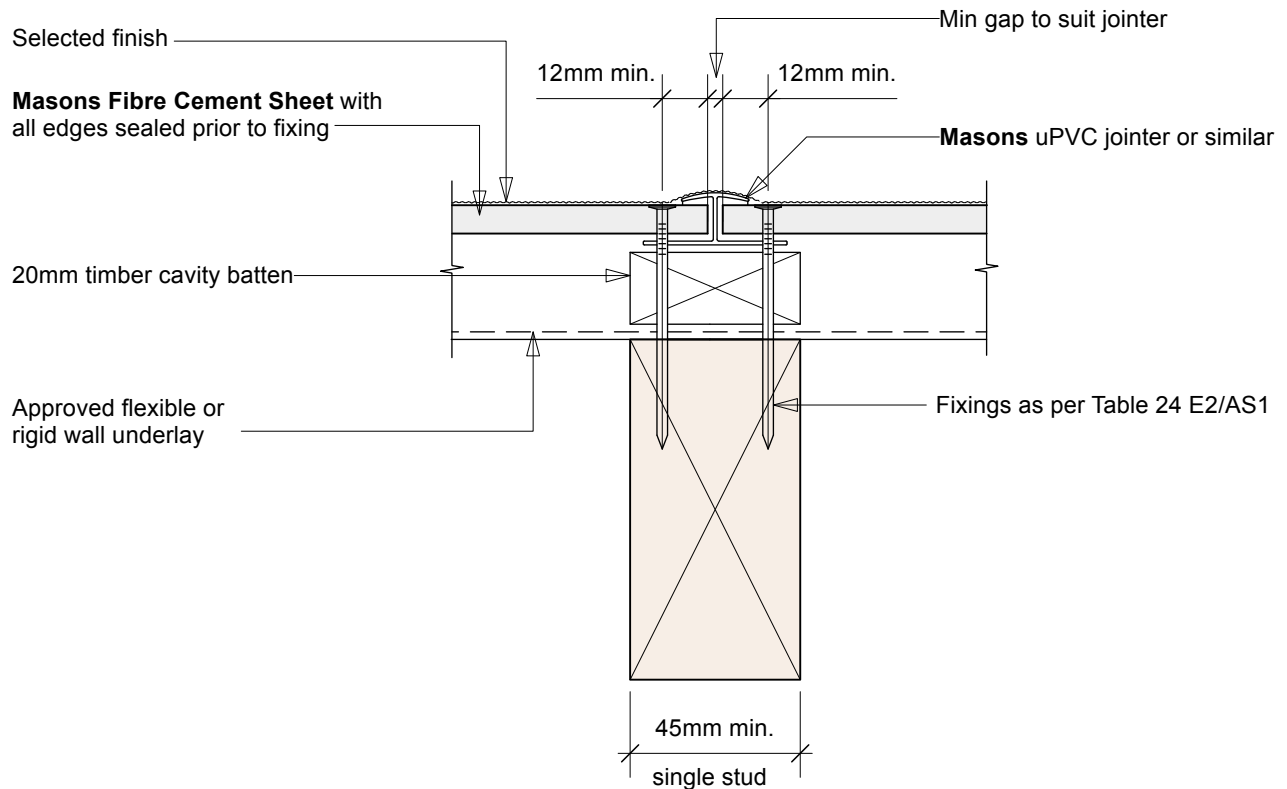
**MPB - FC-03**

**MPB - FC-04**



**Direct Fix - non habitable**

**MPB - FC-03**



**Cavity Fix**

**MPB - FC-04**

### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

Date:

10/02/25

Drawing No.

MPB - FC- 05

MPB - FC- 06

### Vertical timber Batten Joints

Ex 75mm x 25mm min preprimed H3 treated weathergrooved timber batten

Selected finish

**Masons Fibre Cement Sheet** with all edges sealed prior to fixing

Approved flexible underlay

12mm min.

12mm min.

2mm gap

Battens to be fixed with 2/65 x 2.8mm jolt head nails at 400 crs.

Fixings as per Table 24 E2/AS1

45mm min.

single stud

#### Note:

When 50 year durability is required please refer to Table 20 of the NZBC

### Direct Fix - non habitable

MPB - FC-05

Ex 75mm x 25mm min preprimed H3 treated weathergrooved timber batten

Selected finish

**Masons Fibre Cement Sheet** with all edges sealed prior to fixing

Approved flexible or rigid wall underlay

12mm min.

12mm min.

2mm gap

Battens to be fixed with 2/65 x 2.8mm jolt head nails at 400 crs.

Fixings as per Table 24 E2/AS1

45mm min.

single stud

#### Note:

When 50 year durability is required please refer to Table 20 of the NZBC

### Cavity Fix

MPB - FC-06

#### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar

**MASONS**  
Designed Smart, Built Tough.**Masons Fibre Cement Sheet**Internal Corner uPVC Joint  
Direct Fix - non habitable

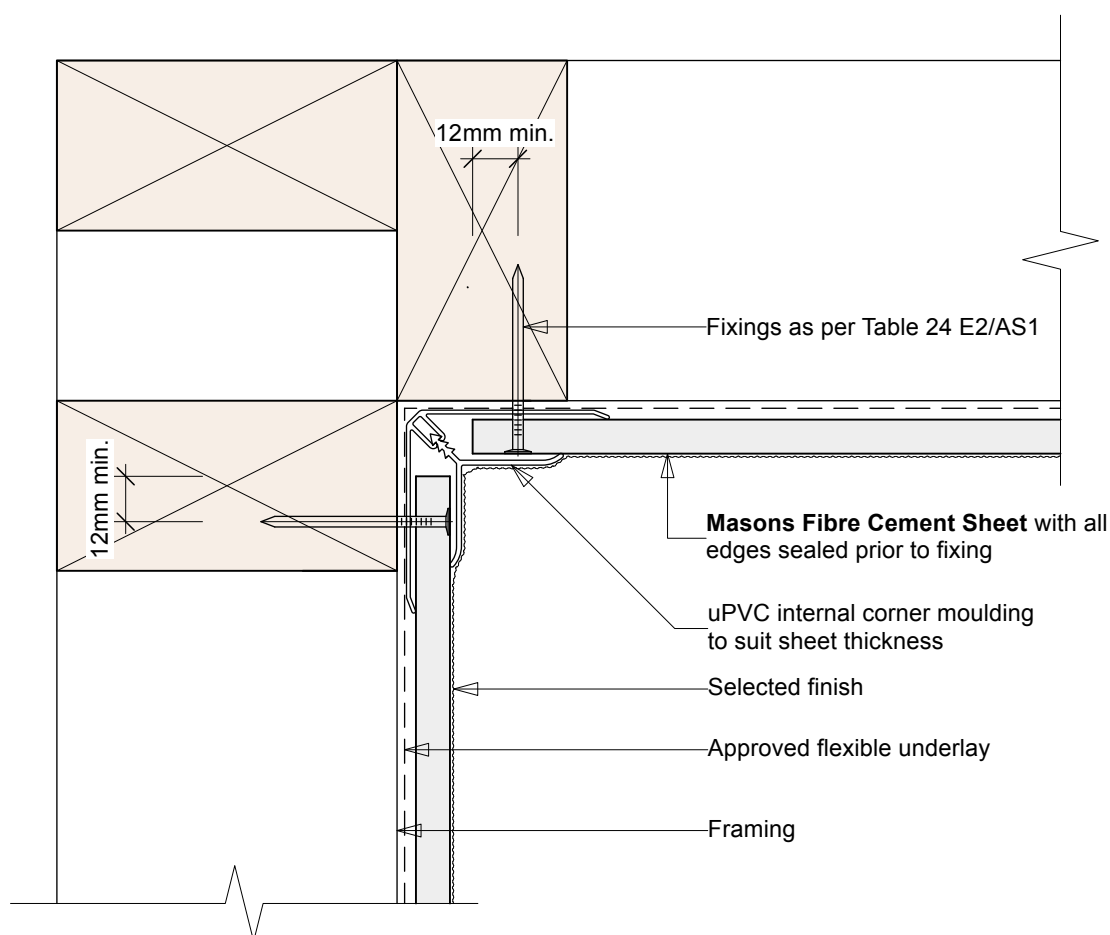
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-07****Notes:**

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar

**MASONS**  
Designed Smart, Built Tough.**Masons Fibre Cement Sheet**Internal Corner uPVC Joint  
Cavity Fix

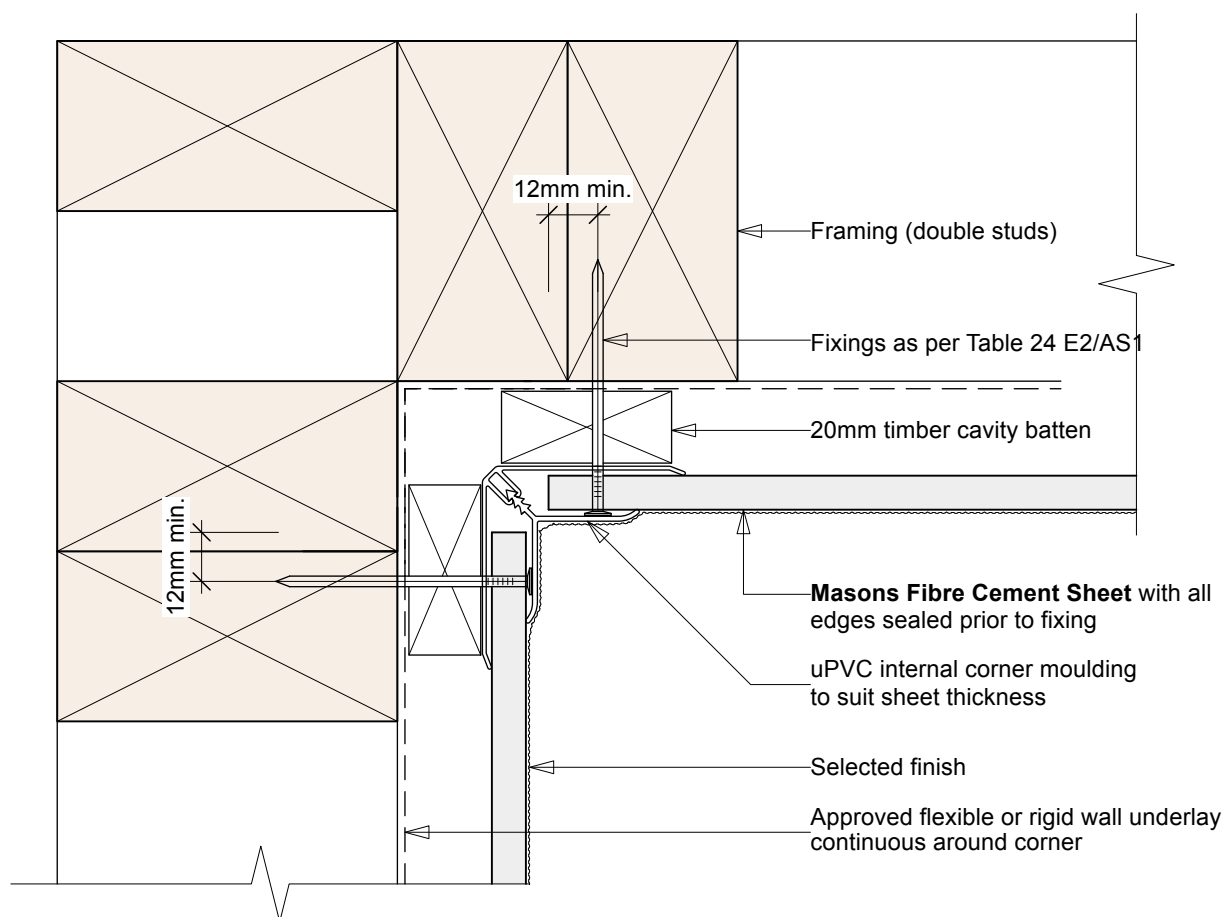
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-08****Notes:**

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar





**MASONS**  
Designed Smart, Built Tough.

Masons Fibre Cement Sheet

Timber Batten Internal Corner  
Joint - Direct Fix - non habitable

Scale:

