

FIVE CROWN VERTICAL WALL PANEL DRAWING LIST

- KSN1000FC FIVE CROWN VERTICAL WALL PANEL -				
DRG_REF	DETAIL NAME	DATE	REVISION	APPROVED
FC_VS_01	FIVE CROWN VERTICAL WALL PANEL DRAWING LIST	04.06.25	2025	JS
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DISCLAIMER

These details are provided as a guideline for correct panel and associated component installation, which are based on industry accepted practices.

The location of the vapour barrier and associated sealants in these details are for typical "ambient" installations. Contact Kingspan Technical for specific detailing for low temp, high humidity or fire detailing.

All structural supports are 'not by Kingspan'. They are shown for clarification and illustrative purposes only.

Refer the product data sheet for maximum panel spans based on the project specific design loads as determined by the project engineer.

Cold rolled steel sections are shown on these details however hot rolled or timber can be substituted.

The number of fixings on any detail is an indication only, the actual number required is project specific and need to be calculated based on project specific conditions. Refer to the project engineer.

These details are subject to change at anytime. Please refer to the Kingspan NZ website or Kingspan Technical for the latest version.

SYSTEM

KSN1000FC FIVE CROWN VERTICAL WALL PANEL

DESCRIPTION

FIVE CROWN VERTICAL WALL PANEL
DRAWING LIST

APPROVED BY

JS

DATE

04.06.25

REVISION

2025

DRG REF:

FC_VS_01

SCALE

1:1

SHEET


- -

PAPER SIZE

A4

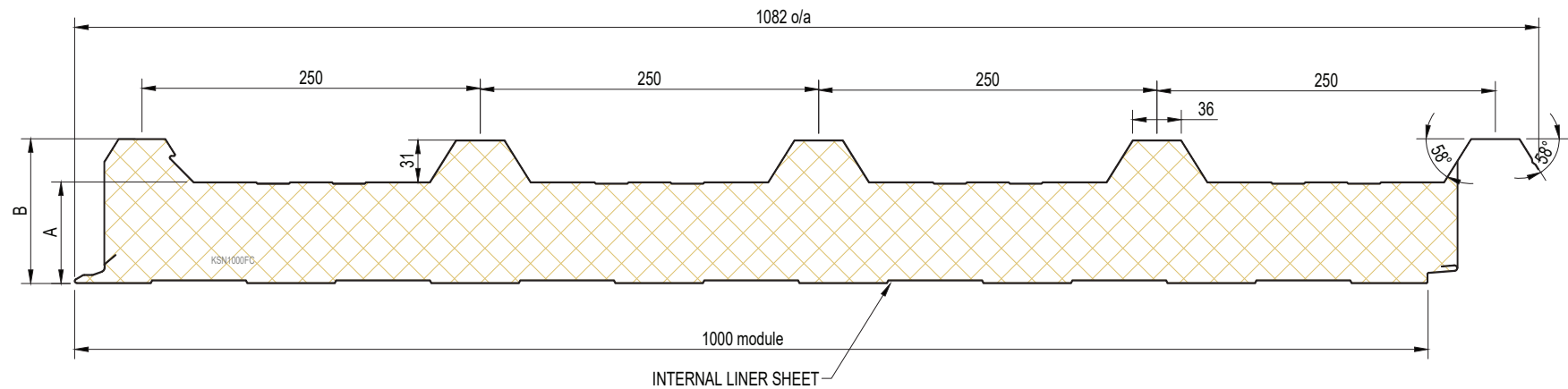
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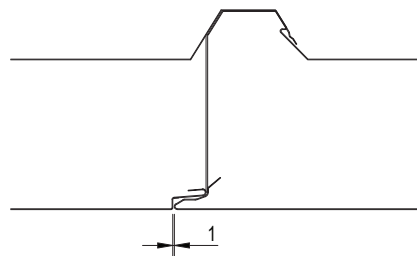
KSN1000FC WALL PANEL PROFILE DIMENSIONS



NOTE: ABOVE DIMENSIONS ARE NOMINAL, ACTUAL DIMENSIONS WILL VARY DUE TO MANUFACTURING TOLERANCES. PRECISE DIMENSIONS MUST ALWAYS BE MEASURED FROM ACTUAL SAMPLES. ALL DIMENSIONS IN MILLIMETRES.

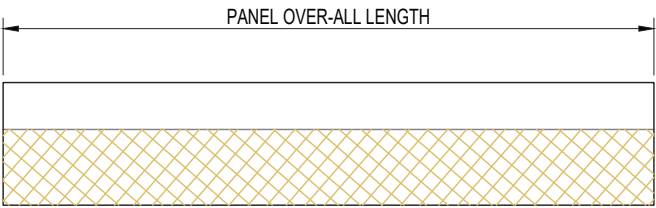
Product Tolerances

Length < 3 m	±5 mm
Length > 3 m	±10 mm
Cover Width	±2 mm
Thickness < 100 mm	±2 mm
Thickness > 100 mm	±2%



KSN1000FC

A - CORE THICKNESS (MM)	50	75	100	125	150
B - OVERALL DIMS (MM)	82	107	132	157	182



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION KSN1000FC WALL PANEL PROFILE DIMENSIONS			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_02	SCALE 1:5	SHEET - -	PAPER SIZE A4

