

# TECHNICAL DRAWINGS

JSC VERTICLAD Vertical Shiplap Weatherboards Rigid Underlay 45mm Cavity Fix

ISSUE : 24/02/2025 | VERSION : 2.5



Eastern Beach Home | Matt Brew Architect  
Photo: Jamie Cobel



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INFORMATION

DRAWING SCALE N.T.S.	ISSUE DATE 24/02/2025
DRAWING NUMBER JSC 45CR VS01	VERSION 2.5

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# GENERAL NOTES

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## OVERVIEW :

JSC VertiClad is a cavity based external wall cladding system comprising of:

- Timber weatherboards finished with high quality exterior grade coating
- H3.2 treated timber castellated cavity battens
- Fascia boards and moulding profiles

This documentation covers the installation guide for fixing JSC Vertical Shiplap weatherboards over JSC 70x45 and/or JSC-H 45x45 castellated cavity battens.

## SCOPE OF USE:

- This document is for use within the scope of JSC VertiClad Vertical Shiplap Weatherboard Cladding System technical documentation and Code Compliance CodeMark certificate [CMNZ 30084](#).
- For scope, conditions and limitations of use refer to CodeMark certificate CMNZ 30084.
- Details are subject to change without notification and only the current version is compliant. Refer to [jsc.co.nz](#) at the time of use for the current documentation.
- The designer/specifier must be satisfied that these details are applicable for their intended use.

## FIXING SPECIFICATION:

- Western Red Cedar, Alaskan Yellow Cedar, Radiata Pine and Nordic Pine: Fixing material to be 316 Stainless Steel or Silicon Bronze annular grooved nails
- TMT (Thermally Modified Timber): TMT Taiga, TMT Taxon, TMT Tuscan, TMT Amba, and ThermoPine: Fixing material to be 316 Stainless Steel or Silicon Bronze annular grooved nails
- For the use of any alternative fixing of equivalent properties refer to [E2/AS1 Table 24](#) and to [E2/AS1 Table 20](#) for alternative material selection.
- JSC recommends nail materials as per [VertiClad Installation Guide Table 3 - Nail Fixings](#), as they will at least match the expected life of the cladding. E2/AS1 allows the use of galvanised fixings, although JSC does not endorse their use.
- Jolt head nails are only suitable for paint finished weatherboards.
- For buildings located in exposure 'Zone D', 316 stainless steel fixings must be used as per [NZS 3604:2011](#).

## PRE INSTALLATION:

- Weatherboards must be dry and free of any contamination.
- Board lengths must be optimised prior to the installation to avoid any unnecessary wastage and joints.
- Any loose, bark encased knots, or other timber defects need to be removed.
- Weatherboards must be coated with suitable exterior coating on all sides in accordance with coating manufacturer's specification.

## INSTALLATION:

- JSC VertiClad System must be installed by a suitably qualified and experienced trade person. Where Restricted Building Work (RBW) applied the installer shall be a Licensed Building Practitioner (LBP) or supervised by LBP.
- Compatibility of materials as per [Tables 20-22 E2/AS1](#).
- Rigid and flexible underlay as per [Table 23](#) and [Clauses 9.1.5 to 9.1.7 E2/AS1](#) or proprietary approved alternative.
- The weatherboard system shall incorporate joinery that meets the requirements of New Zealand Building Code for the relevant building wind zone or wind pressure.
- Where weatherboards have an exposed bottom edge, the back of the boards should be cut with a 15° drip edge and the cut end should be coated to 150-200mm up from the bottom edge.
- Cavity closer/vermin proofing must be installed continuously around the bottom of the cavity positioned to give a 15mm min. drip edge to cladding.
- Cavity closer/vermin proofing openings must be kept clear and unobstructed to maintain draining and venting of the cavity.
- Windows and doors to be installed as per manufacturer's specifications, head flashing stop ends must be in place. Flashings as per [Clause 4.0 E2/AS1](#).
- Flashings as per [Clause 4.0 E2/AS1](#) at corners, doors, windows and wall intersections must be installed to prevent water from crossing the cavity.
- Sealant to be compatible with the final coating system and to be applied as per manufacturer's instructions and specifications. For JSC Coating products refer to [JSC Coatings Wood Oil Range Guide](#).

## MAINTENANCE:

- Annual inspection and cleaning followed by repair to any damaged areas. Refer to [JSC Maintenance Guide](#).



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TYPE  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX

NAME  
GENERAL NOTES

• TO BE READ IN CONJUNCTION WITH COMPLETE JSC VERTICLAD SYSTEM LITERATURE  
• DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE



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# RELATED DOCUMENTS

ISSUE : 24/02/2025 | VERSION : 2.5

- MBIE NZ Building Code Clause E2 External Moisture (refer to [E2 External moisture](#))
- Department of Building and Housing (DBH). [Constructing cavities for wall claddings](#)
- BRANZ Bulletin BU468 [December 2005] Fixing Timber Weatherboards (refer to [www.branz.co.nz/BU468](http://www.branz.co.nz/BU468))
- [BRANZ \[May 2015\] Good Practice Guide: Timber Cladding](#)
- [BRANZ Build 154-33- Build Right Structurally Fixed Cavity Battens](#)
- [BRANZ Build 173-28- Build Right Coatings for Timber Weatherboards](#)
- [BRANZ Bulletin BU531 \[February 2011\] Designing for Thermal and Moisture Movement](#)
- Window & Glass Association NZ - WGANZ ([www.wganz.org.nz](http://www.wganz.org.nz))
- [NZS AS 1720.1:2022](#)
- [NZS 3604:2011 Timber-framed buildings](#)

**Disclaimer:** It is the responsibility of the designer/specifier to ensure the suitability and specification of any third-party accessories used with our cladding system. JSC is not liable for the installation of any components or accessories not supplied by us. For guidance on using specific components, please refer to our Technical Installation Details and Installation Guides. If there is any uncertainty, please seek expert advice.

The related documents mentioned above were accurate and up to date at the time of writing this guide. However, please note that information may have changed since then, and we recommend verifying any external sources for the most current information.

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TYPE  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX

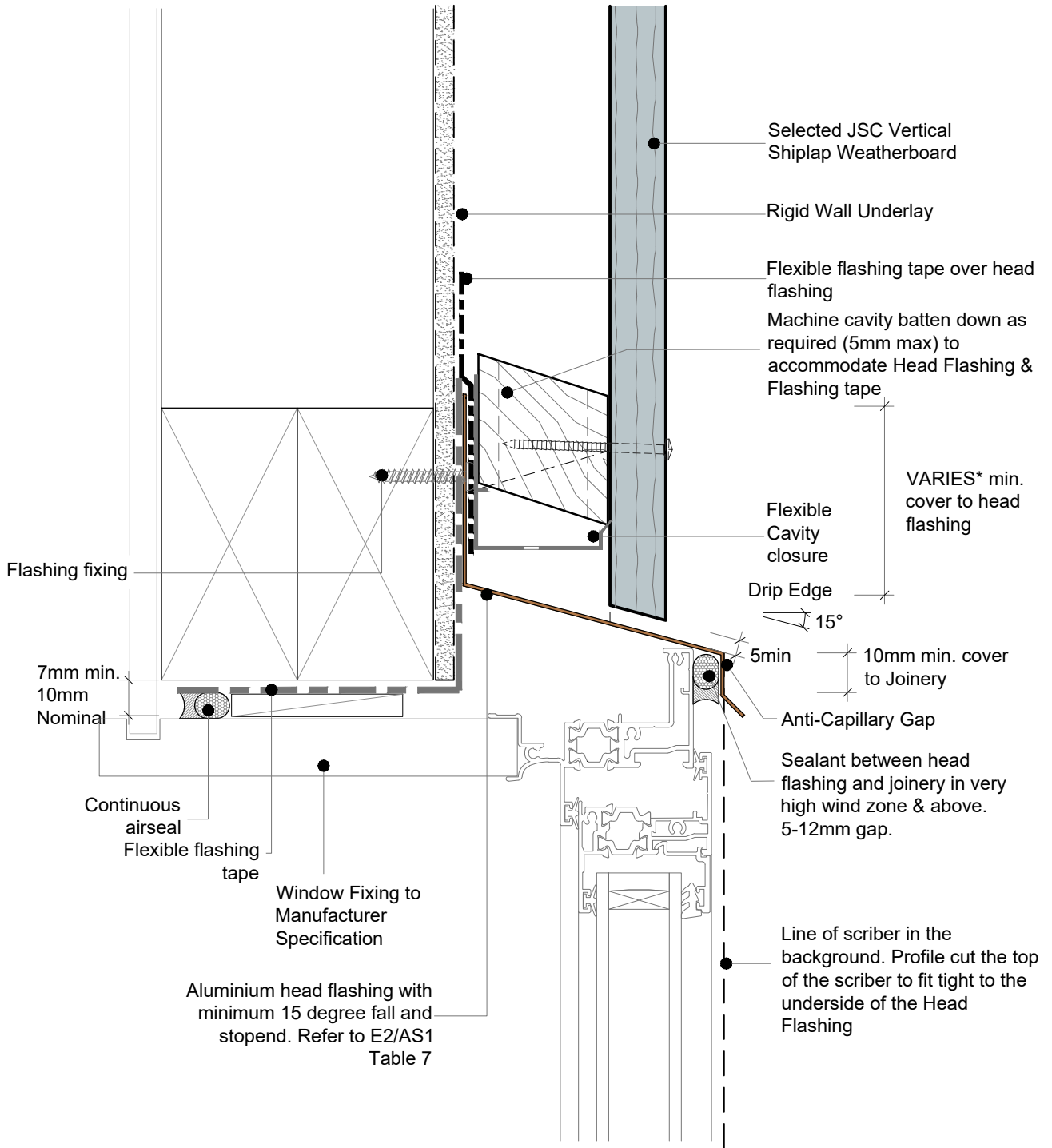
NAME  
RELATED DOCUMENTS

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NOTE:

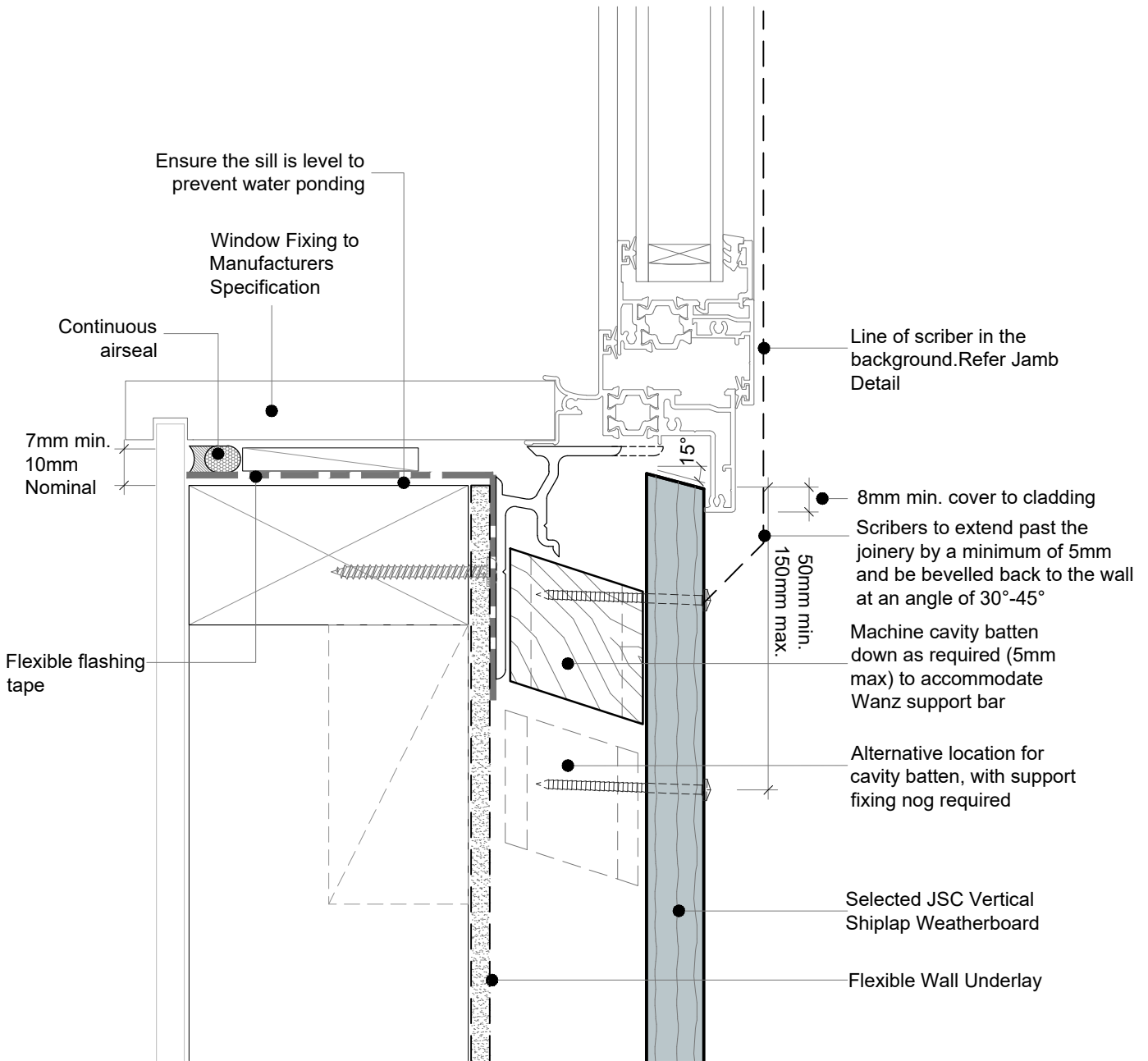
- To address the buildup of elements on the head detail, consider the use of a flexible cavity closer.

\*JSC recommends no hooks or hems. Therefore, the flashing upstand dimensions must be increased by 25 mm in accordance with E2/AS1, Section 4.5.1

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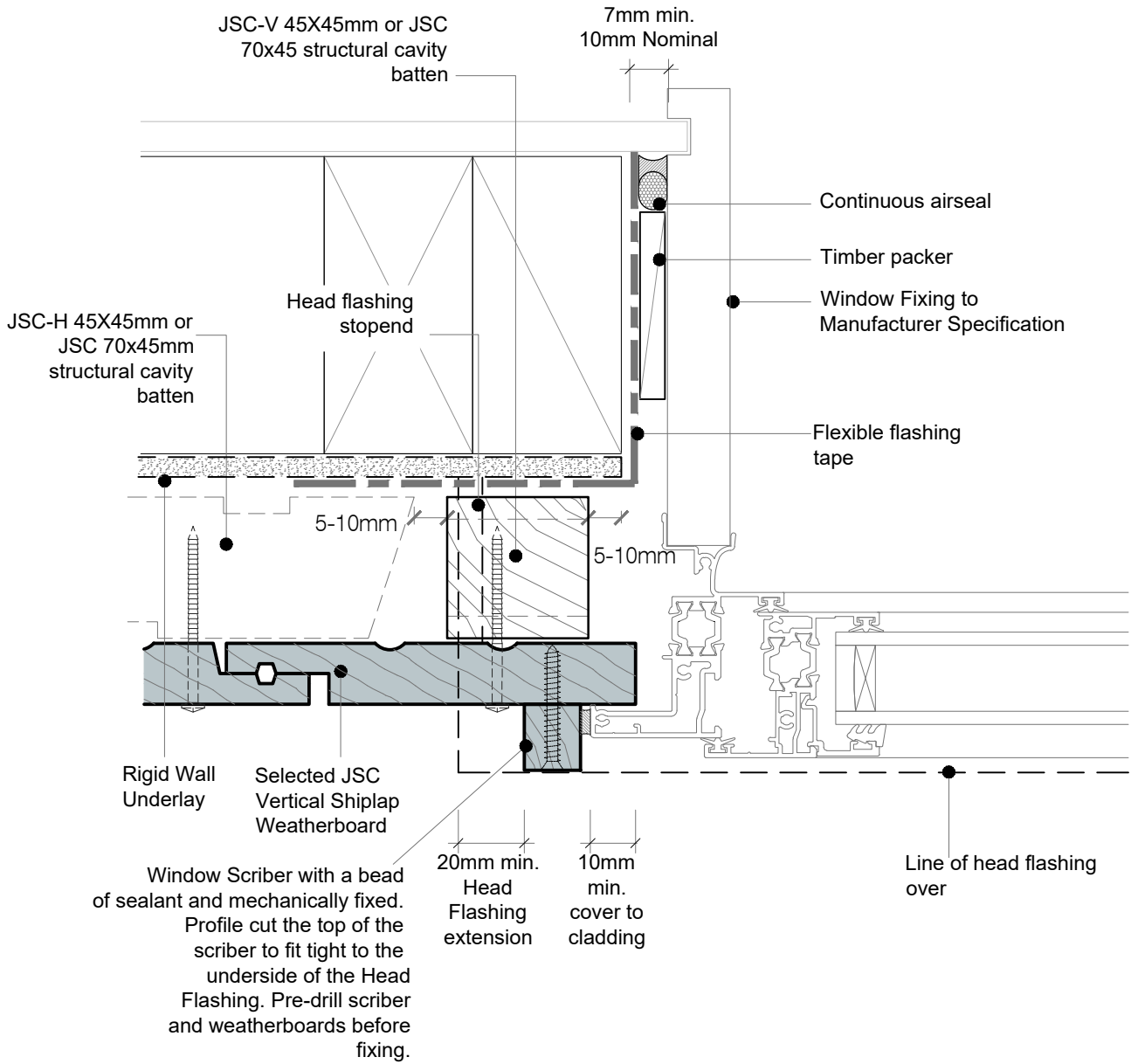




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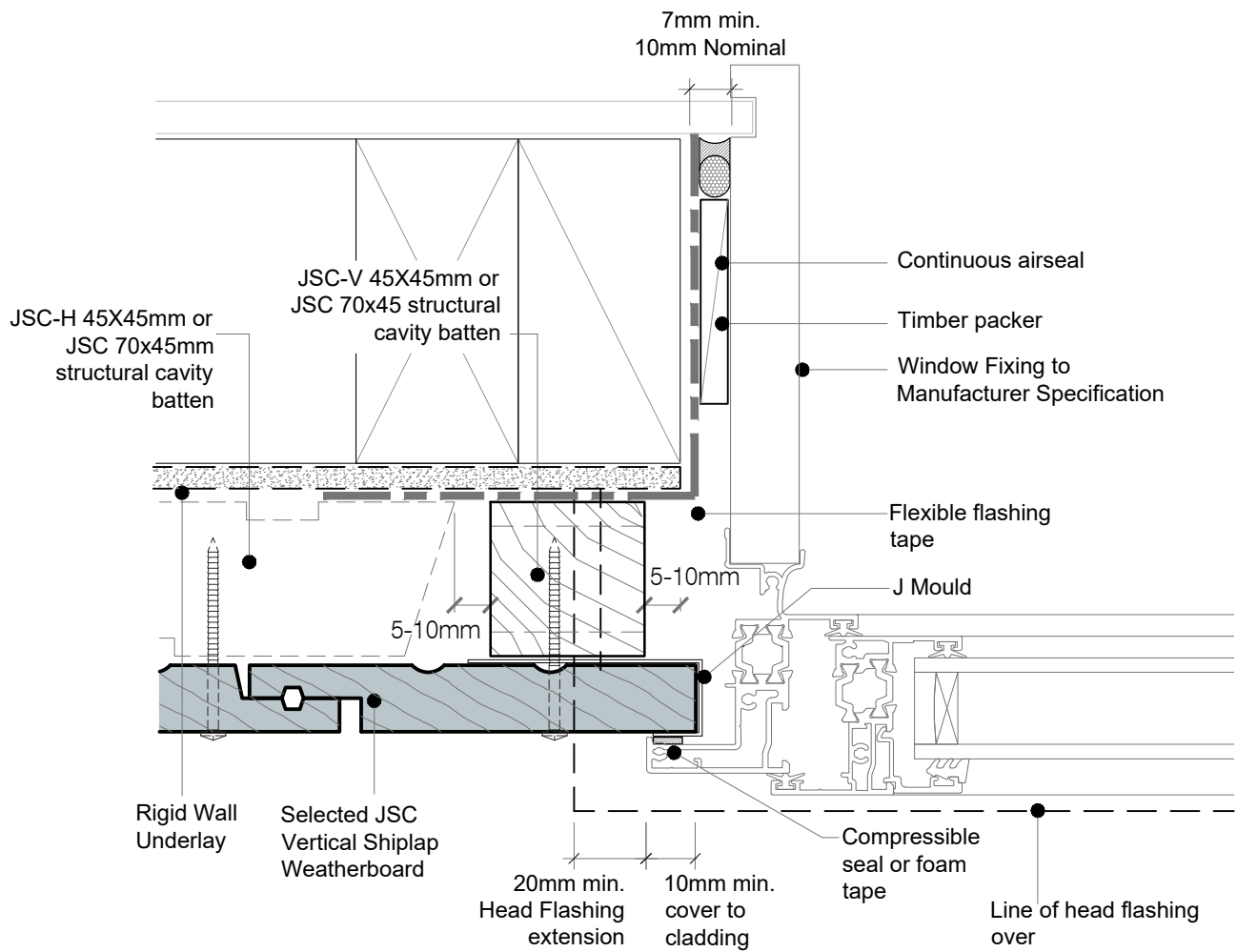




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NOTE : No Scriber Option :

The Aluminium Joinery must sit hard against the back of the joinery flange and the timber weatherboards with a seal or foam tape in between.

