

# Espan 340™ / 470™

## RESIDENTIAL VERTICAL CLADDING

### DETAIL LIST

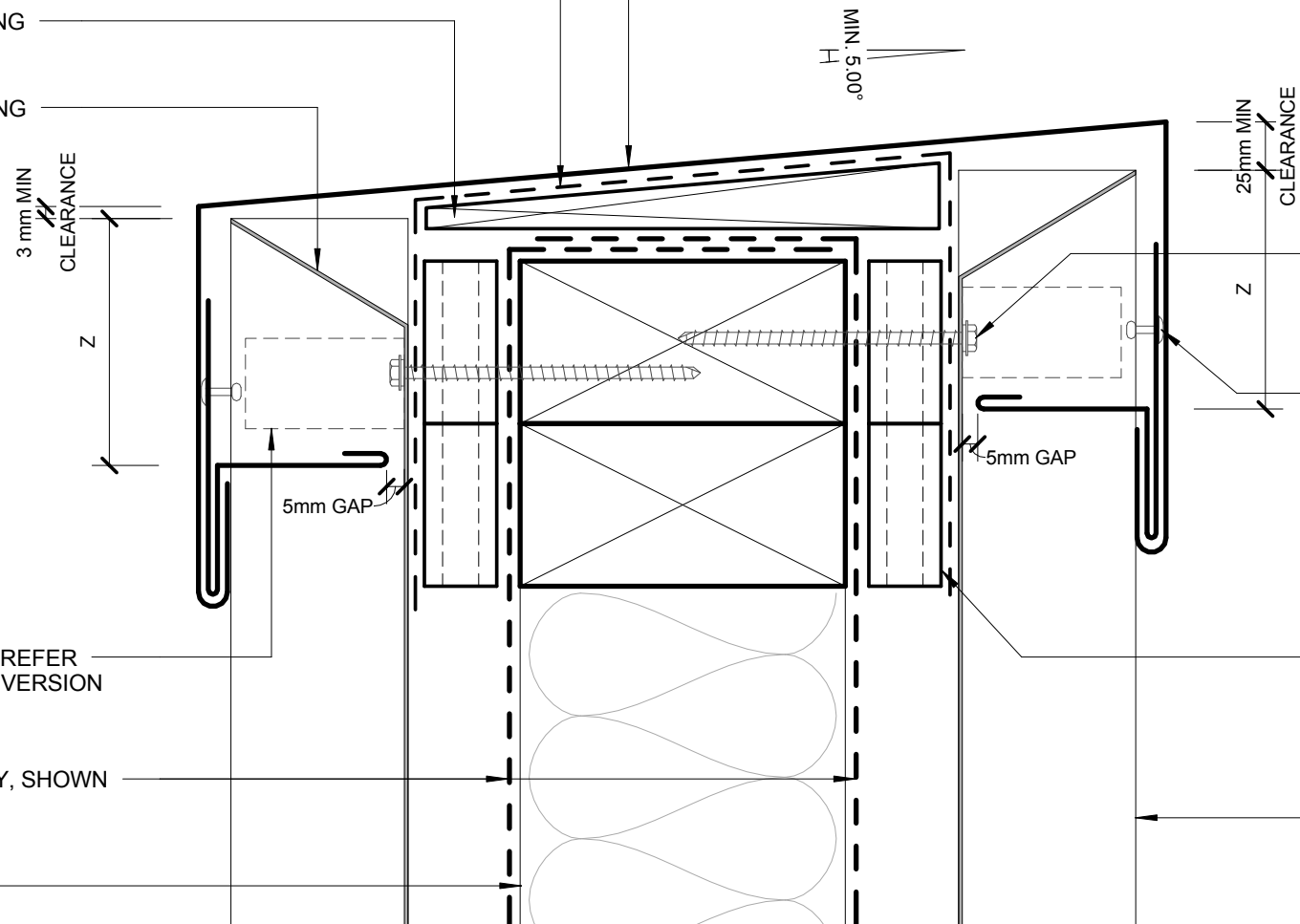
00 / 21	COVER SHEET
01 / 21	PARAPET AND BALUSTRADE CAPPING
02 / 21	SCUPPER W/ RAINWATER HEAD
03 / 21	SOFFIT
04 / 21	BUTT WINDOW HEAD
05 / 21	BUTT WINDOW SILL
06 / 21	BUTT WINDOW JAMB
07 / 21	RECESSED WINDOW HEAD
08 / 21	RECESSED WINDOW SILL
09 / 21	RECESSED WINDOW JAMB
10 / 21	METERBOX HEAD
11 / 21	METERBOX SILL
12 / 21	METERBOX JAMB
13 / 21	INTERNAL CORNER
14 / 21	EXTERNAL CORNER
15 / 21	SOAKER FLASHING
16 / 21	CHANGE IN CLADDING
17 / 21	CLADDING ABUTMENT
18 / 21	BOTTOM OF CLADDING (FLUSH)
19 / 21	BOTTOM OF CLADDING (RECESSED)
20 / 21	3D WINDOW FLASHINGS
21 / 21	3D RAINWATER HEAD

PRE-FINISHED PARAPET CAP FLASHING  
NO FIXINGS ON TOP OF FLASHING

PROVIDE SEPARATION OF METAL CAPPING AND  
TIMBER AS REQUIRED WITH DPC, SHOWN  
DASHED

CONTINUOUS TIMBER PACKING

STOPENDS TO WALL CLADDING



PRE-FINISHED SELF  
DRILLING/TAPPING SCREW WITH  
RUBBER WASHER FOR FIXING TOP  
OF ESPAN™ CLADDING

PRE-FINISHED POP RIVET BEDDED  
IN SILICONE OR PRE-FINISHED 8g  
WAFER-TEK SCREW

20mm HORIZONTAL CAVITY BATTEN

METALCRAFT ESPAN™  
VERTICAL CLADDING

COMPRESSIBLE FOAM SEAL. REFER  
TO MRM CODE OF PRACTICE VERSION  
2.2 /2012 FOR REQUIRMENT.

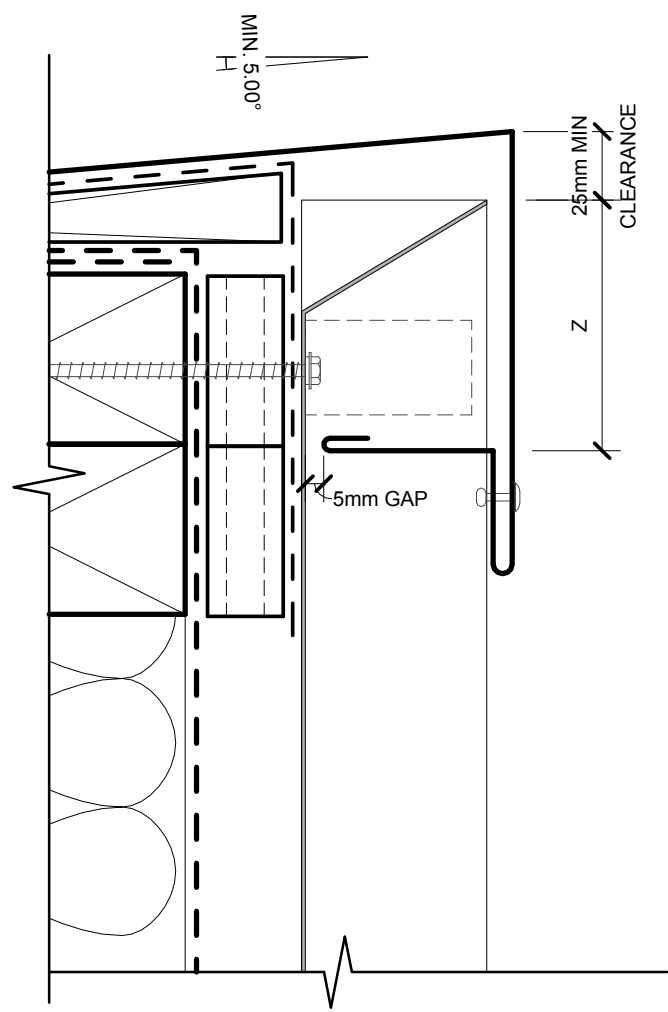
PERMEABLE WALL UNDERLAY, SHOWN  
DASHED

WALL FRAMING

ACCEPTABLE SOLUTION AS PER E2/ASI		
<b>SITUATION 1</b> 1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH $\geq 10^\circ$	<b>SITUATION 2</b> 1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH $\leq 10^\circ$	<b>SITUATION 3</b> 1. FOR ALL ROOF PITCHES IN EXTRA HIGH WIND ZONES
Z MIN. 50mm	MIN. 70mm	MIN. 90mm

ALTERNATIVE SOLUTION AS PER MRM CODE OF PRACTICE	
<b>CATEGORY A</b> 1. NORMAL EXPOSURE 2. ROOF PITCH $>10^\circ$	<b>CATEGORY B</b> 1. EXPOSED (HIGHER RISK) & WIND LOAD EXCEEDS 1.5 kPa. 2. ROOF PITCH $<10^\circ$
Z MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)

**ALTERNATIVE OPTION**



- CAVITY SYSTEM FOR VERTICAL CLADDING : 20mm NOMINAL THICK (VERTICALLY DRAINING) HORIZONTAL CAVITY SYSTEM WITH BATTENS AS APPLICABLE TO SUPPORT CLADDINGS & FLASHINGS TO NZBC.

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**PARAPET AND BALUSTRADE CAPPING**  
RESIDENTIAL VERTICAL CLADDING

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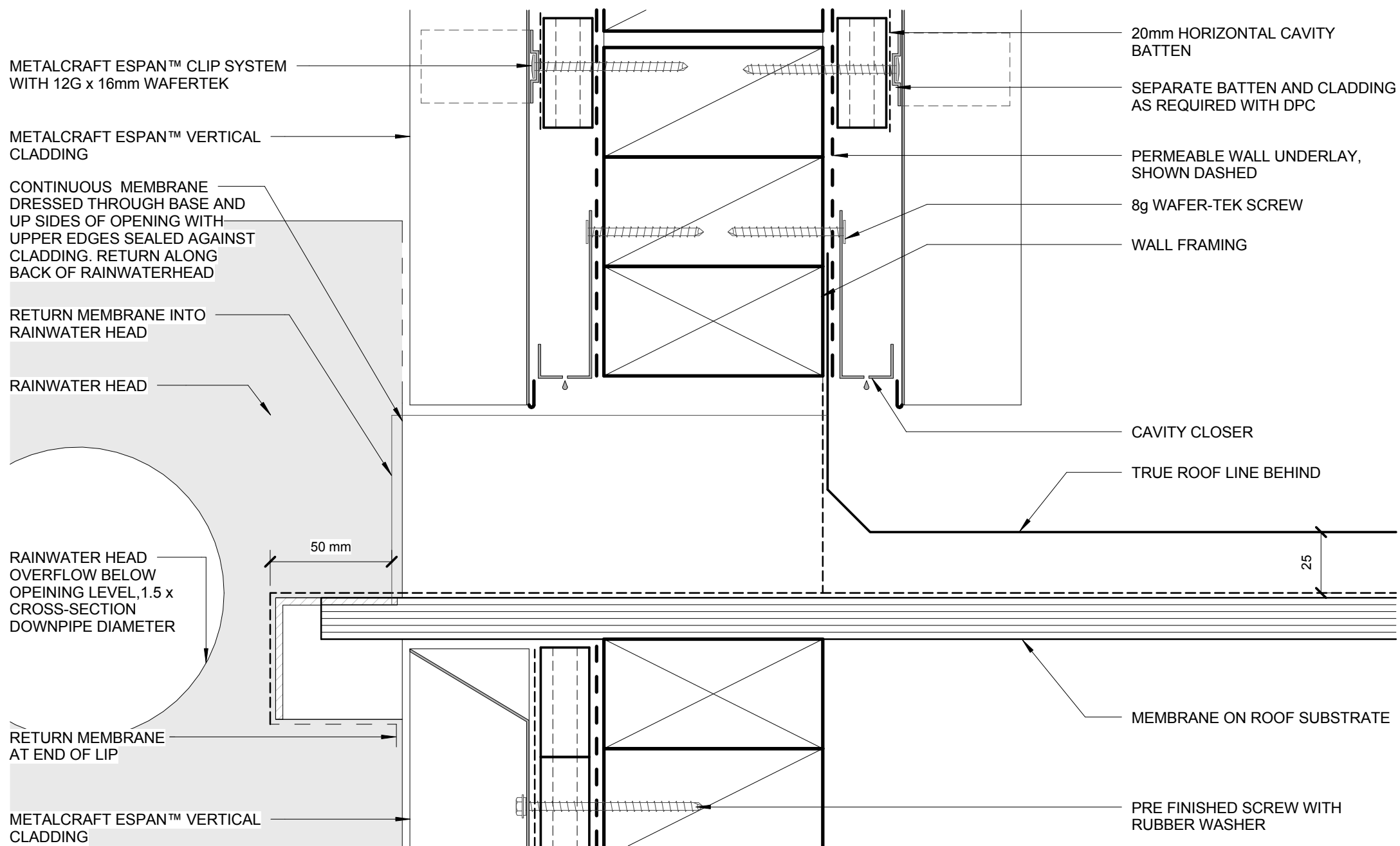
Reference RVEP