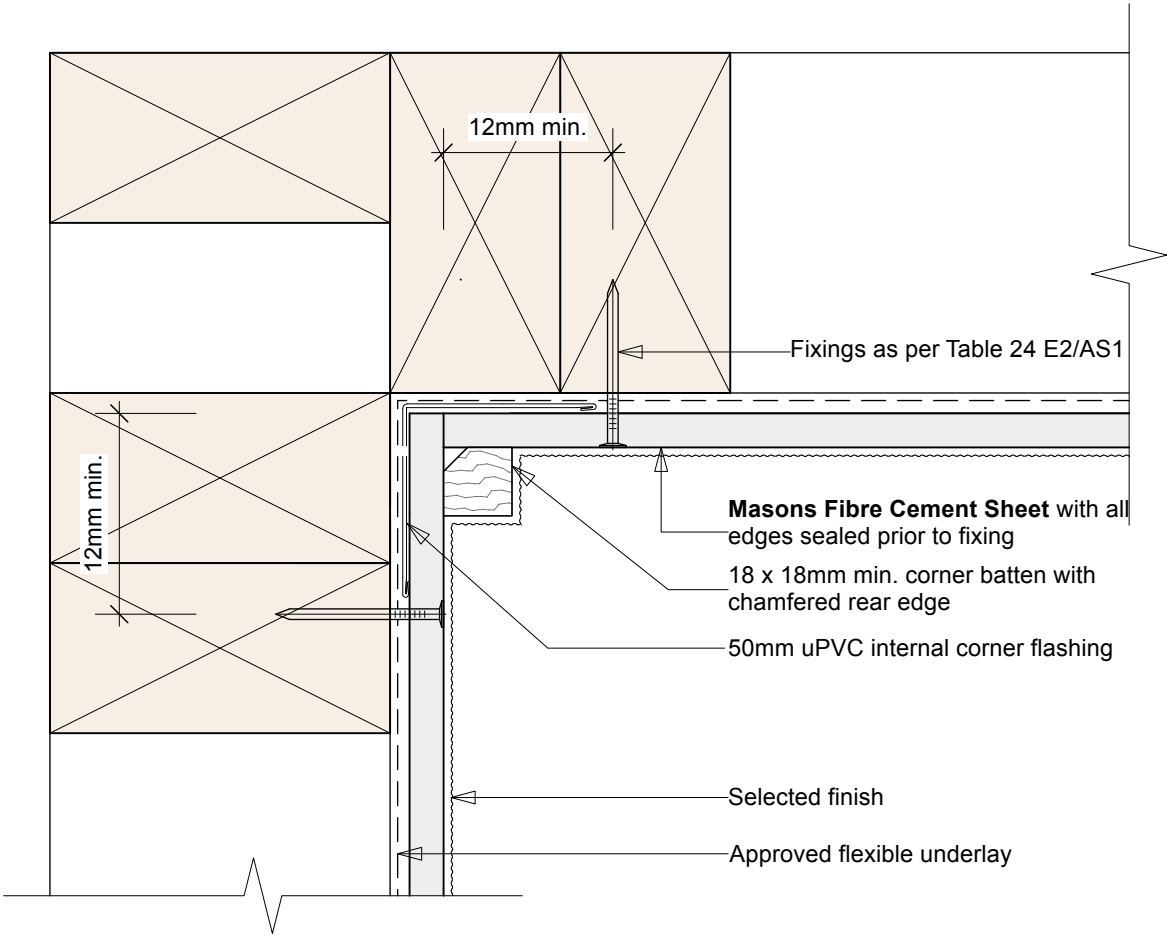
1:2

Date:

10/02/25

Drawing No.

MPB - FC-09



**Notes:**  
When 50 year durability is required please refer to Table 20 of the NZBC  
Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

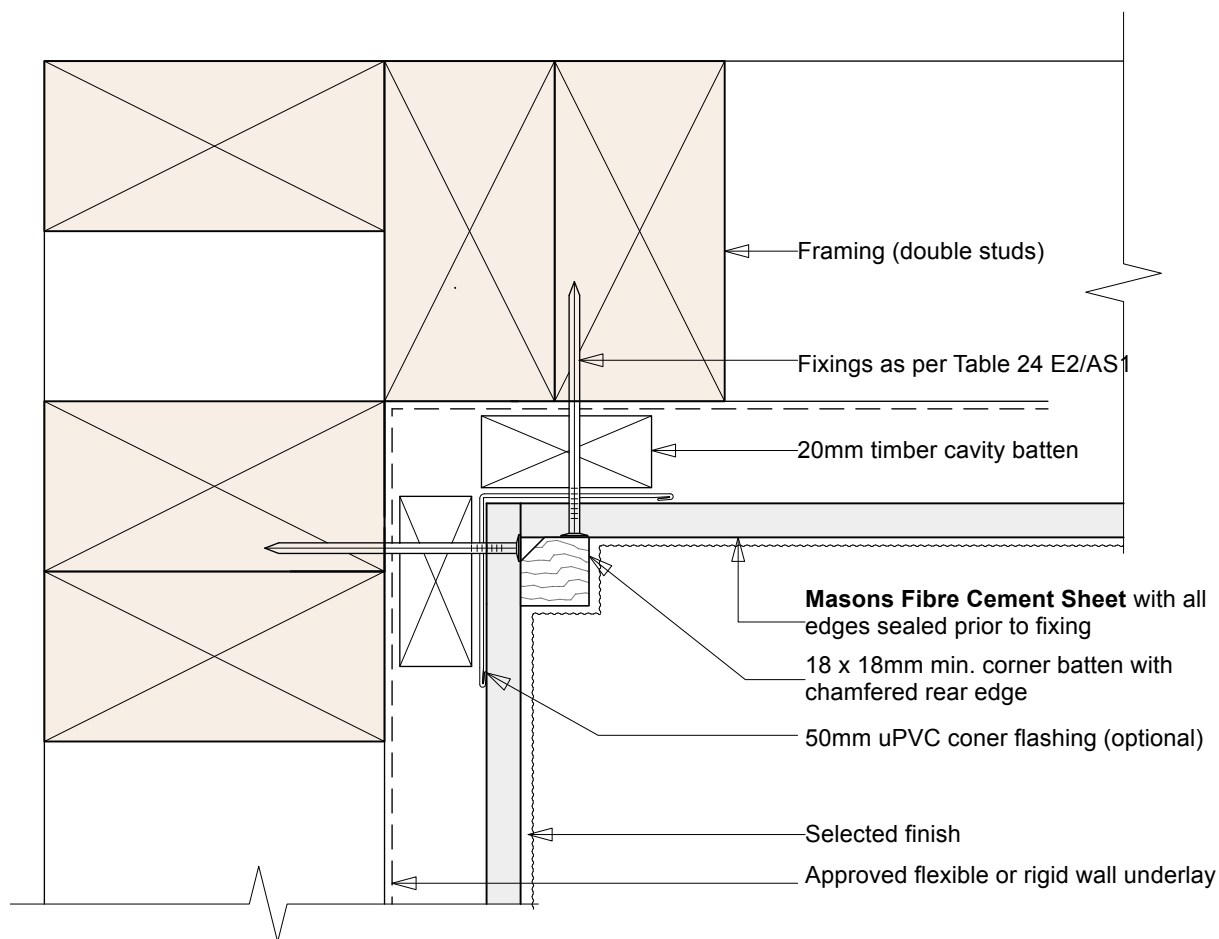
Date:

10/02/25

Drawing No.

Timber Batten Internal Corner - Cavity Fix

**MPB - FC-10**



### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

uPVC External Corner Joint - Direct Fix  
non habitable

Scale:

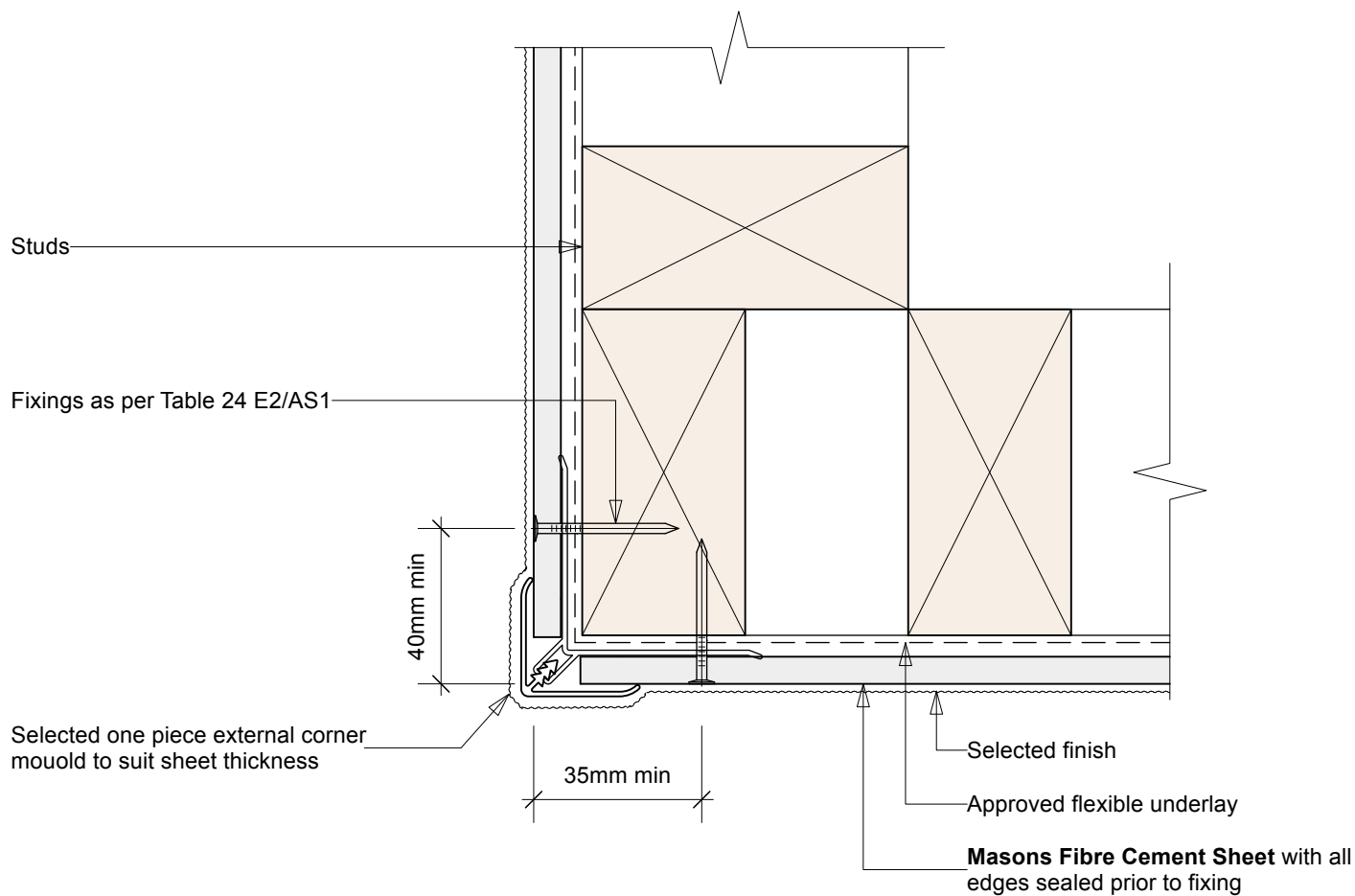
1:2

Date:

10/02/25

Drawing No.

**MPB - FC-11**



### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

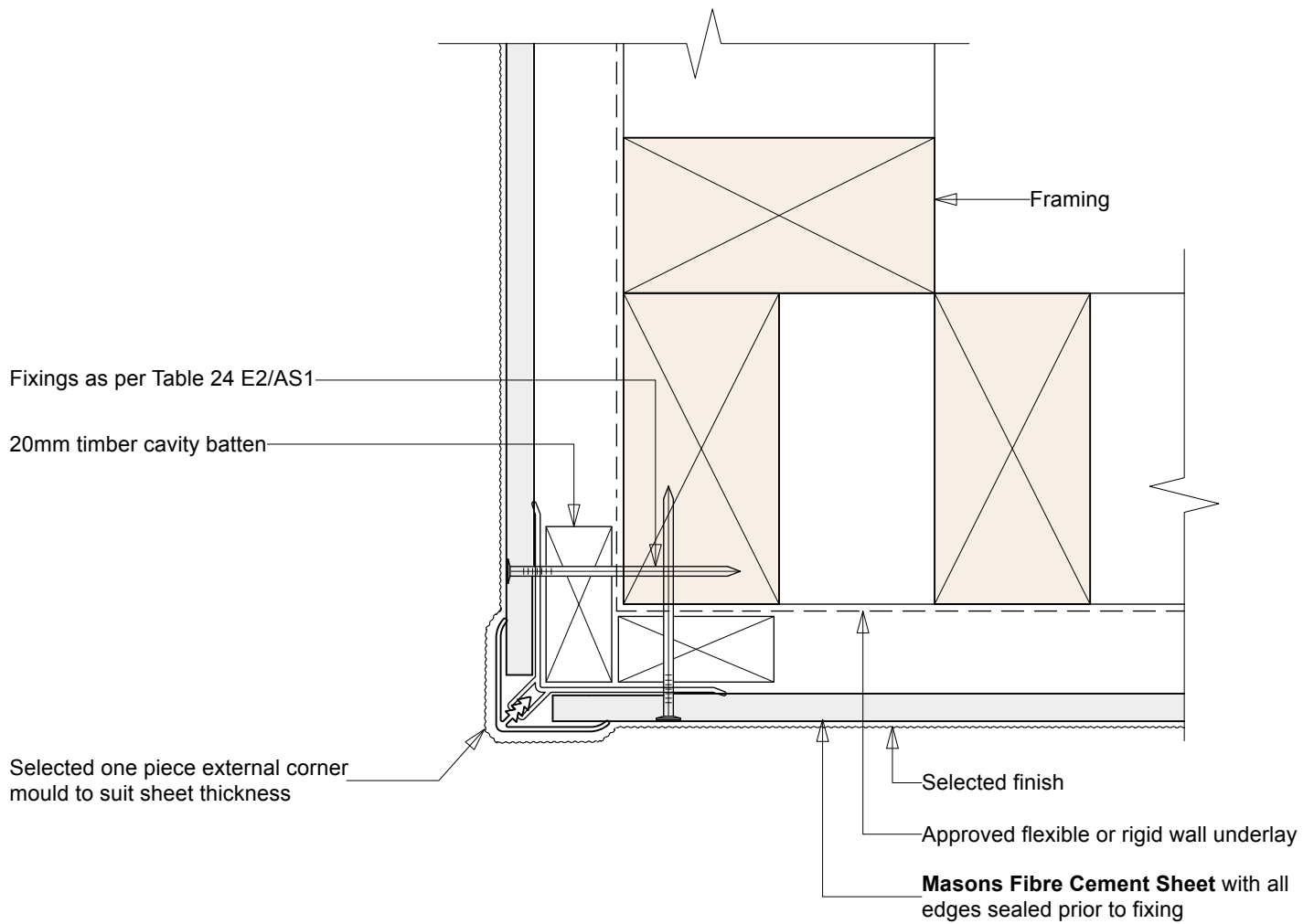
Date:

10/02/25

uPVC External Corner Joint - Cavity Fix  
non habitable

Drawing No.