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TYPE  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX  
NAME  
Window Jamb Detail - No Scriber

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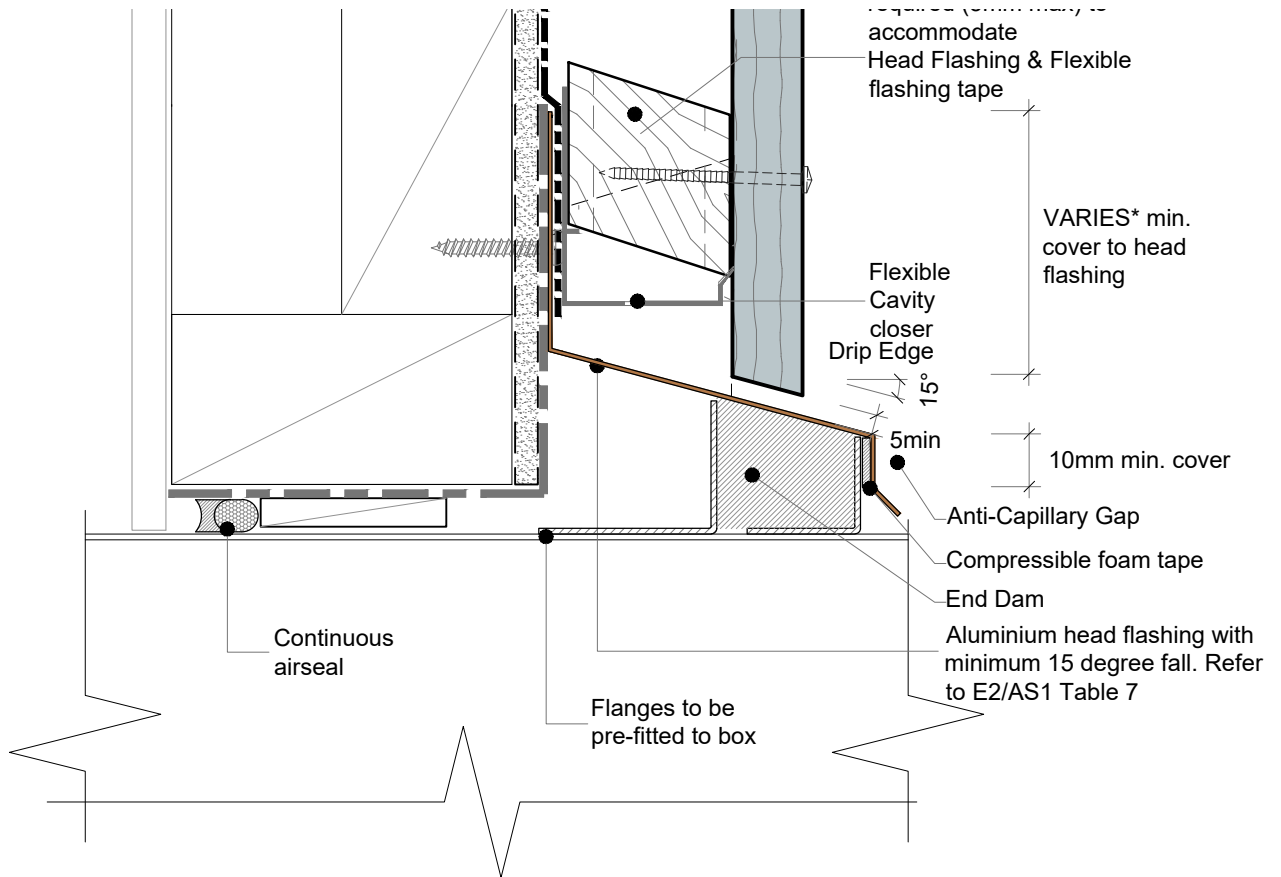
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JSC 45CR VS13

VERSION  
2.5

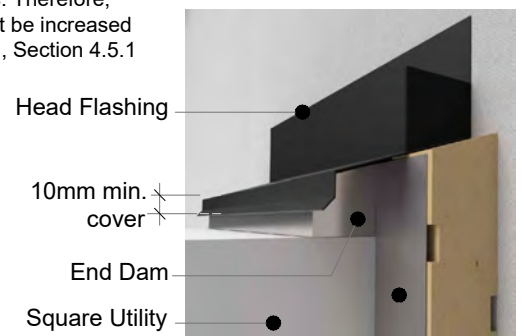
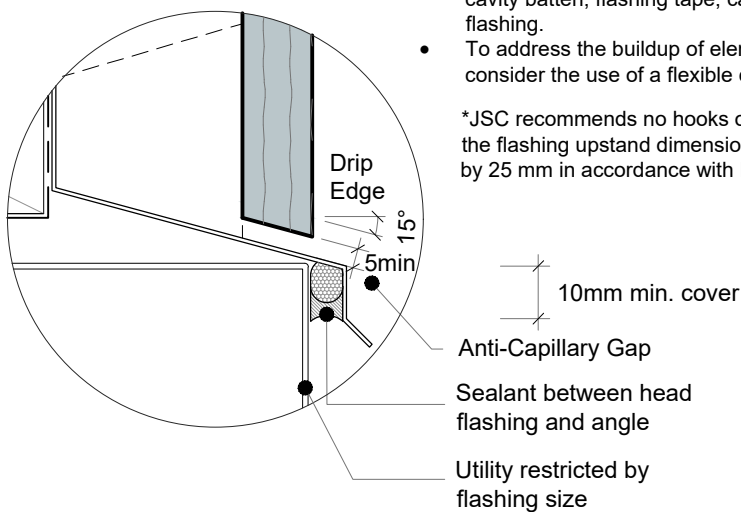




**NOTE:**

- Ensure a minimum penetration of 30mm into the timber frame due to the presence of multiple elements, including cavity batten, flashing tape, cavity closure, and head flashing.
- To address the buildup of elements on the head detail, consider the use of a flexible cavity closer.

\*JSC recommends no hooks or hems. Therefore, the flashing upstand dimensions must be increased by 25 mm in accordance with E2/AS1, Section 4.5.1

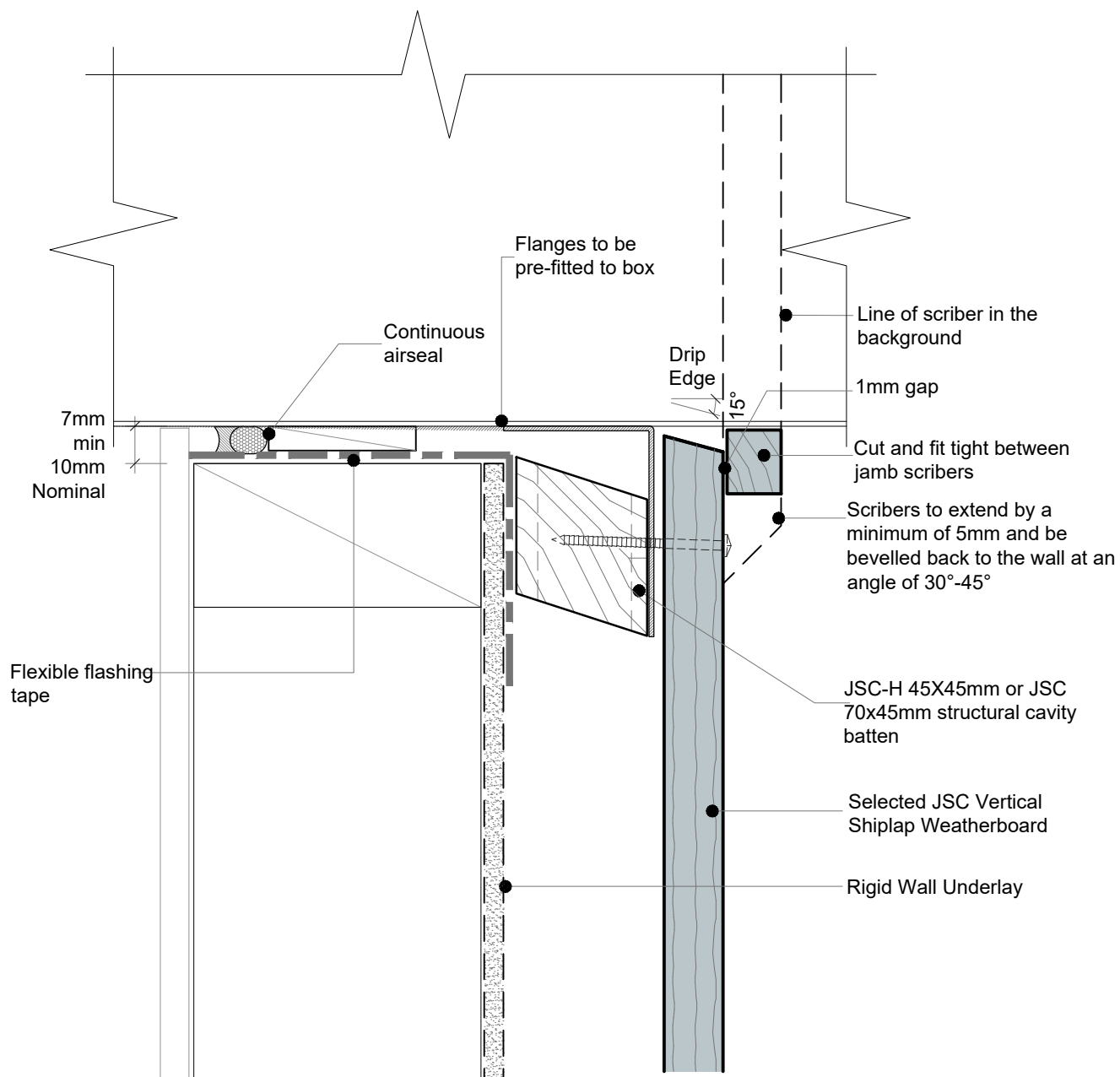


Flanges to be pre-fitted to the box



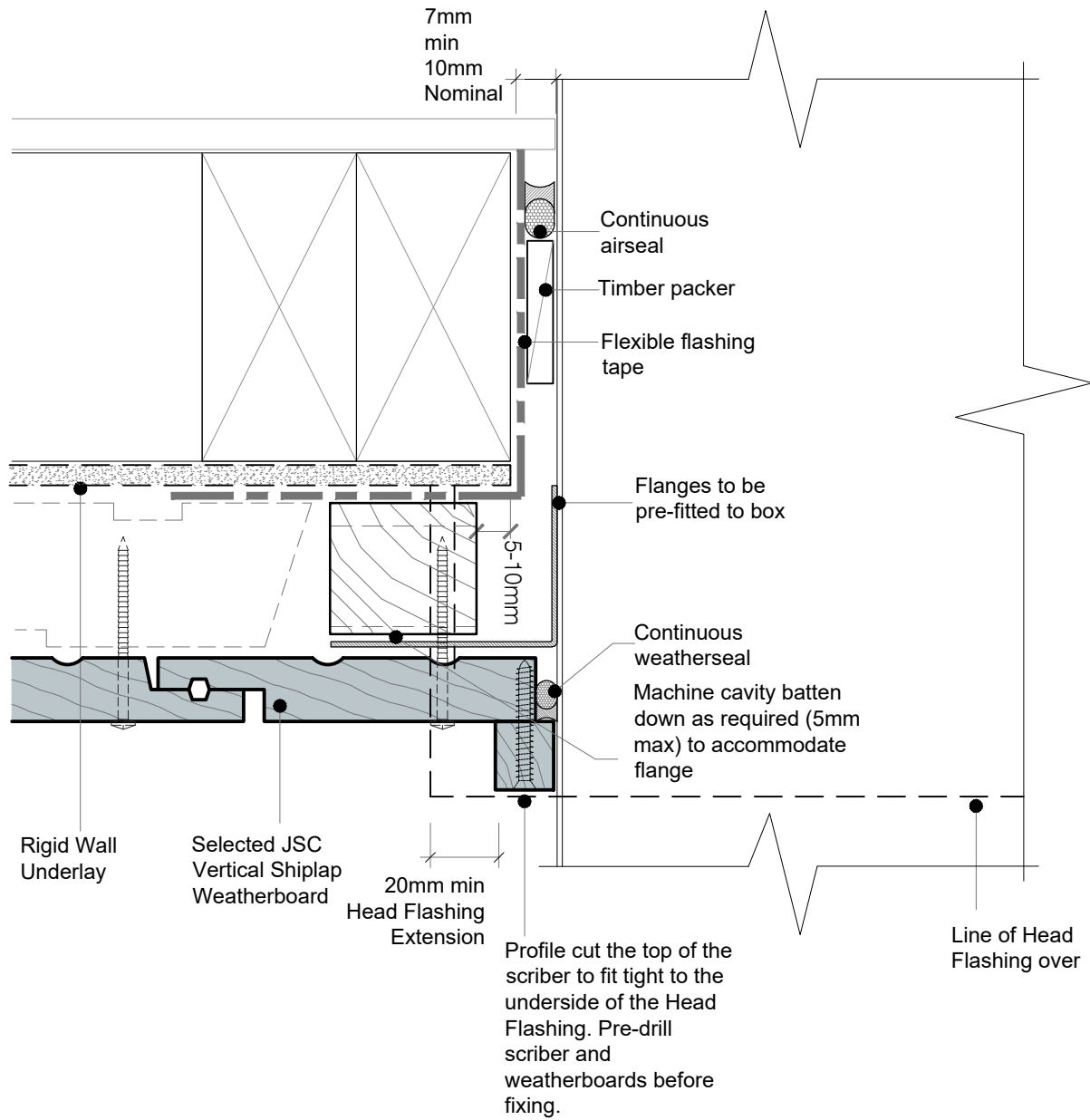
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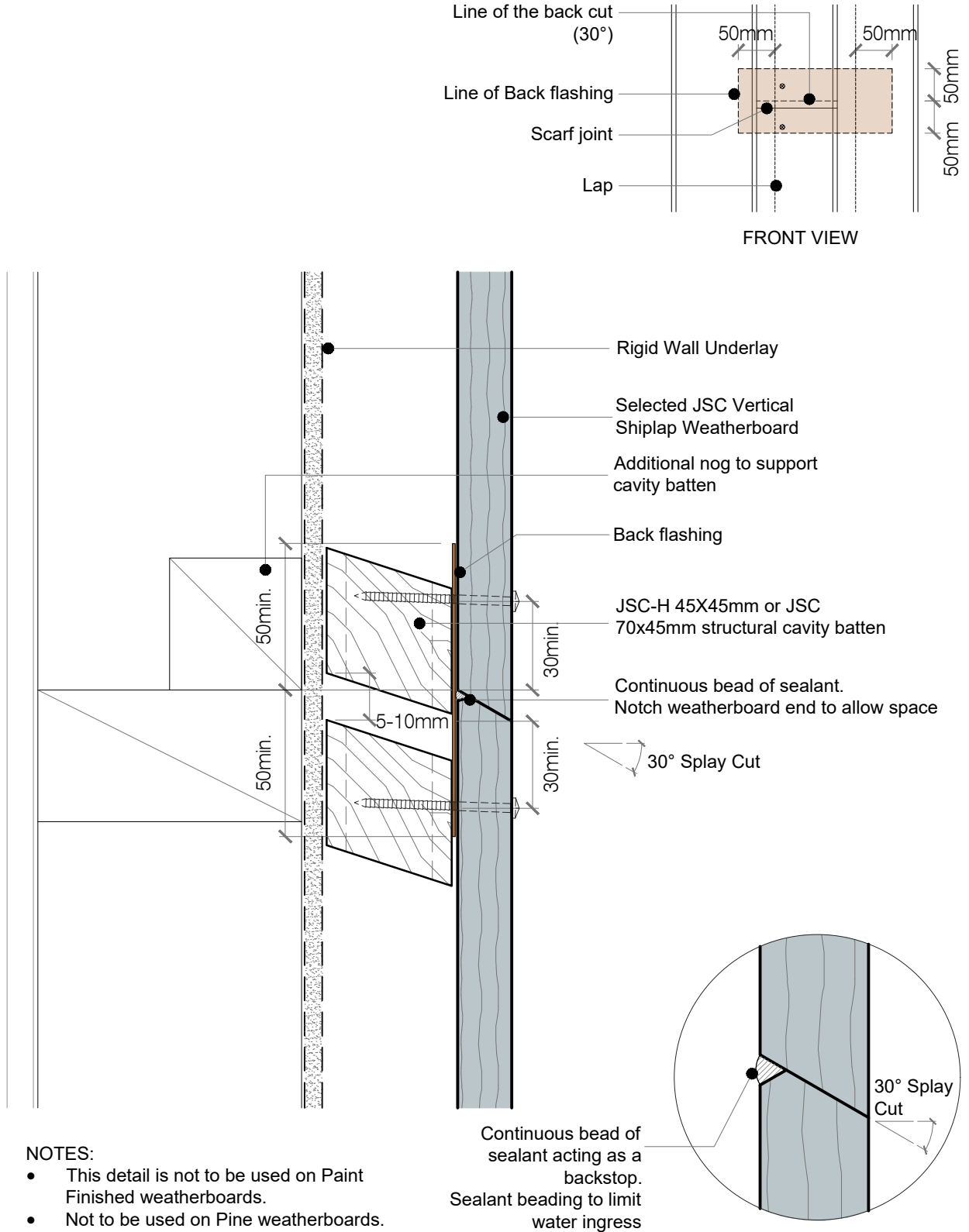