Date 2018

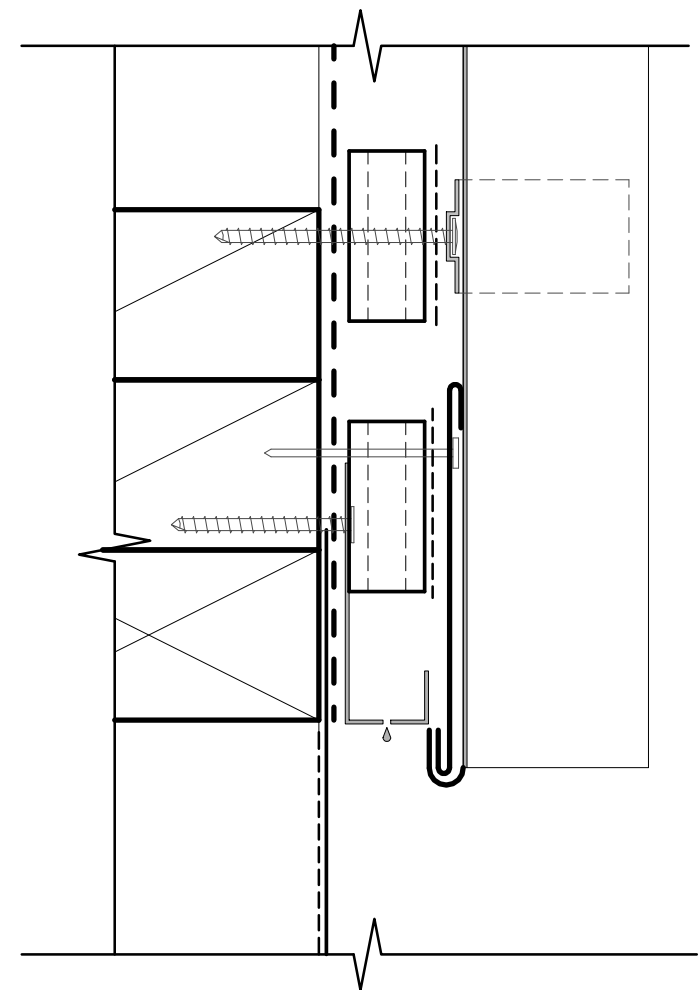
Scale 1 : 2

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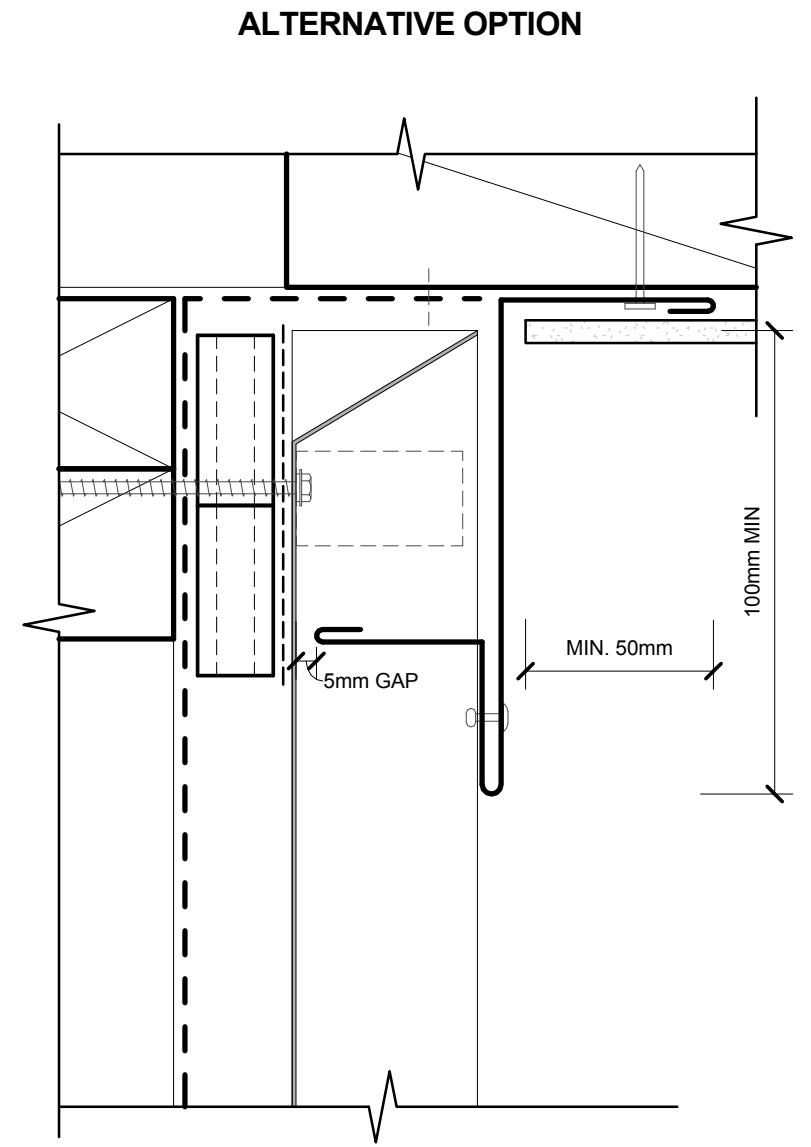
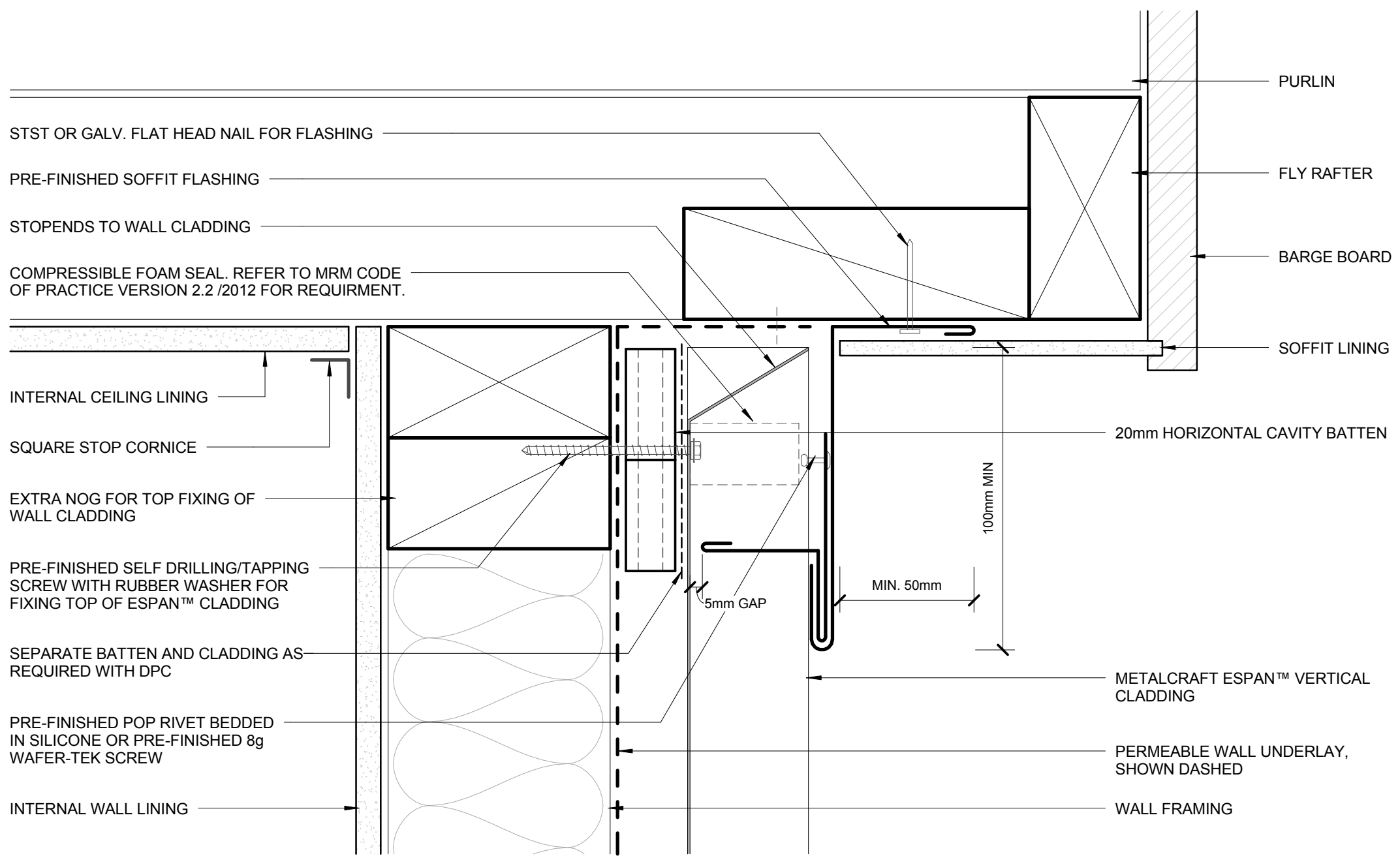
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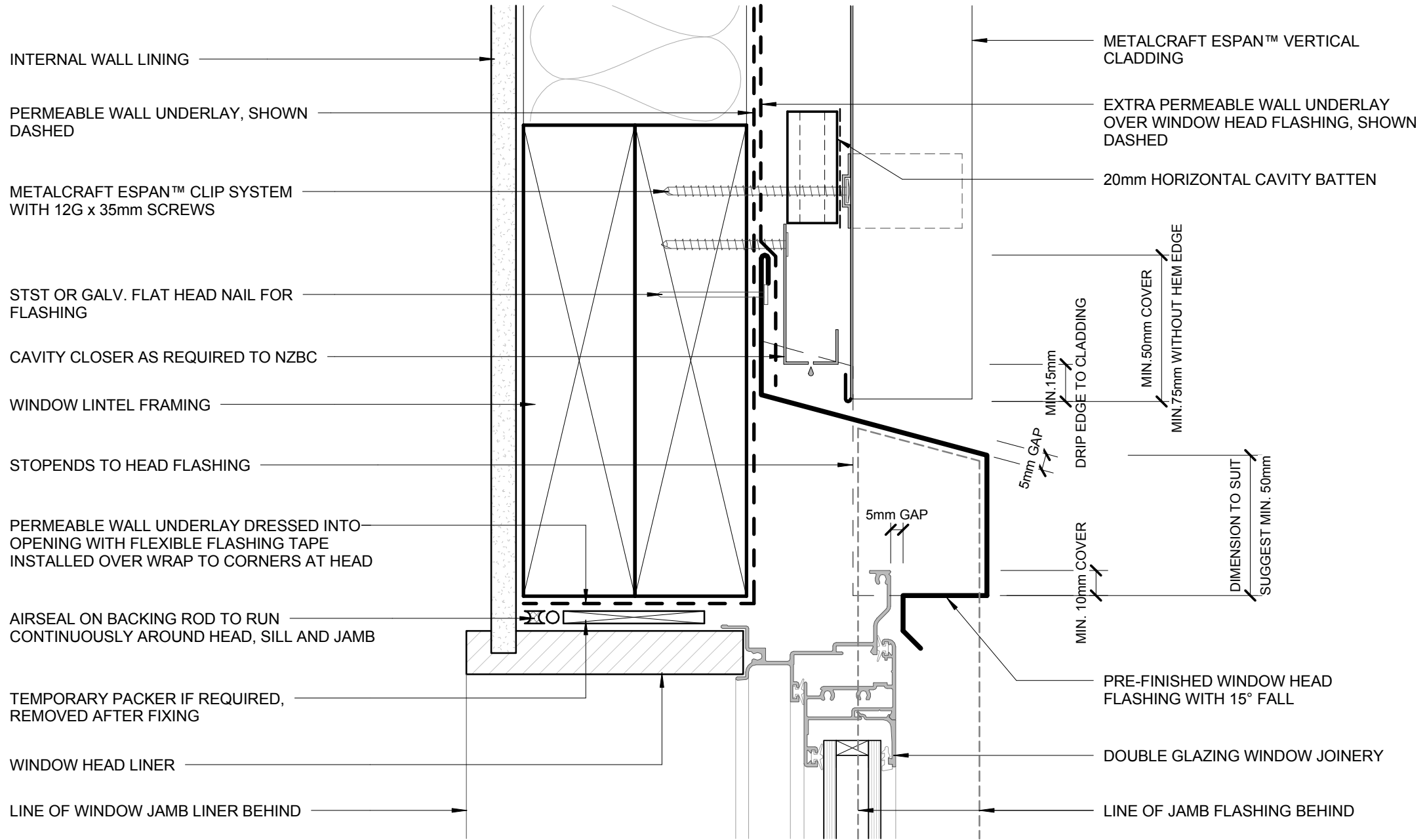