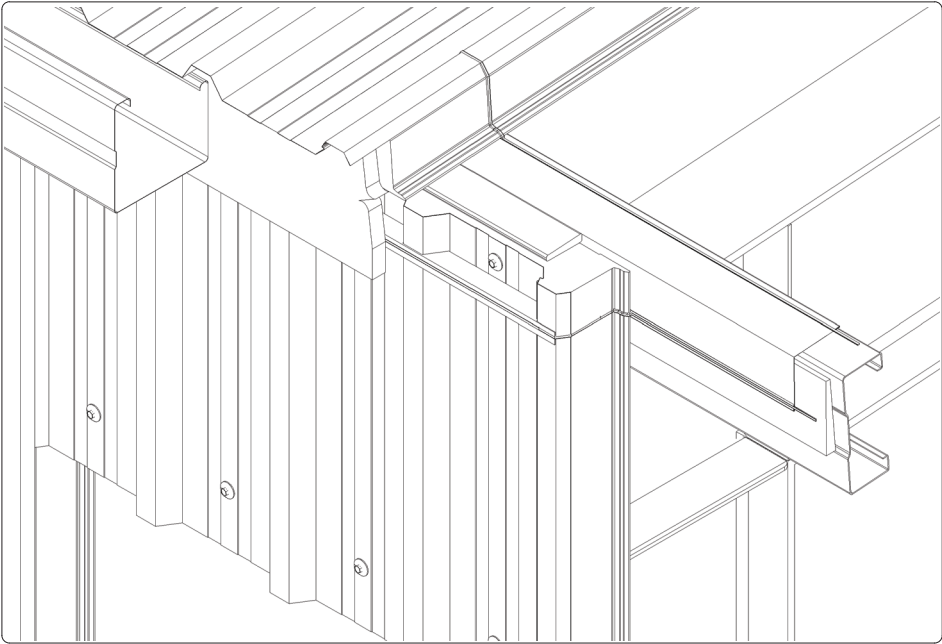
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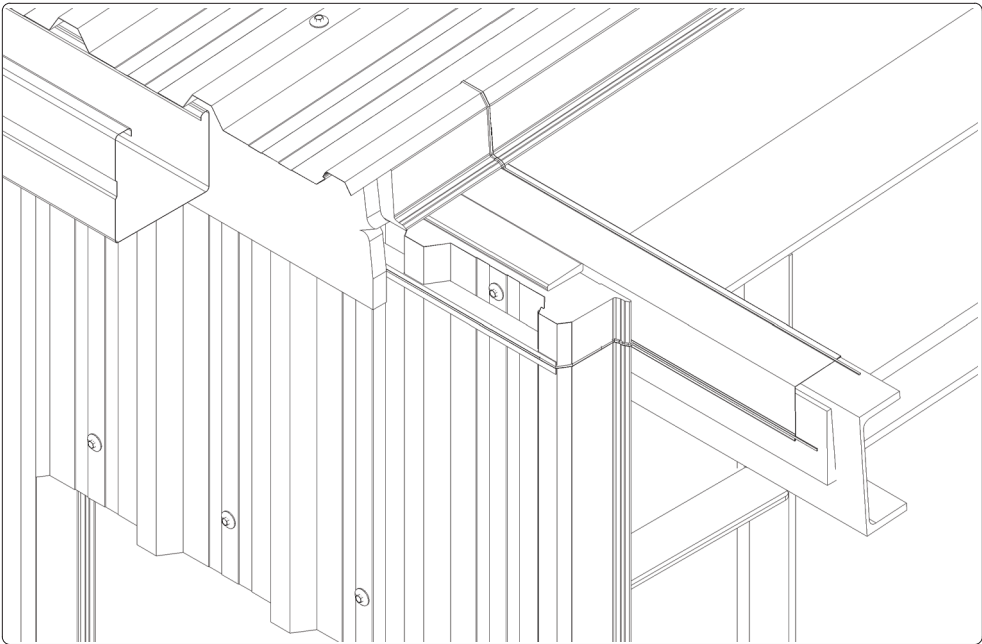


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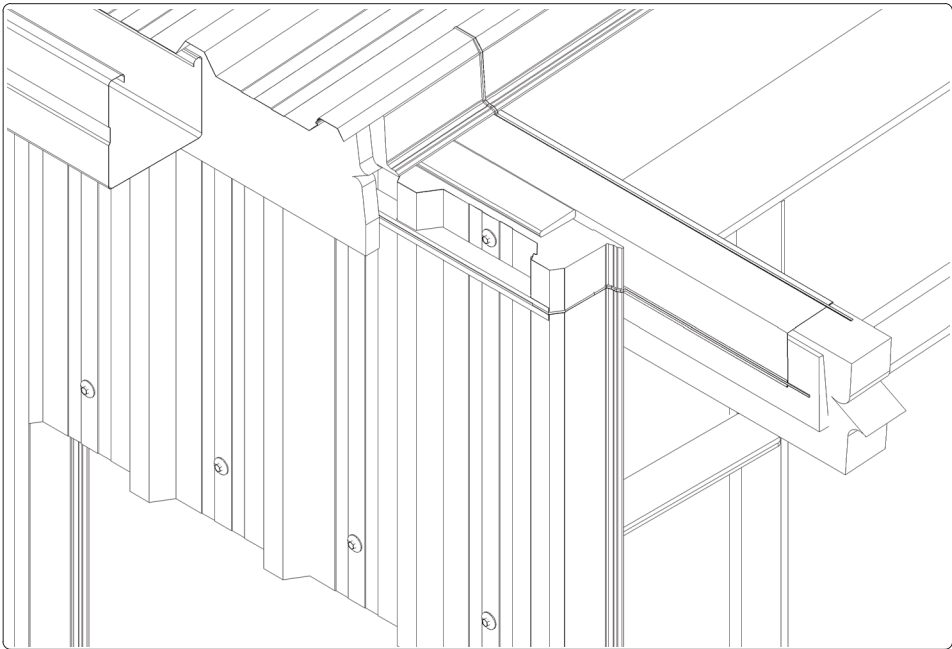
PRIMARY STRUCTURE OPTIONS