**MPB - FC-12**



### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Timber Batten External Corner  
Joint - Direct Fix - non habitable

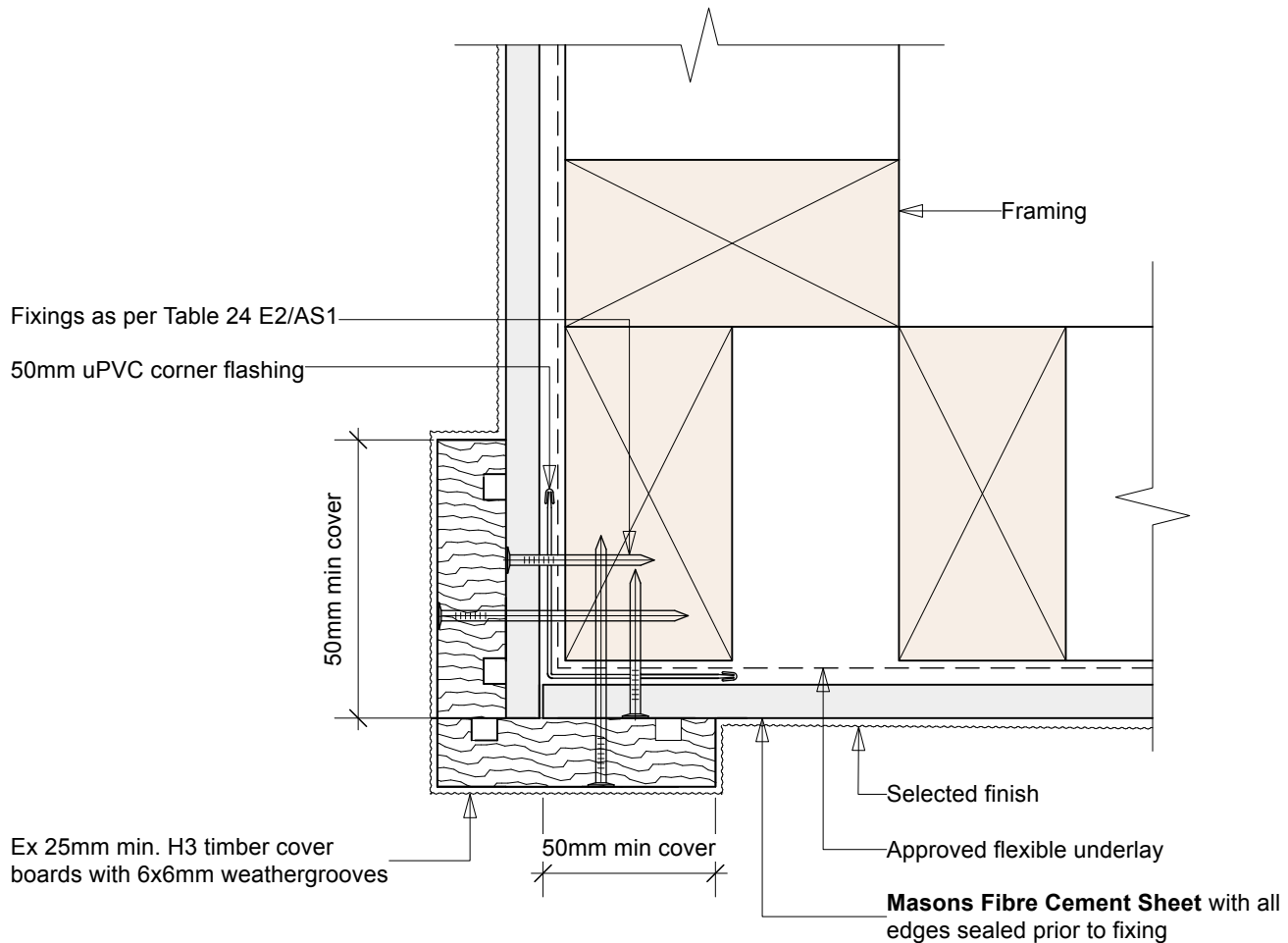
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-13**

### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC  
Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Timber Batten External Corner  
Joint - Cavity Fix

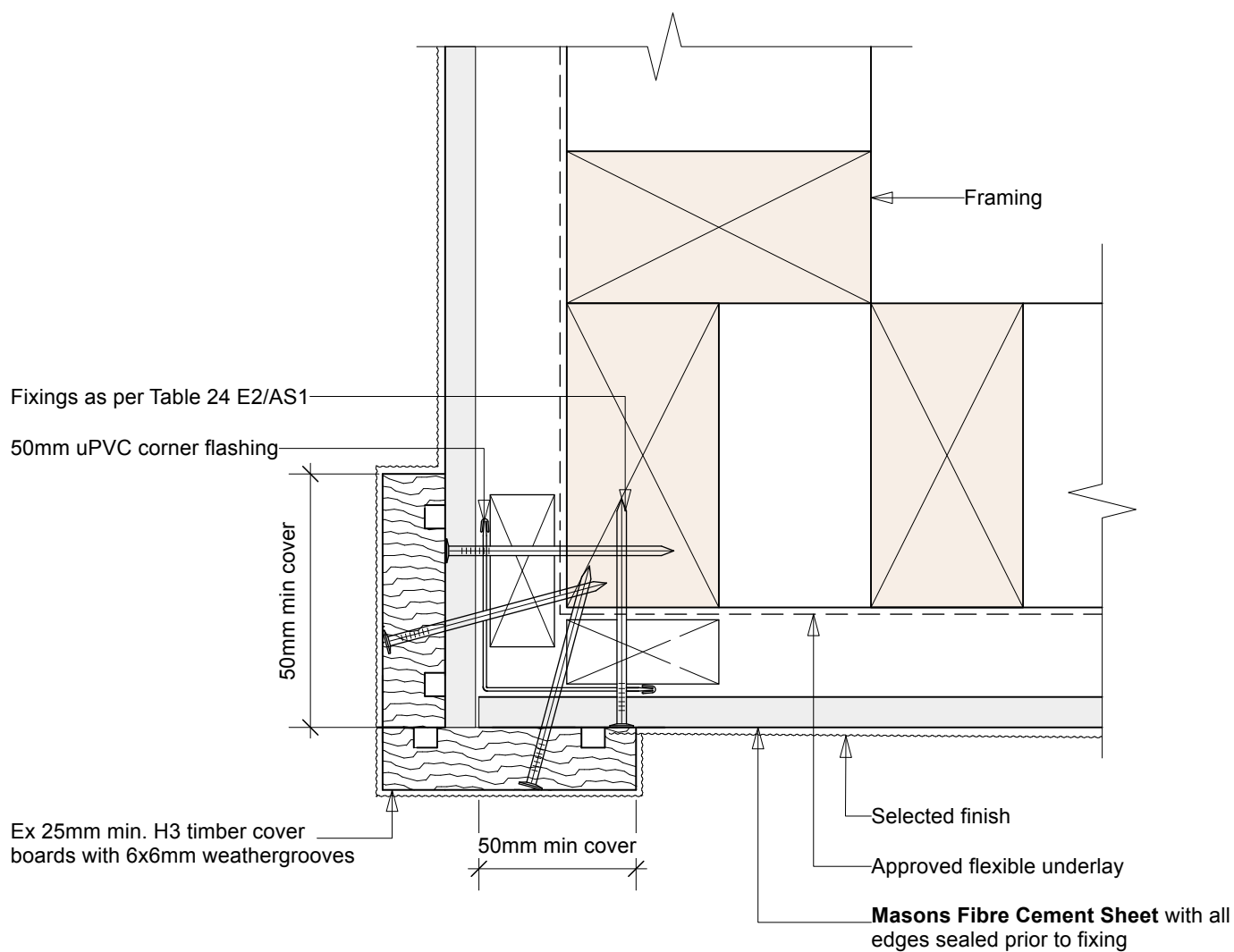
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-14**

### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Horizontal Joint - Direct Fix  
non habitable

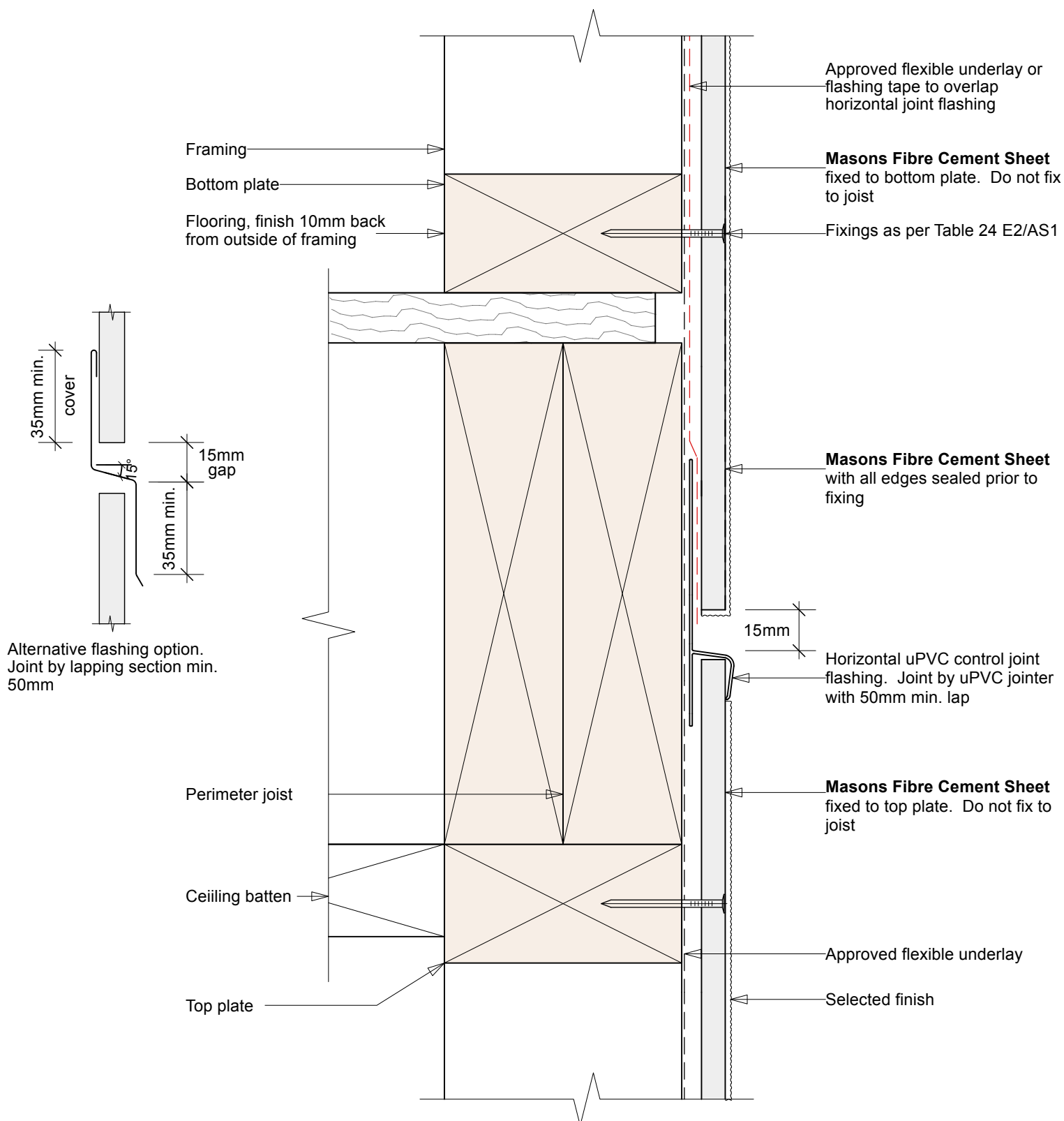
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-15**

### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

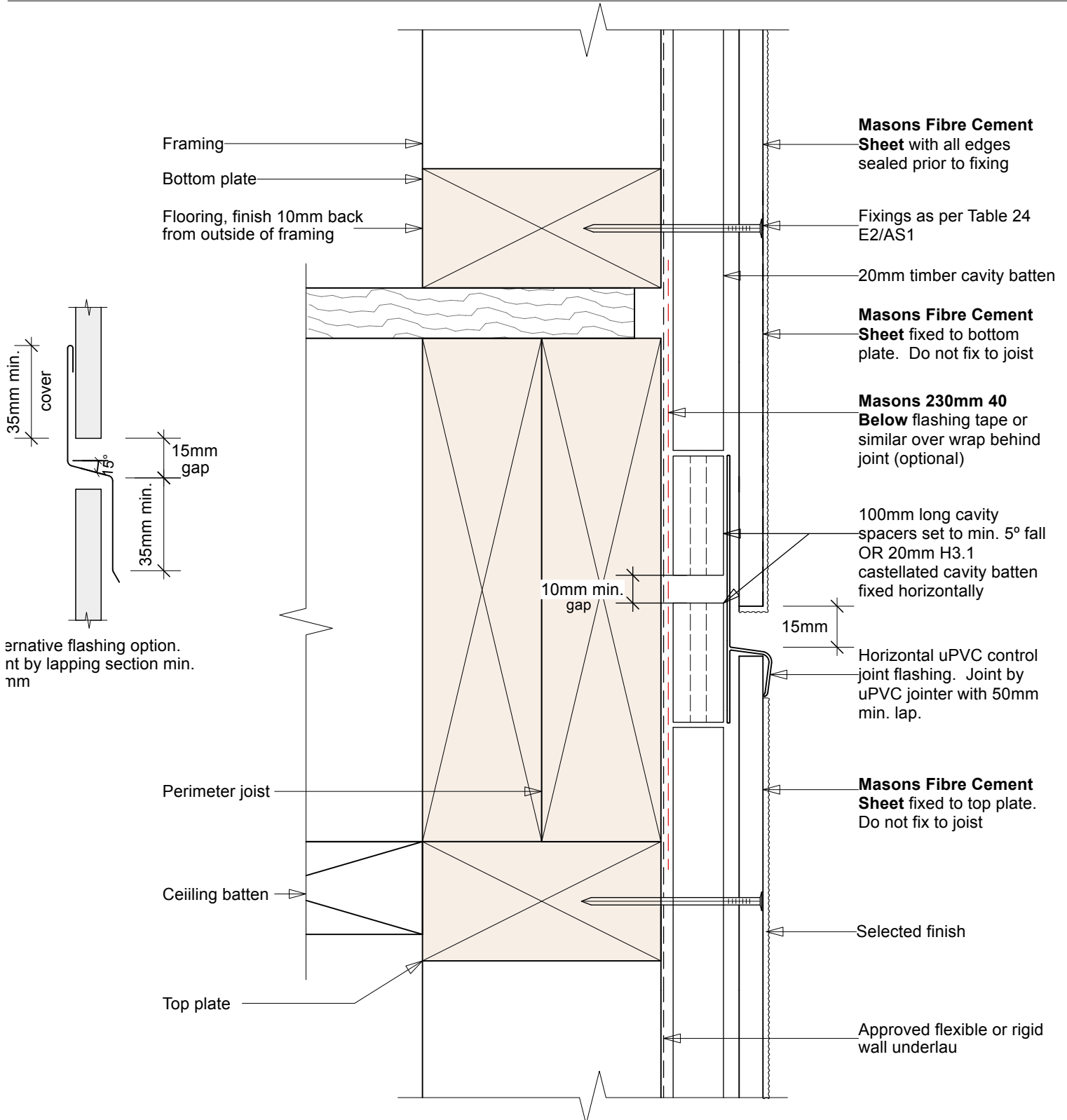
Date:

10/02/25

Drawing No.

**MPB - FC-16**

### Horizontal Joint - Cavity Fix



#### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar

Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar

Only suitable for up to 2 storeys or 7m in height. For cavities over 2 storeys in height. Refer to Fig.70 E2/AS1





**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

Date:

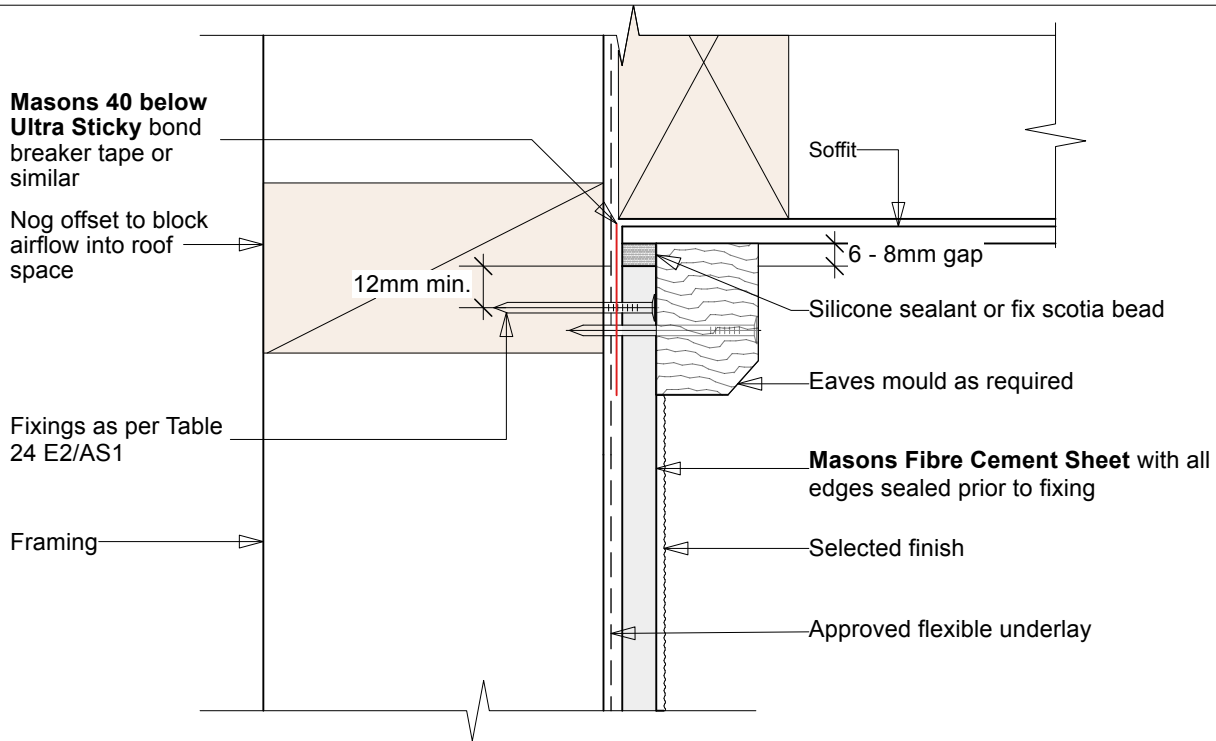
10/02/25

Drawing No.

MPB - FC-17

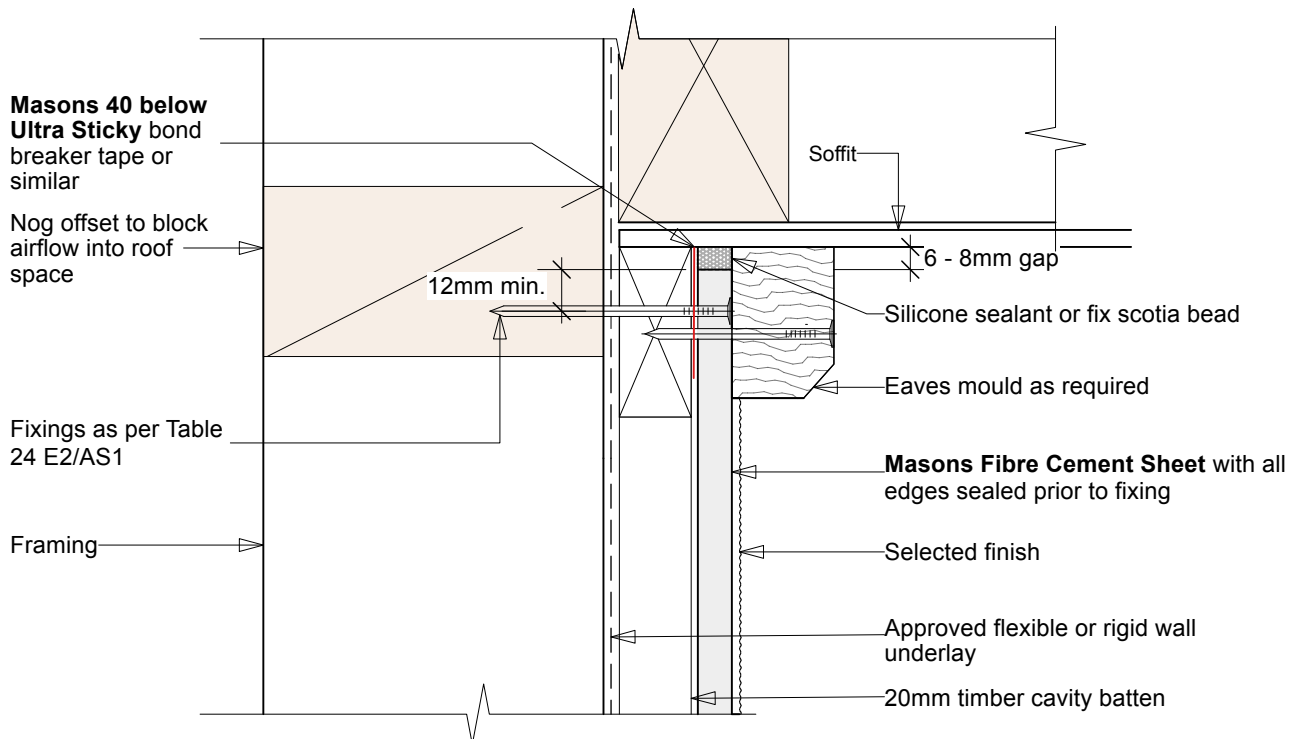
MPB - FC-18

### Soffit Details



### Direct Fix - non habitable

MPB - FC-17



### Cavity Fix

MPB - FC-18

#### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Window Head Detail - Direct Fix  
non habitable

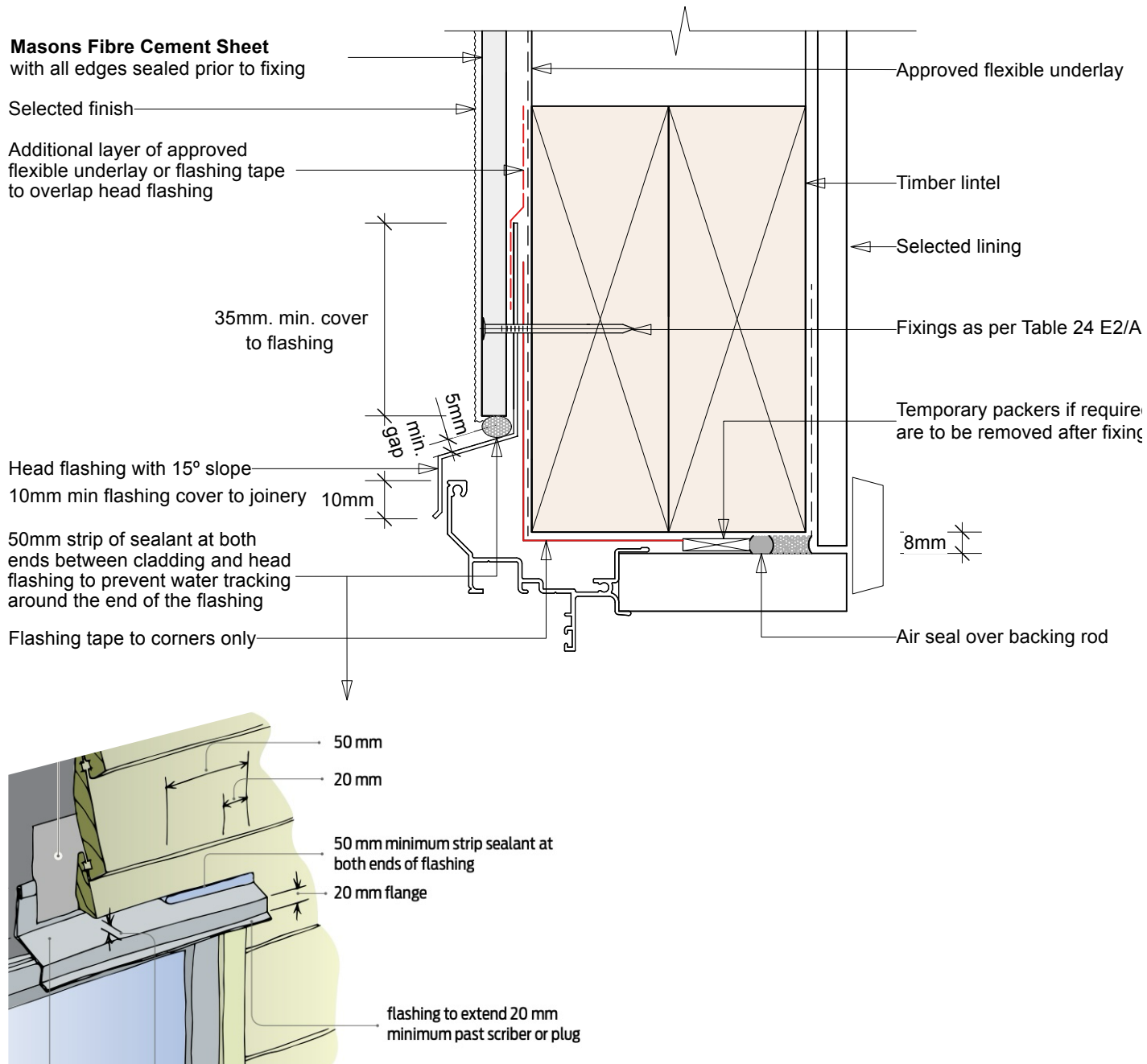
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-19**

Showing 50mm sealant to corners - similar

### Notes:

- 1) To be read in conjunction with Fig.115 E2/AS1
- 2) Window profile to be selected to achieve cover shown in details
- 3) Architraves are shown for consistency only, detail may be used with rebated liner
- 4) Refer Fig. 72A E2/AS1 for wrapping of framed opening prior to window installation
- 5) Refer Fig. 71C E2/AS1 for metal head flashing sealant for **Very High and Extra High wind zones**
- 6) When 50 year durability is required please refer to Table 20 of the NZBC
- 7) Approved Masons flexible underlays: Uni Plus, Unit Pro, Barricade FR or similar
- 8) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