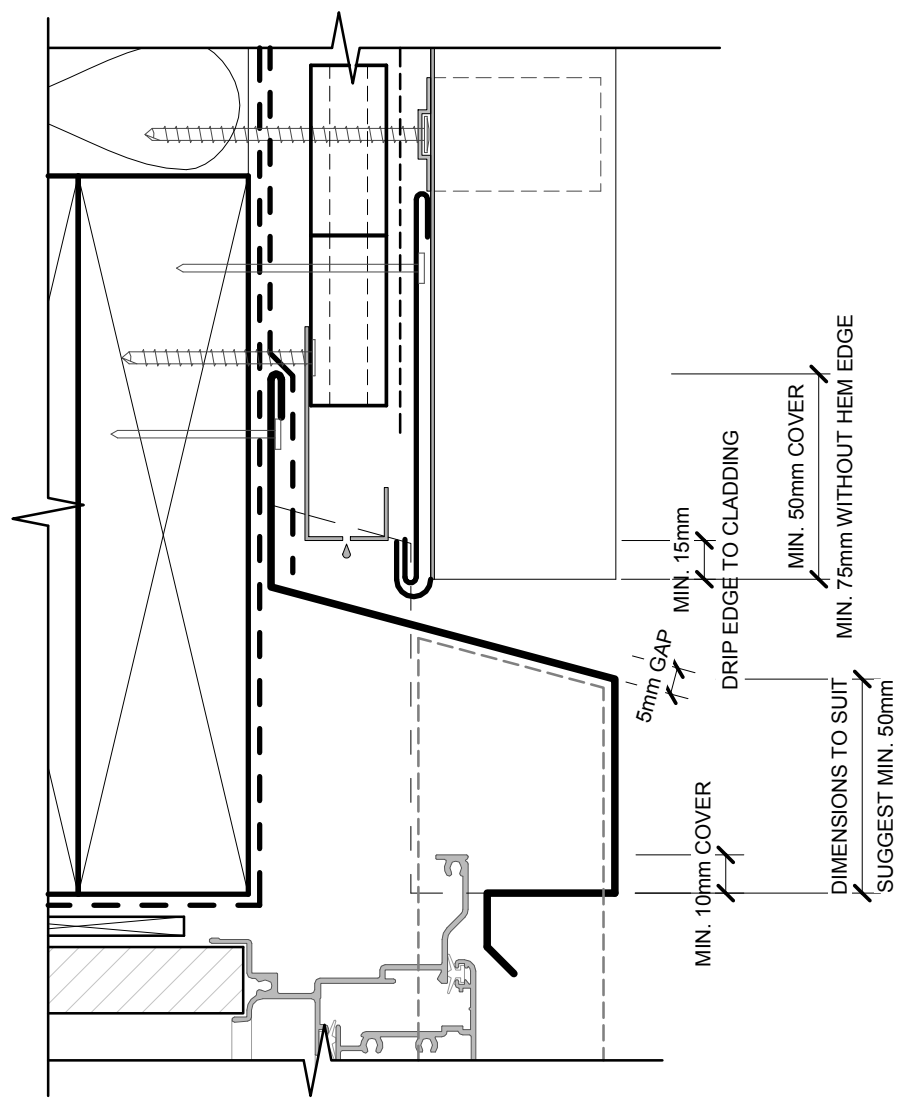
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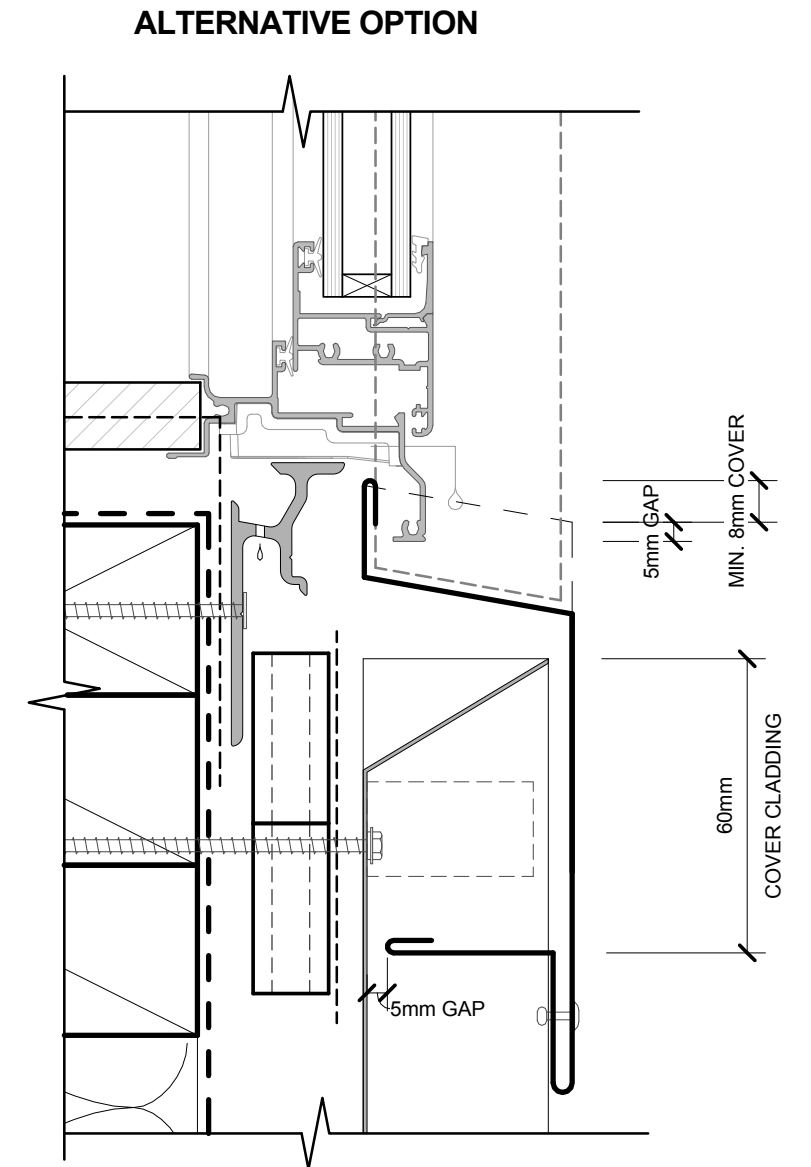
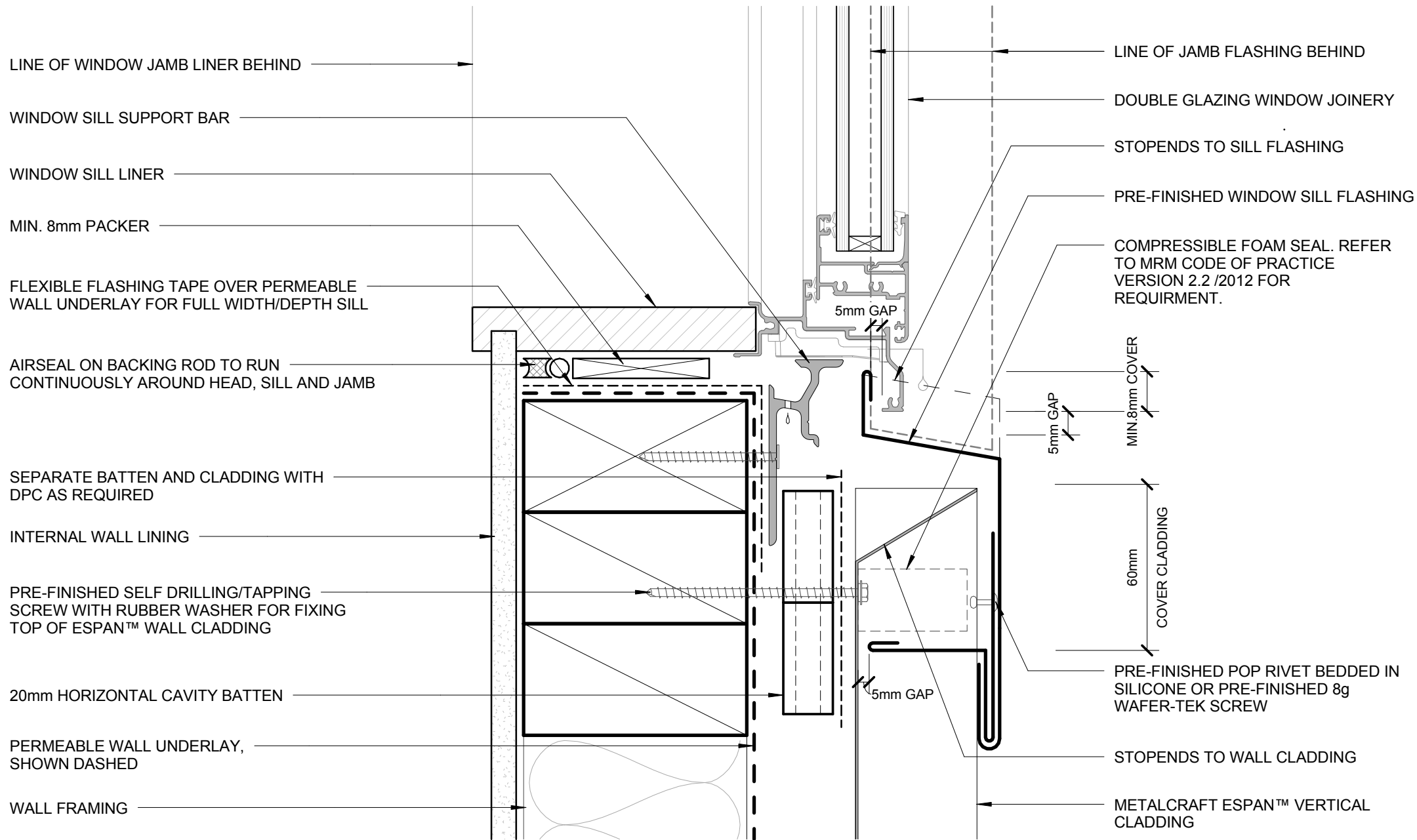
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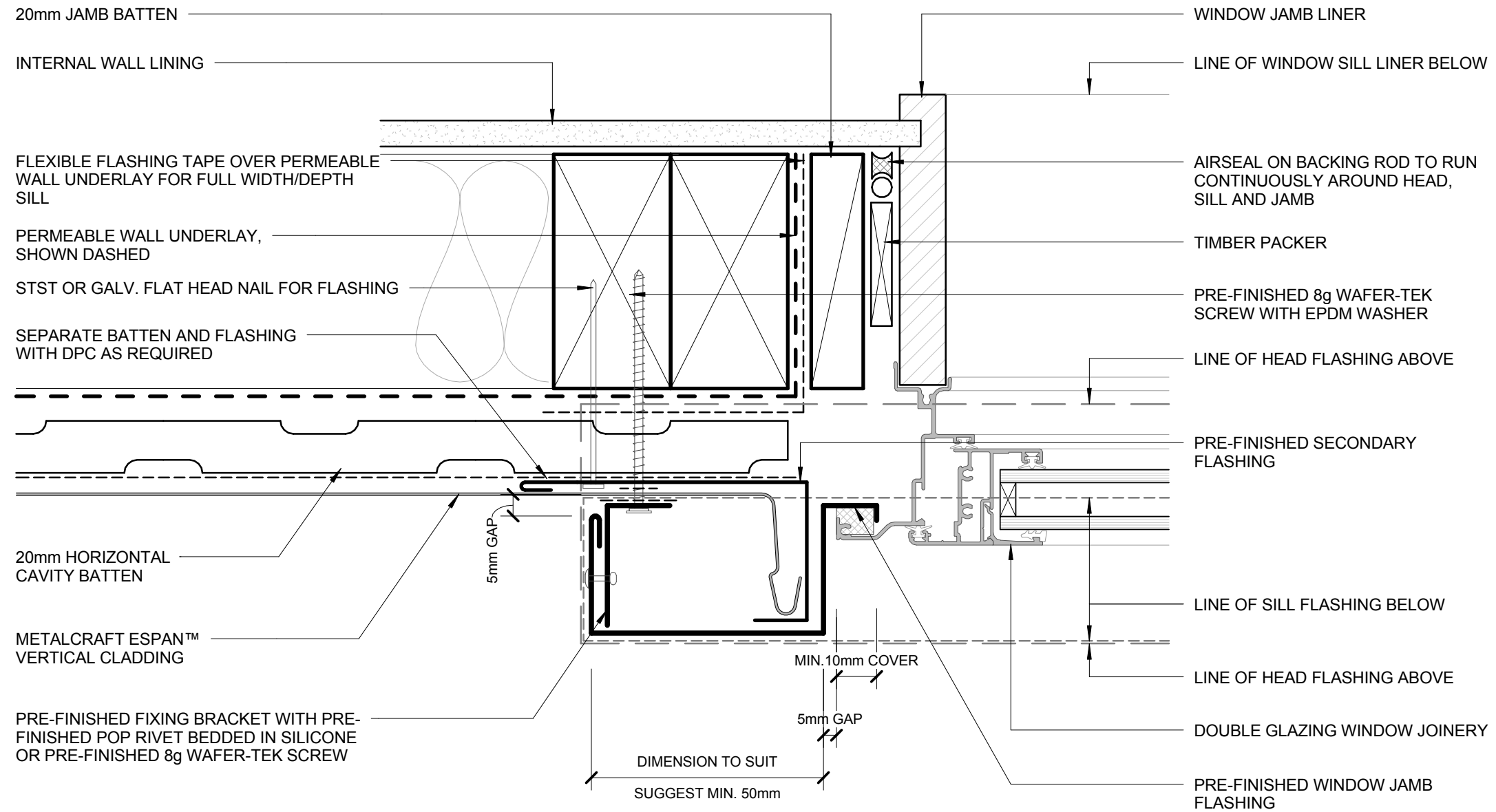




- DEPENDING ON ACTUAL SITUATION, A SECONDARY FLASHING MAY BE REQUIRED. REFER METALCRAFT ROOFING FOR MORE INFORMATION.