KSN1000FC FIXED TO LIGHT STEEL FRAME

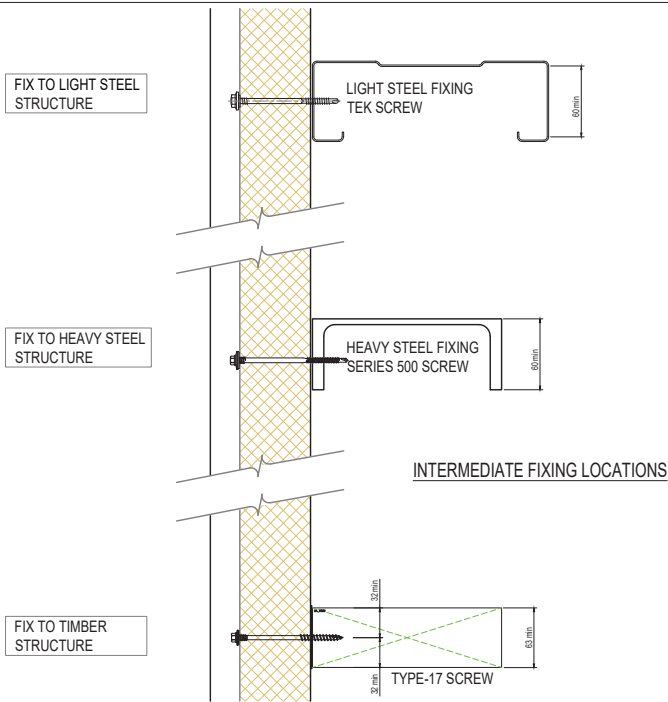



KSN1000FC FIXED TO HEAVY STEEL FRAME



KSN1000FC FIXED TO TIMBER FRAME

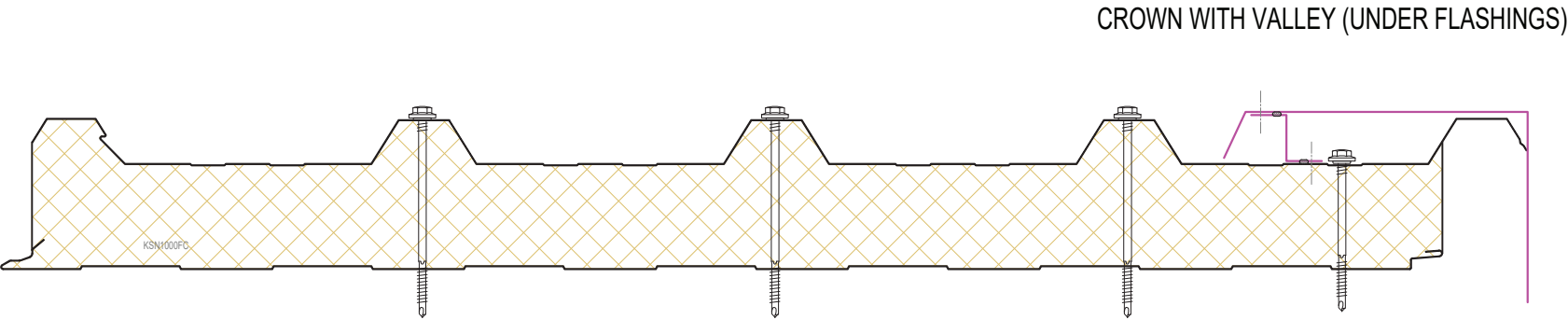
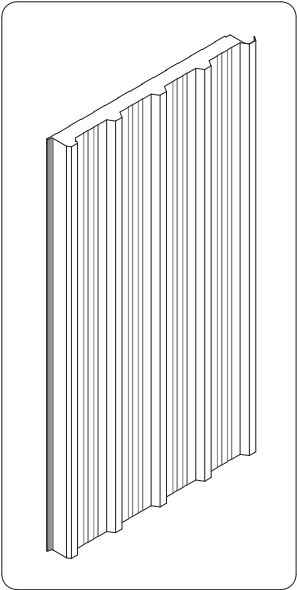
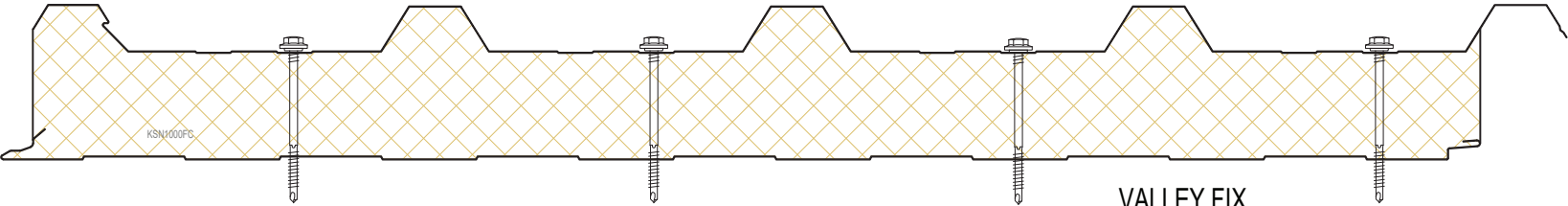
REFER TO STRUCTURAL DETAILS FOR ELEMENT DIMENSIONS



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PRIMARY STRUCTURE OPTIONS			
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PANEL FIXING LOCATIONS

THE NUMBER OF FIXINGS & FIXING TYPE TO BE DETERMINED BY THE DESIGNER, BASED ON
PANEL SPANS AND SITE SPECIFIC WIND LOADS.
REFER FIXING MANUFACTURER FOR THE CORRECT FIXING INTO LIGHT STEEL, HEAVY STEEL
OR TIMBER. MINIMUM WASHER SIZE TO BE 19mm. FASTENERS TO BE CLASS 4 OR BETTER.



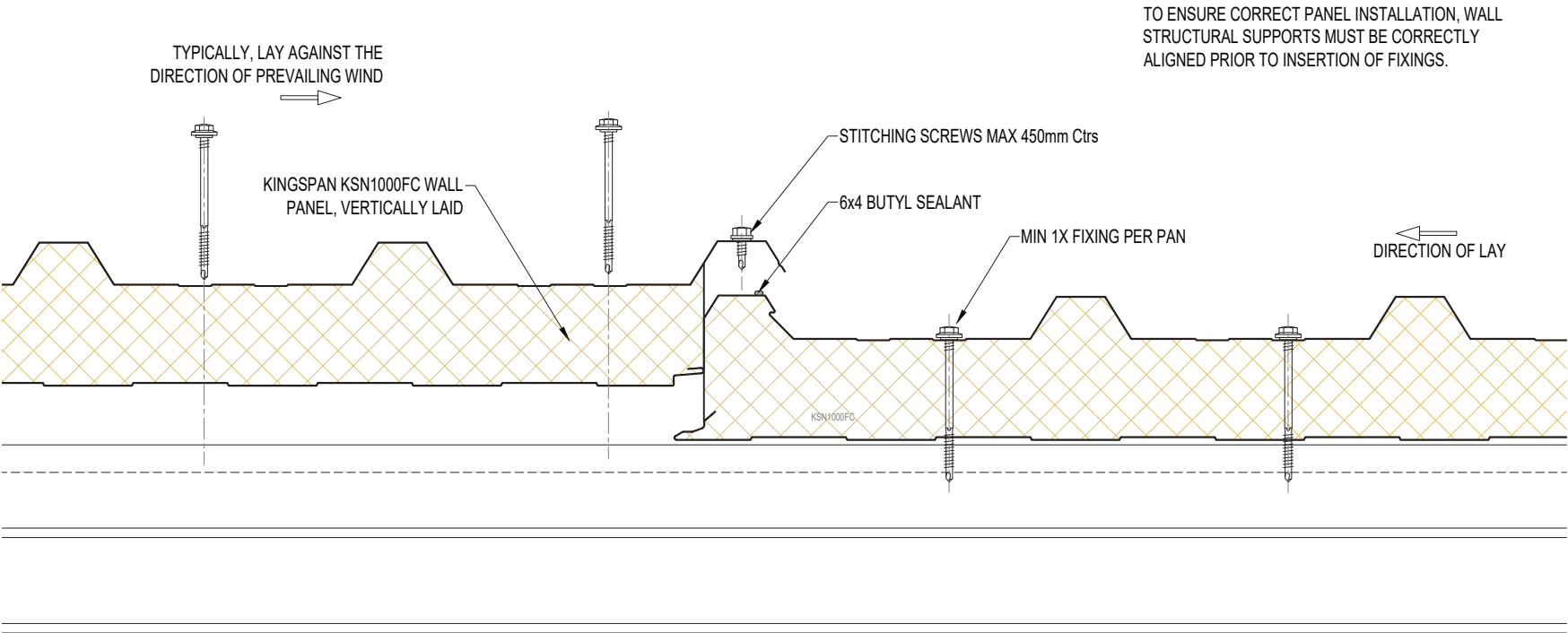
SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PANEL FIXING LOCATIONS			
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PANEL LAP DETAILS



TO ENSURE CORRECT PANEL INSTALLATION, WALL STRUCTURAL SUPPORTS MUST BE CORRECTLY ALIGNED PRIOR TO INSERTION OF FIXINGS.