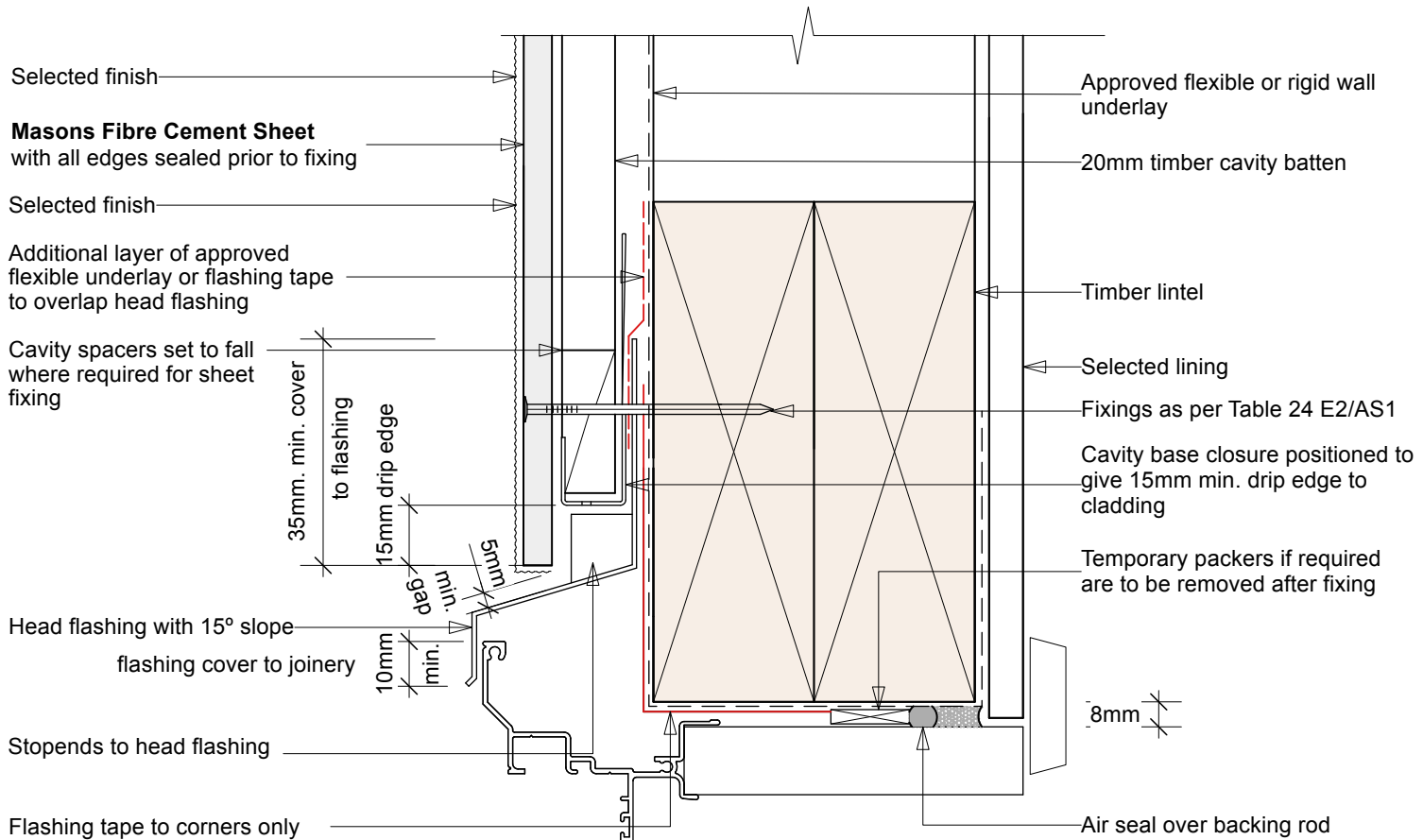
Date:

10/02/25

Drawing No.

**MPB - FC-20**

### Window Head Detail - Cavity Fix



#### Notes:

- 1) To be read in conjunction with Fig.116 E2/AS1
- 2) Window profile to be selected to achieve cover shown in details
- 3) Architraves are shown for consistency only, detail may be used with rebated liner
- 4) Refer Fig. 72A E2/AS1 for wrapping of framed opening prior to window installation
- 5) Refer Fig. 71C E2/AS1 for metal head flashing sealant for **Very High and Extra High wind zones**
- 6) When 50 year durability is required please refer to Table 20 of the NZBC
- 7) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar
- 8) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

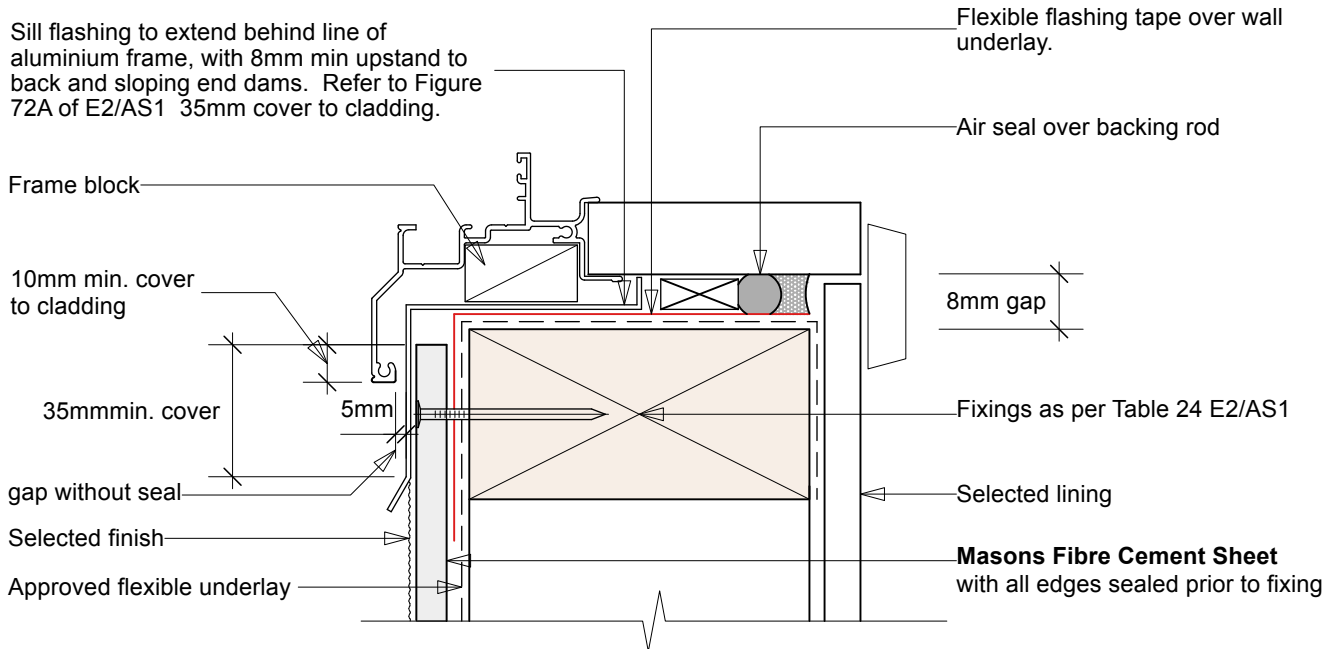
Date:

10/02/25

Drawing No.

**MPB - FC-21****MPB - FC-22**

### Window Sill Details

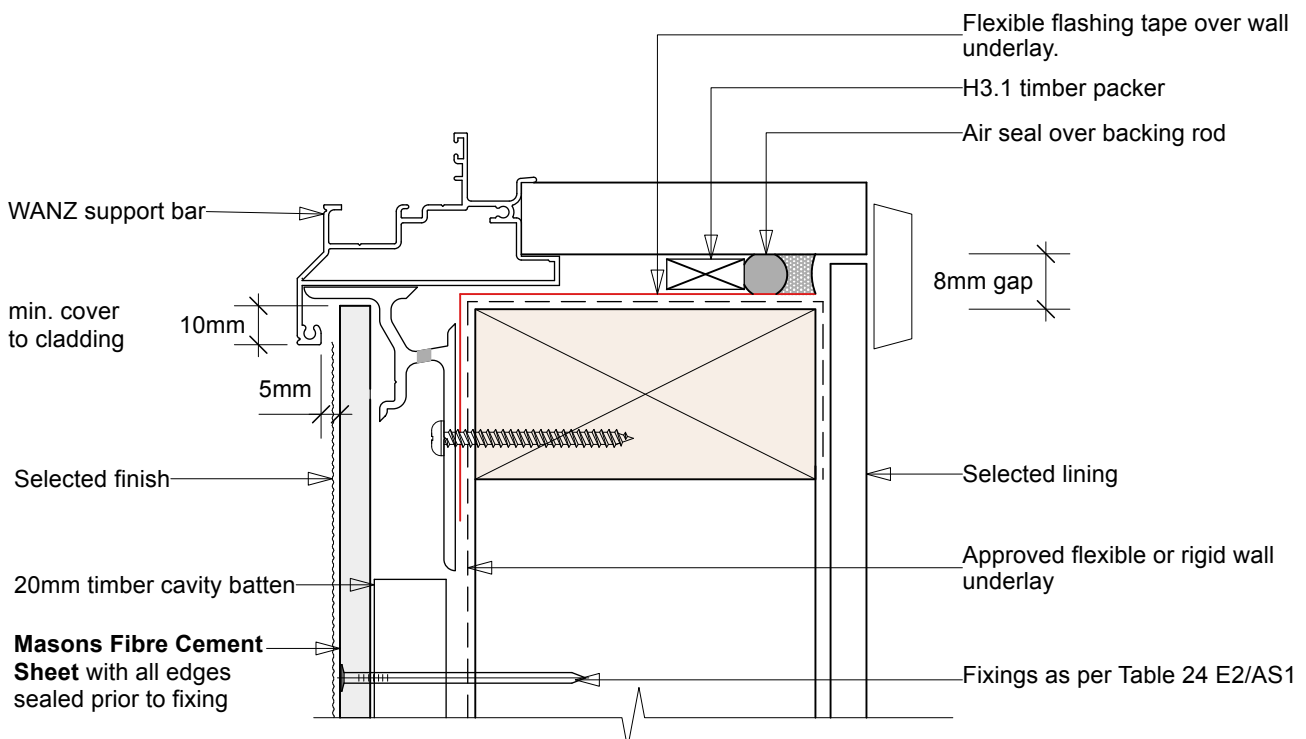


### Direct Fix - non habitable

**MPB - FC-21**

#### Notes:

- 1) To be read in conjunction with Fig.115 and 116 E2/AS1
- 2) Window profile to be selected to achieve cover shown in details
- 3) Architraves are shown for consistency only, detail may be used with rebated liner
- 4) Refer Fig. 72A E2/AS1 for wrapping of framed opening prior to window installation
- 5) For flashing materials refer to Table 20 E2/AS1 & NZS3604.
- 6) Underlays and flashings tapes to comply with E2/AS1 - refer manufacturers specifications
- 7) Approved Masons underlays: Uni Plus, Uni Pro, Barricade FR, Barricade Weather Defense System or similar
- 8) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar
- 9) Sill support bart required conforming with EM6 and Paragraph 9.1.10.5, refer Fig. 72B



### Cavity Fix

**MPB - FC-22**



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

Date:

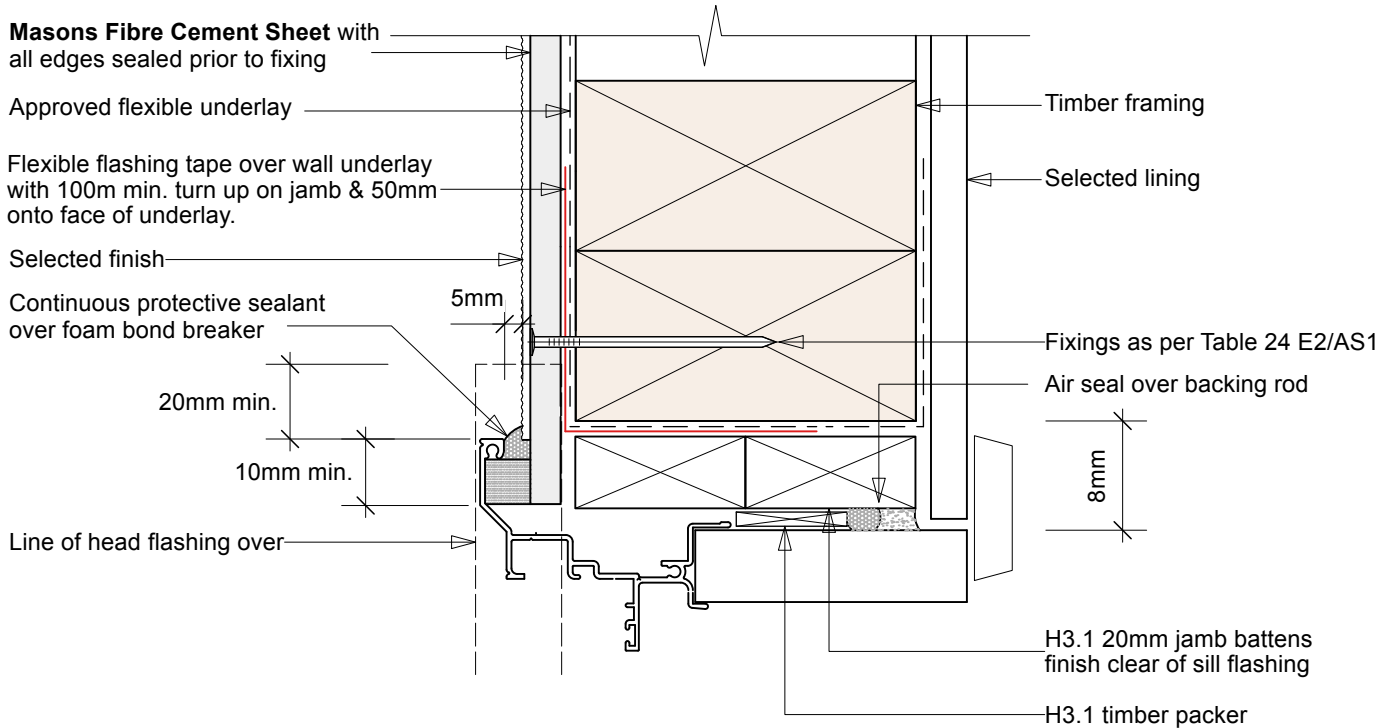
10/02/25

Drawing No.