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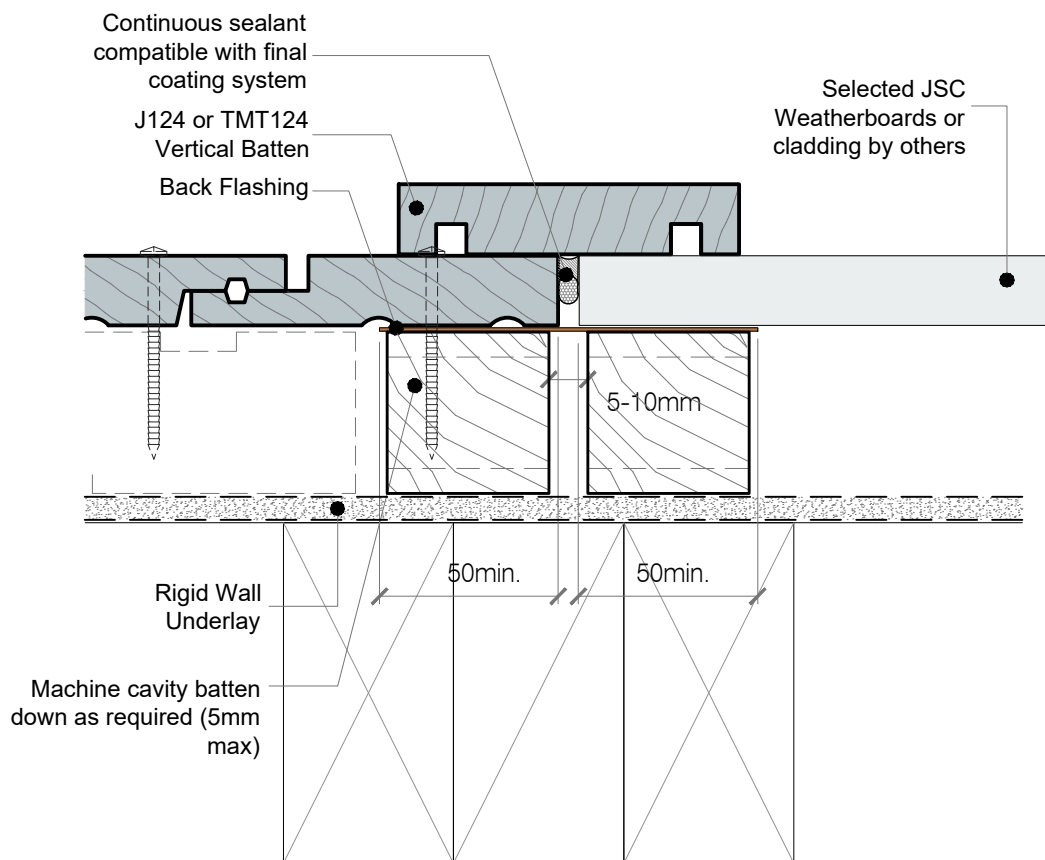
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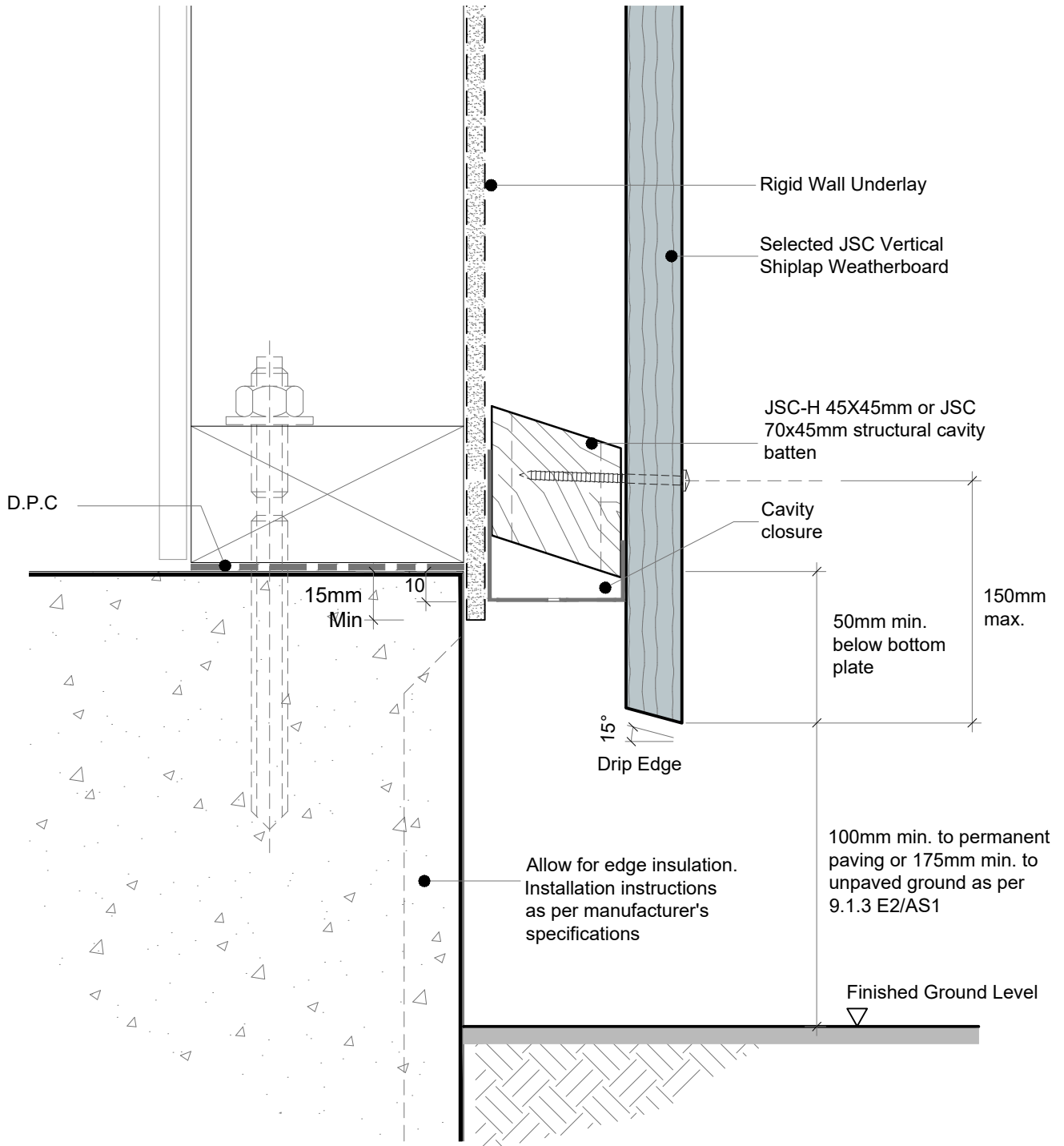
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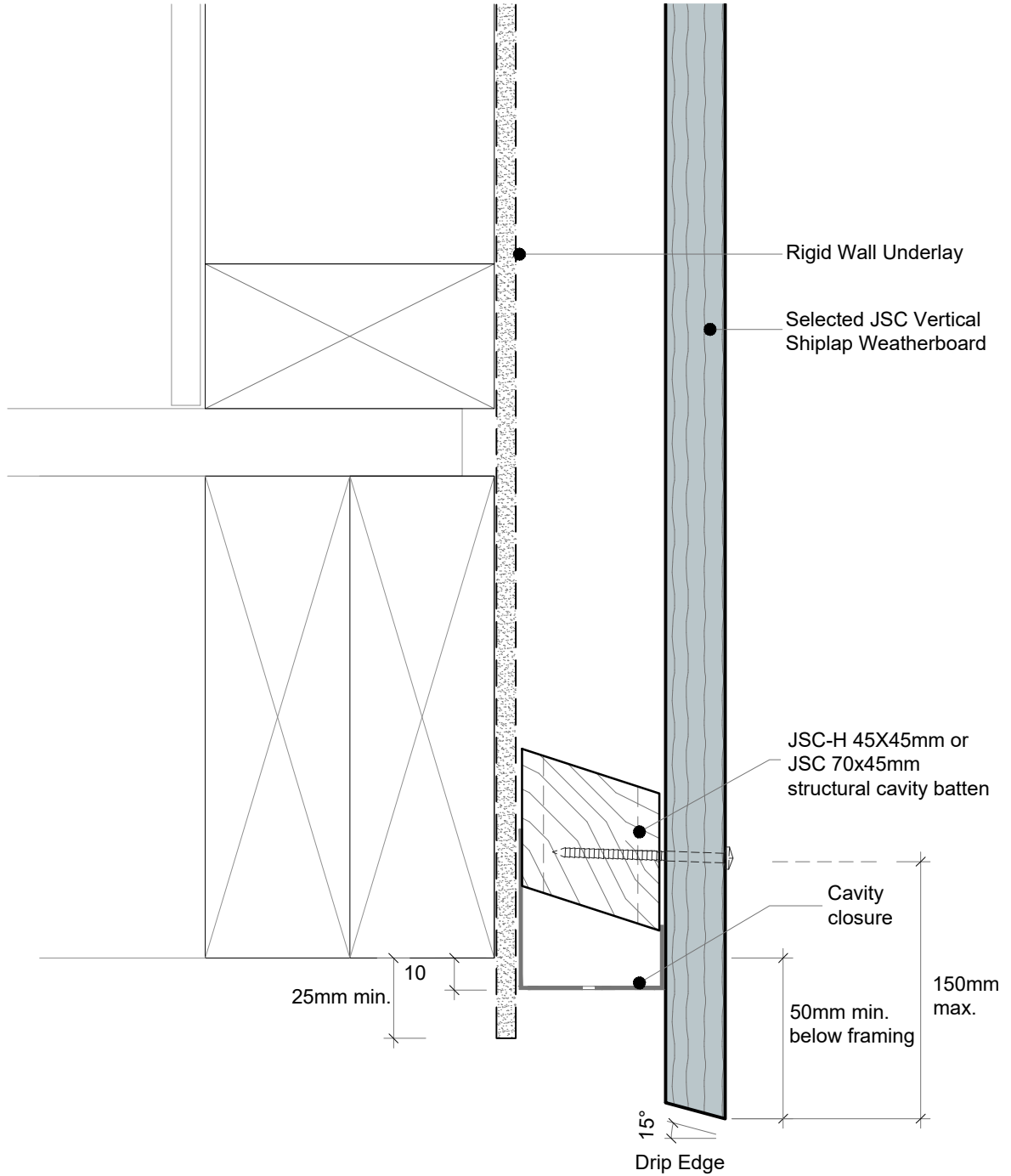


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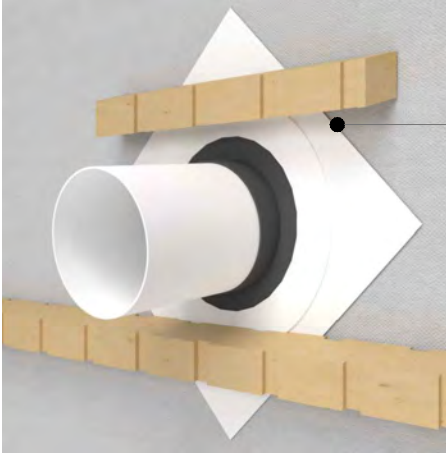


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-Refer to E2/AS1



Proprietary self adhesive collar at 45°



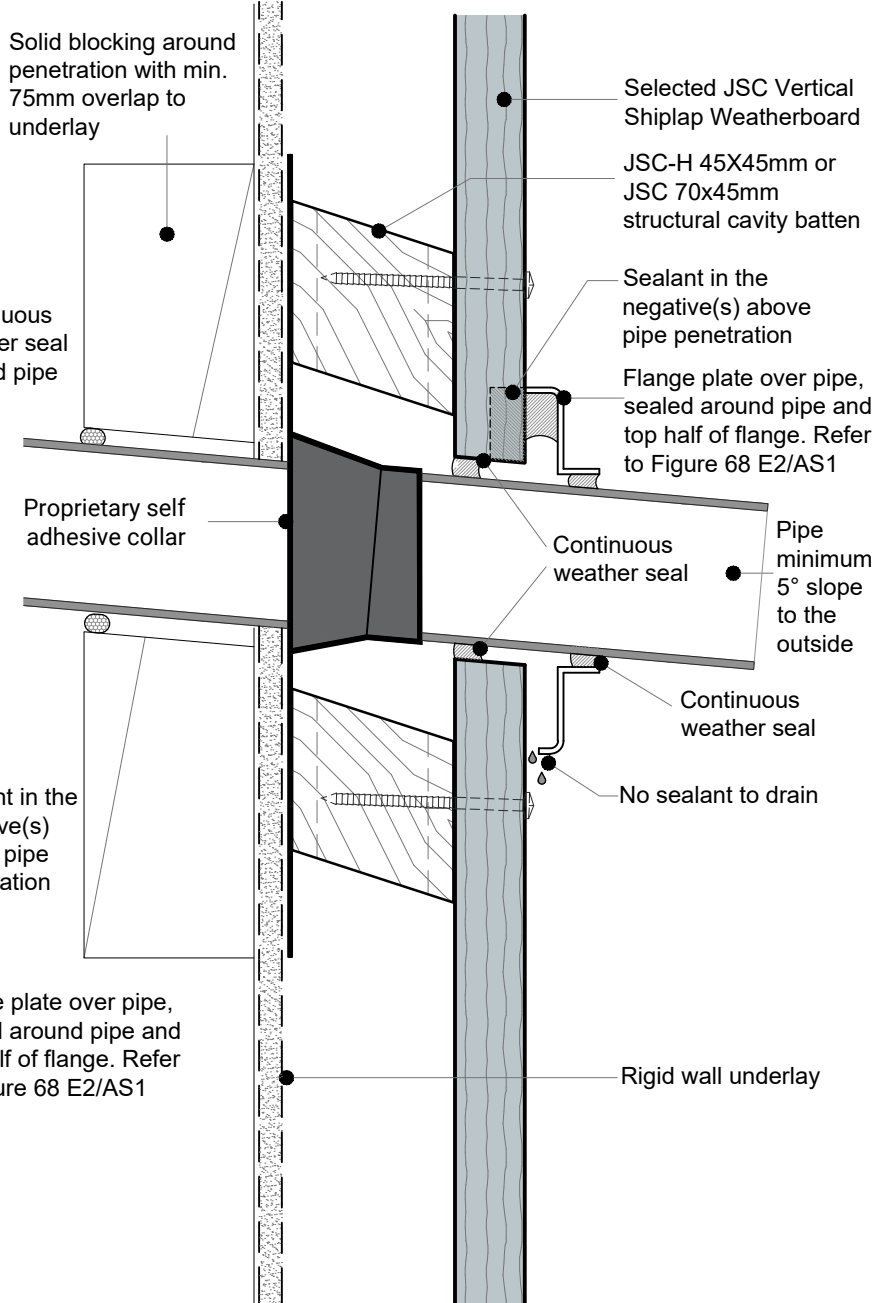
Continuous weather seal around pipe



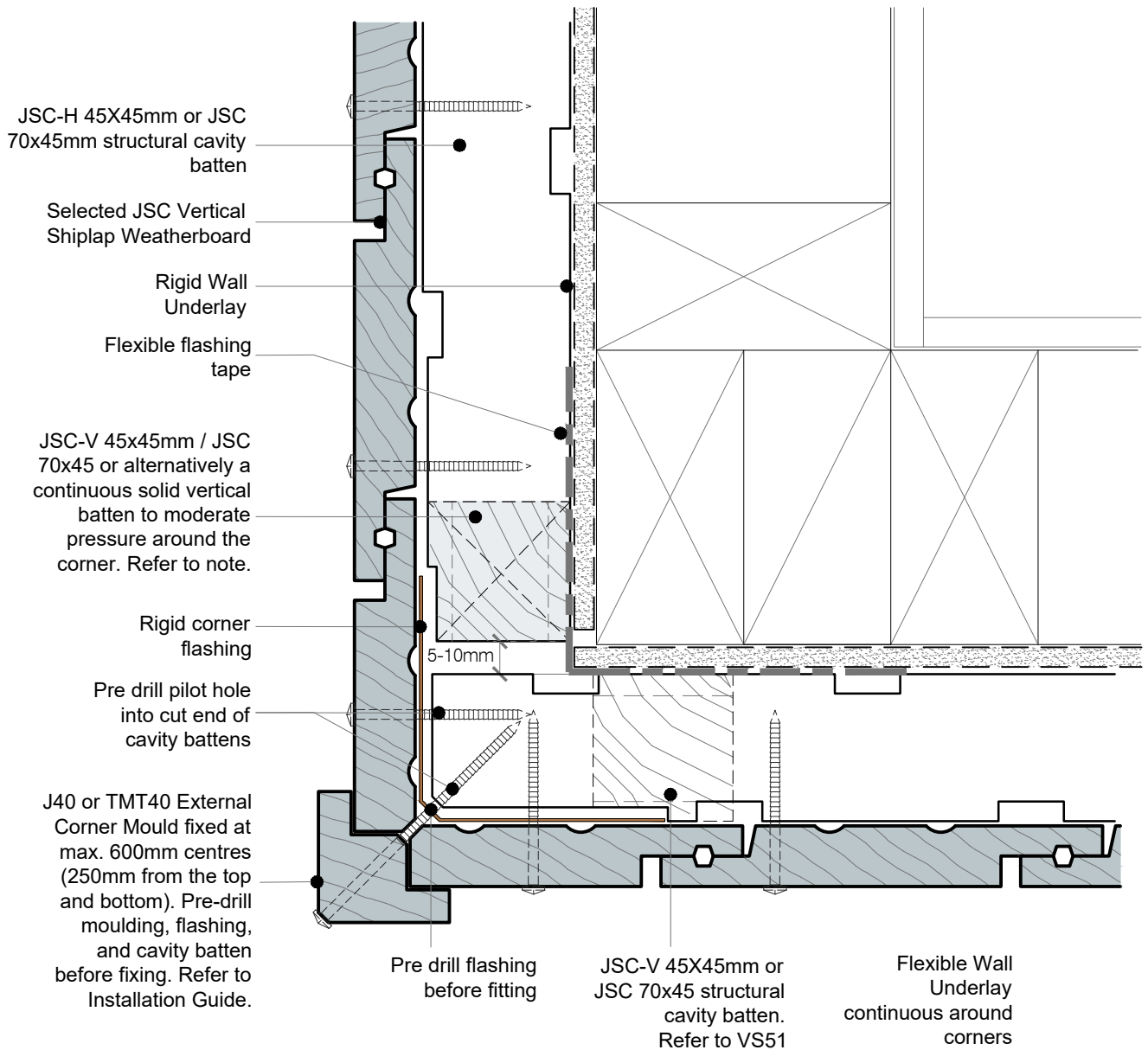
Sealant in the negative(s) above pipe penetration

Flange plate over pipe, sealed around pipe and top half of flange. Refer to Figure 68 E2/AS1

No sealant to drain



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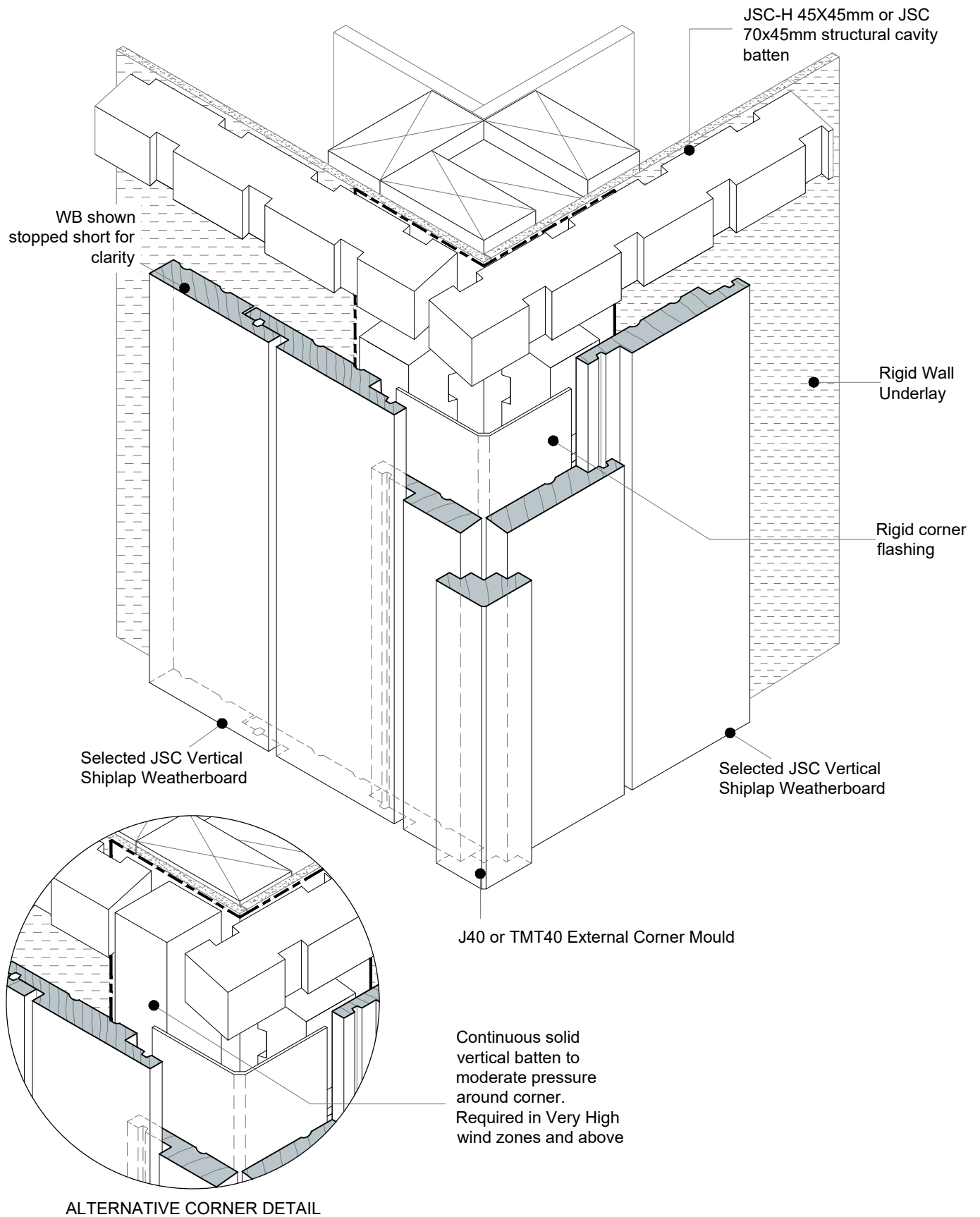


#### NOTES:

- Machine cavity battens down as required (5mm max) to accommodate corner flashing.
- For Very High (VH) and Extra High (EH) wind zones, a solid batten (non-castellated) is required down one side of a significant external corner (change in elevation) to provide pressure isolation between elevations.