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PANEL LAP DETAILS			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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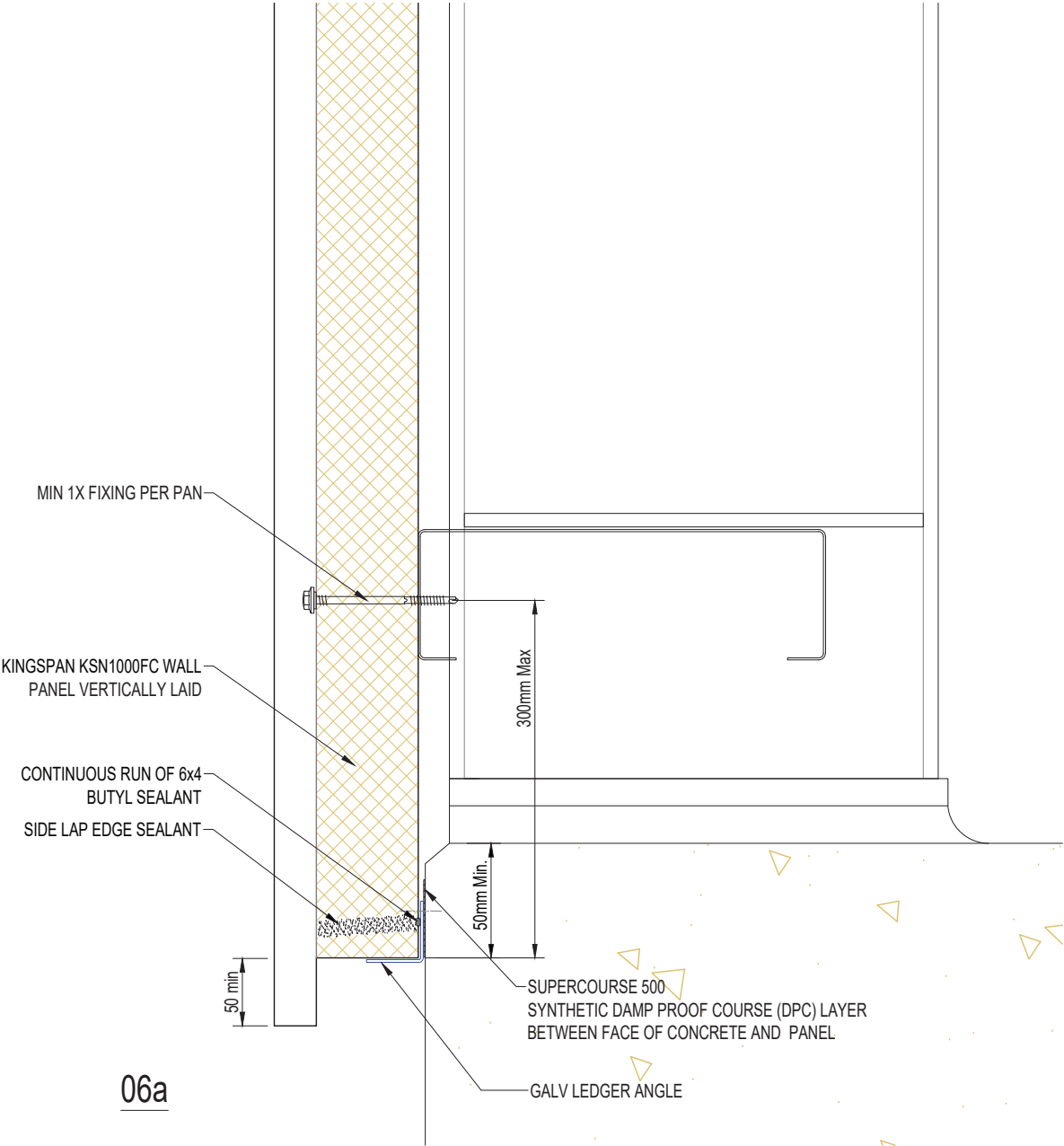
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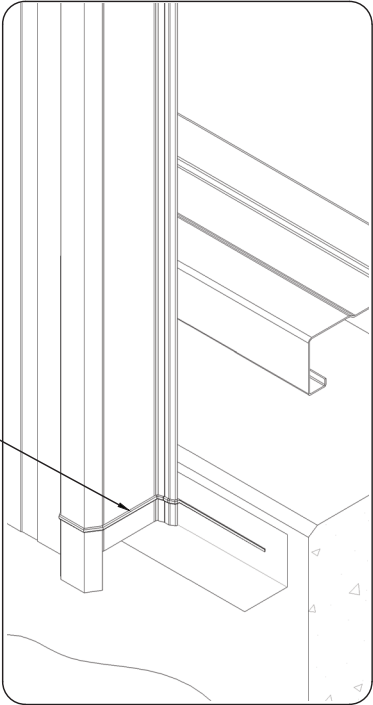


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BASE DETAILS 1



SIDE LAP EDGE SEALANT:
SIKALASTOMER 511 BUTYL
SEALANT OR SIMILAR



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAILS 1			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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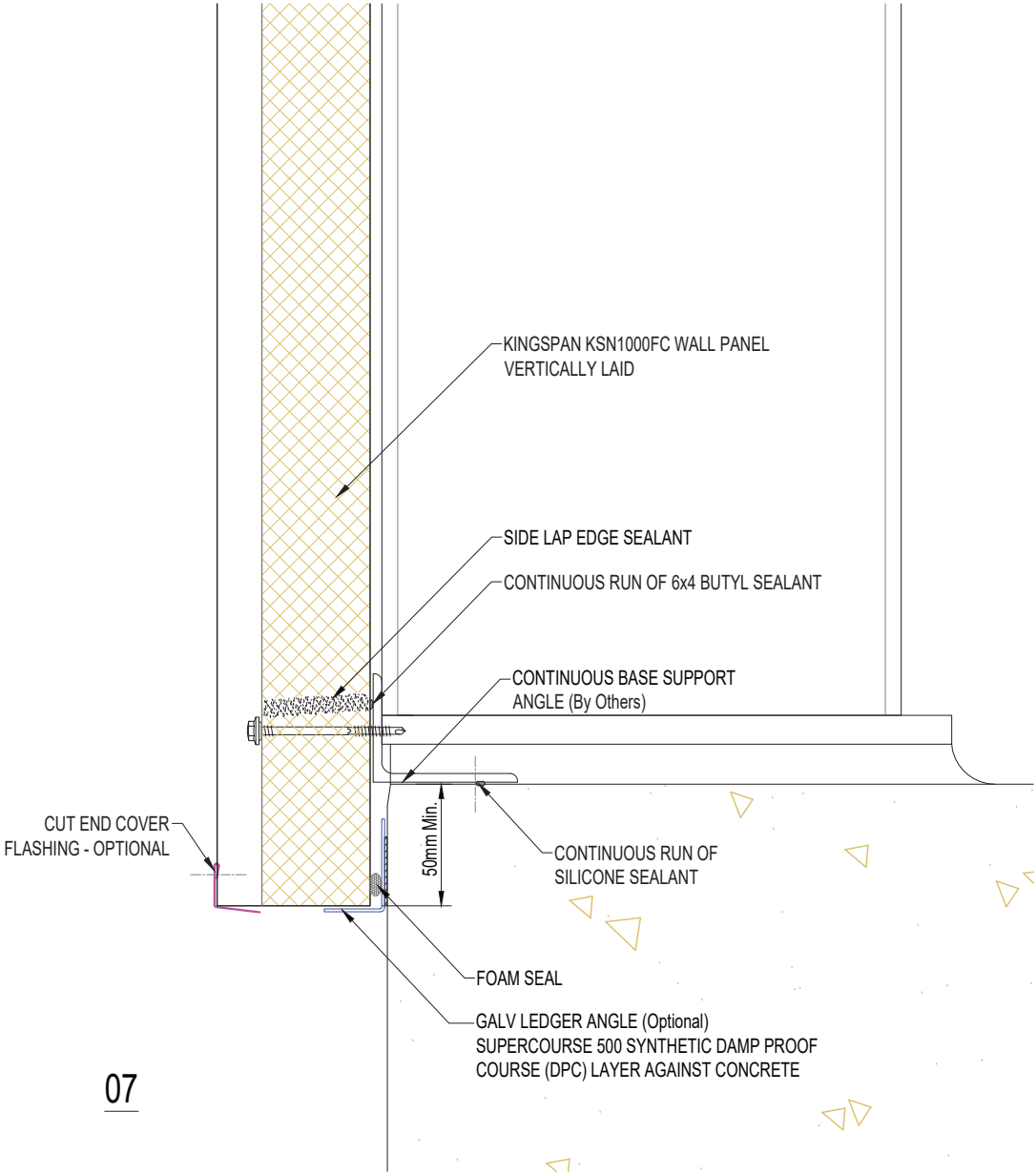
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BASE DETAILS 2