MPB - FC-23

MPB - FC-24

### Window Jamb Details

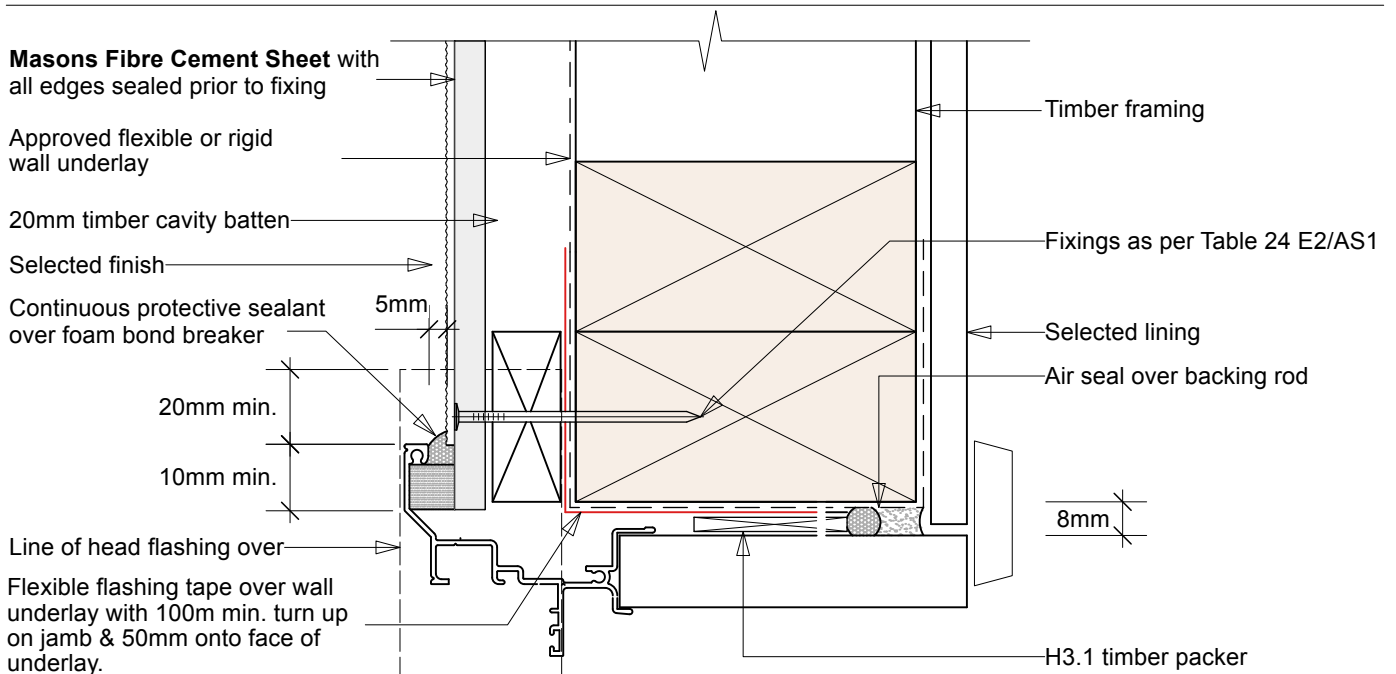


### Direct Fix - non habitable

MPB - FC-23

#### Notes:

- 1) To be read in conjunction with Fig.115 and 116 E2/AS1
- 2) Window profile to be selected to achieve cover shown in details
- 3) Architraves are shown for consistency only, detail may be used with rebated liner
- 4) Refer Fig. 72A E2/AS1 for wrapping of framed opening prior to window installation]
- 5) Underlays and flashings tapes to comply with E2/AS1 - refer manufacturers specifications
- 6) Approved Masons underlays: Uni Plus, Uni Pro, Barricade FR, Barricade Weather Defense System or similar
- 7) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar



### Cavity Fix

MPB - FC-24



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

Scale:

1:2

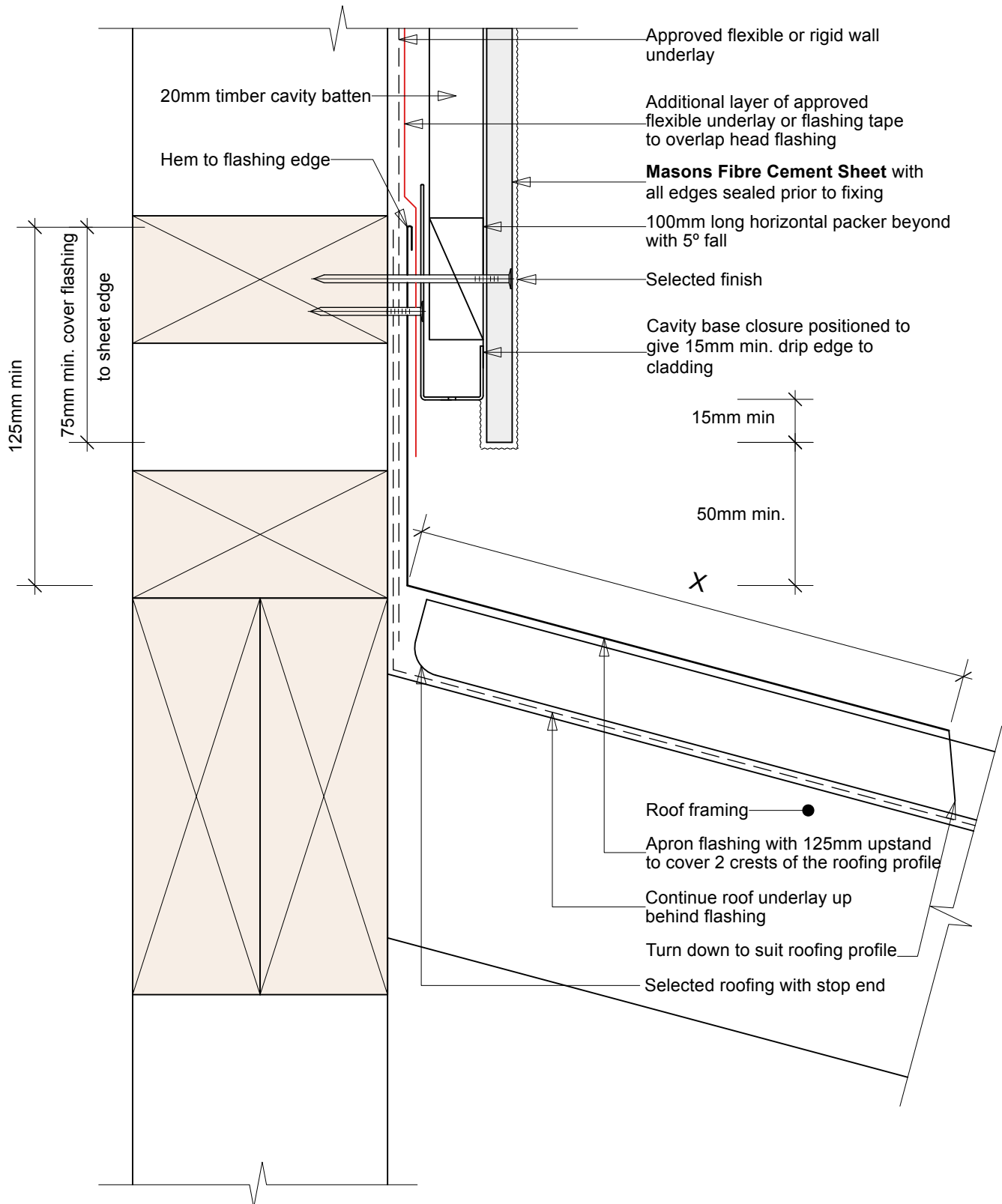
Date:

10/02/25

Drawing No.

**MPB - FC-25**

### Transverse Apron Flashing Detail



#### Notes:

- 1) When 50 year durability is required please refer to Table 20 of the NZBC
- 2) Underlays and flashings tapes to comply with E2/AS1 - refer manufacturers specifications
- 3) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar
- 4) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar
- 5) 'X' - Refer Fig.44 and Table 7 of. E2/AS1



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

### Parallel Apron Flashing Detail

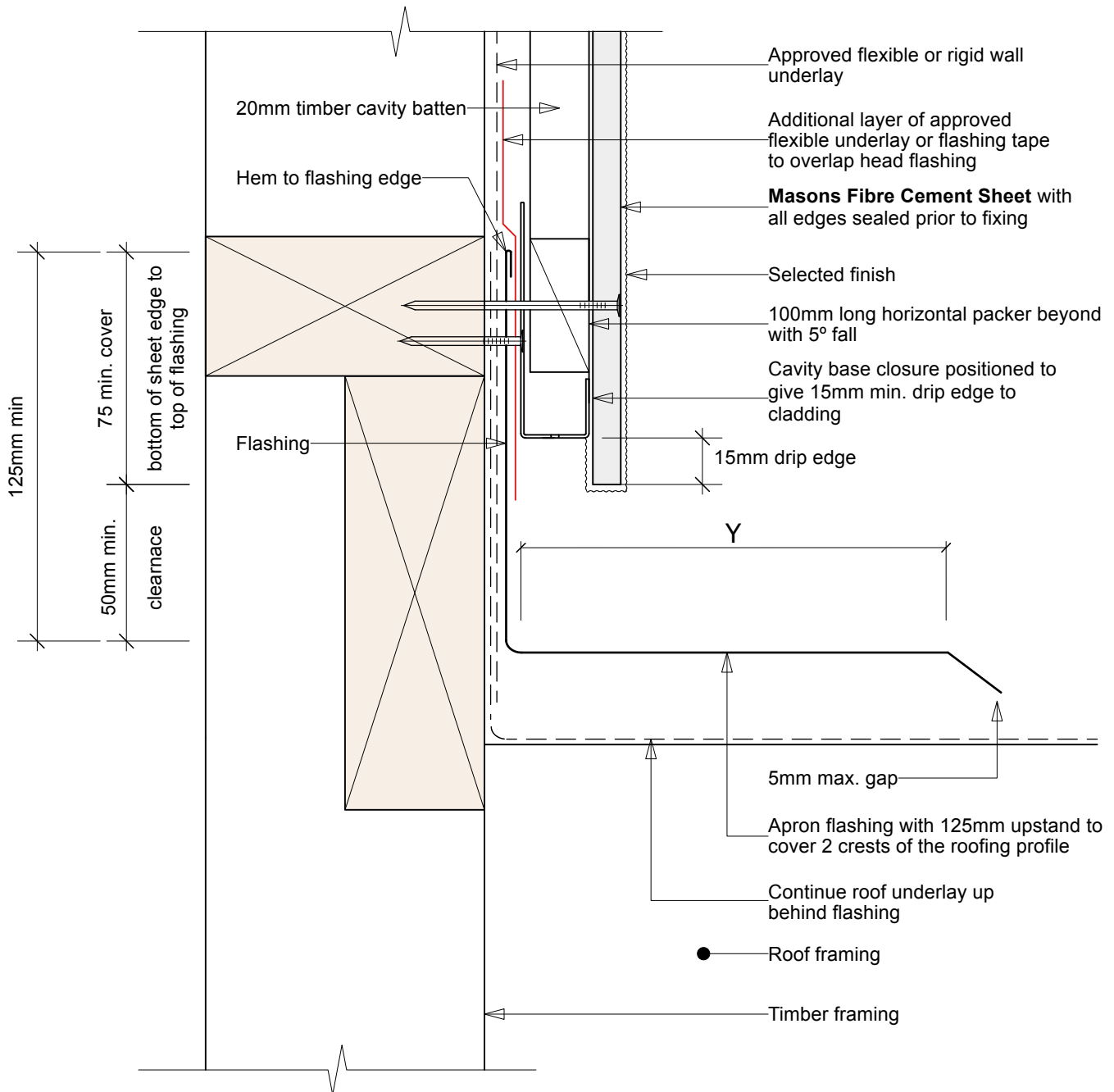
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-26**

#### Notes:

- 1) When 50 year durability is required please refer to Table 20 of the NZBC
- 2) Underlays and flashings tapes to comply with E2/AS1 - refer manufacturers specifications
- 3) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar
- 4) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar
- 5) 'Y' - Refer Fig.48 and Table 7 of E2/AS1