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INTERNAL WALL LINING

PERMEABLE WALL UNDERLAY, SHOWN DASHED

METALCRAFT ESPAN™ CLIP SYSTEM WITH 12G x 35mm SCREWS

CAVITY CLOSER AS REQUIRED TO NZBC

STST OR GALV. FLAT HEAD NAIL FOR FLASHING

WINDOW LINTEL FRAMING

STOPENDS TO HEAD FLASHING

PERMEABLE WALL UNDERLAY DRESSED INTO OPENING WITH FLEXIBLE FLASHING TAPE INSTALLED OVER WRAP TO CORNERS AT HEAD

AIRSEAL ON BACKING ROD TO RUN CONTINUOUSLY AROUND HEAD, SILL AND JAMB

TEMPORARY PACKER IF REQUIRED, REMOVED AFTER FIXING

WINDOW HEAD LINER

LINE OF WINDOW JAMB LINER BEHIND

METALCRAFT ESPAN™ VERTICAL CLADDING

20mm HORIZONTAL CAVITY BATTEN

EXTRA PERMEABLE WALL UNDERLAY OVER WINDOW HEAD FLASHING, SHOWN DASHED

MIN. 15mm GAP  
DRIP EDGE TO CLADDING  
MIN. 50mm COVER  
MIN. 75mm WITHOUT HEM EDGE

5mm GAP  
MIN. 10mm COVER  
DIMENSION TO SUIT  
SUGGEST MIN. 50mm

PRE-FINISHED WINDOW HEAD FLASHING WITH 15° FALL

DOUBLE GLAZING WINDOW JOINERY

LINE OF JAMB FLASHING BEHIND

### ALTERNATIVE OPTION

MIN. 15mm GAP  
DRIP EDGE TO CLADDING  
MIN. 50mm COVER  
MIN. 75mm WITHOUT HEM EDGE

5mm GAP  
10mm MIN COVER  
DIMENSION TO SUIT  
SUGGEST MIN. 50mm

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LINE OF WINDOW JAMB LINER BEHIND

WINDOW SILL LINER

MIN. 8mm PACKER

FLEXIBLE FLASHING TAPE OVER PERMEABLE WALL UNDERLAY FOR FULL WIDTH/DEPTH SILL

AIRSEAL ON BACKING ROD TO RUN CONTINUOUSLY AROUND HEAD, SILL AND JAMB

PERMEABLE WALL UNDERLAY, SHOWN DASHED

WINDOW SILL SUPPORT BAR

SEPARATE BATTEN AND CLADDING WITH DPC AS REQUIRED

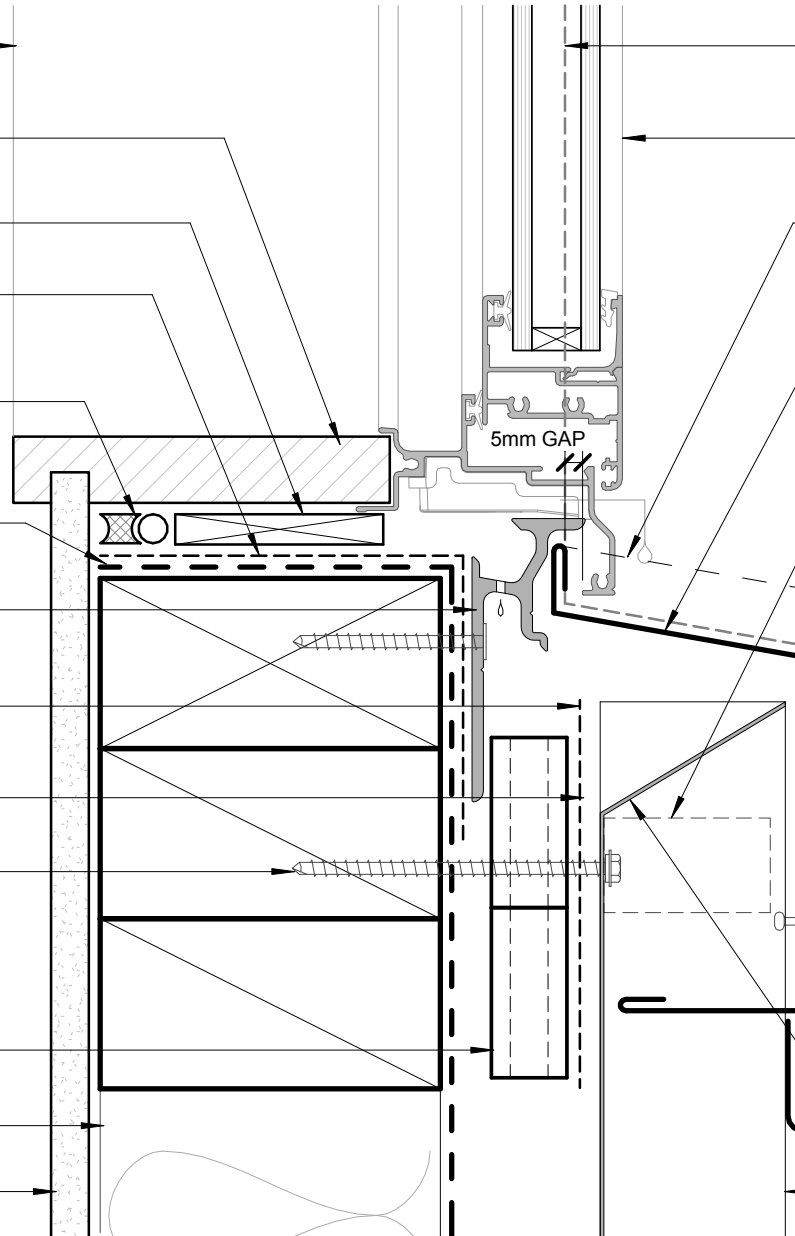
PRE-FINISHED SECONDARY FLASHING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER FOR FIXING TOP OF ESPAN™ CLADDING

20mm HORIZONTAL CAVITY BATTEN

WALL FRAMING

INTERNAL WALL LINING



LINE OF JAMB FLASHING BEHIND

DOUBLE GLAZING WINDOW JOINERY

STOPENDS TO SILL FLASHING

PRE-FINISHED WINDOW SILL FLASHING

COMPRESSIBLE FOAM SEAL. REFER TO MRM CODE OF PRACTICE VERSION 2.2 /2012 FOR REQUIRMENT.