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAILS 2			
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DRG REF: FC_VS_07	SCALE 1:5	SHEET - -	PAPER SIZE A4

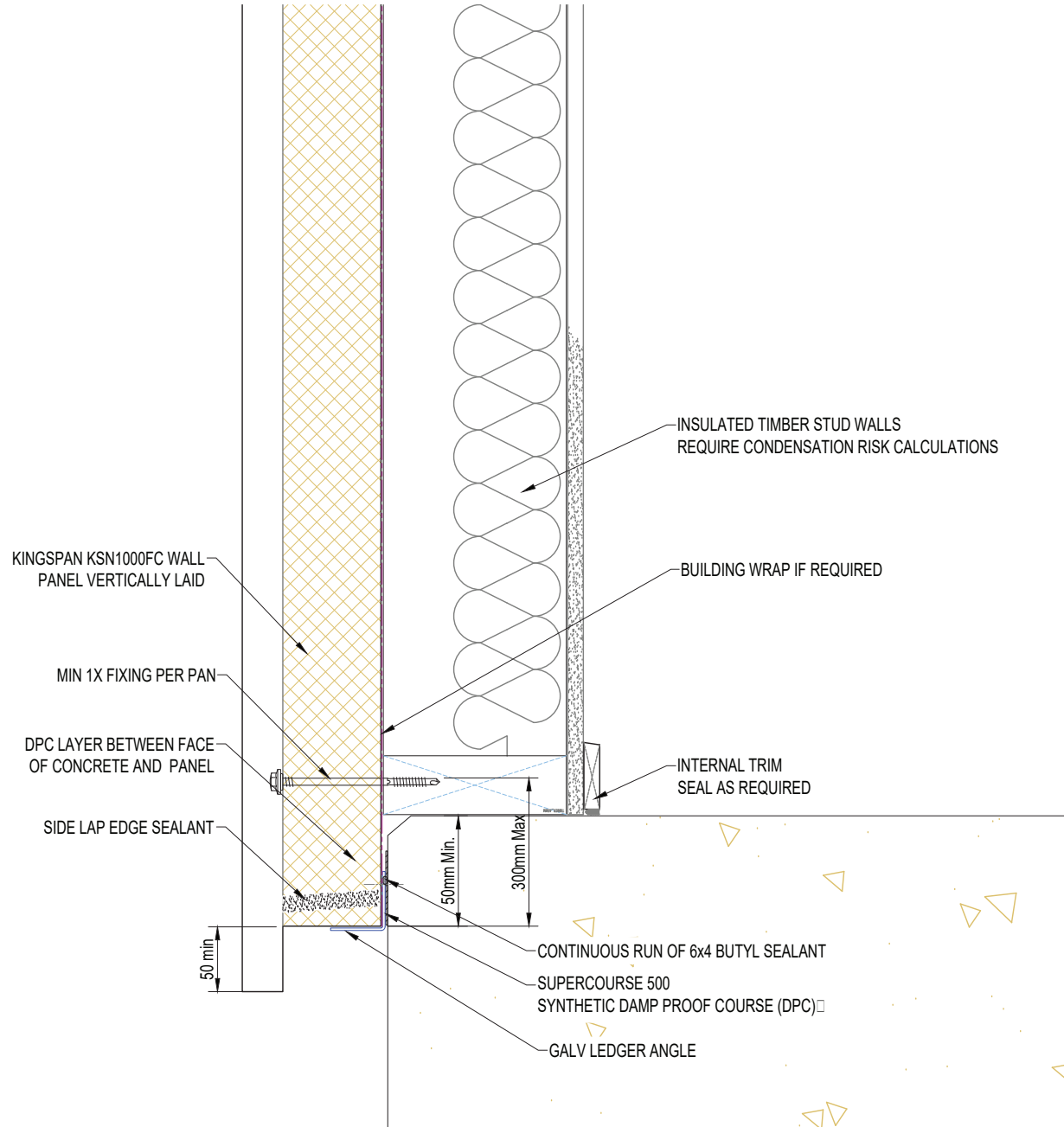
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BASE DETAIL 3



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DESCRIPTION BASE DETAIL 3			
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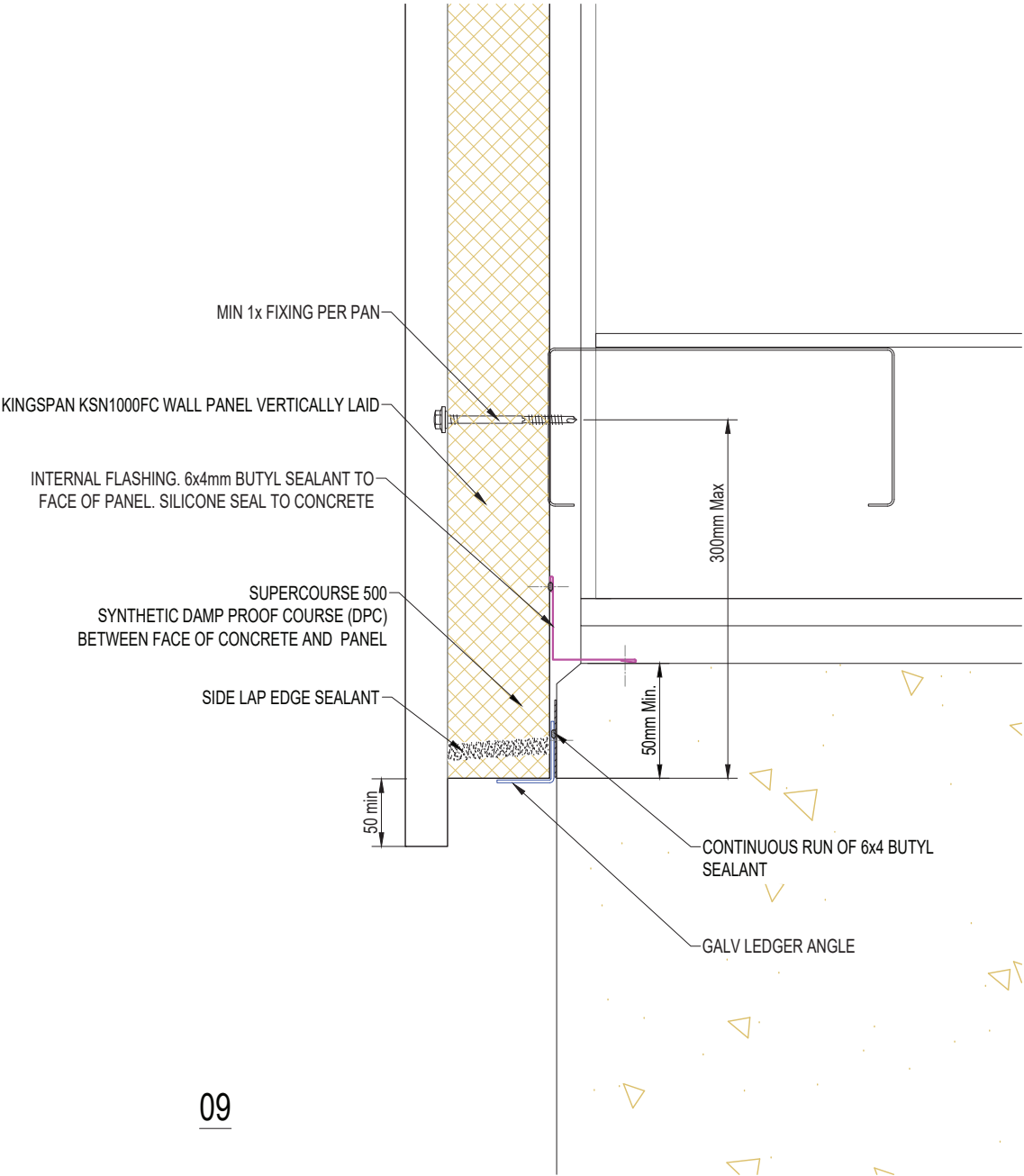
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BASE DETAILS 4