• TO BE READ IN CONJUNCTION WITH COMPLETE JSC VERTICLAD SYSTEM LITERATURE

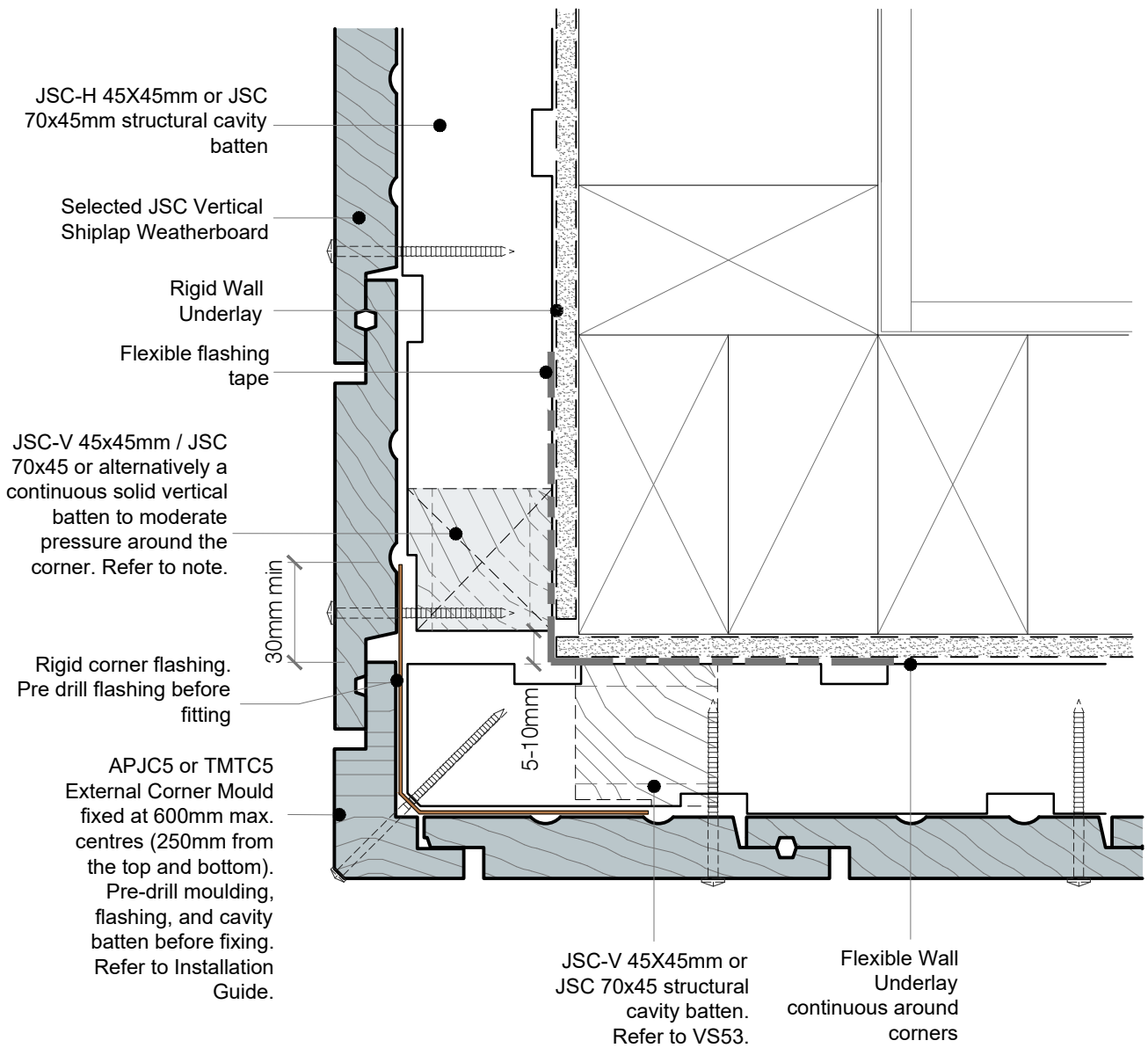




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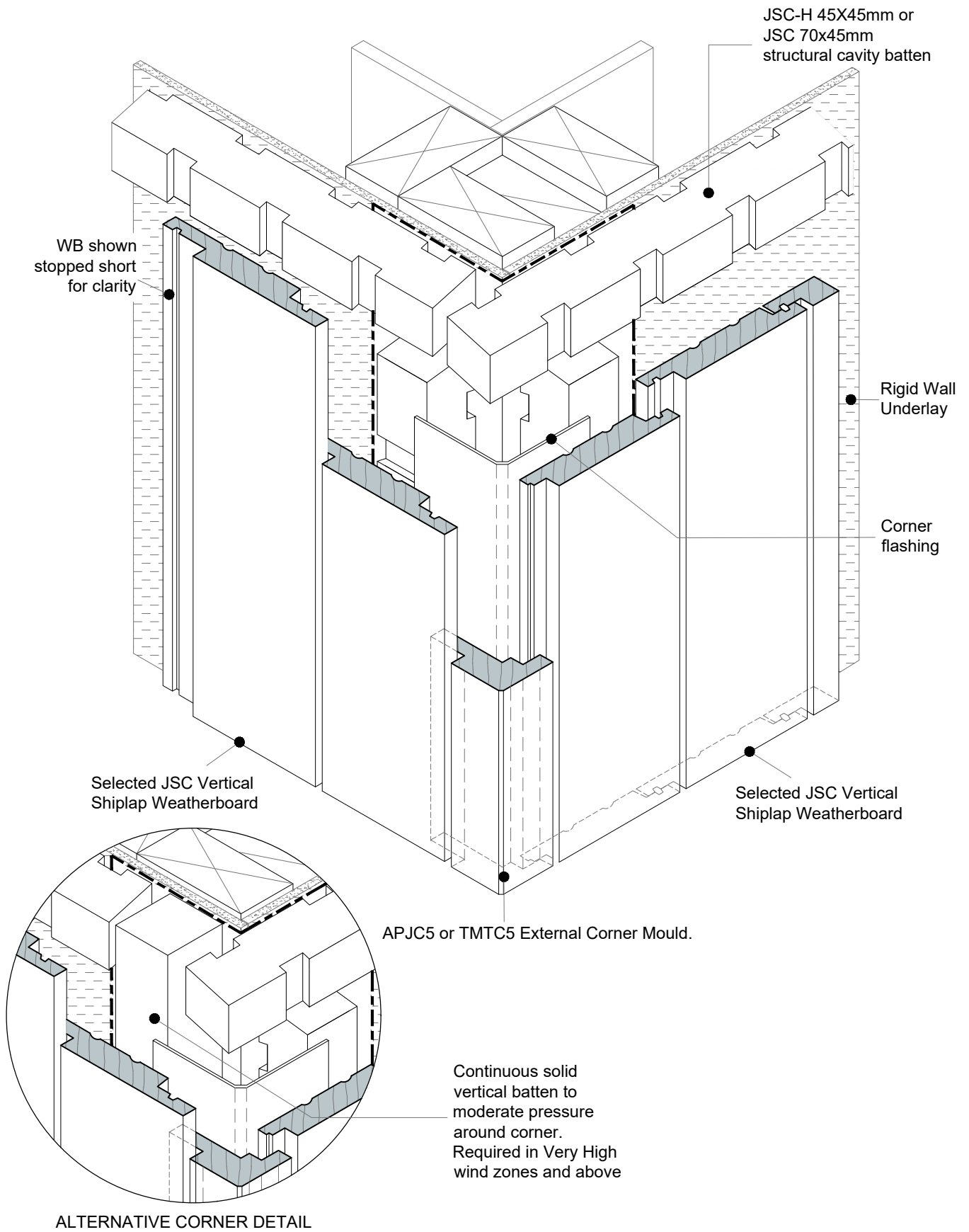


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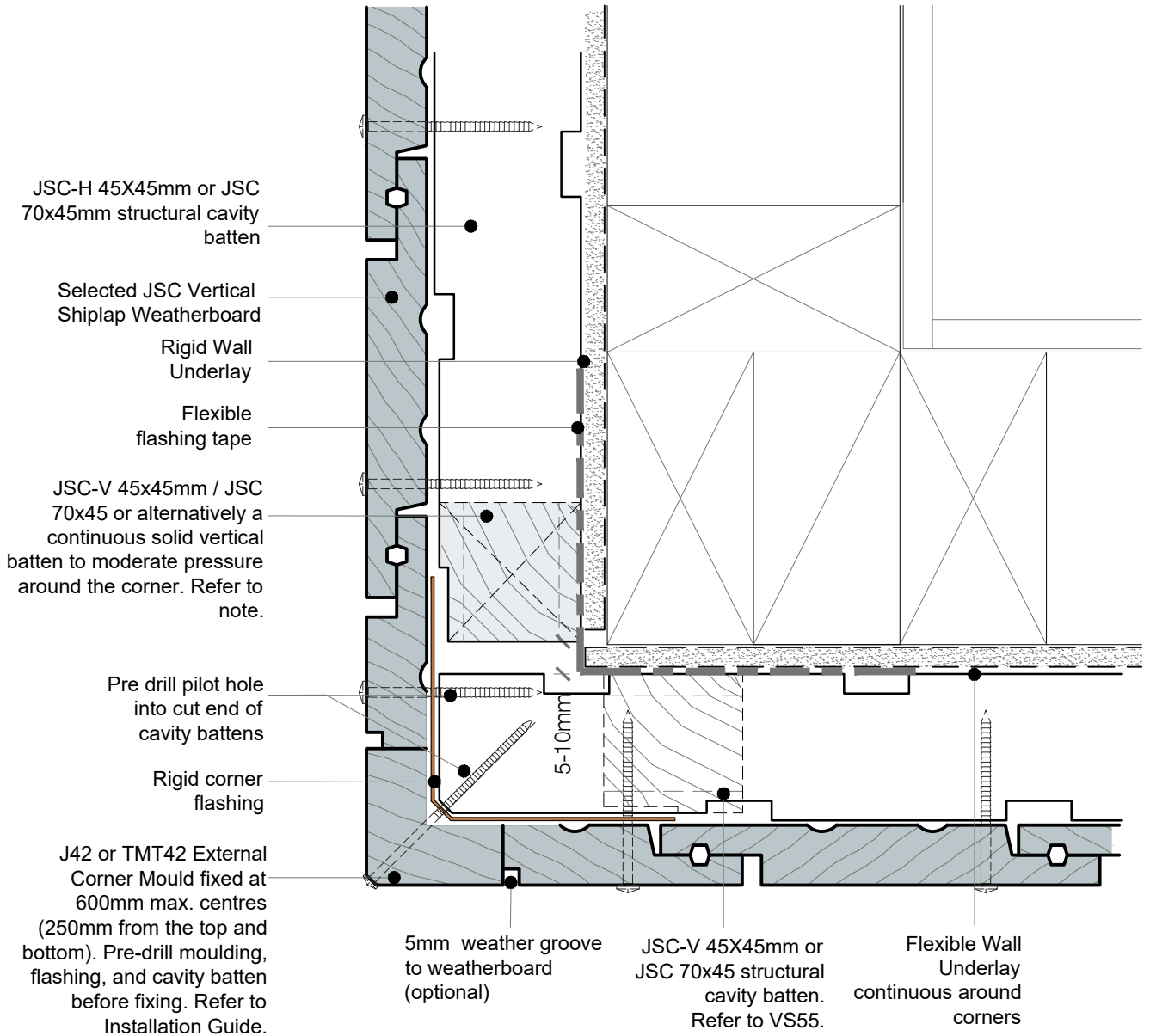


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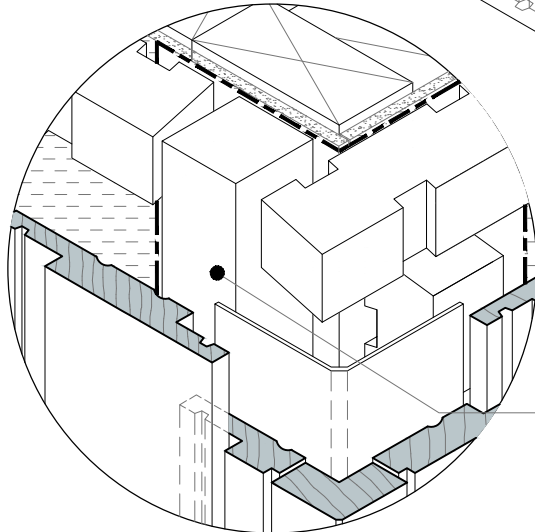
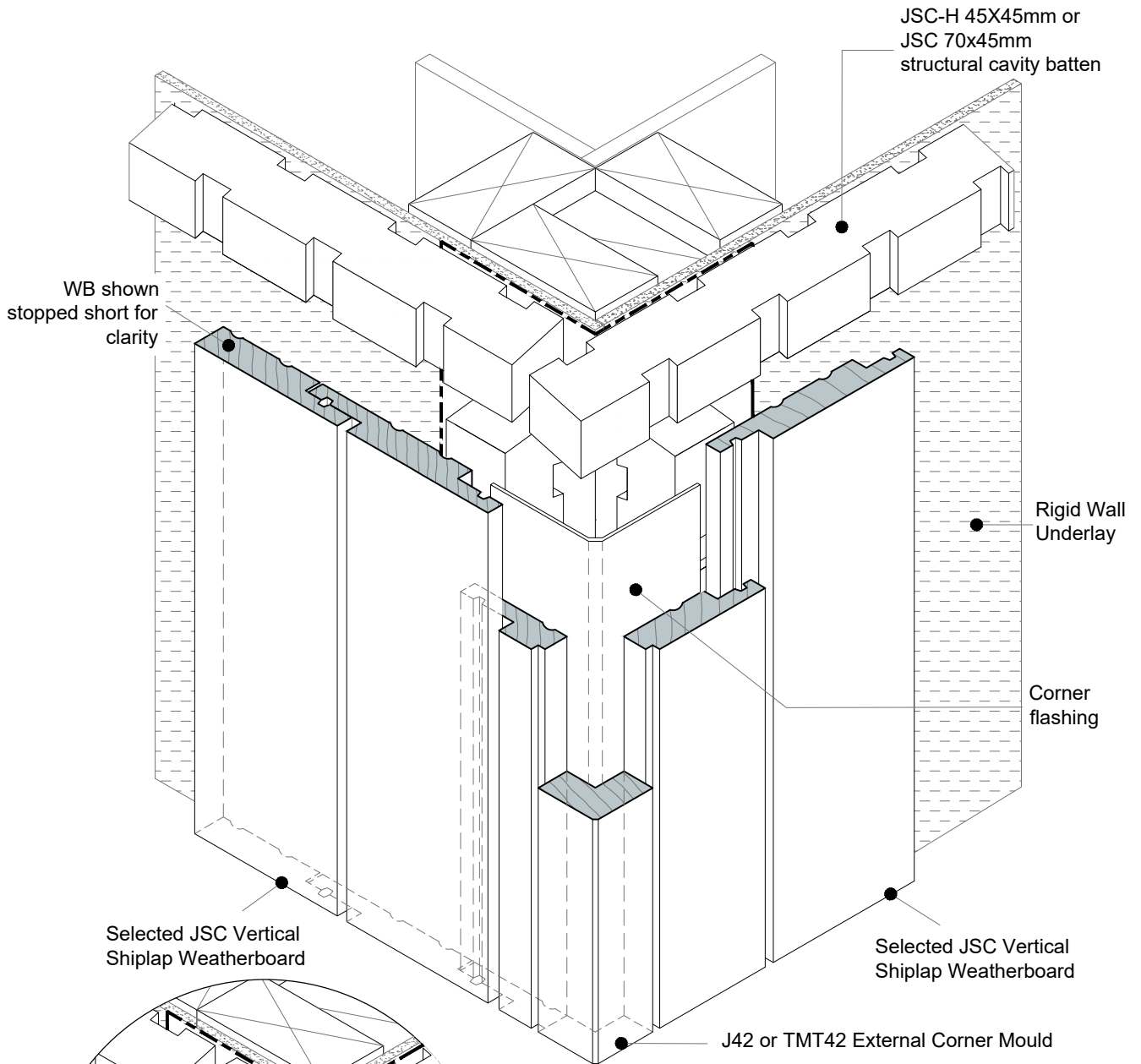




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- For Very High (VH) and Extra High (EH) wind zones, a solid batten (non-castellated) is required down one side of a significant external corner (change in elevation) to provide pressure isolation between elevations.
- JSC recommends this detail to be used for paint finished weatherboards.
- This detail is not recommended for Pine weatherboards.

• TO BE READ IN CONJUNCTION WITH COMPLETE JSC VERTICLAD SYSTEM LITERATURE



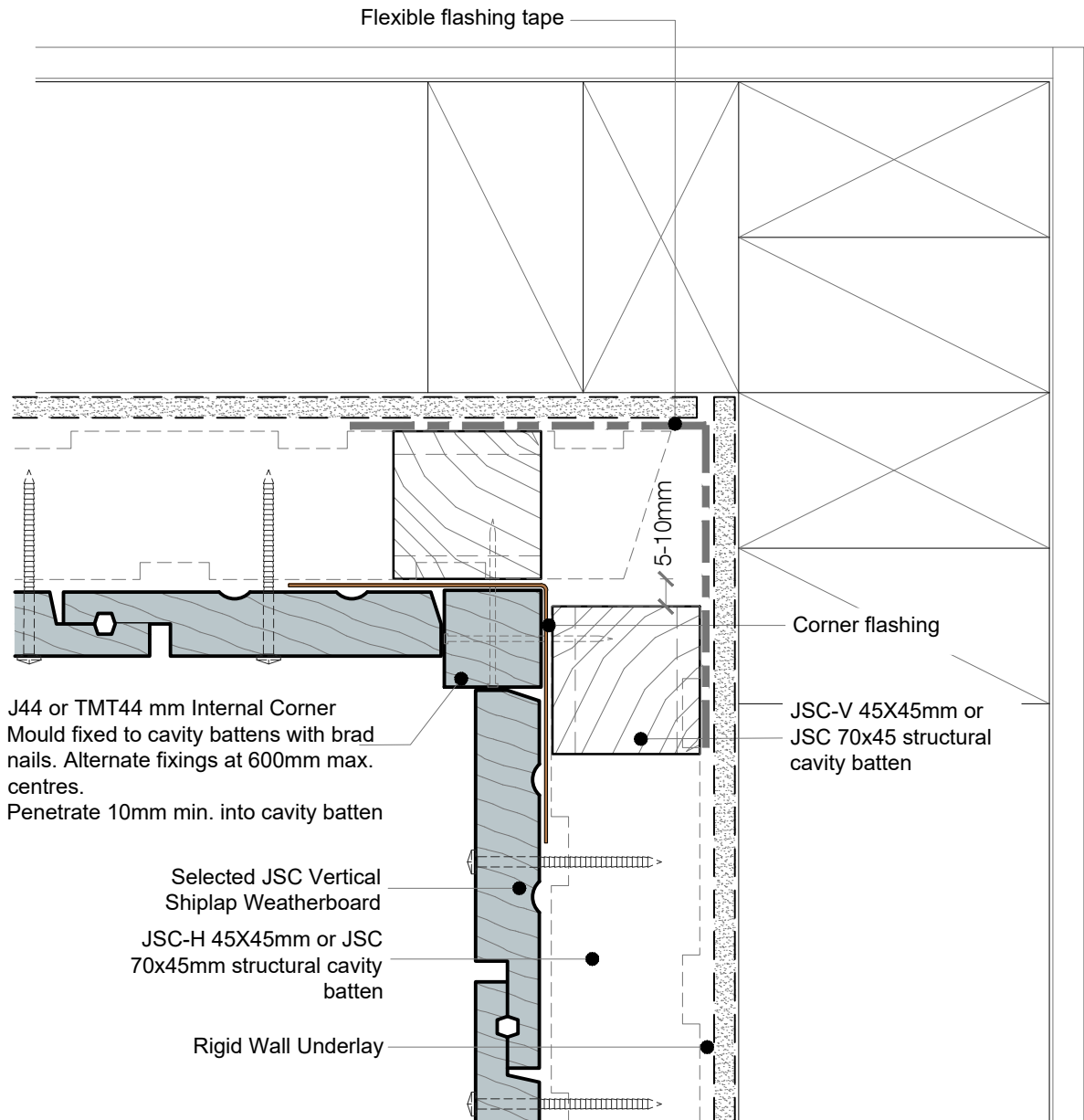
ALTERNATIVE CORNER DETAIL

NOTES:

- JSC recommends this detail to be used for paint finished weatherboards.
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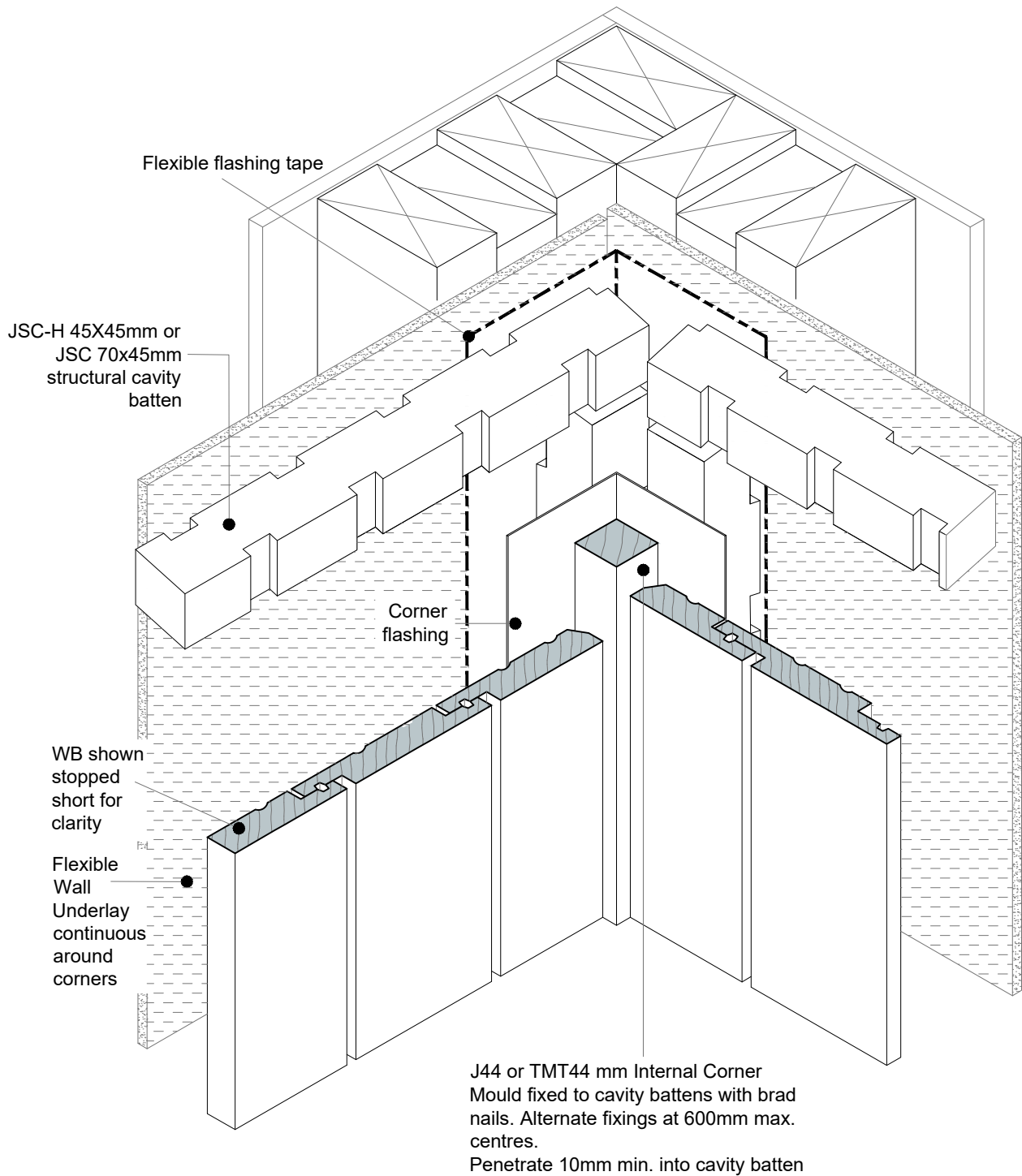


NOTES:

- Machine cavity battens down as required (5mm max) to accommodate corner flashing.
- Cut horizontal and vertical cavity battens on a 20-30° angle, sloping away from the framing.
- Flexible flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1.