**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

### Parapet Flashing Detail

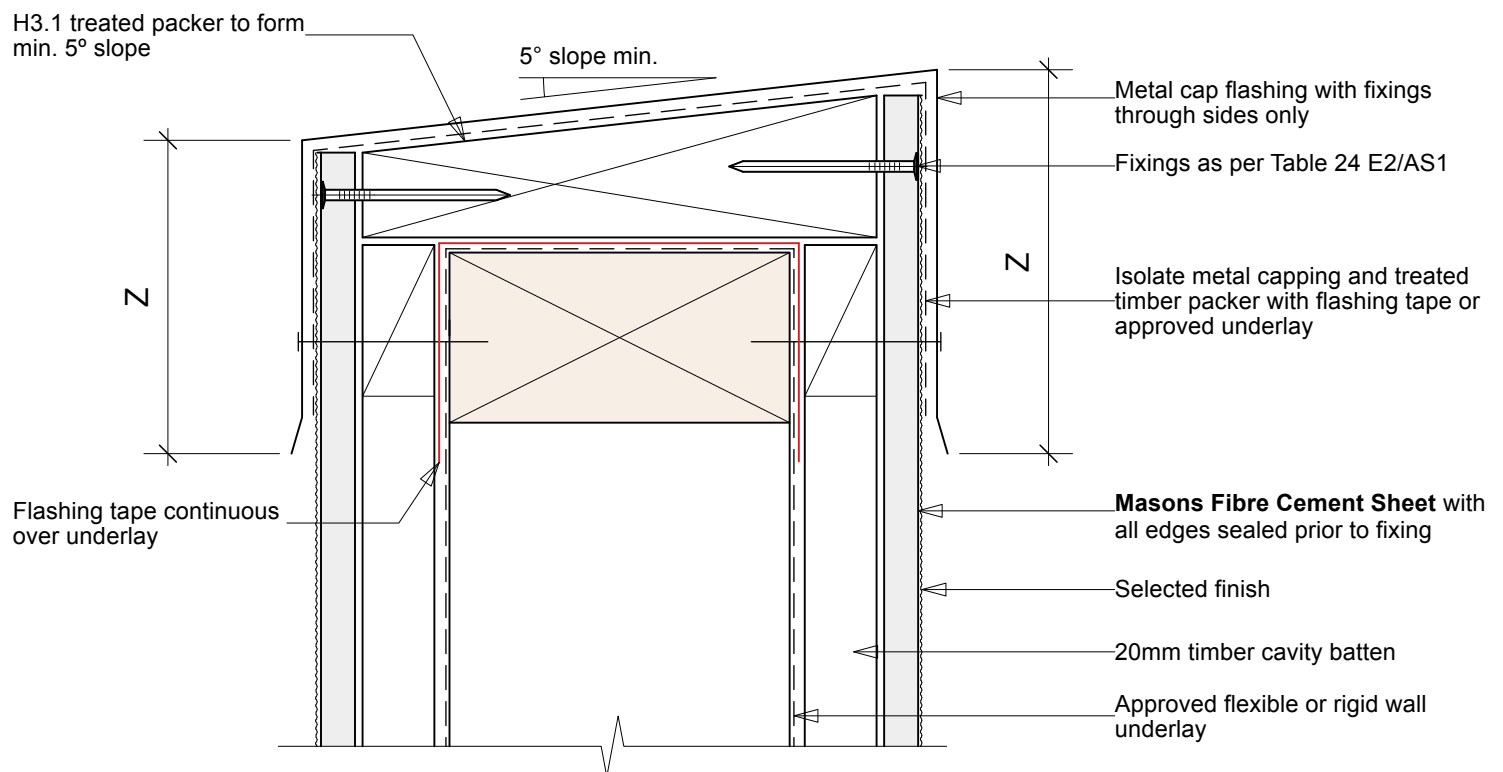
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-27**

#### Notes:

- 1) When 50 year durability is required refer to Table 20 of the NZBC
- 2) Underlays and flashings tapes to comply with E2/AS1 - refer manufacturers specifications
- 3) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar
- 4) Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar
- 5) 'Z' - Table 7 of E2/AS1.
- 6) Refer Fig.117 E2/AS1 - similar





**MASONS**  
Designed Smart, Built Tough.

## Masons Fibre Cement Sheet

### Pipe Penetration Detail

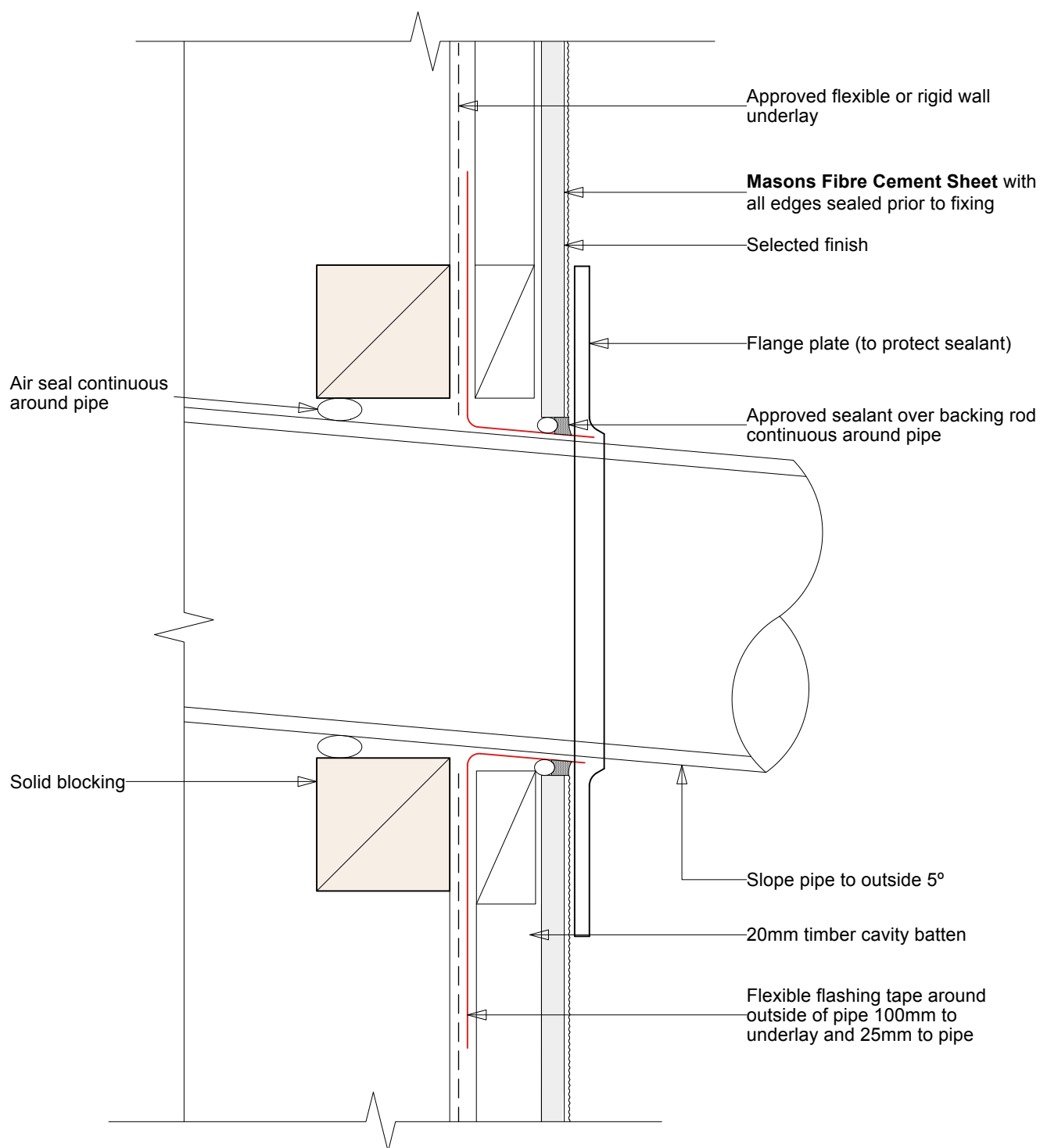
Scale:

1:2

Date:

10/02/25

Drawing No.

**MPB - FC-28**

#### Notes:

When 50 year durability is required please refer to Table 20 of the NZBC

Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade Weather Defense System or similar

Approved Masons 40 Below Flashing Tapes: Ultra Sticky, Platinum, Flex or similar



MASONS

Designed Smart, Built Tough.

Masons Fibre Cement Sheet

Typical Fixing Pattern for  
Cladding @ 400 crs

Scale:

1:2

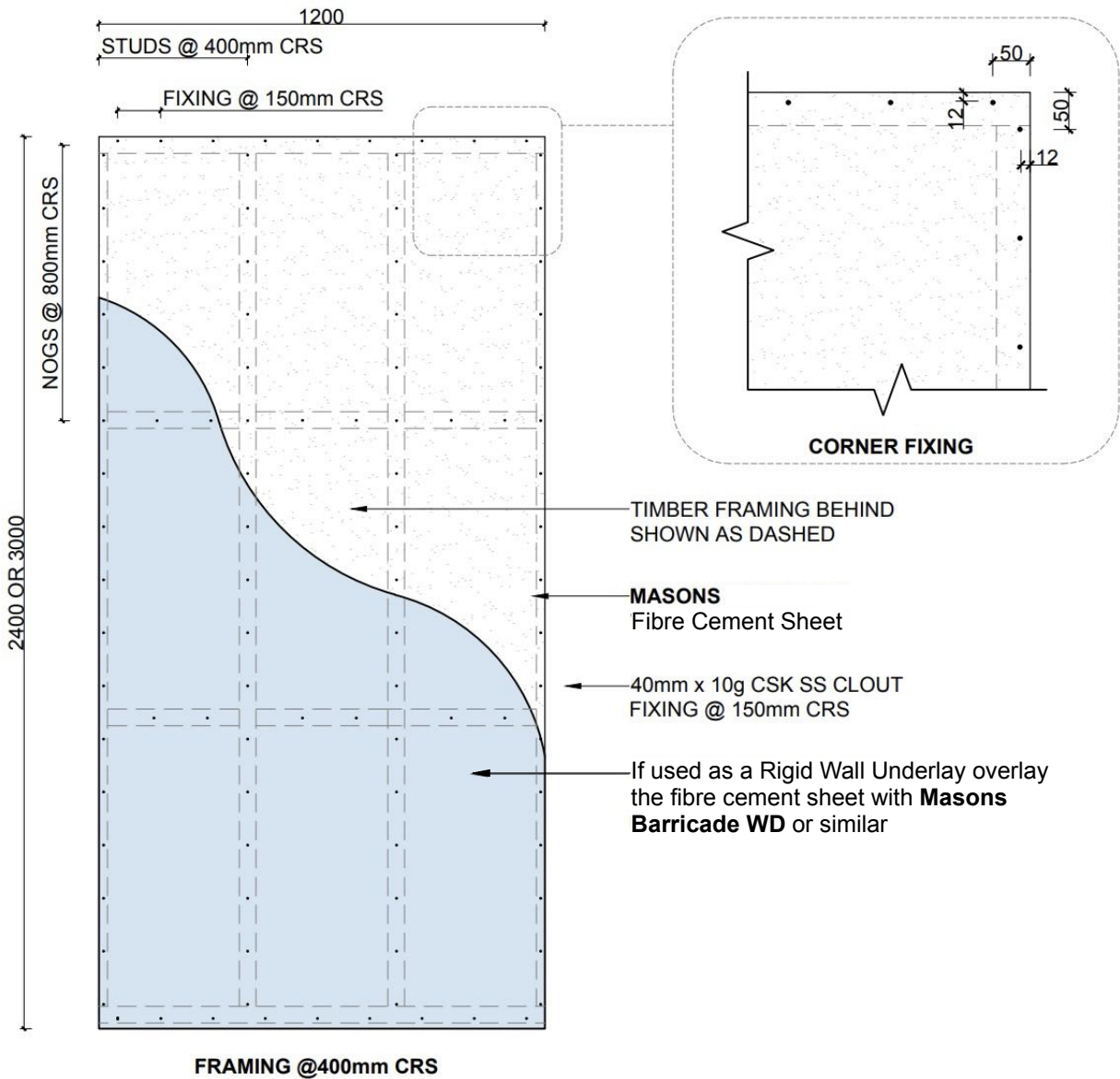
Date:

10/02/25

Drawing No.