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAILS 4			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_09	SCALE 1:5	SHEET - -	PAPER SIZE A4

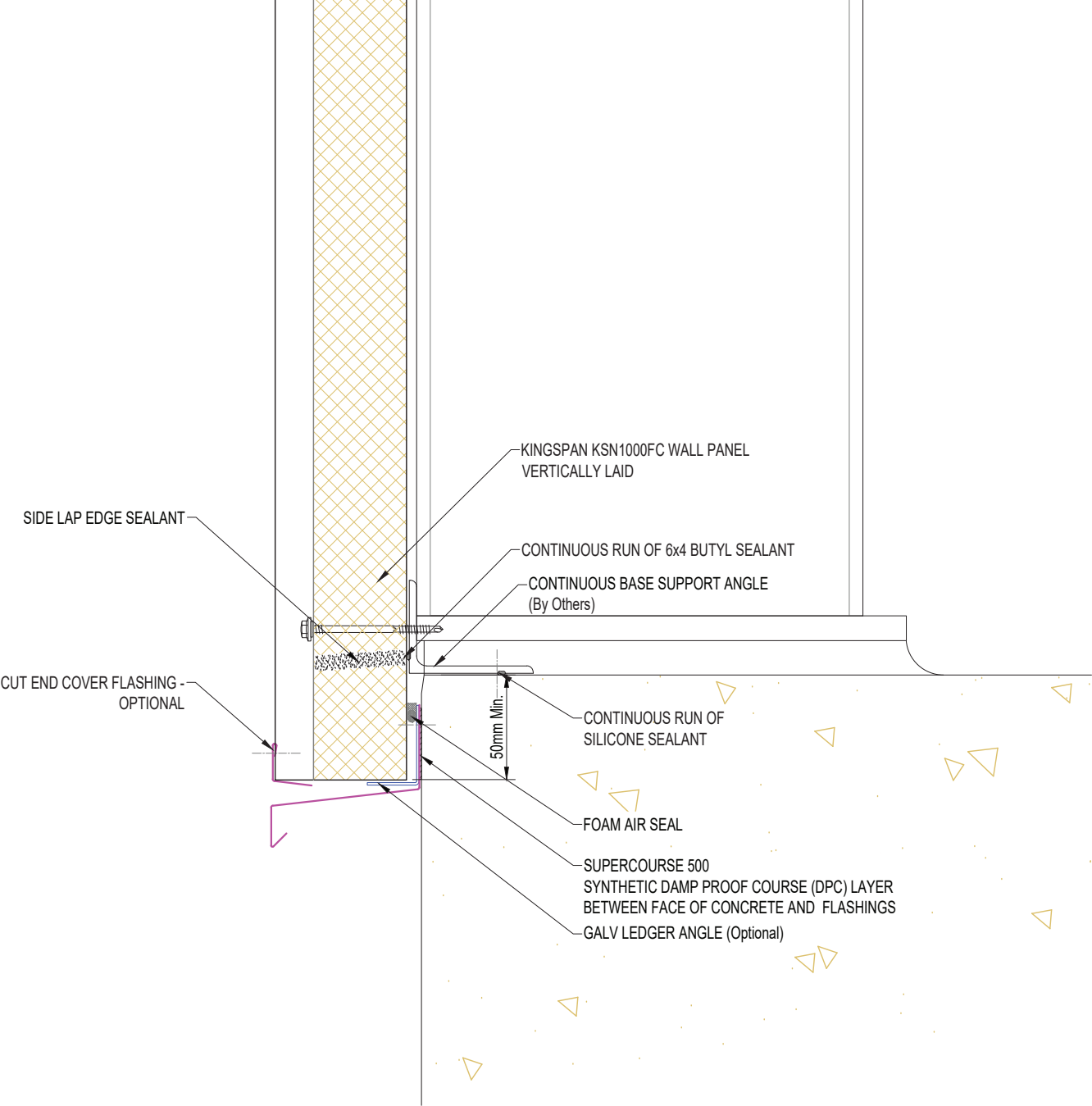
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BASE DETAIL 5