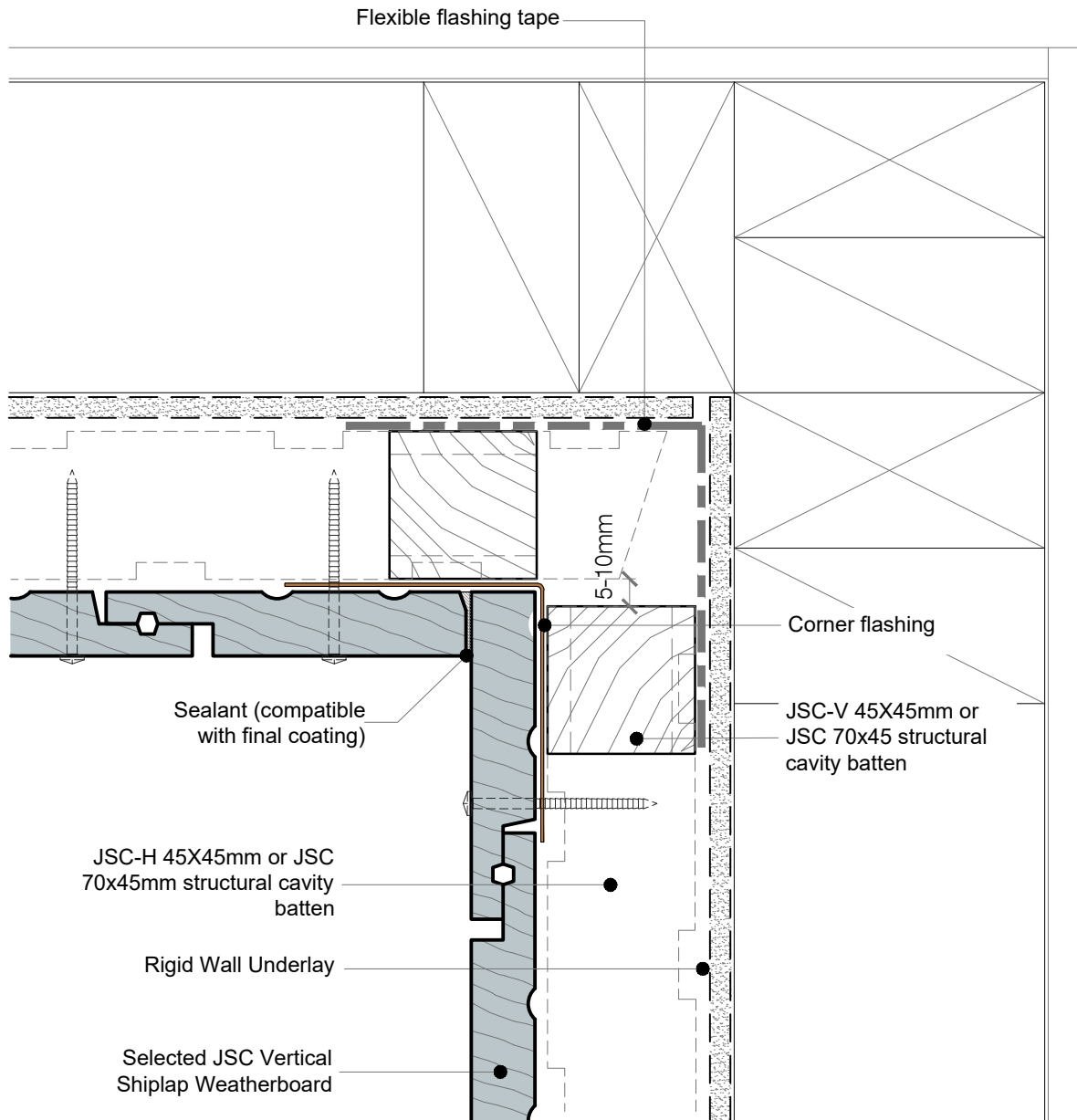
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#### NOTES:

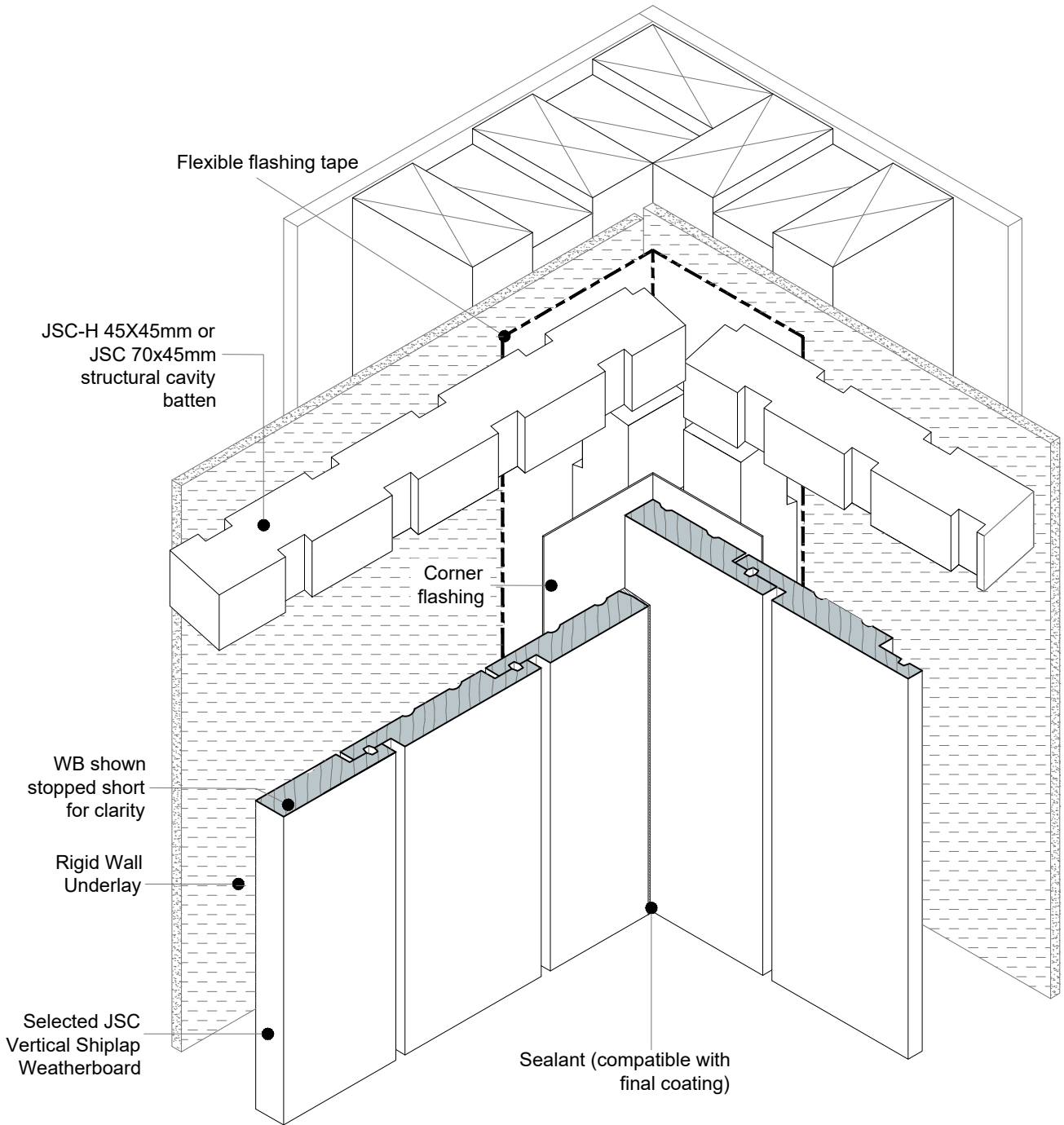
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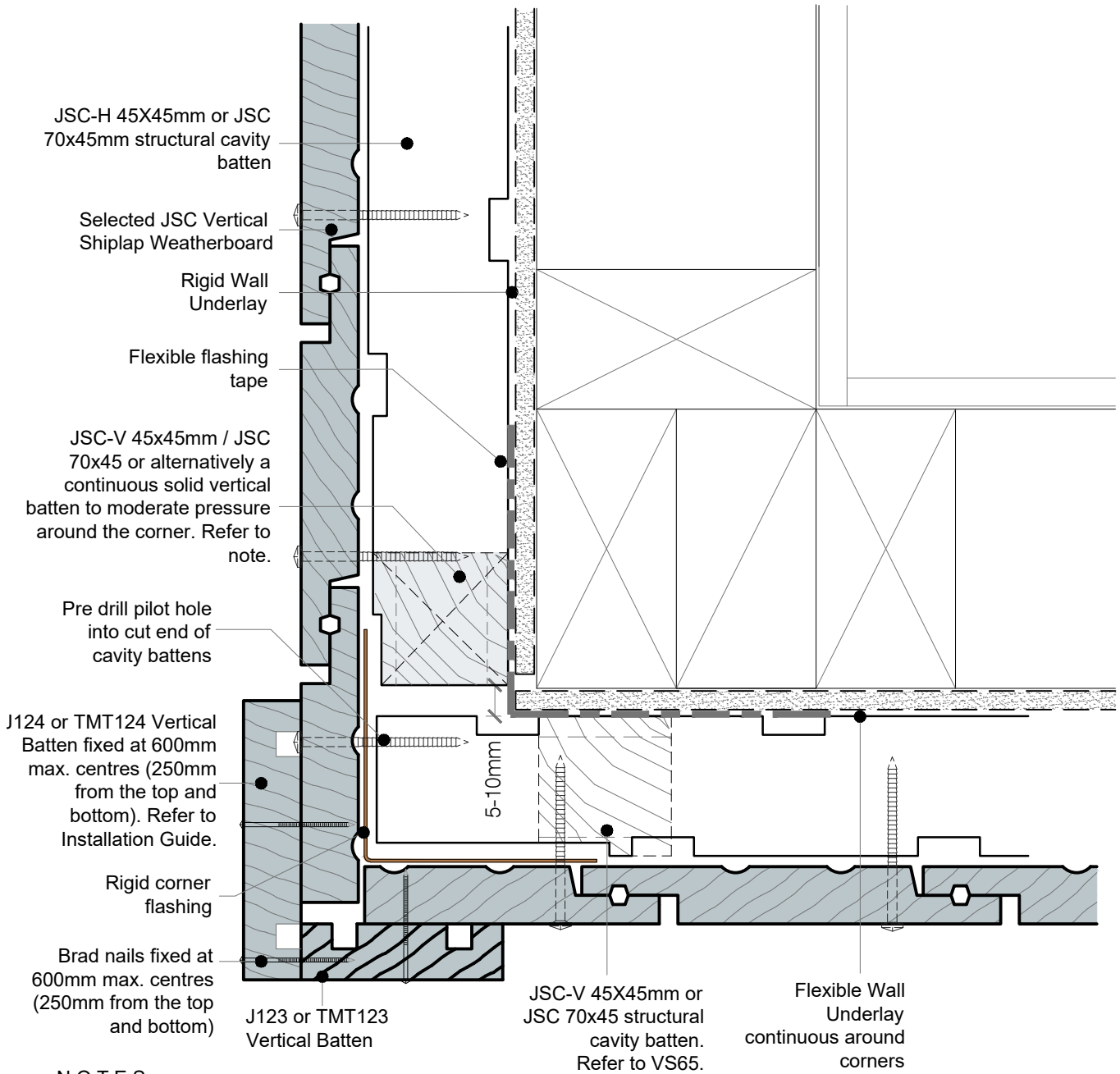
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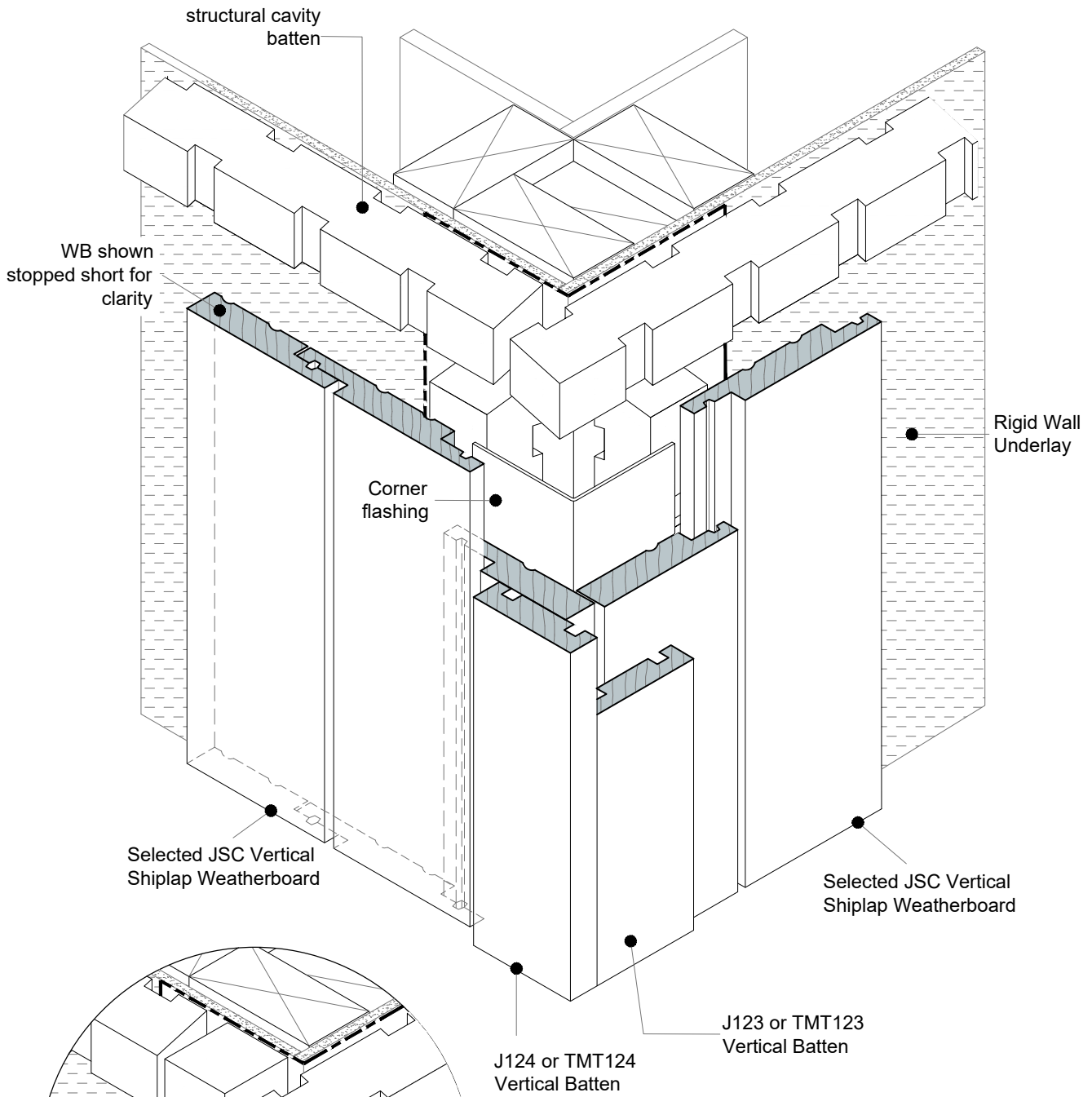


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- JSC recommends this detail to be used for pine weatherboards.

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ALTERNATIVE CORNER DETAIL

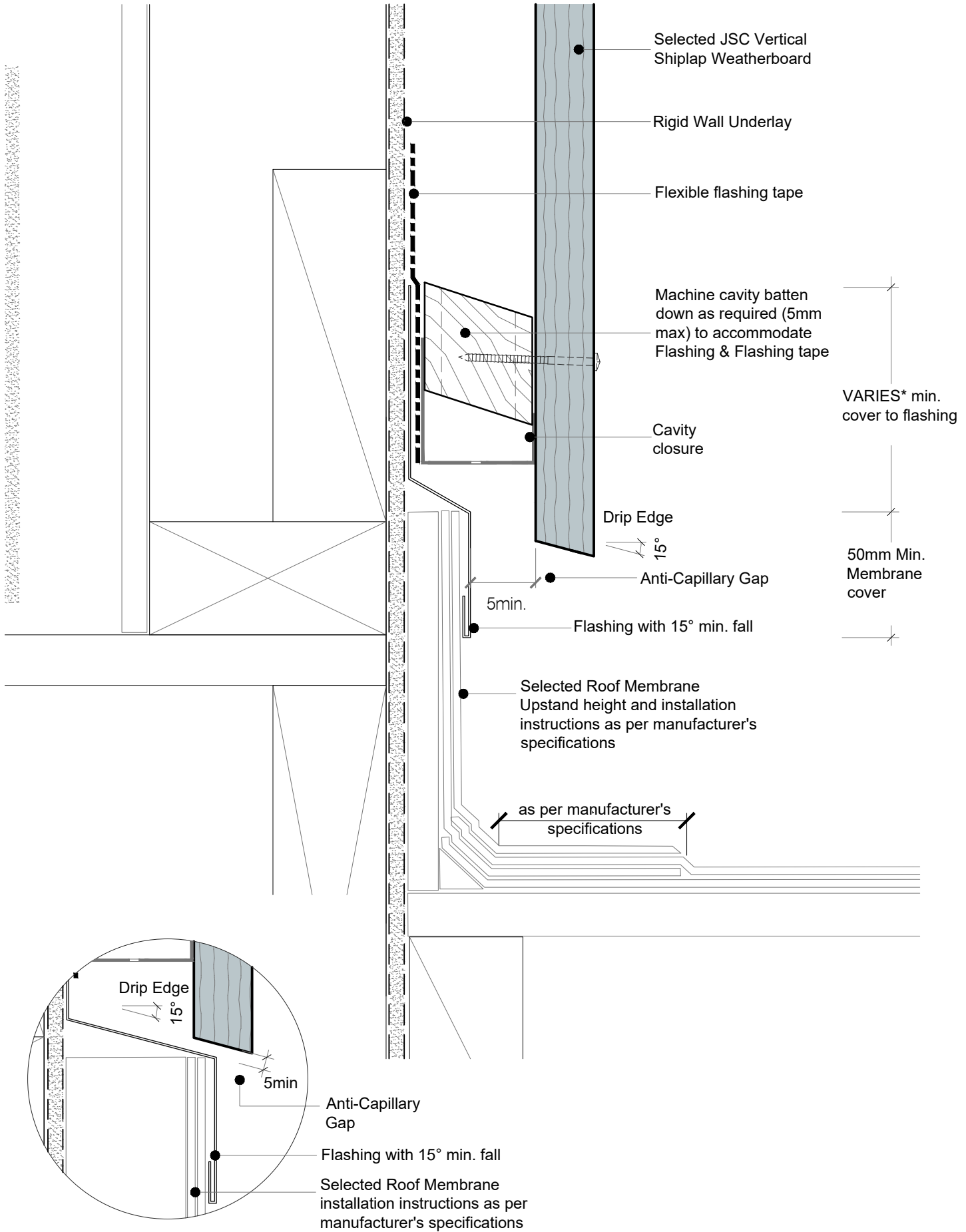
Continuous solid vertical batten to moderate pressure around corner. Only required in Very High wind zones and above

NOTES:

- JSC recommends this detail to be used for paint finished weatherboards.
- JSC recommends this detail to be used for pine weatherboards.