MPB - FC-29

NOTE 1: FIXING INSTRUCTION	
EDGE FIXING DISTANCE 12mm MIN.	Stainless Steel or Galv. clouts (Refer Exposure Zone) hand nailed OR refer to Alternative nail type & fixing method in Barricade Weather Defense System documentation
CORNER FIXING DISTANCE 50mm HORIZONTALLY 150mm VERTICALLY	
GENERAL FIXING 150mm MAX. CRS	



Notes:

- 1) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade WD or similar



Masons Fibre Cement Sheet

Typical Fixing Pattern for  
framing @ 600 crs

Scale:

1:2

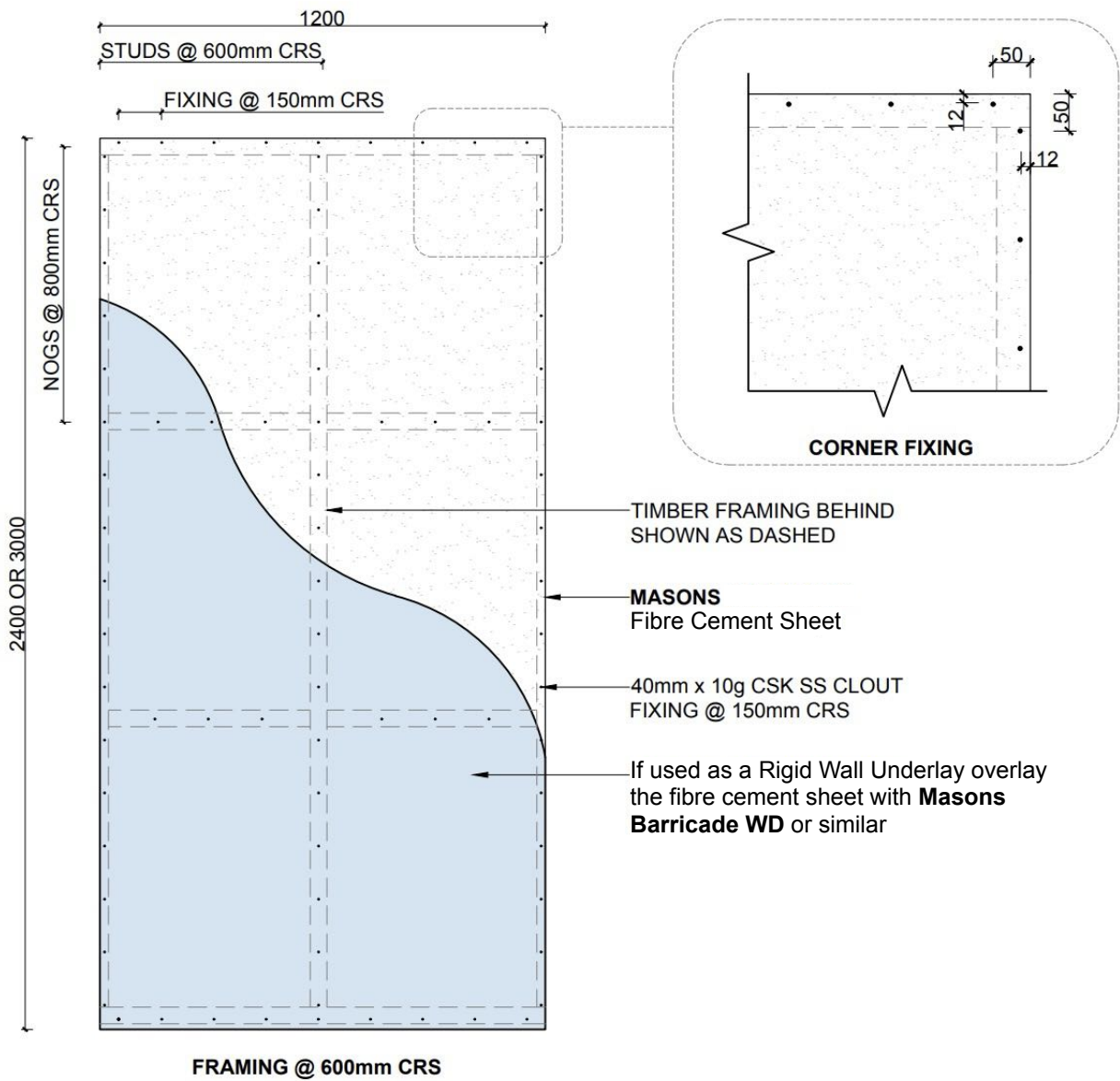
Date:

10/02/25

Drawing No.

MPB - FC-30

NOTE 1: FIXING INSTRUCTION	
EDGE FIXING DISTANCE 12mm MIN.	Stainless Steel or Galv. clouts (Refer Exposure Zone) hand nailed OR refer to Alternative nail type & fixing method in Barricade Weather Defense System documentation
CORNER FIXING DISTANCE 50mm HORIZONTALLY 150mm VERTICALLY	
GENERAL FIXING 150mm MAX. CRS	



Notes:

1) Approved Masons underlays: Uni Plus, Unit Pro, Barricade FR, Barricade WD or similar



Masons Fibre Cement Sheet

Scale:

1:2

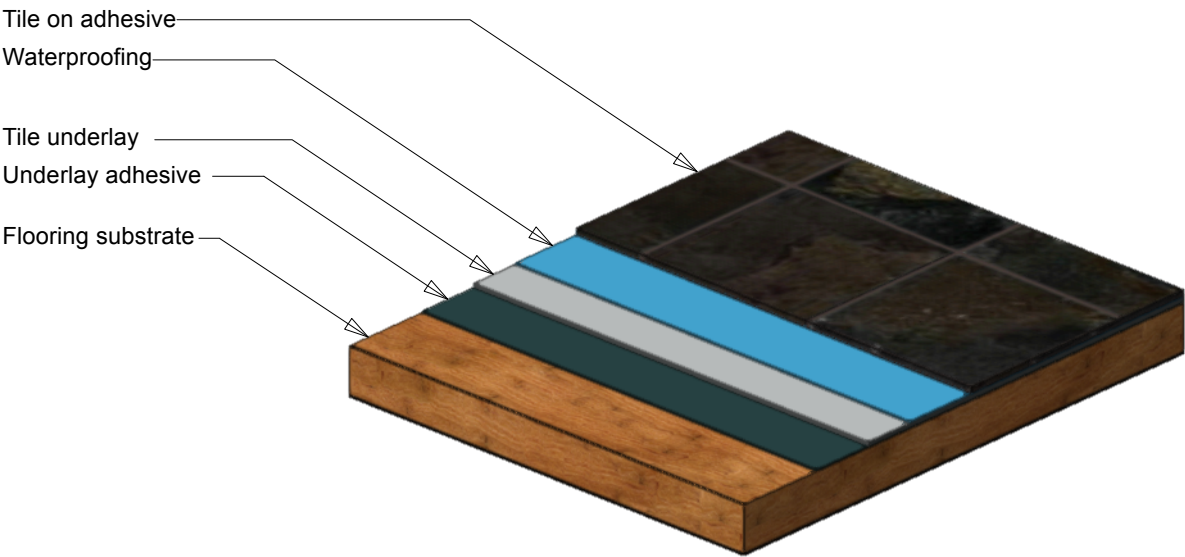
Date:

10/02/25

Drawing No.

MPB - FC-31

Tile underlay





MASONS

Designed Smart, Built Tough.

Masons Fibre Cement Sheet

Scale:

NTS

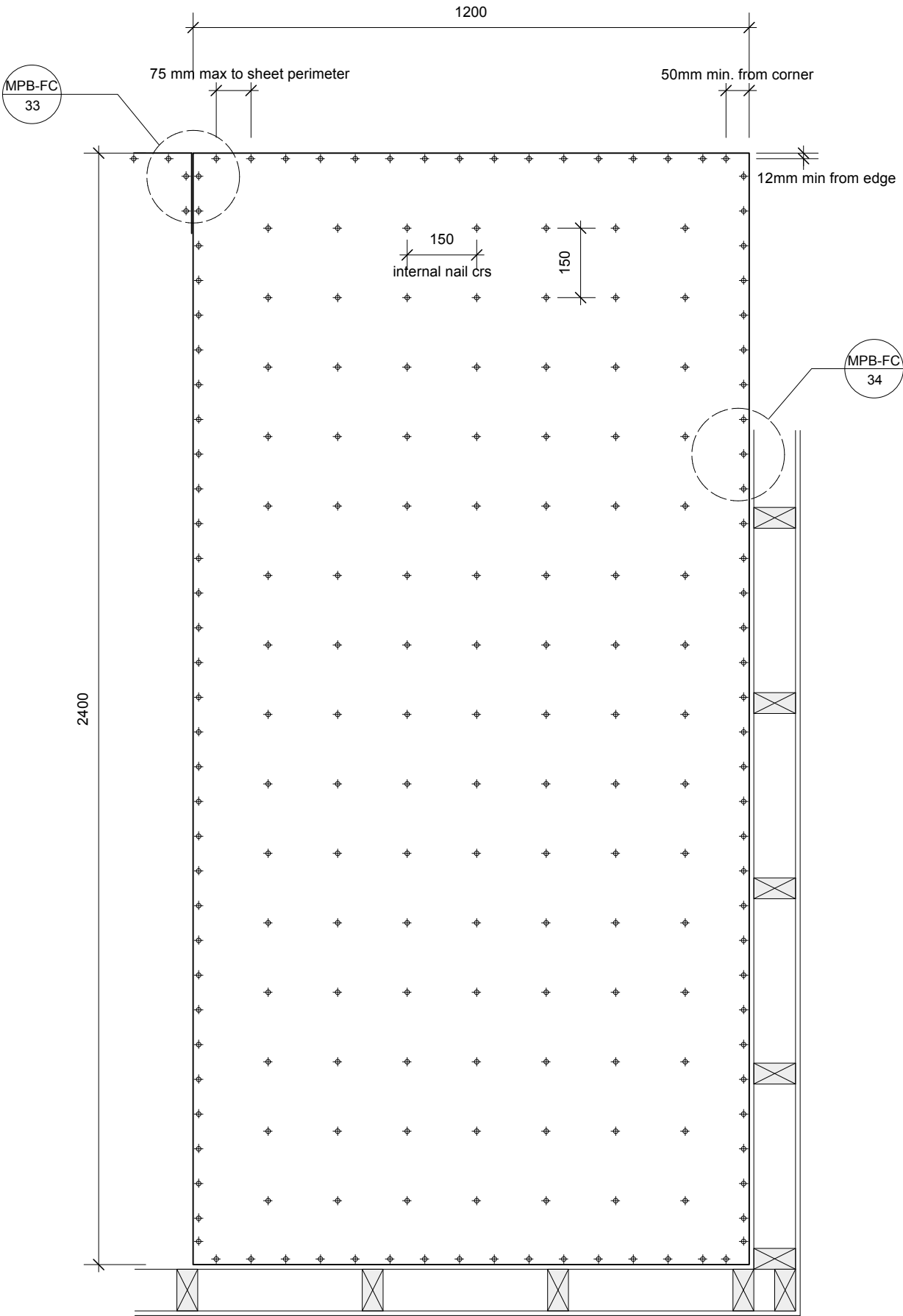
Date:

10/02/25

Tile underlay - Sheet Fixings

Drawing No.

MPB - FC-32





Masons Fibre Cement Sheet

Scale:

NTS

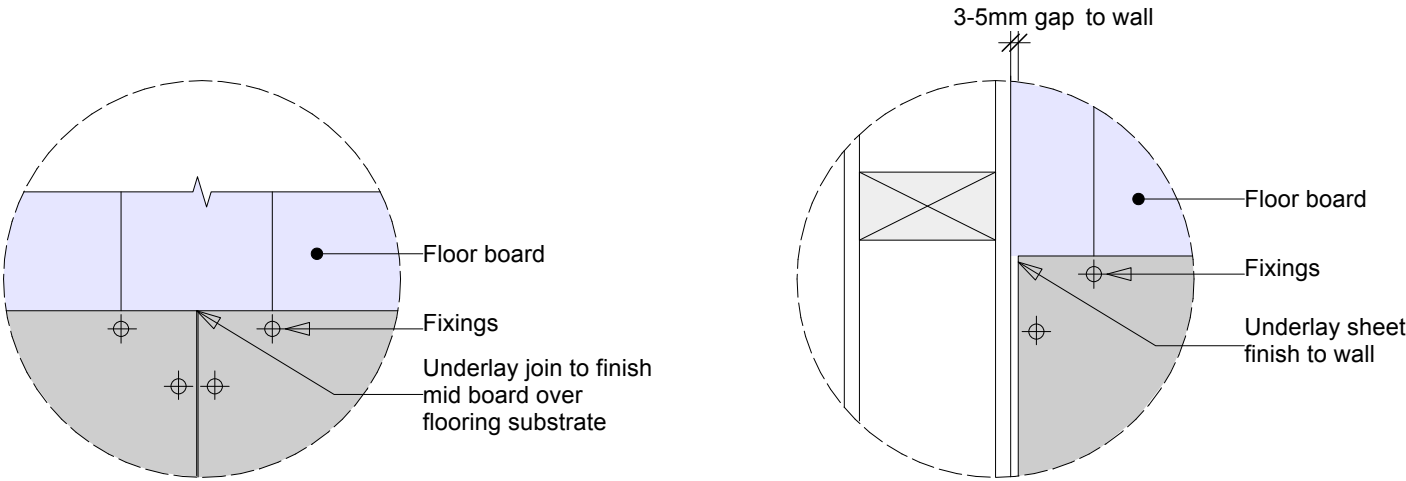
Date:

10/02/25

Tile underlay - Details

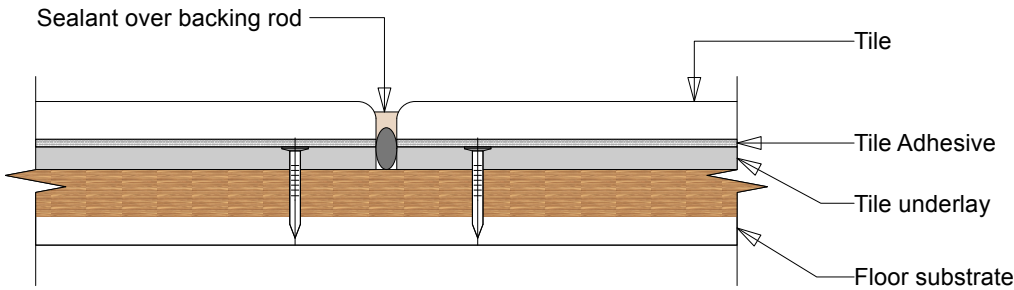
Drawing No.

MPB - FC-33    MPB - FC-34    MPB - FC-35



MPB - FC-33

MPB - FC-34



Movement Control Joint

MPB - FC-35