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAIL 5			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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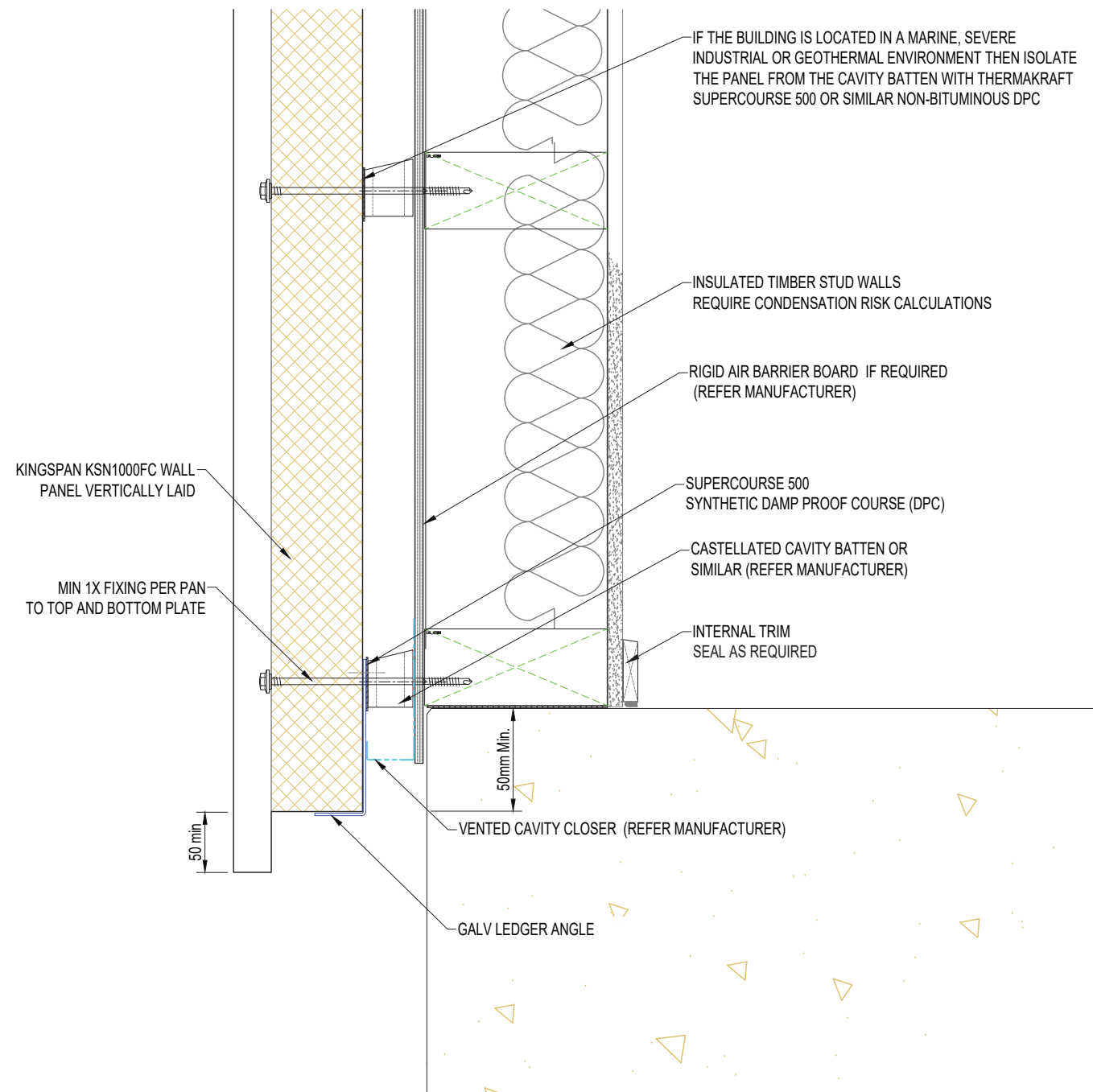
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BASE DETAIL 6



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAIL 6			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_11	SCALE 1:5	SHEET - -	PAPER SIZE A4

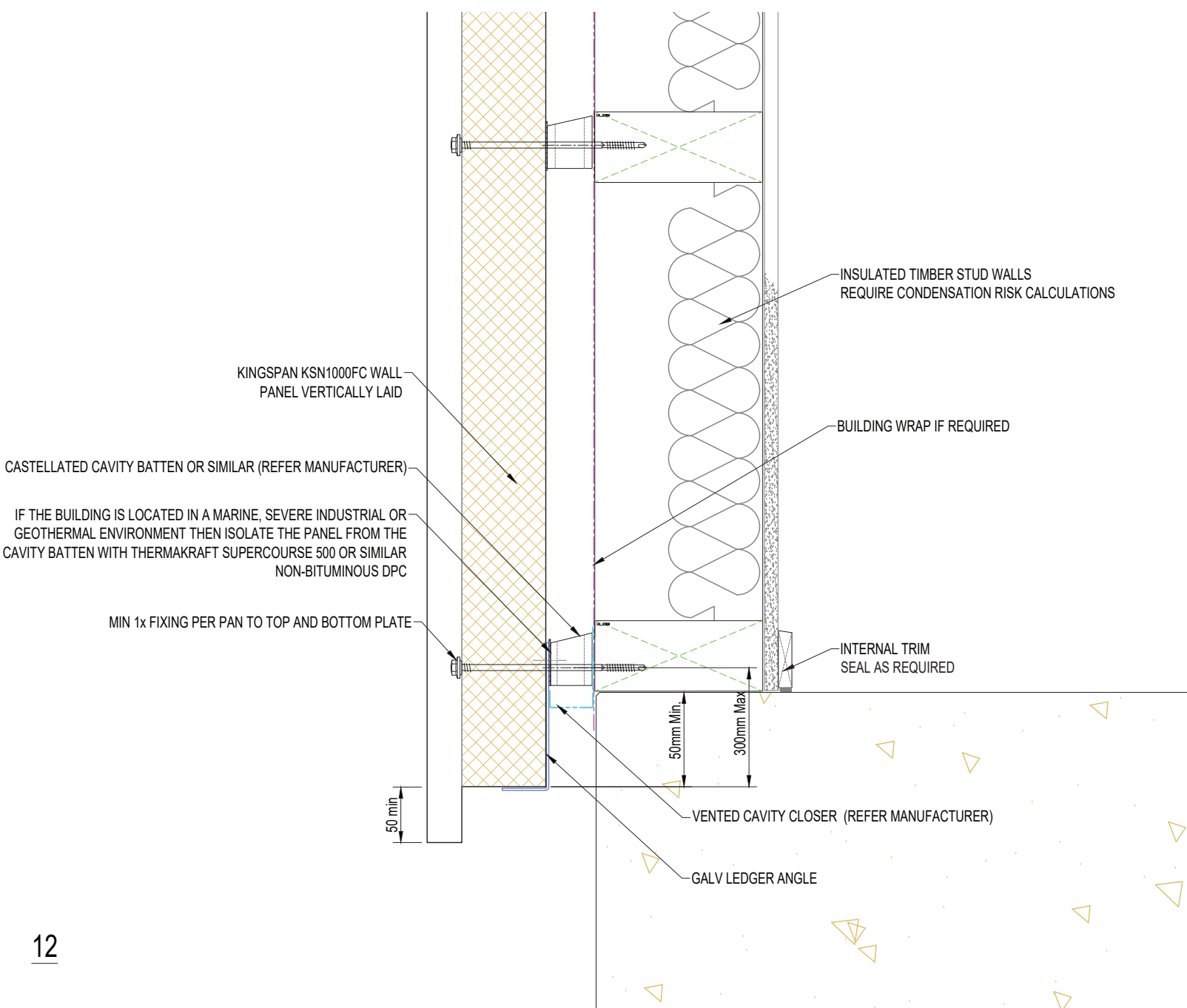
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BASE DETAIL 7