5mm GAP

MIN. 8mm COVER

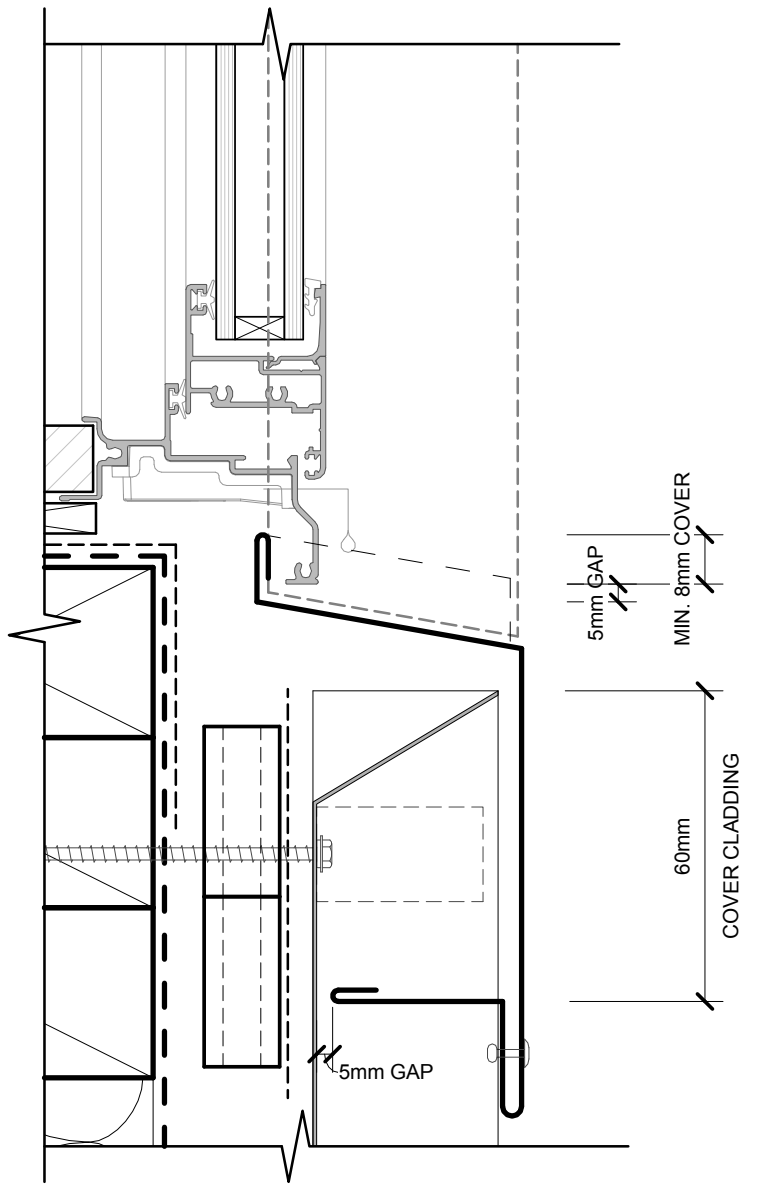
60mm COVER CLADDING

PRE-FINISHED POP RIVET BEDDED IN SILICONE OR PRE-FINISHED 8g WAFER-TEK SCREW

STOPENDS TO WALL CLADDING

METALCRAFT ESPAN™ VERTICAL CLADDING

**ALTERNATIVE OPTION**



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**RECESSED WINDOW SILL**  
RESIDENTIAL VERTICAL CLADDING

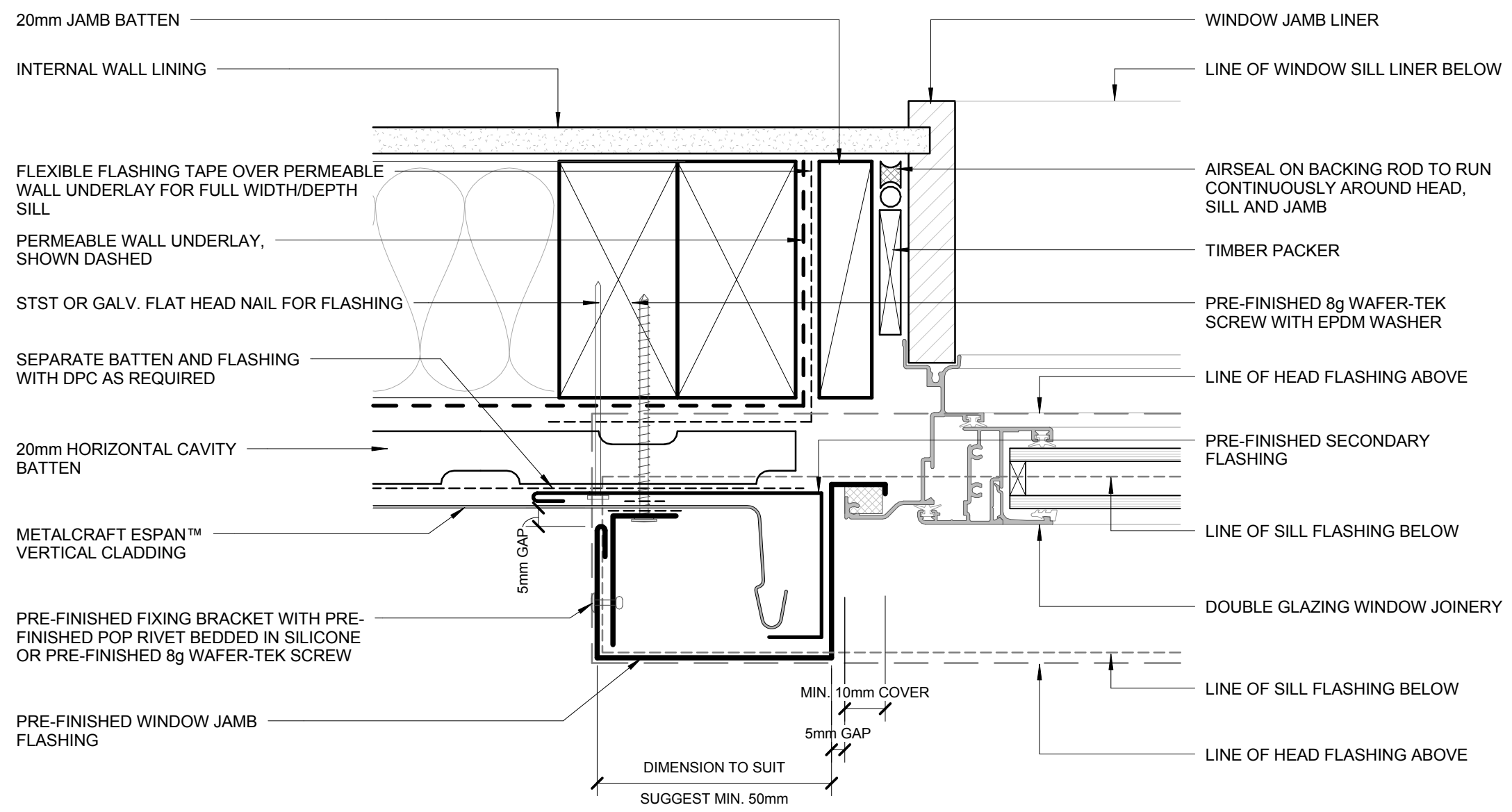
Reference RVEP

Date 2018

Scale 1 : 2

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- DEPENDING ON ACTUAL SITUATION, A SECONDARY FLASHING MAY BE REQUIRED. REFER METALCRAFT ROOFING FOR MORE INFORMATION.

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Espan 340 / 470™

RECESSED WINDOW JAMB  
 RESIDENTIAL VERTICAL CLADDING

Reference RVEP

Date 2018

Scale 1 : 2

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INTERNAL WALL LINING

EXTRA PERMEABLE WALL UNDERLAY OVER WINDOW HEAD FLASHING, SHOWN DASHED

METALCRAFT ESPAN™ CLIP SYSTEM WITH 12G x 35mm SCREWS

SEPERATE BETTEN AND CLADDING AS REQUIRED WITH EPDM

CAVITY CLOSER AS REQUIRED TO NZBC

STST OR GALV. FLAT HEAD NAIL FOR FLASHING

PRE-FINISHED HEAD FLASHING WITH 15° FALL

METERBOX LINTEL FRAMING

PERMEABLE WALL UNDERLAY DRESSED INTO OPENING WITH FLEXIBLE FLASHING TAPE INSTALLED OVER WRAP TO CORNERS AT HEAD

AIRSEAL ON BACKING ROD TO RUN CONTINUOUSLY AROUND HEAD, SILL AND JAMB

TEMPORARY PACKER IF REQUIRED, REMOVED AFTER FIXING

METER BOX

METAL ANGLE TO BE CONTINUOUS AROUND METER BOX.

METALCRAFT ESPAN™ VERTICAL CLADDING

20mm HORIZONTAL CAVITY BATTEN

STOPENDS TO HEAD FLASHING

MIN. 15mm GAP  
MIN. 50mm COVER  
MIN. 75mm WITHOUT HEM EDGE

5mm GAP  
DRIP EDGE TO CLADDING

PRE-FINISHED SELF DRILLING/TAPPING SCREW WITH RUBBER WASHER

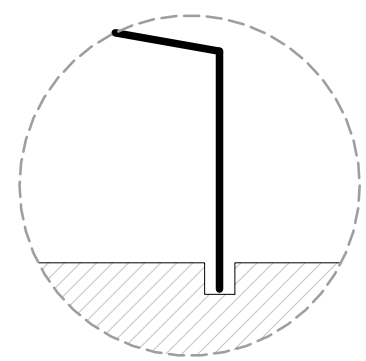
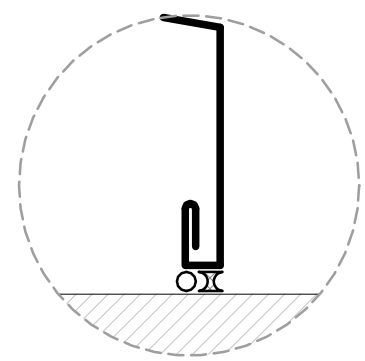
PRE-FINISHED 'U' BRACKET FIXED TO METERBOX BEFORE INSTALLATION

LINE OF JAMB FLASHING BEHIND

### ALTERNATIVE OPTION

MIN. 15mm GAP  
MIN. 50mm COVER  
MIN. 75mm WITHOUT HEM EDGE

5mm GAP



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METERBOX HEAD  
RESIDENTIAL VERTICAL CLADDING

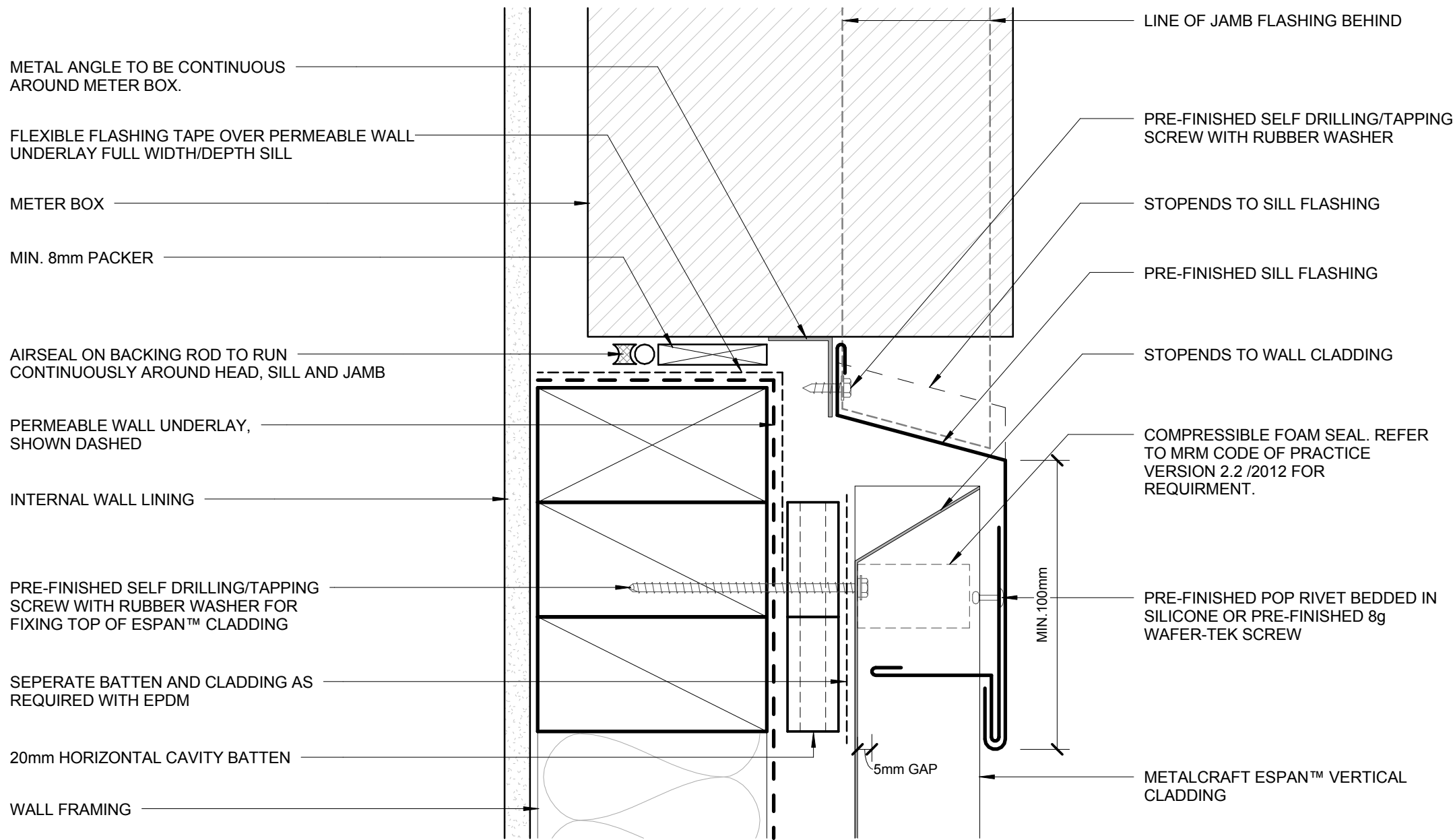
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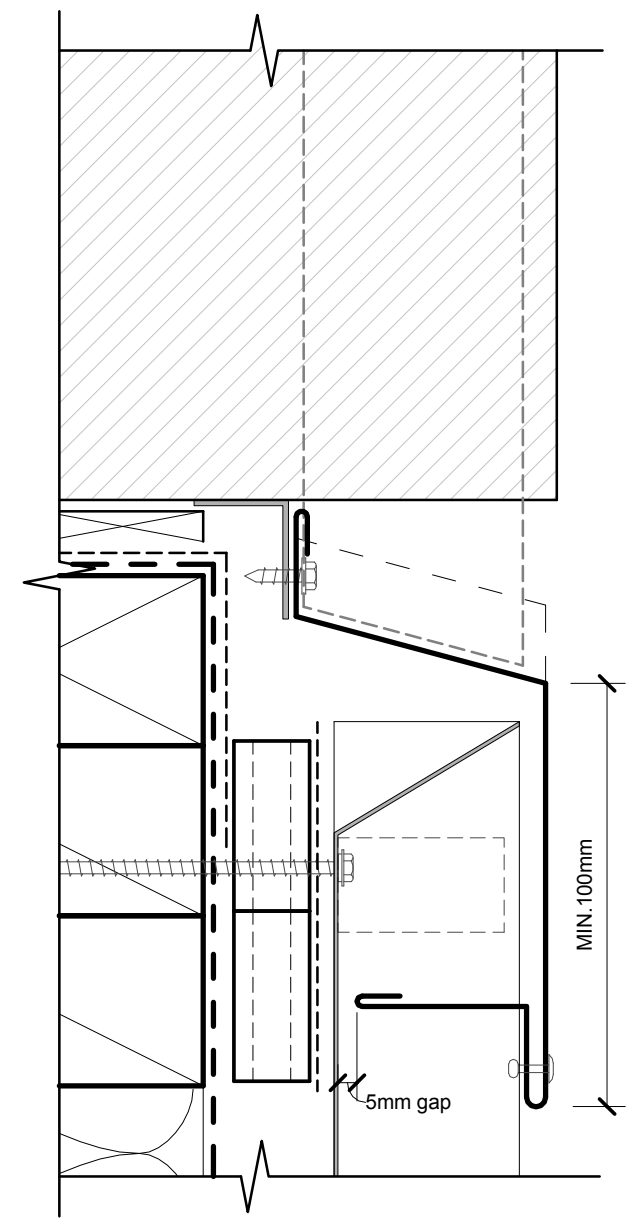
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**ALTERNATIVE OPTION**