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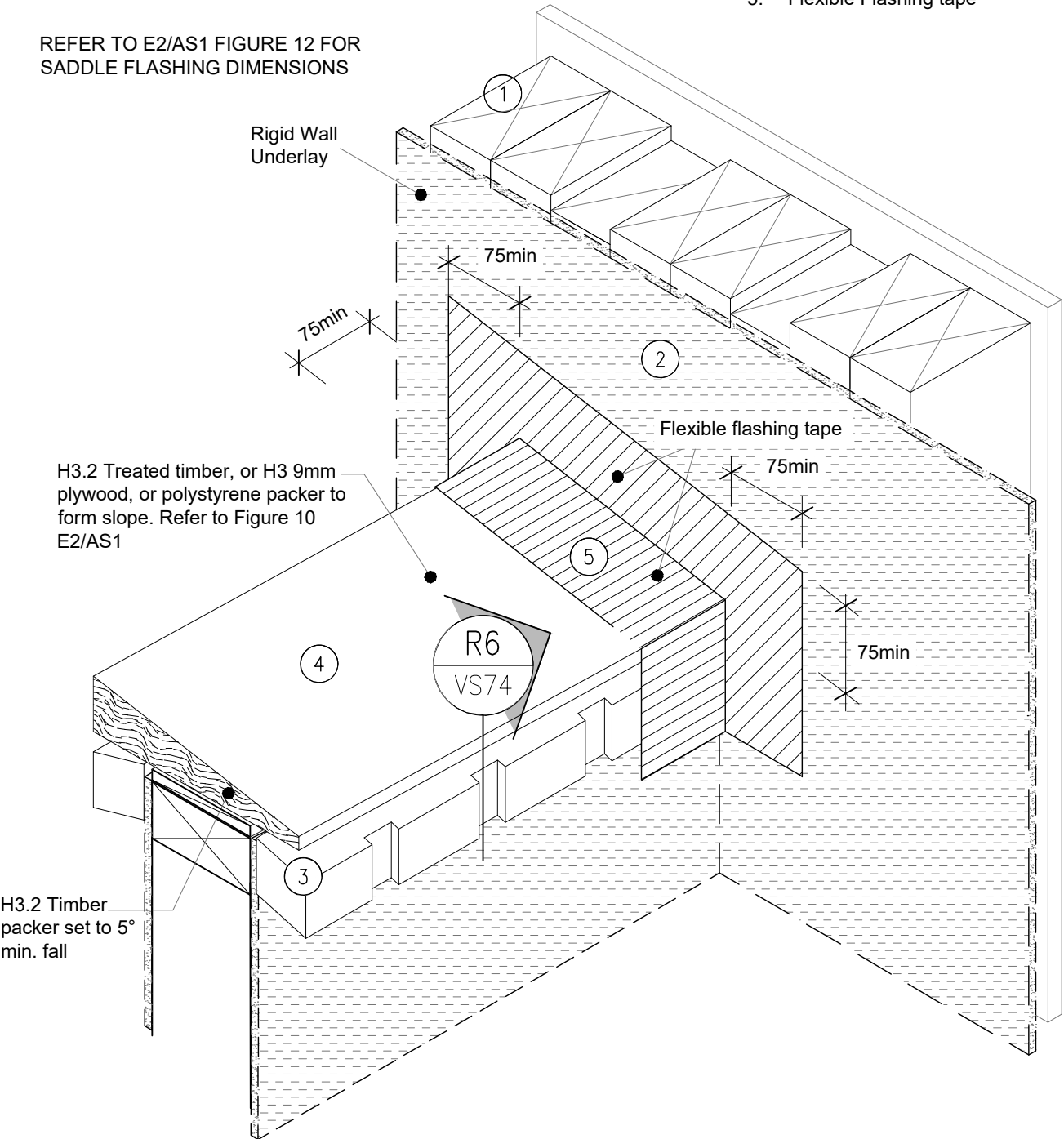


SEQUENCE :

1. Framing
2. Wall Underlay
3. Parapet Cavity battens
4. Packer to form slope
5. Flexible Flashing tape

DETAIL NOTE :

REFER TO E2/AS1 FIGURE 12 FOR SADDLE FLASHING DIMENSIONS



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TYPE  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX  
NAME  
Parapet Saddle Flashing - Stage One

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ISSUE DATE  
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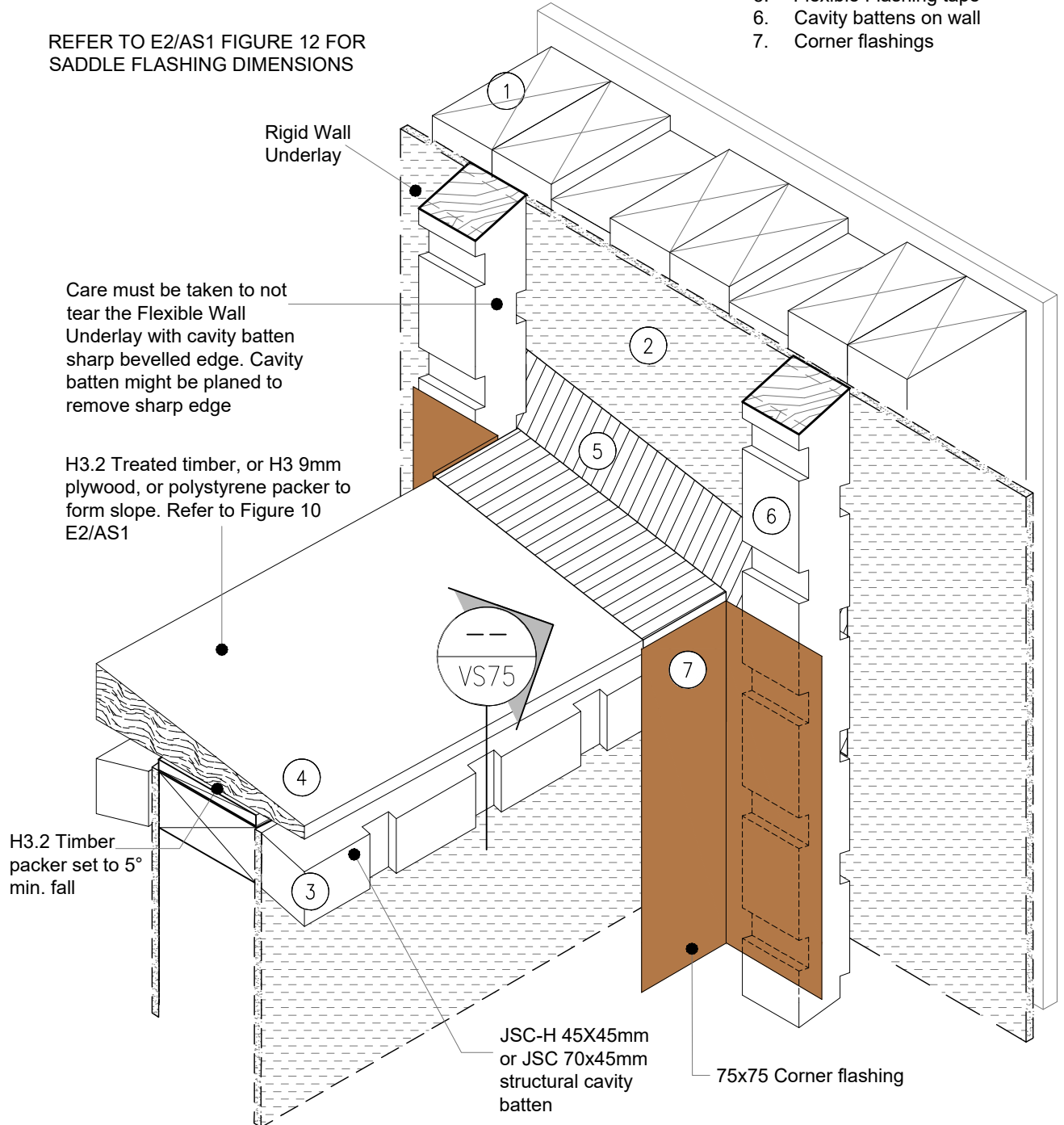
DRAWING NUMBER  
JSC 45CR VS71a  
VERSION  
2.5

SEQUENCE :

1. Framing
2. Wall Underlay
3. Parapet Cavity battens
4. Packer to form slope
5. Flexible Flashing tape
6. Cavity battens on wall
7. Corner flashings

DETAIL NOTE :

REFER TO E2/AS1 FIGURE 12 FOR SADDLE FLASHING DIMENSIONS



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TYPE  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX  
NAME  
Parapet Saddle Flashing - Stage Two

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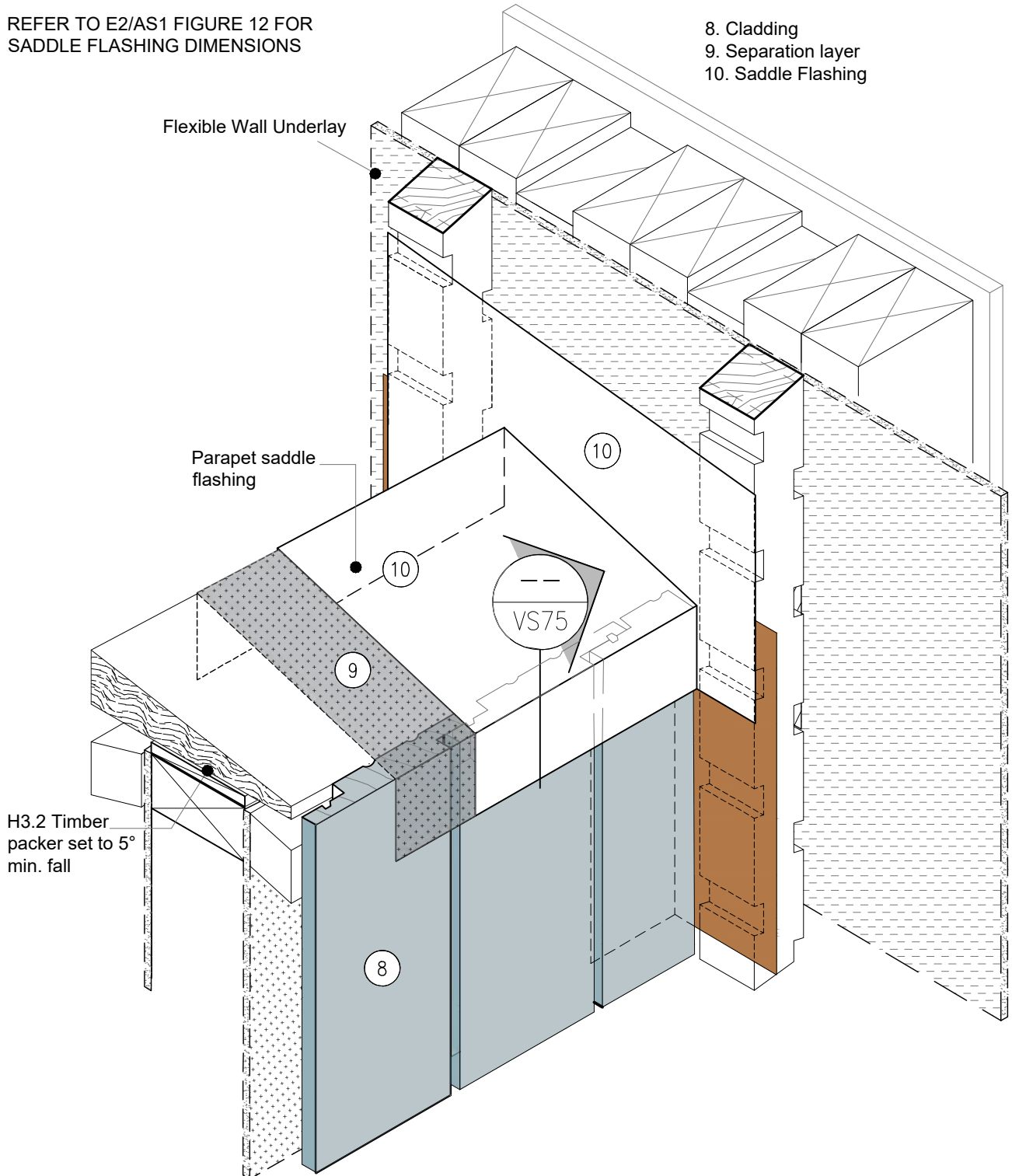
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DRAWING NUMBER JSC 45CR VS71b	VERSION 2.5

## DETAIL NOTE :

REFER TO E2/AS1 FIGURE 12 FOR  
SADDLE FLASHING DIMENSIONS

## SEQUENCE :

8. Cladding
9. Separation layer
10. Saddle Flashing



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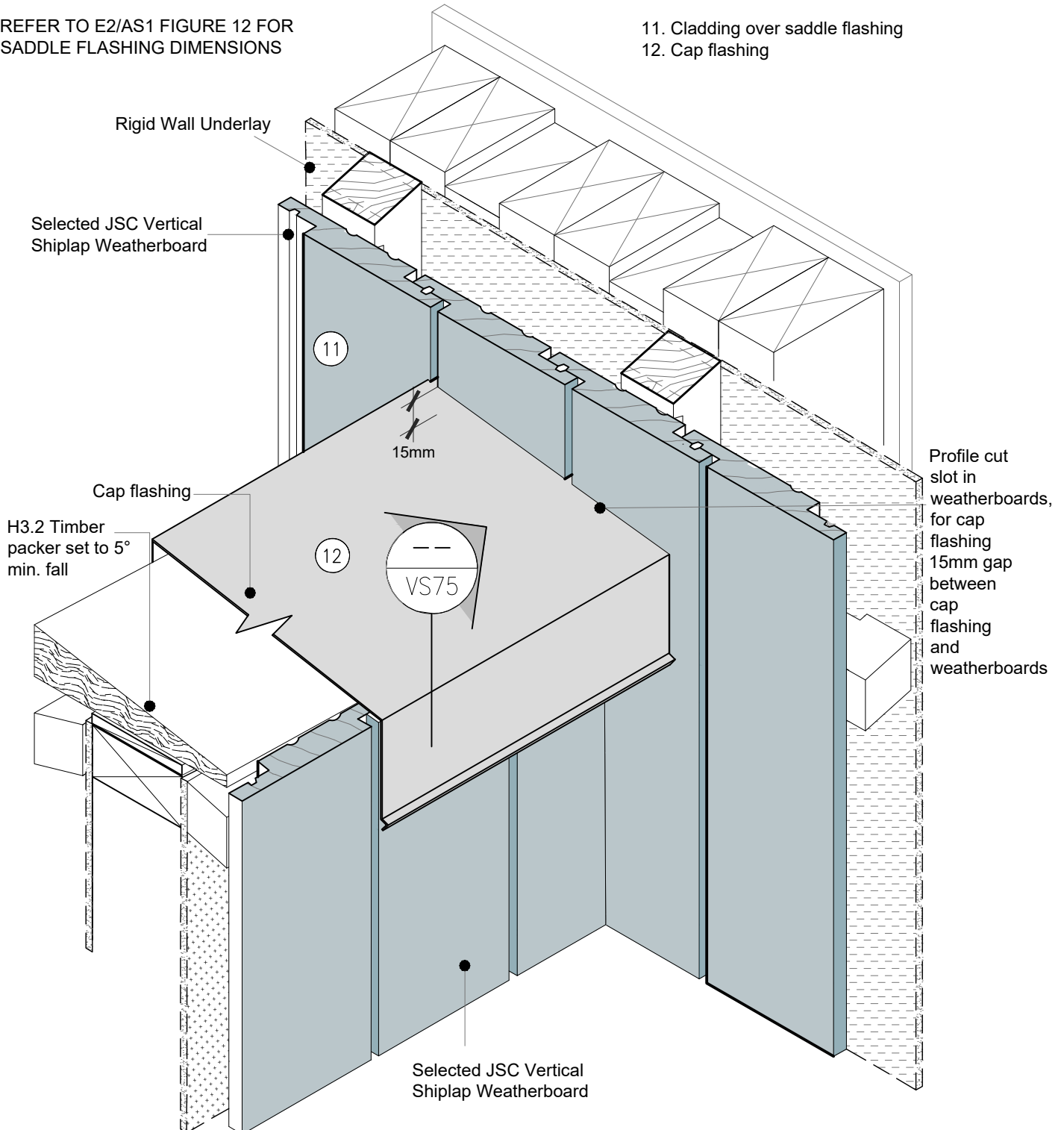


### DETAIL NOTE :

REFER TO E2/AS1 FIGURE 12 FOR  
SADDLE FLASHING DIMENSIONS

### SEQUENCE :

11. Cladding over saddle flashing
12. Cap flashing



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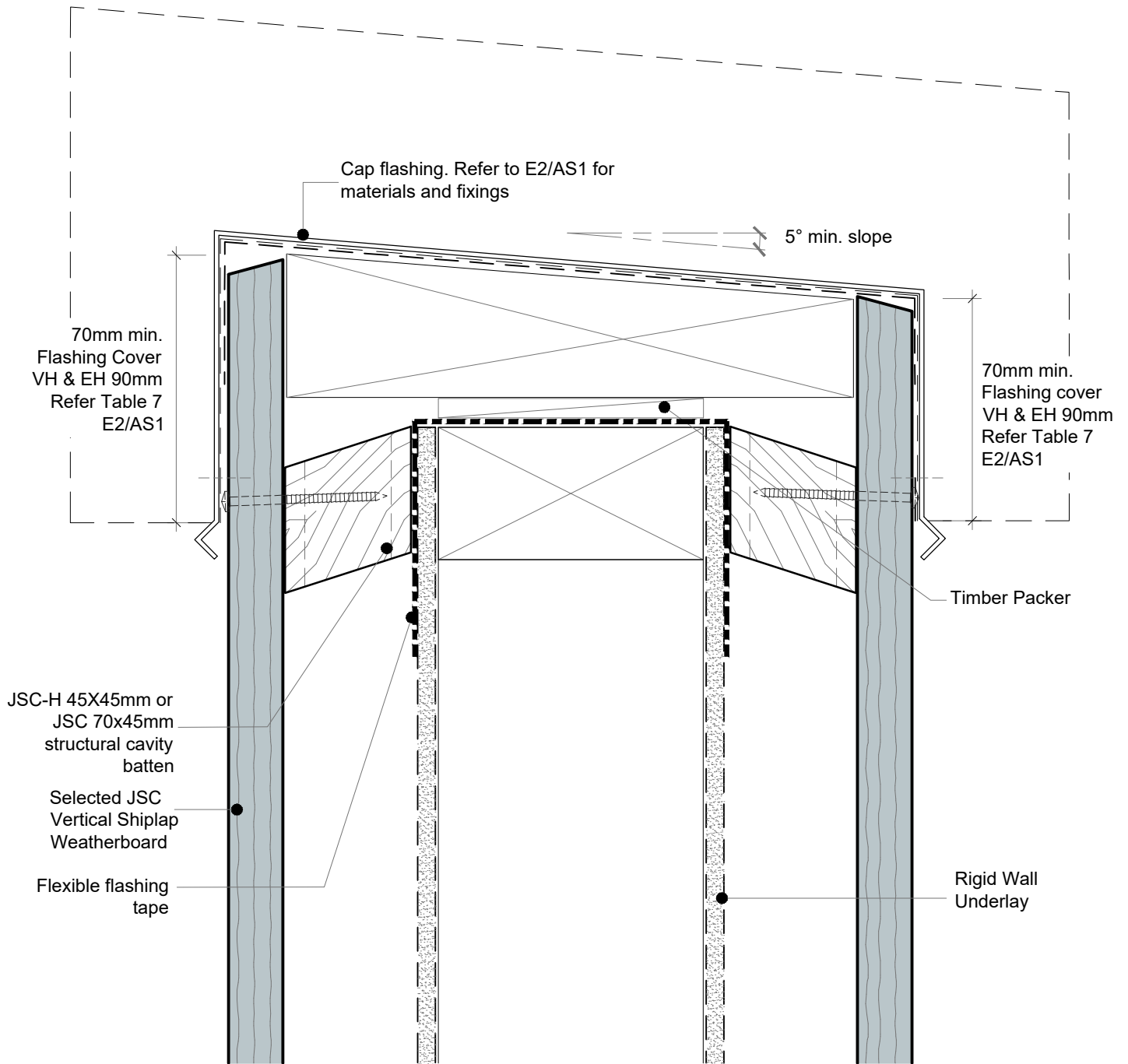
**TYPE**  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX  
**NAME**  
Parapet Saddle Flashing - Stage Four

• DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE



SCAN IT FOR MORE  
INFORMATION

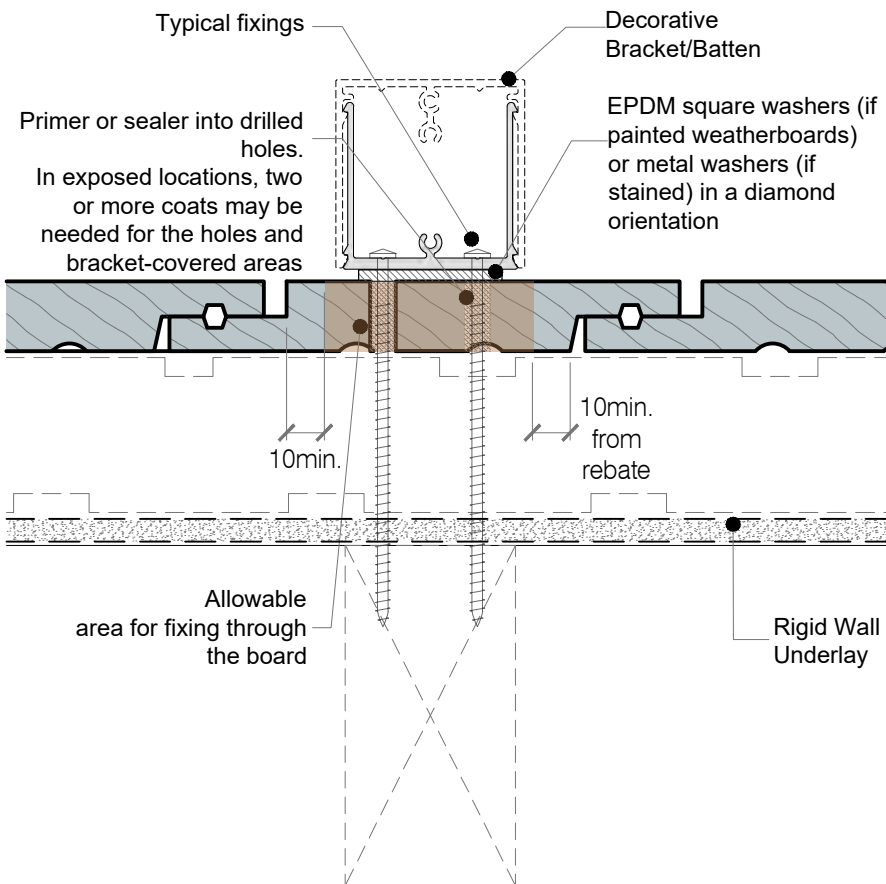
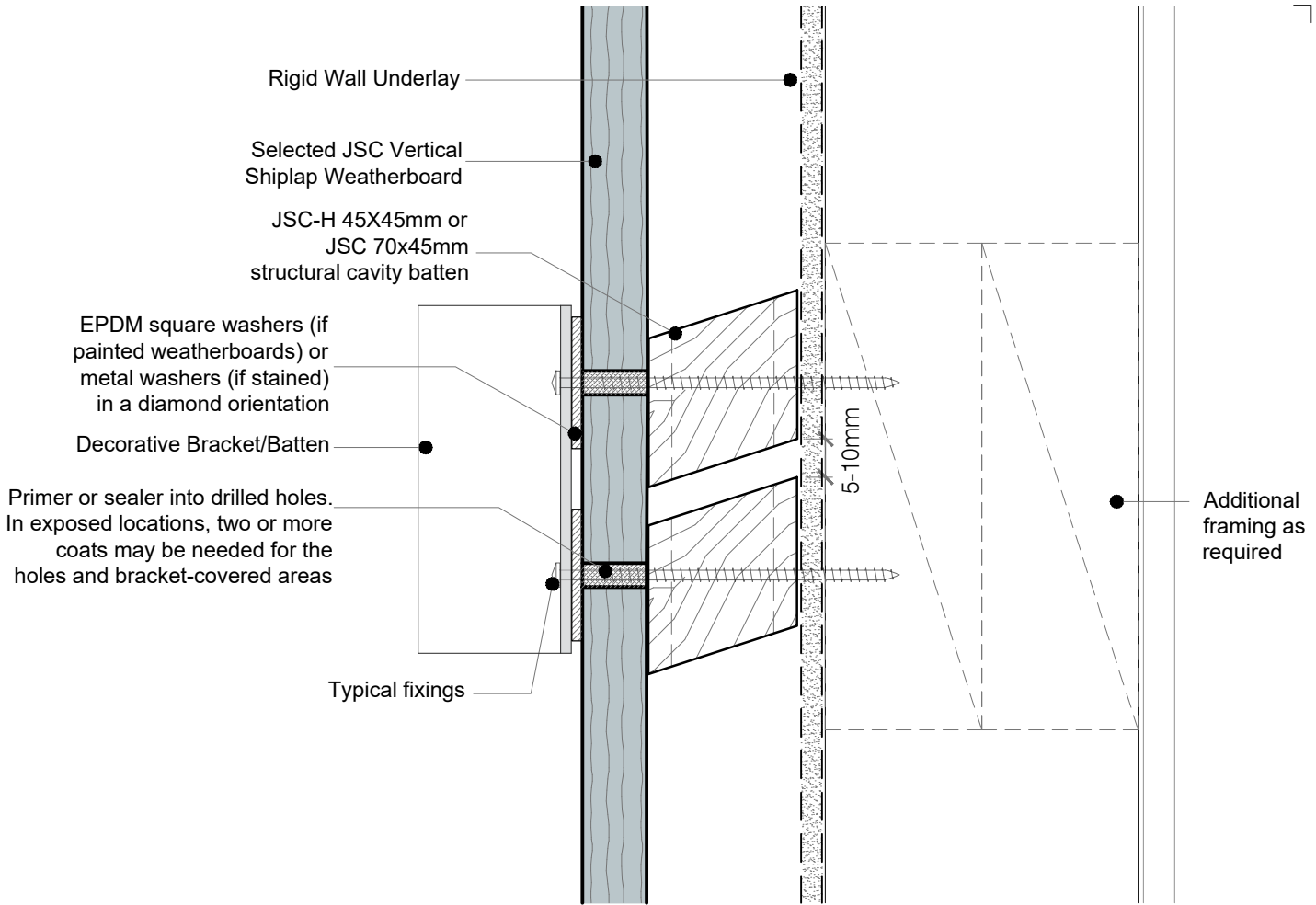
<b>DRAWING SCALE</b> 1:2 @ A4	<b>ISSUE DATE</b> 24/02/2025
<b>DRAWING NUMBER</b> JSC 45CR VS71d	<b>VERSION</b> 2.5



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**CodeMark**  
CMNZ30084





#### NOTES:

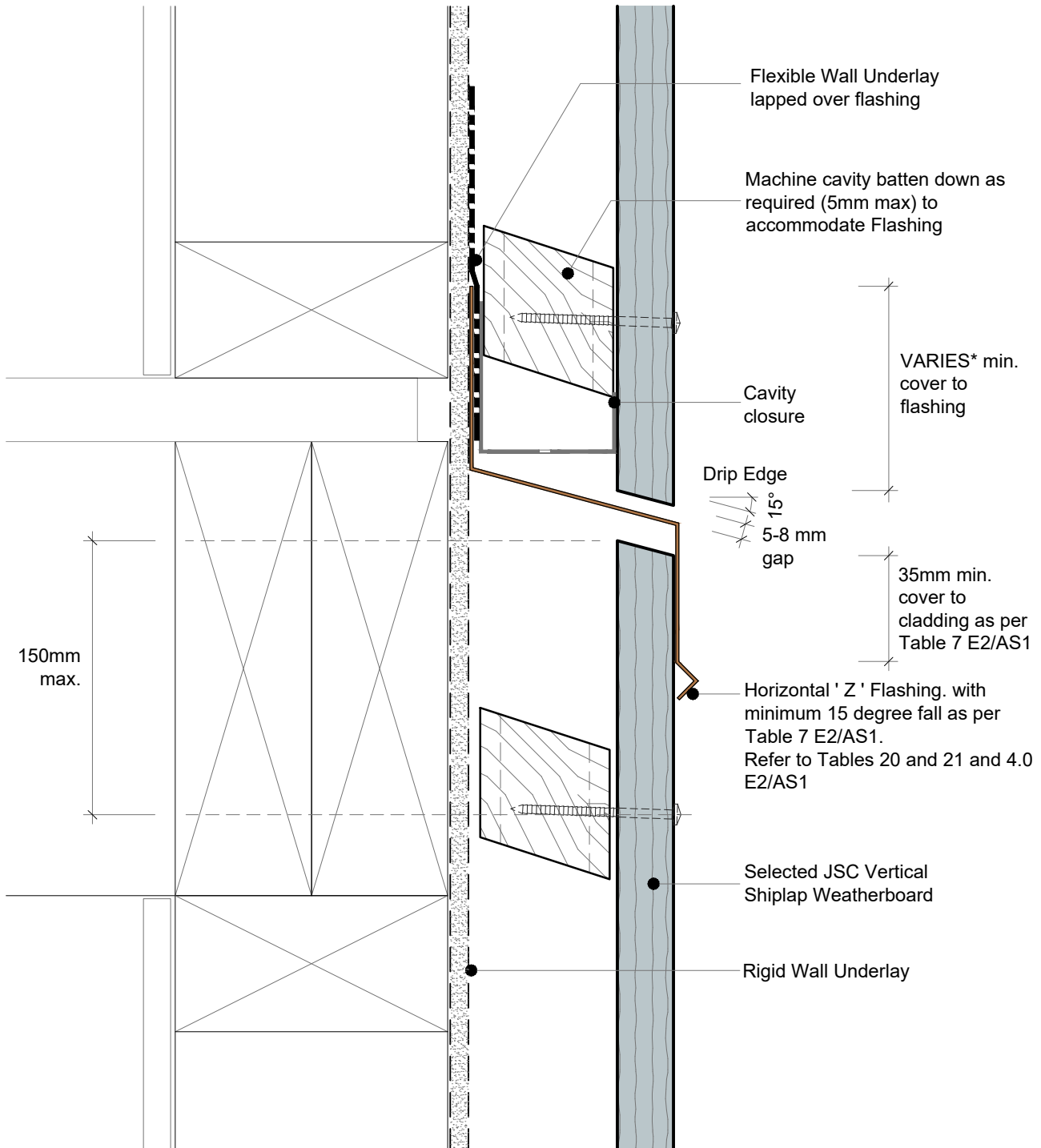
- This detail is to show penetration through the cladding. Framing structure and fixings as per NZS3604:2011 or Specific engineered design.
- Refer to this detail as a principle rather than specific instruction.
- Durable and compatible materials as specified in E2/AS1 Tables 22 and 23.
- If bracket fixings interfere with weatherboard laps, consider an alternative, such as an offset bracket.
- Fixings should be sufficient for the load, with this detail intended for low to medium forces (decorative batten)

Any penetration or contact with the cladding should:

- Be coated for water resistance (e.g., two coats of stain).
- Be inspectable; avoid hidden high-risk penetrations.
- Be maintainable; brackets should be removable for inspection or treatment of weatherboards.

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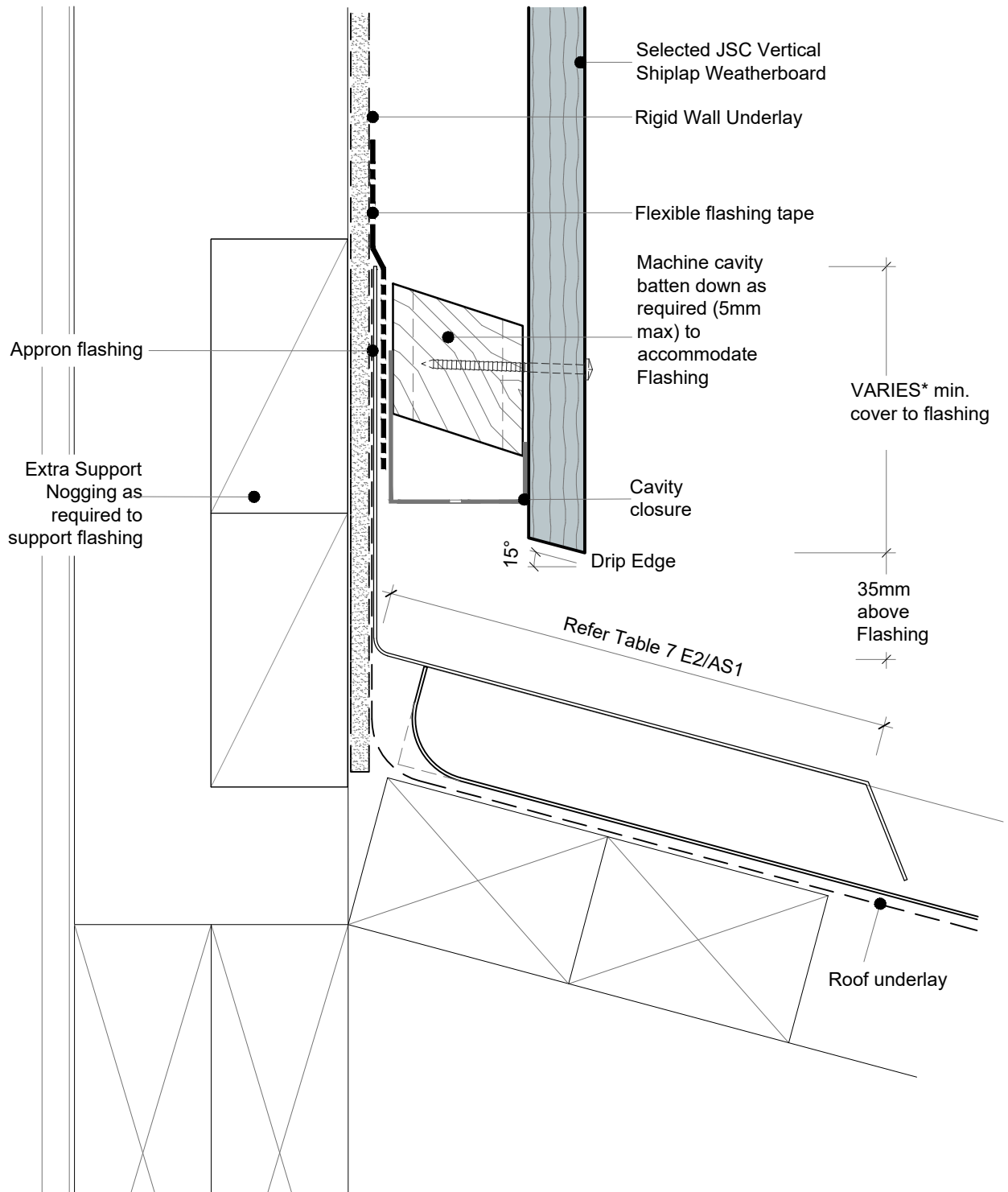




\*JSC recommends no hooks or hems. Therefore, the flashing upstand dimensions must be increased by 25 mm in accordance with E2/AS1, Section 4.5.1

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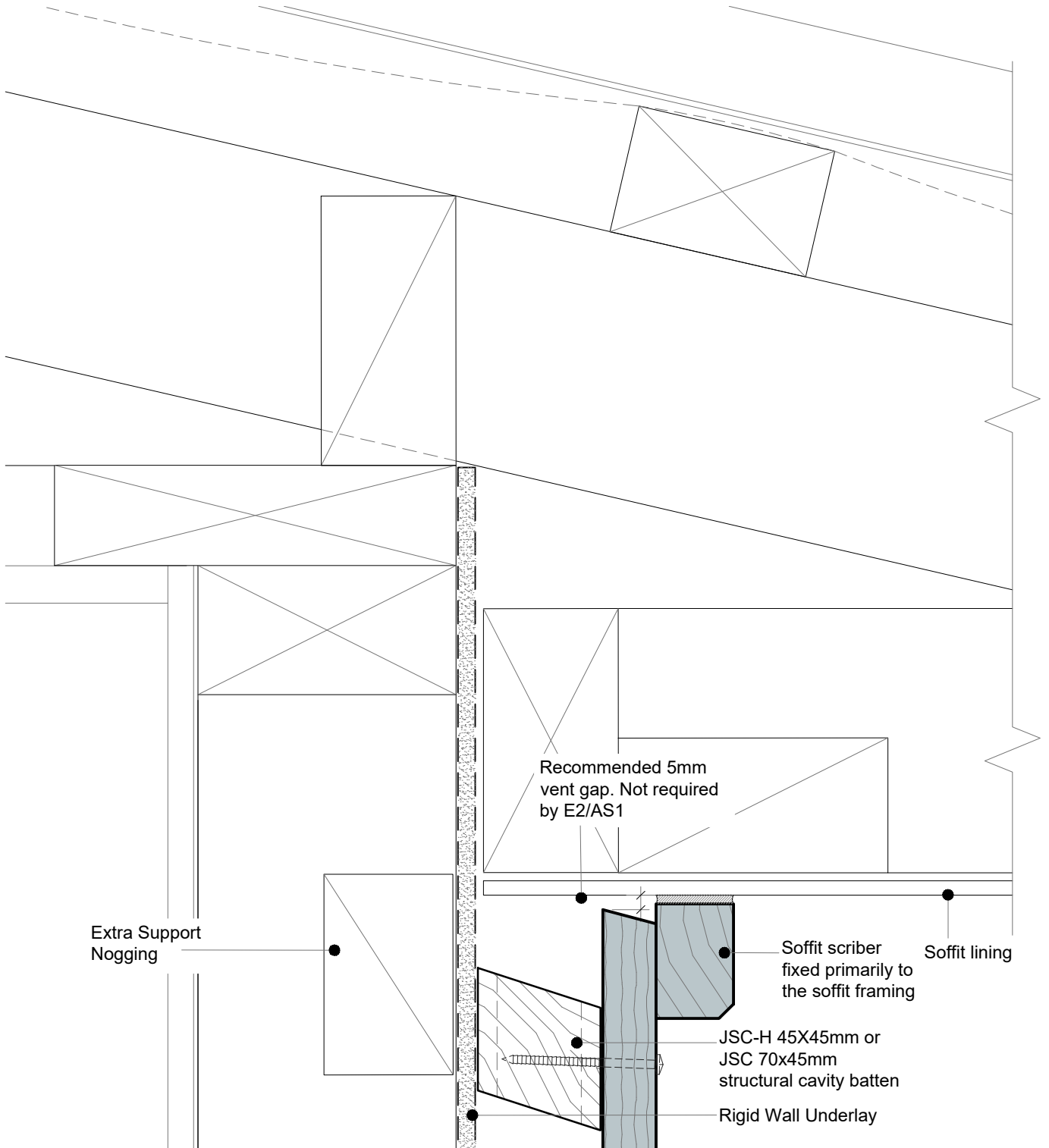
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**CodeMark**  
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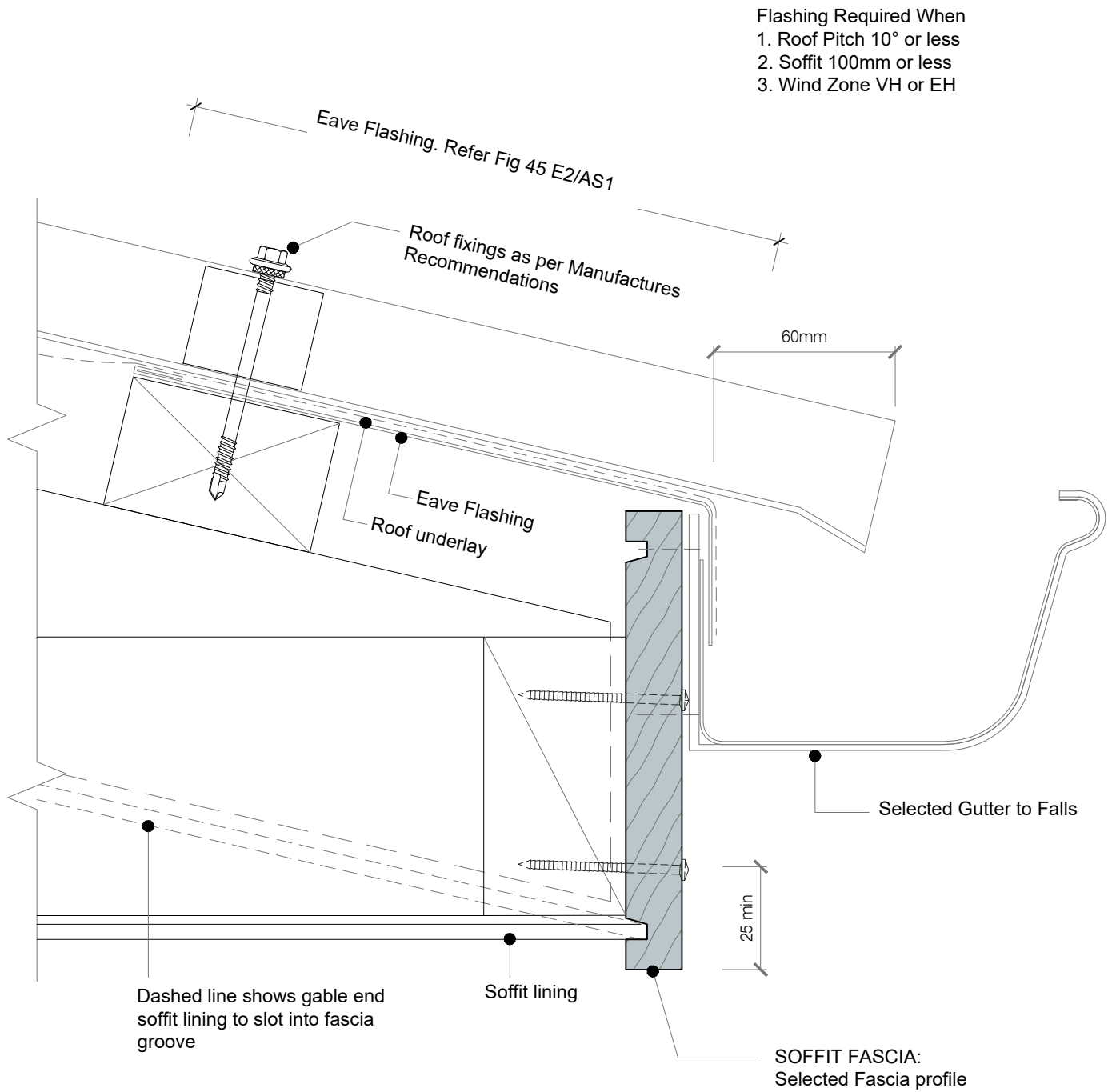