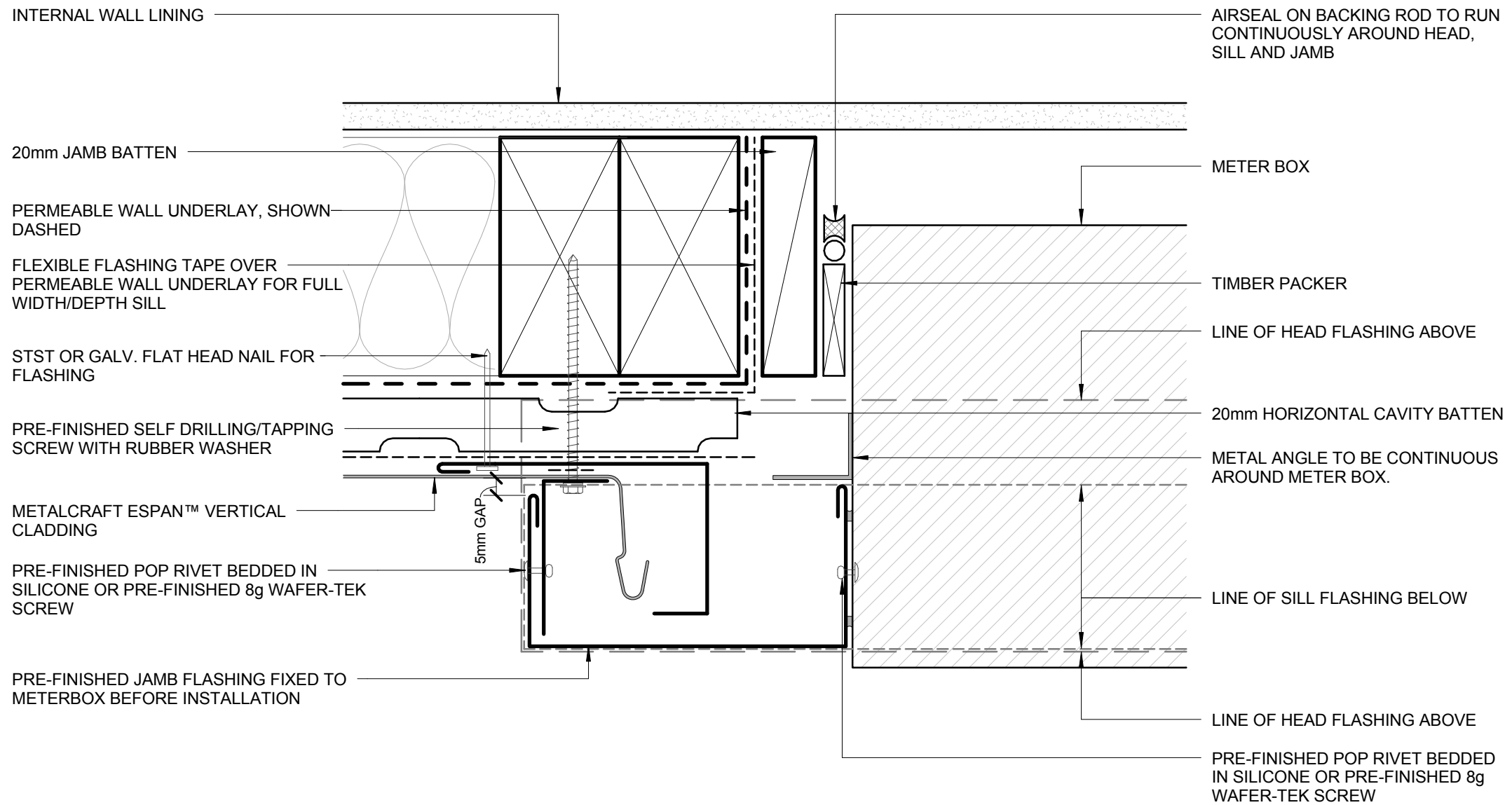


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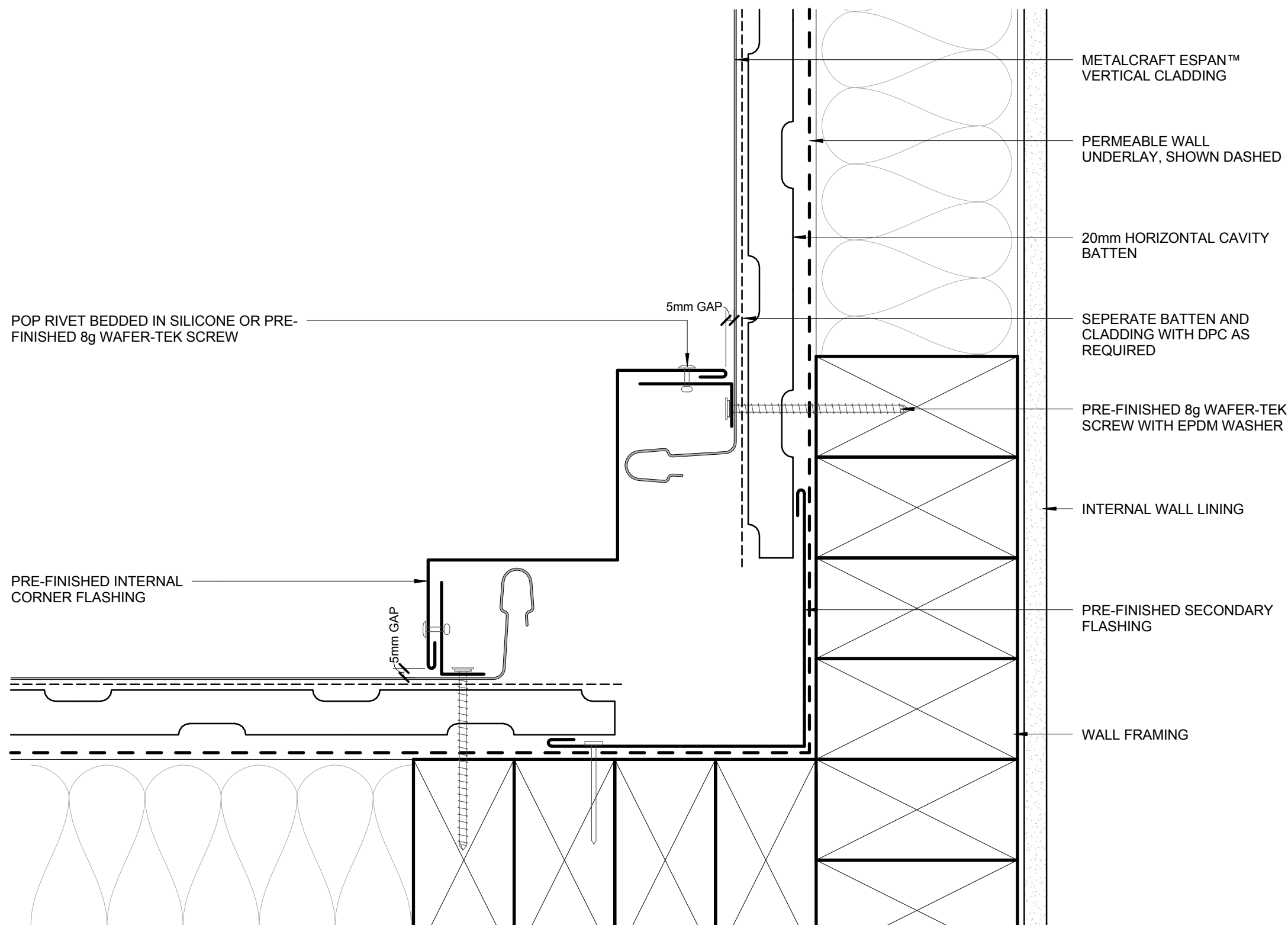
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POP RIVET BEDDED IN SILICONE OR PRE-FINISHED 8g WAFER-TEK SCREW

PRE-FINISHED INTERNAL CORNER FLASHING

METALCRAFT ESPAN™ VERTICAL CLADDING

PERMEABLE WALL UNDERLAY, SHOWN DASHED

20mm HORIZONTAL CAVITY BATTEN

SEPERATE BATTEN AND CLADDING WITH DPC AS REQUIRED

PRE-FINISHED 8g WAFER-TEK SCREW WITH EPDM WASHER

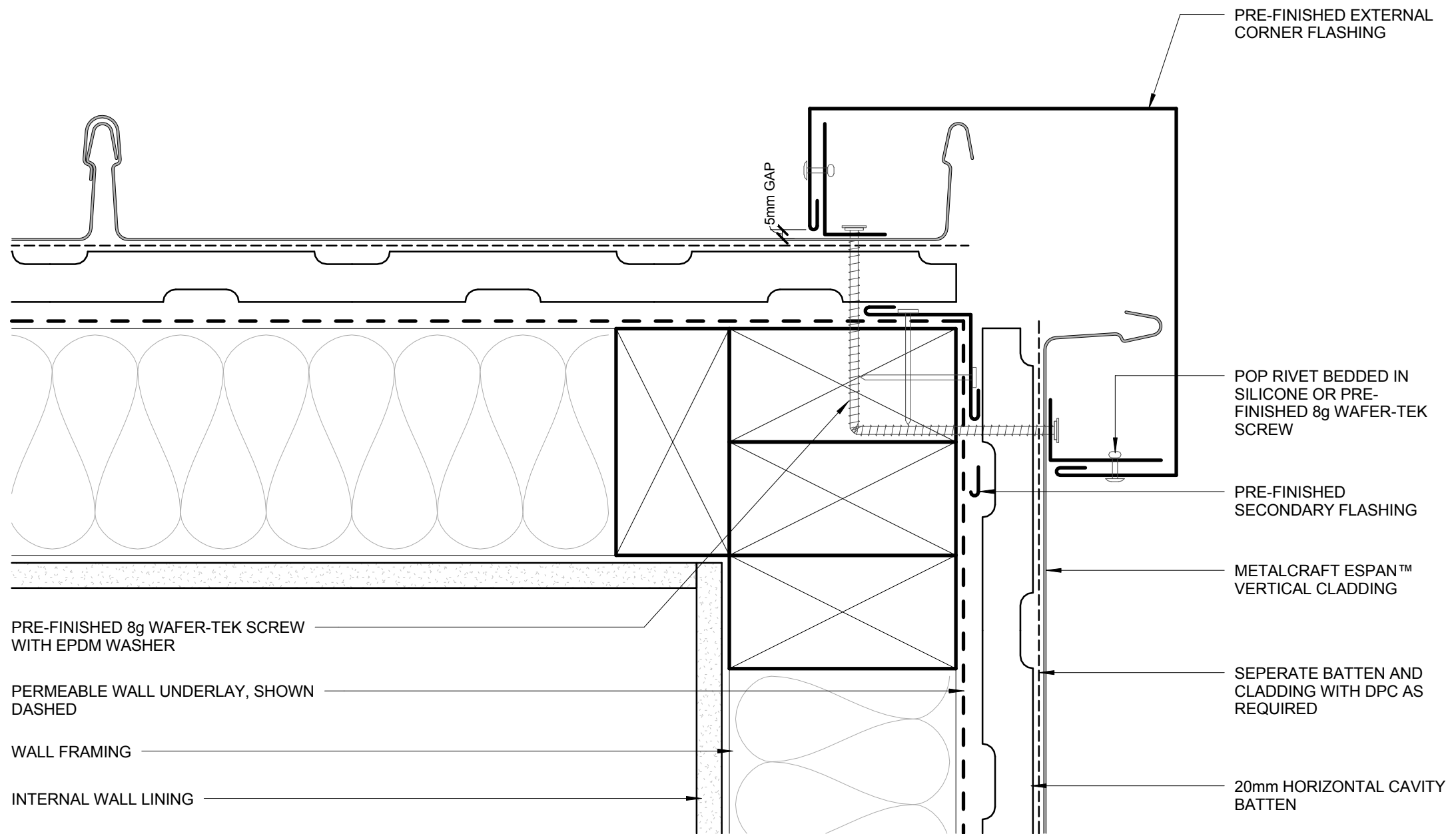
INTERNAL WALL LINING

PRE-FINISHED SECONDARY FLASHING

WALL FRAMING

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EXTERNAL CORNER  
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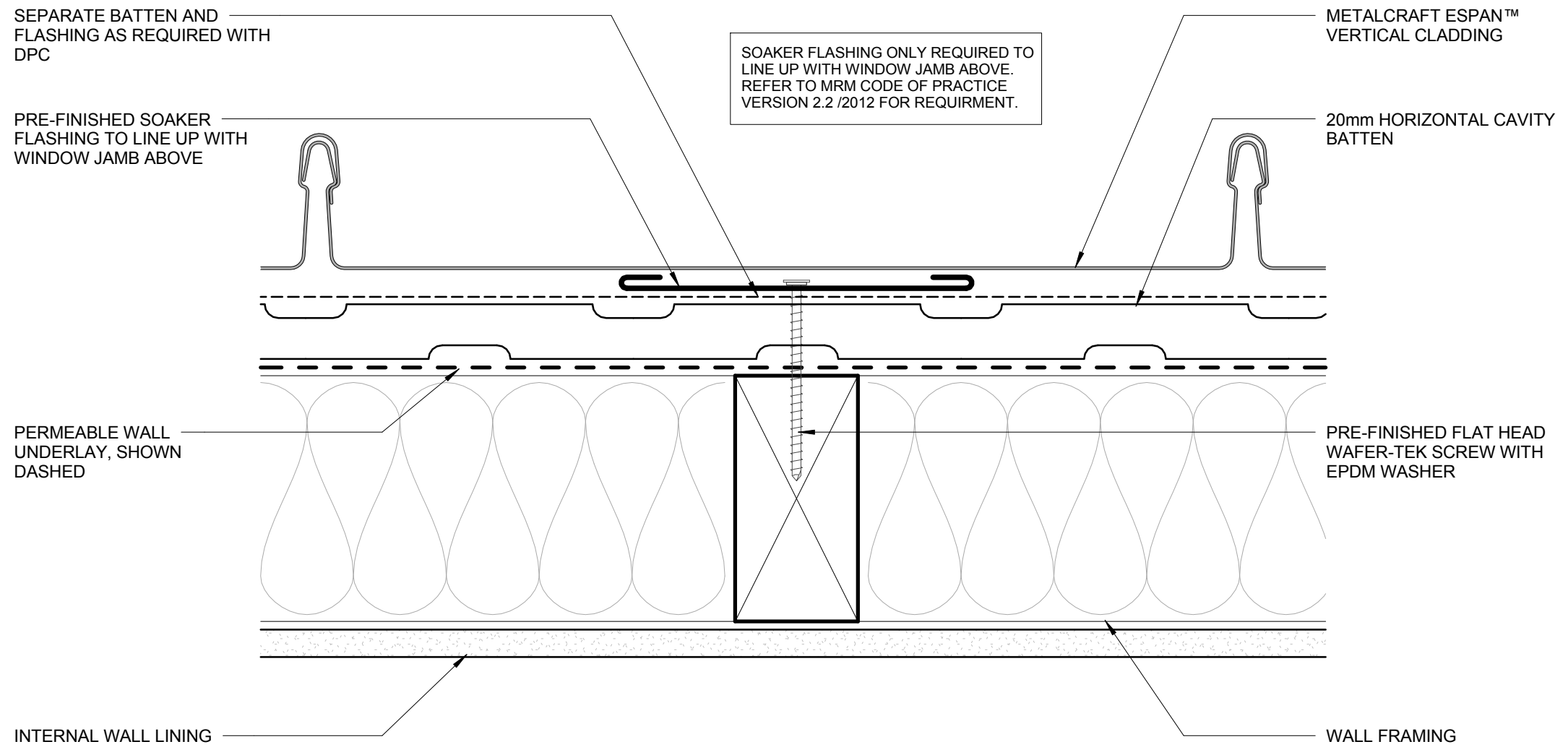
Date 2018

Scale 1 : 2

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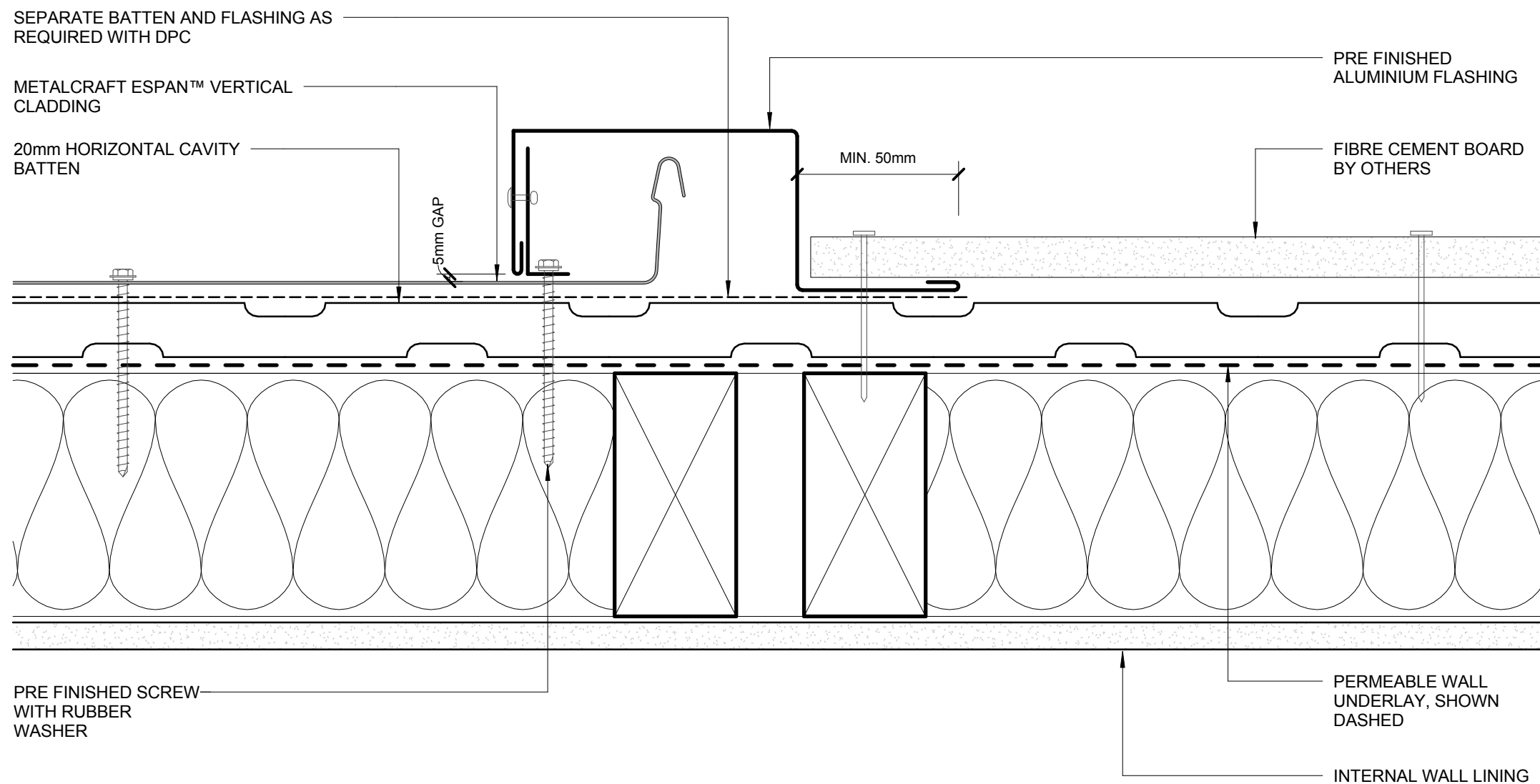
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METALCRAFT ESPAN™ VERTICAL CLADDING

20mm HORIZONTAL CAVITY BATTEN

PRE FINISHED SCREW WITH RUBBER WASHER

INTERNAL WALL LINING

CONCRETE WALL BY OTHERS

PRE-FINISHED POP RIVET BEDDED IN SILICONE

CONTINUOUS AIR SEAL ON BACKING ROD

PRE FINISHED ALUMINIUM FLASHING

PRE-FINISHED SECONDARY FLASHING

SEPARATE BATTEN AND FLASHING AS REQUIRED WITH DPC

WALL FRAMING

DPC

PERMEABLE WALL UNDERLAY, SHOWN DASHED

ALTERNATIVE OPTION

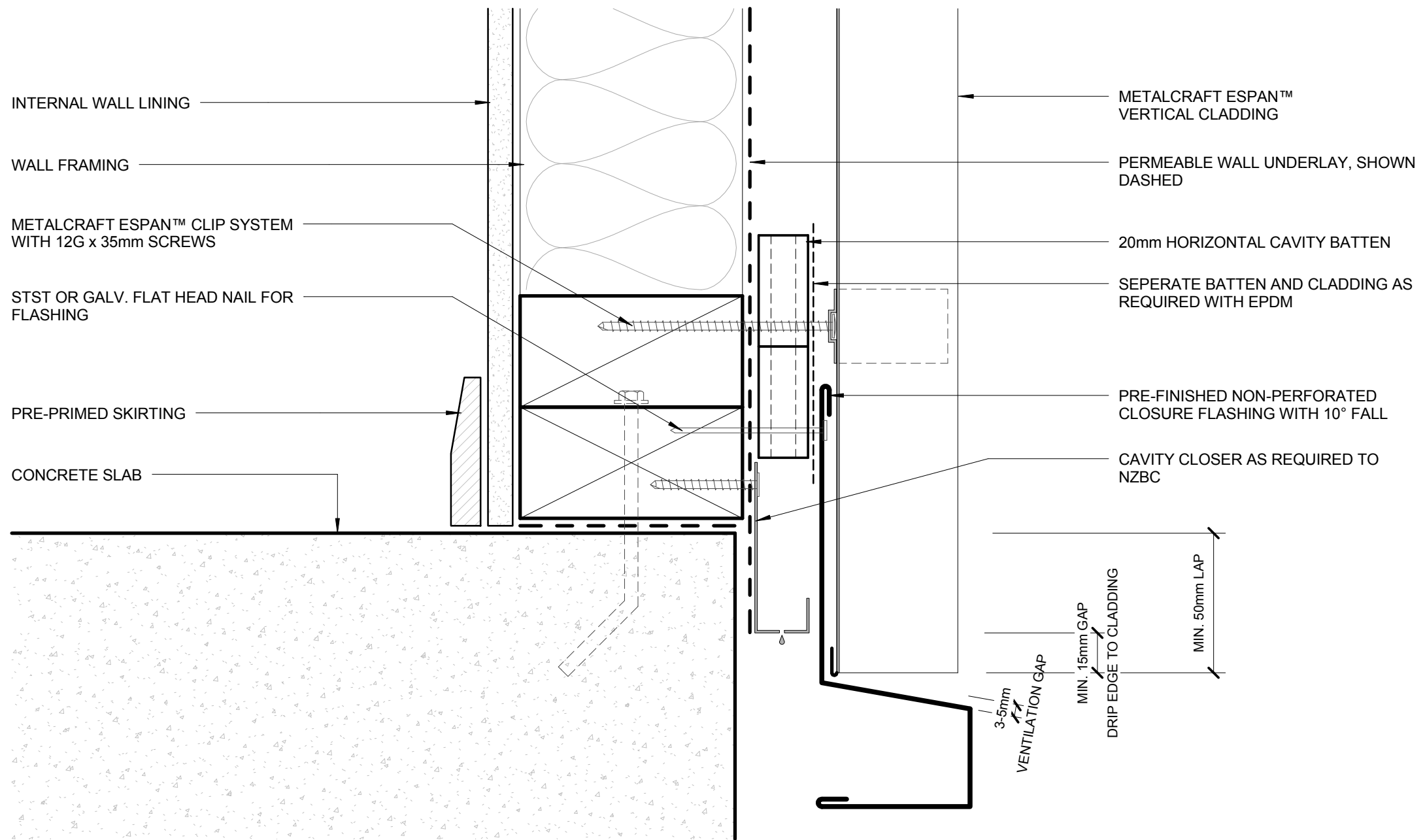
Mastic bead

Rawplug

5mm GAP

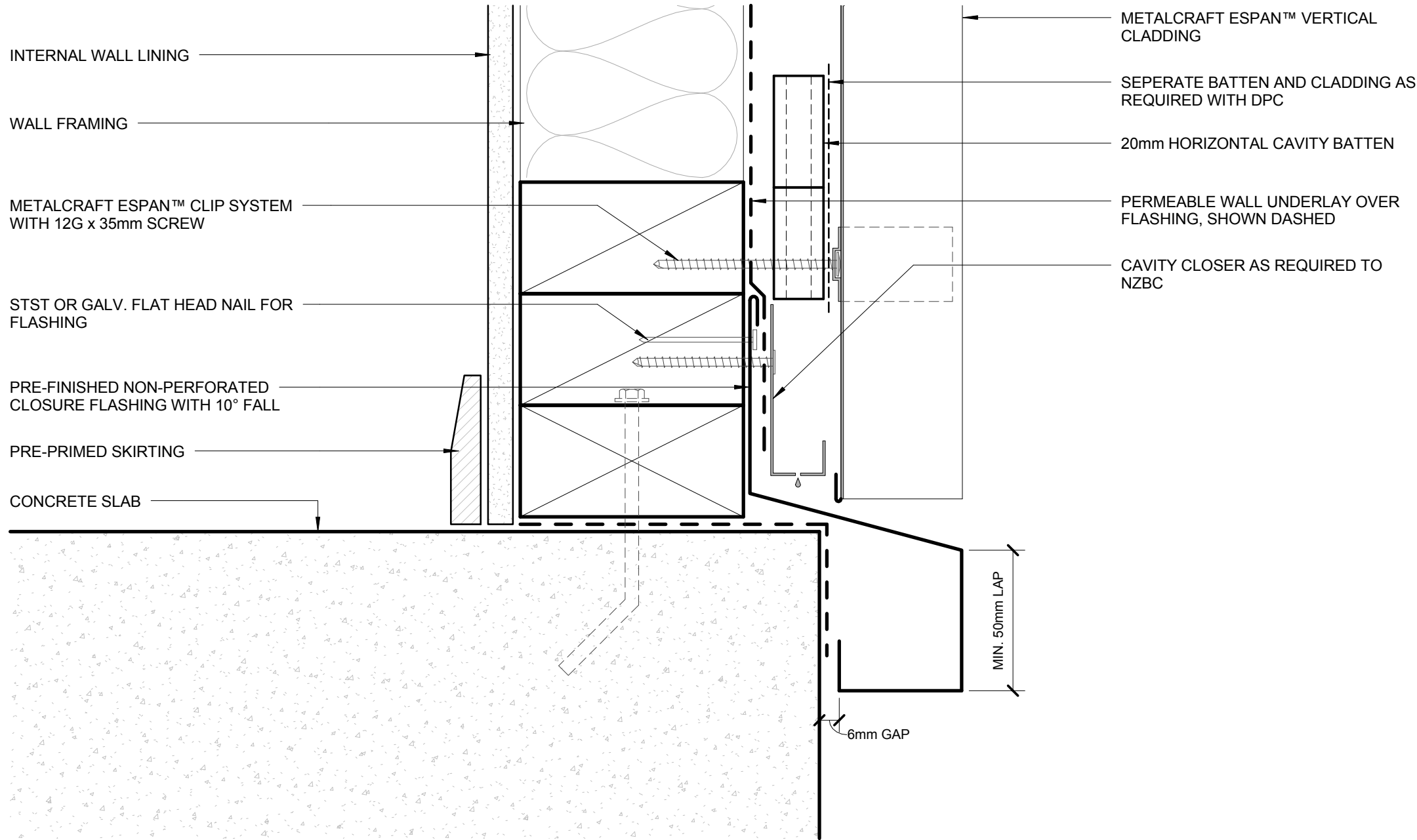
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All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice version 2.2 /2012, E2 and all other relevant building codes  
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