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INFORMATION

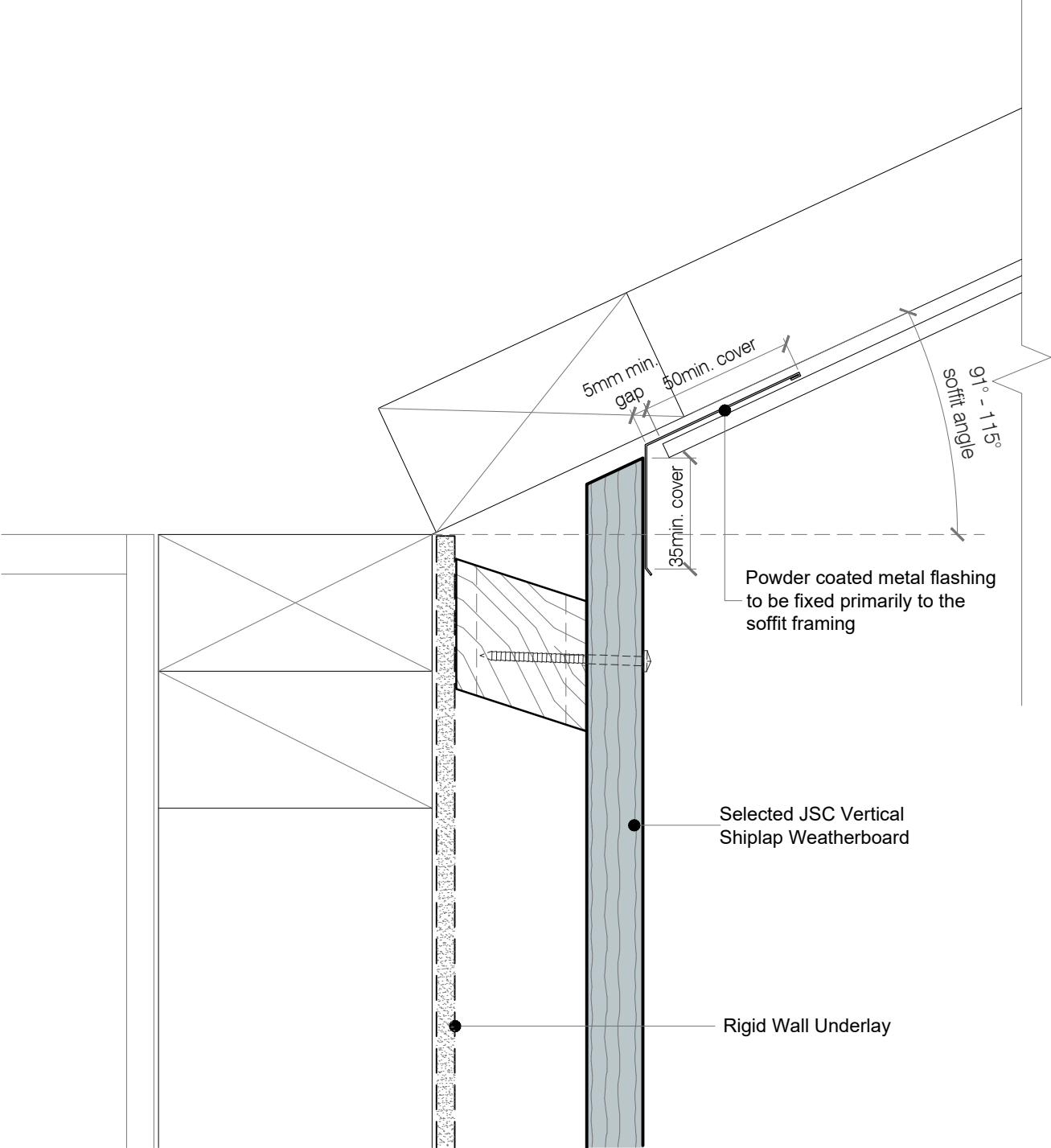


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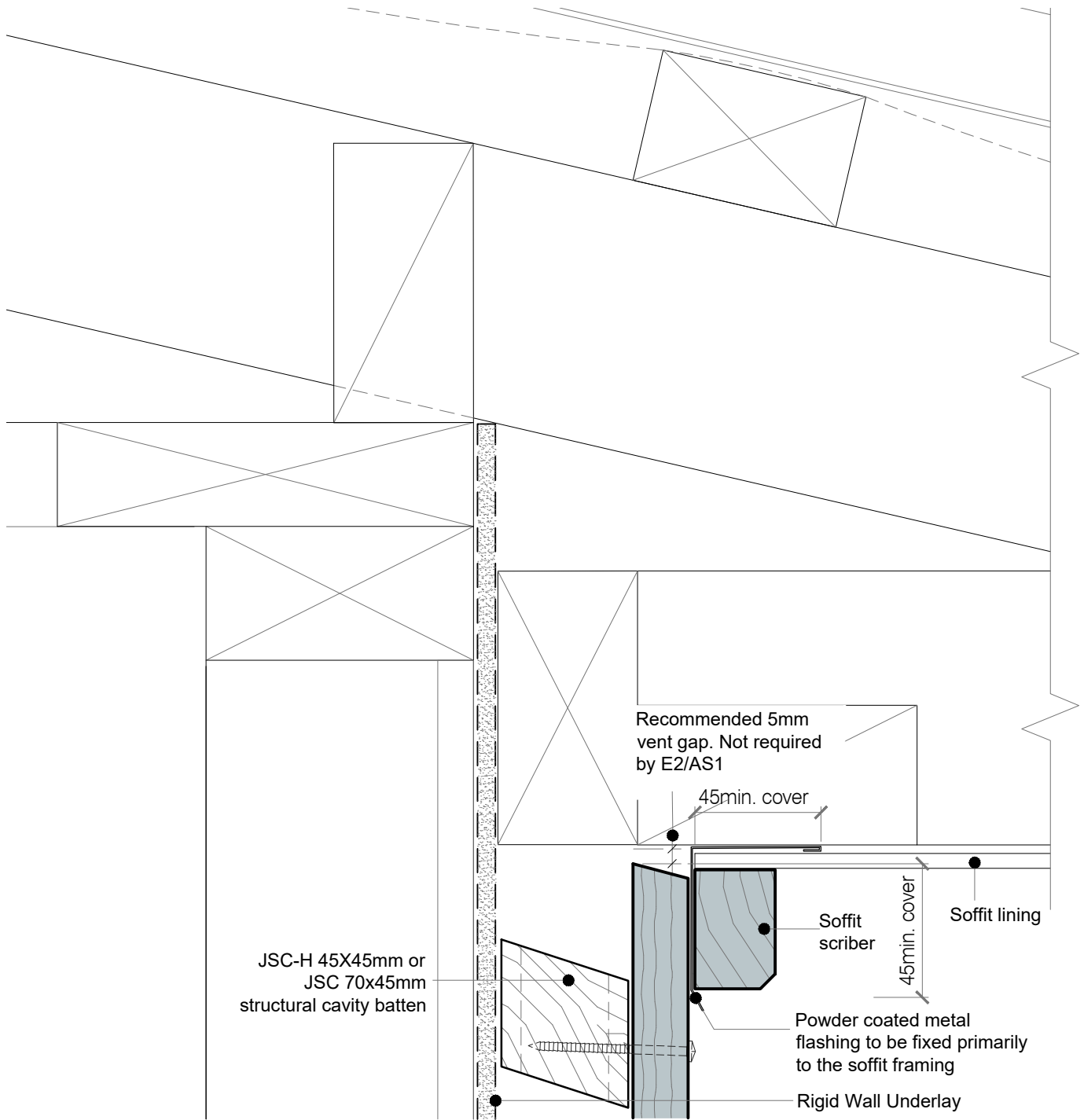
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INFORMATION

DRAWING SCALE 1:2 @ A4	ISSUE DATE 24/02/2025
DRAWING NUMBER JSC 45CR VS84	VERSION 2.5



- DETAIL NOTES :
- 1. 45° max. fall along soffit juncton
  - 2. Refer to BRANZ Build 158-27 - Build Right Soffit Details at Gable Verge

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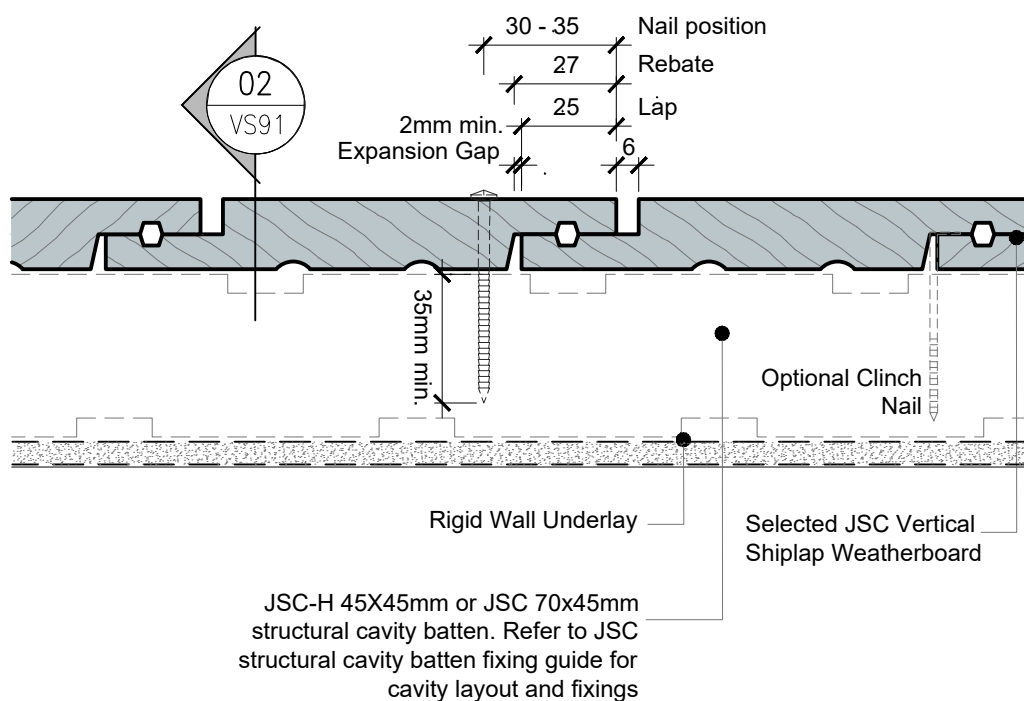
SCAN IT FOR MORE  
INFORMATION

**Weatherboards:**

- Single fix at each cavity batten with annular grooved nails (stainless steel 316 or silicon bronze) as per NZBC E2/AS1 Table 24
- Pre-drill holes approximately 1mm smaller than the nail gauge. Example: For a 75mm nail, use a 2.5mm drill
- Nailed with slight ( $2^{\circ}+$ ) upward slope
- Fixings to achieve a minimum of 35mm penetration into the cavity battens
- Minimum 50mm from the ends of boards
- Use an accurate packer in the negative detail. Do not rely on clinch nails for spacing

**Cavity battens**

- Will be fixed structurally to the framing. The fixings must achieve a minimum fixing tension of 1.8kN to 2.2kN. Refer to JSC Structural Cavity Batten fixing guide
- Must always be installed sloping away from the framing
- Must have a 5-10mm gap between them



## Plan Section 01

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**TYPE**  
VERTICAL SHIPLAP WB - 45mm CAVITY FIX  
**NAME**  
Weatherboard Fixing - Plan View

• DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE



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INFORMATION

**DRAWING SCALE**  
1:2 @ A4

**ISSUE DATE**  
24/02/2025

**DRAWING NUMBER**  
JSC 45CR VS90

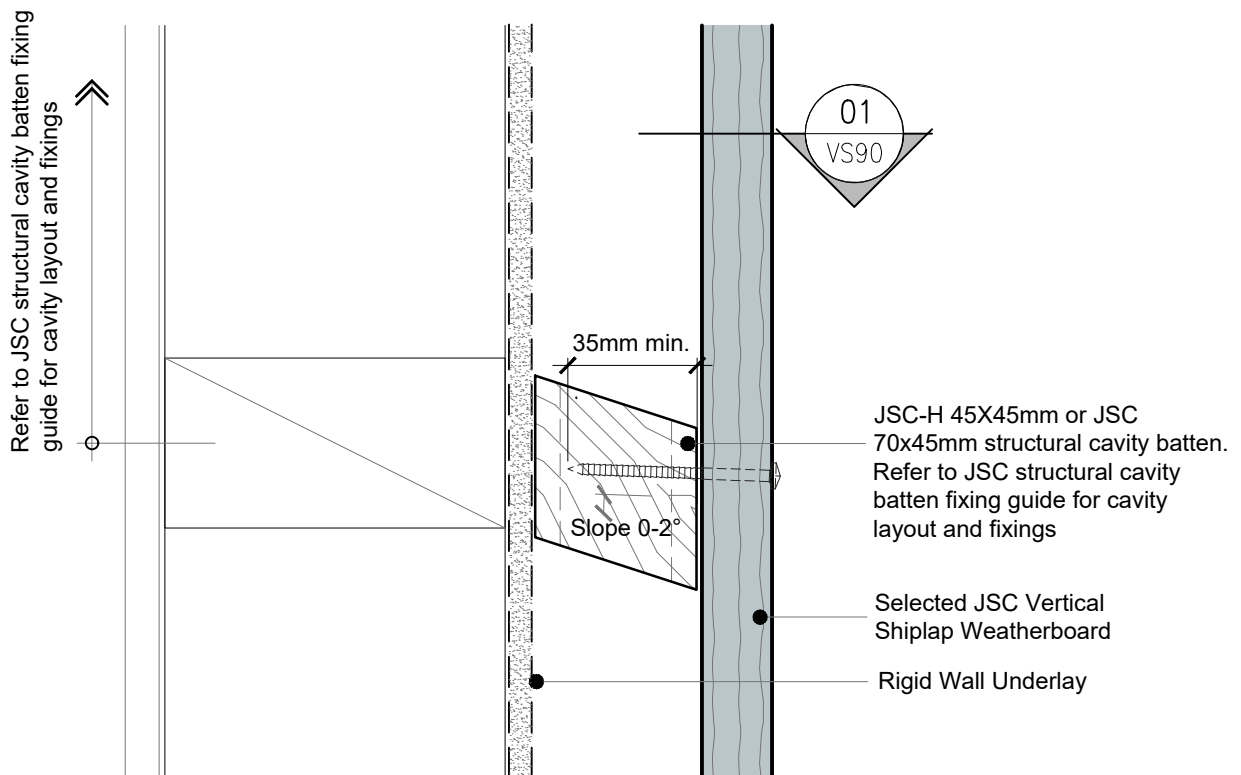
**VERSION**  
2.5

#### Weatherboards:

- Single fix at each cavity batten with annular grooved nails (stainless steel 316 or silicon bronze) as per NZBC E2/AS1 Table 24
- Pre-drill holes approximately 1mm smaller than the nail gauge. Example: For a 75mm nail, use a 2.5mm drill
- Nailed with slight ( $2^{\circ}+$ ) upward slope
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- Must have a 5-10mm gap between them



Cross Section 02

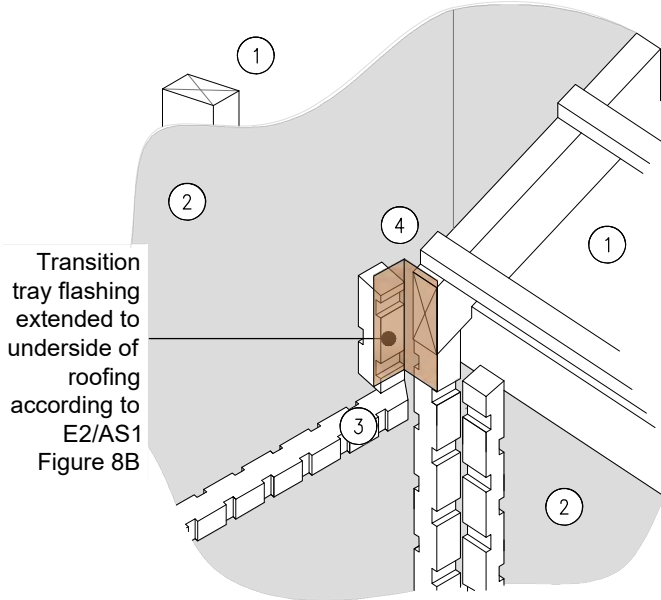
• TO BE READ IN CONJUNCTION WITH COMPLETE JSC VERTICLAD SYSTEM LITERATURE

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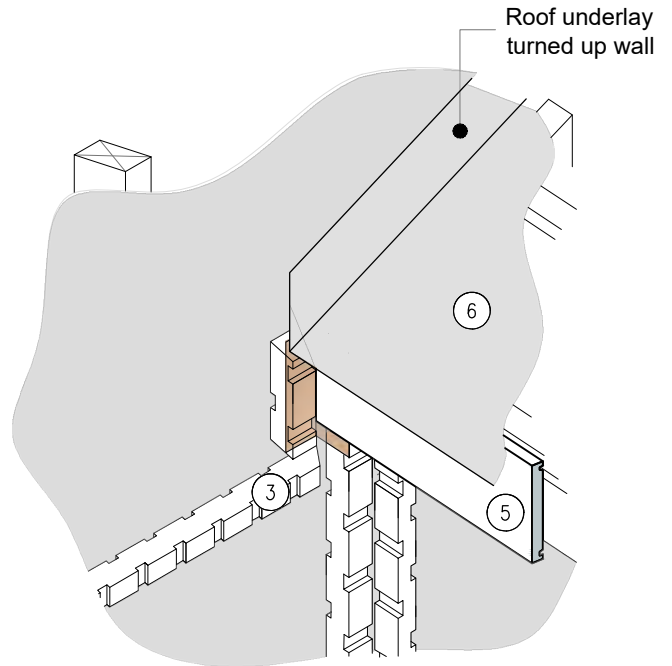


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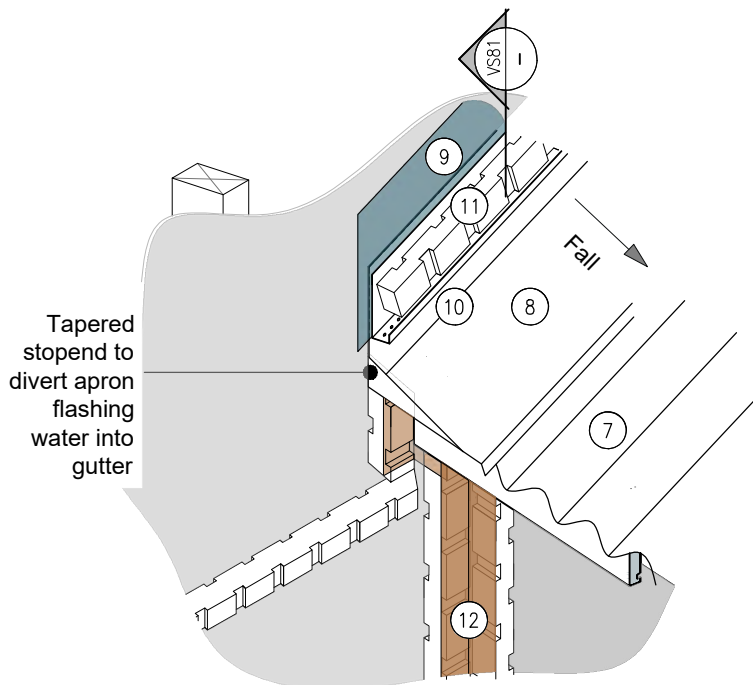
1. Roof and Wall Framing
2. Wall Underlay
3. Cavity Battens
4. Transition Flashing
5. Fascia Board
6. Roof Underlay
7. Roofing
8. Apron Flashing
9. Flexible Flashing Tape
10. Cavity Closure
11. Cavity Battens (above Apron Flashing)
12. Corner Flashing
13. Cladding
14. Gutter



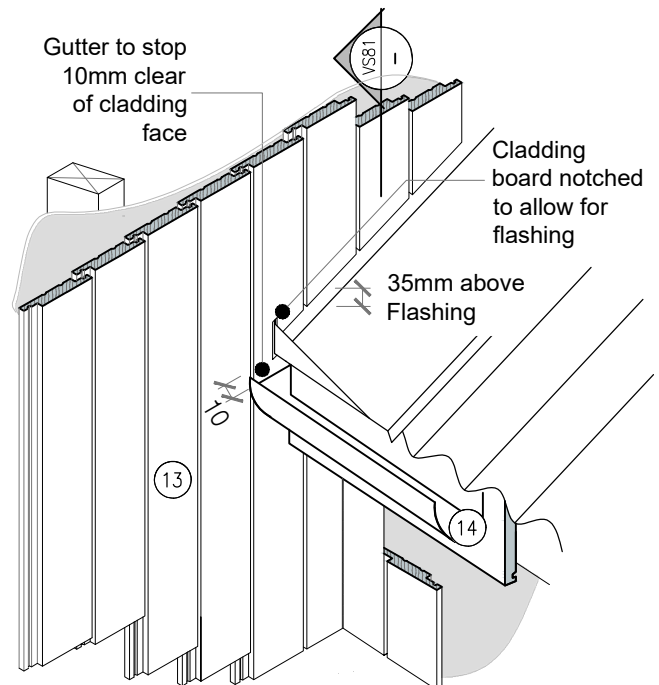
STAGE ONE



STAGE TWO



STAGE THREE



STAGE FOUR

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