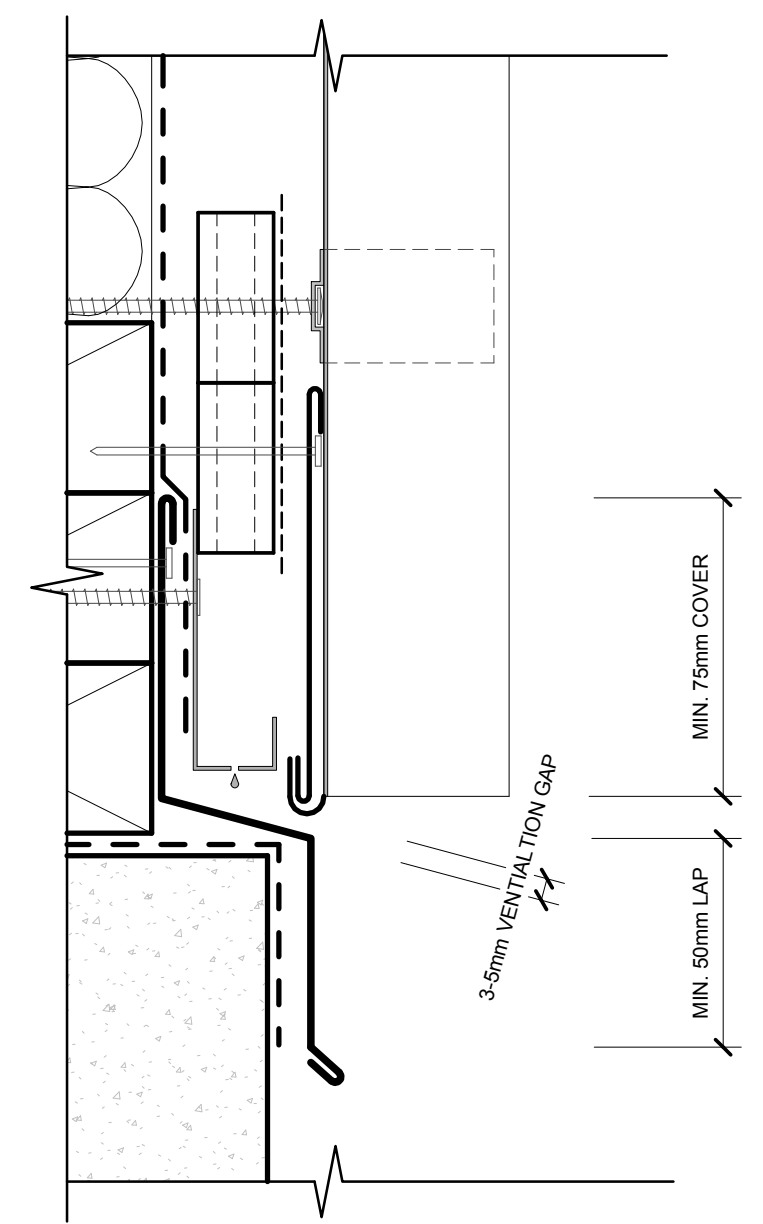


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**ALTERNATIVE OPTION**



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Espan 340 / 470™

**BOTTOM OF CLADDING (RECESSED)**  
 RESIDENTIAL VERTICAL CLADDING

Reference RVEP

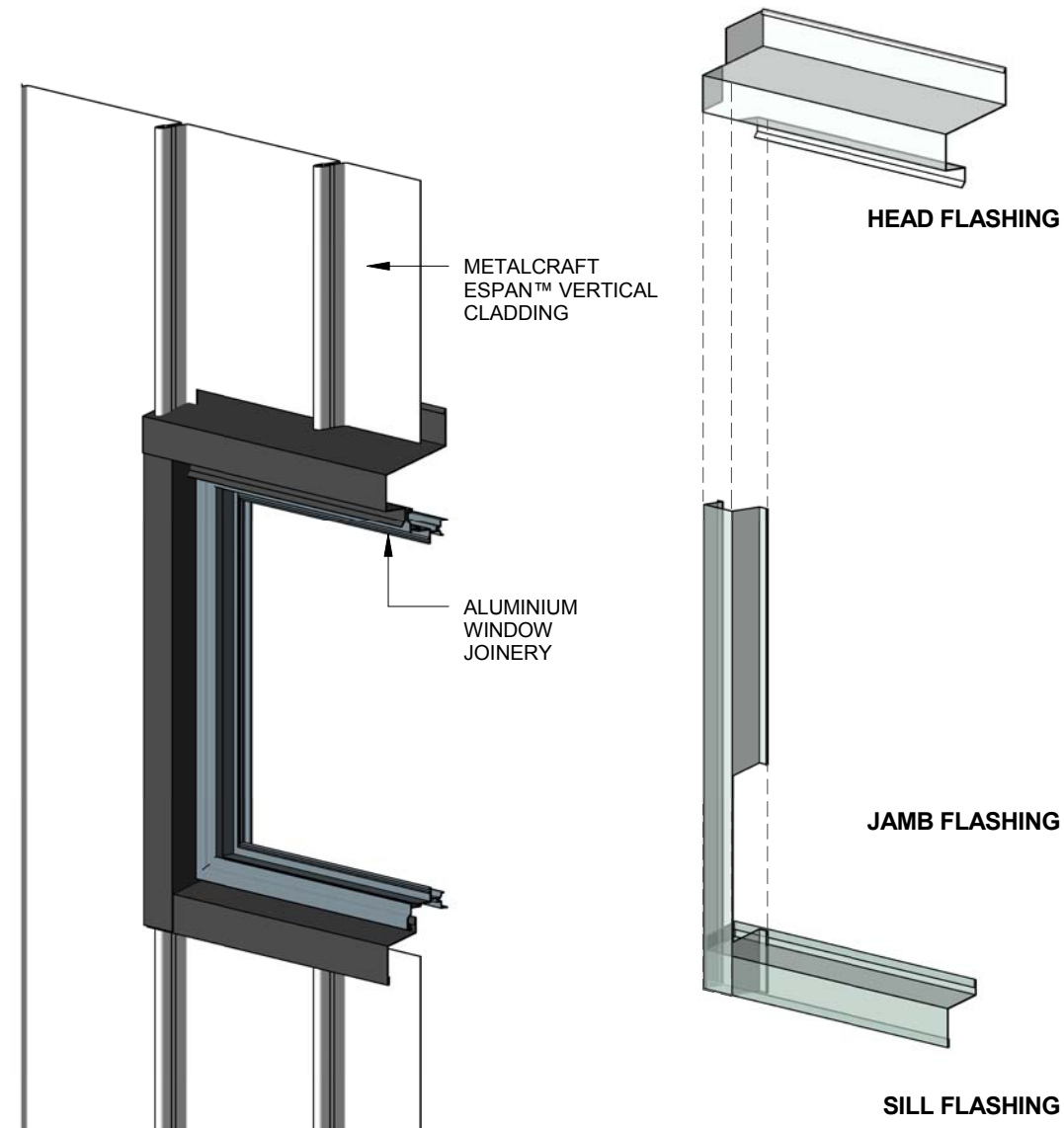
Date 2018

Scale 1 : 2

Sheet

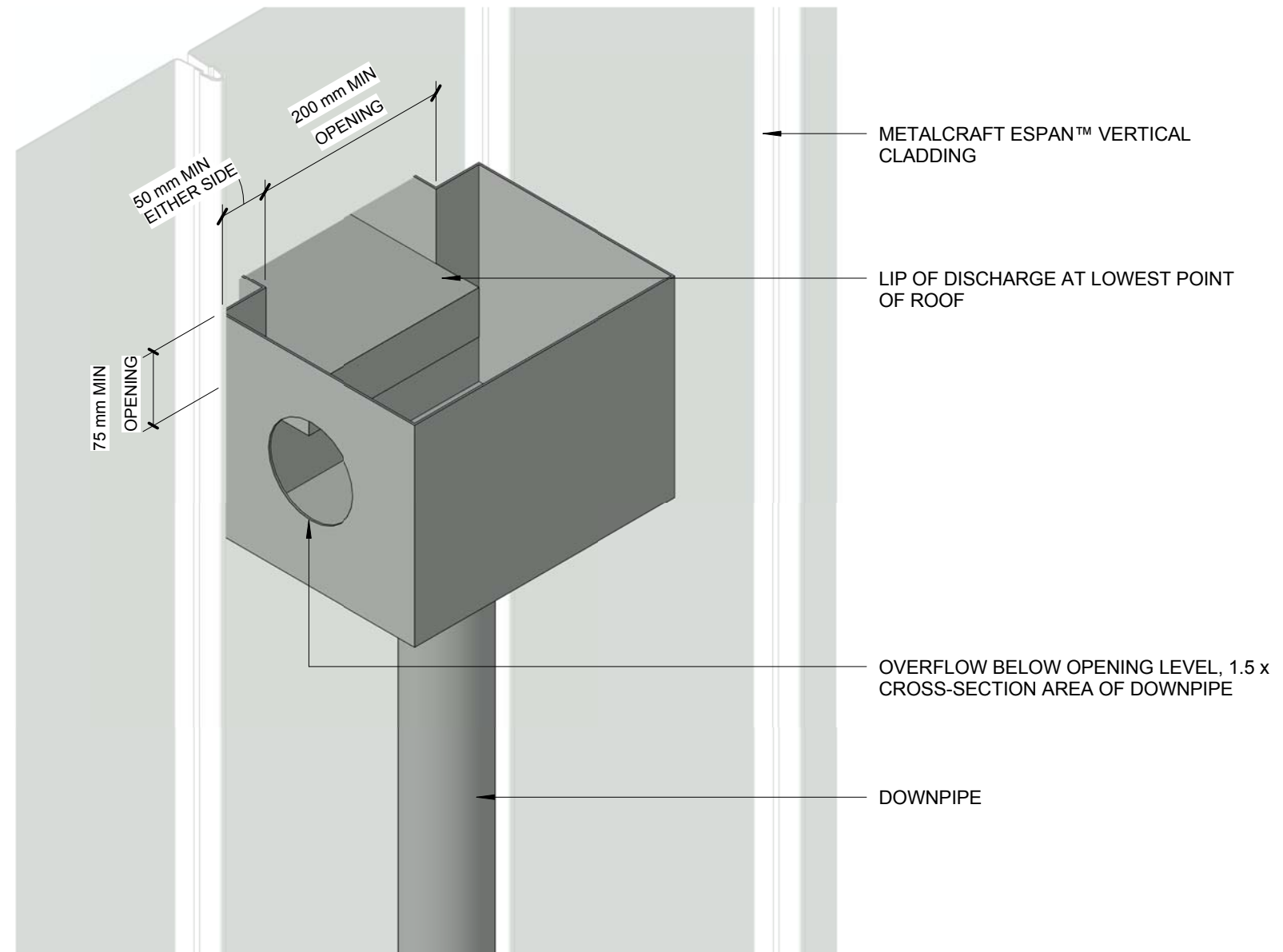
**19 / 21**

## RECESSED WINDOW FLASHINGS



- CAVITY SYSTEM FOR VERTICAL CLADDING : 20mm NOMINAL THICK (VERTICALLY DRAINING) HORIZONTAL CAVITY SYSTEM WITH BATTENS AS APPLICABLE TO SUPPORT CLADDINGS & FLASHINGS TO NZBC.

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