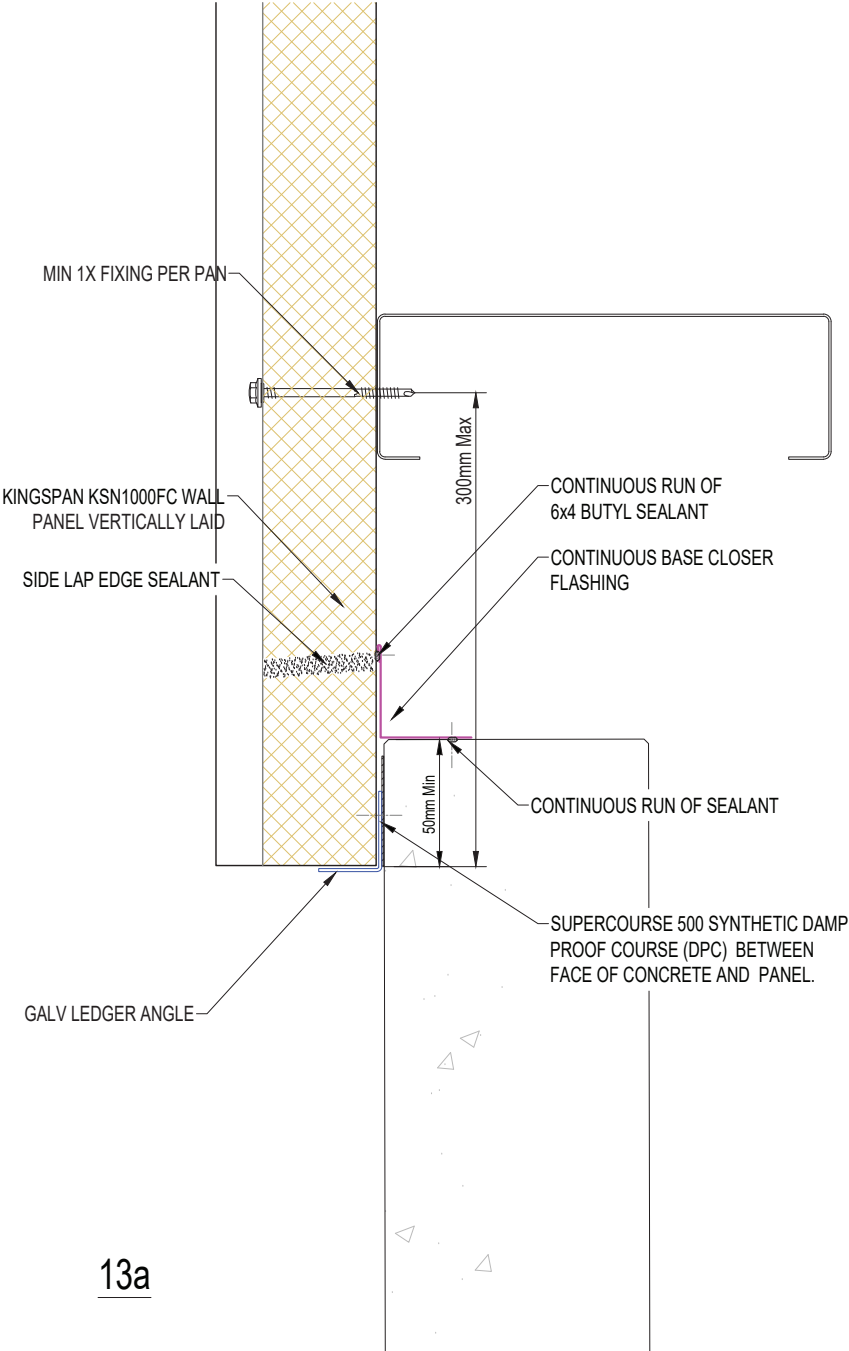
SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION BASE DETAIL 7			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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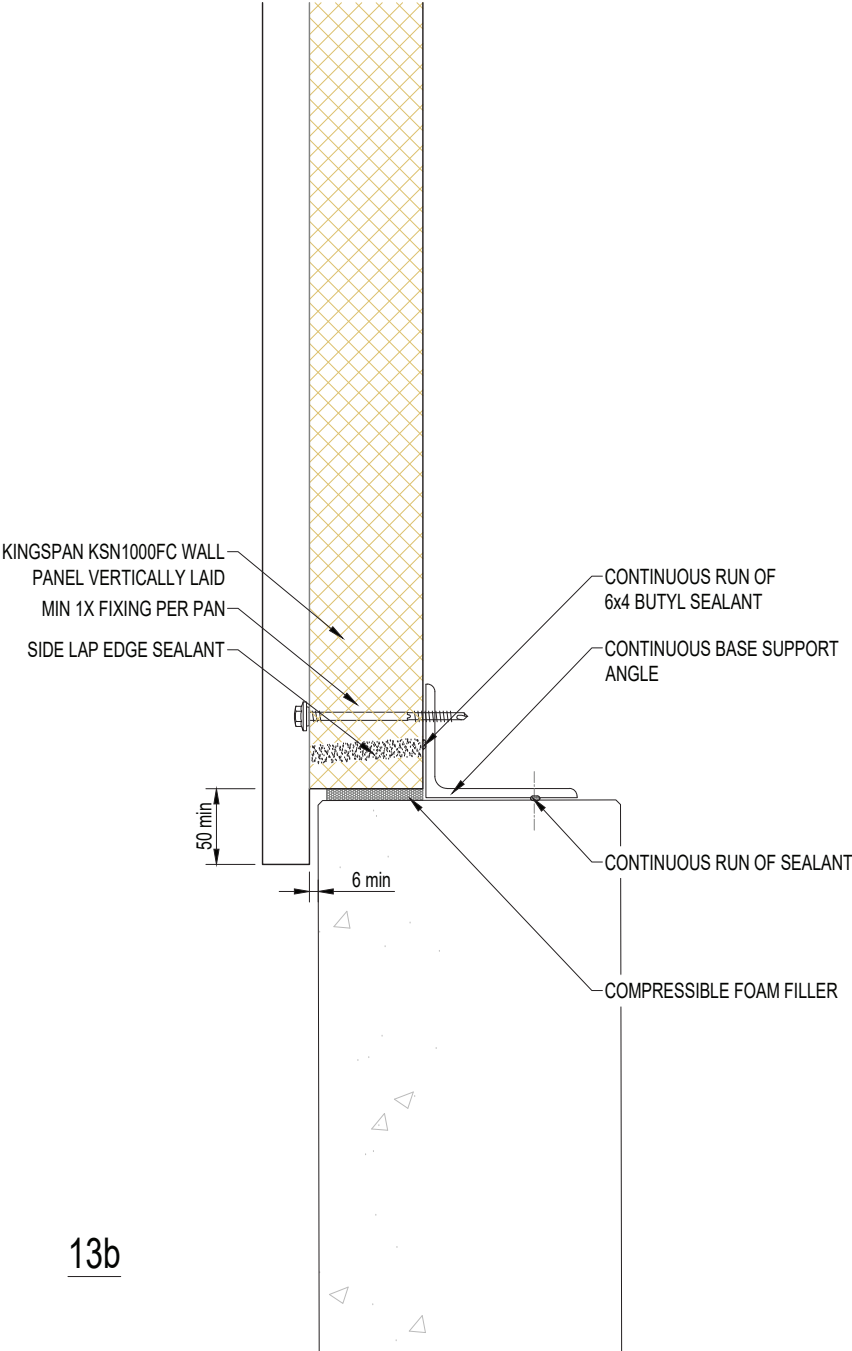
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NIB DETAIL 1



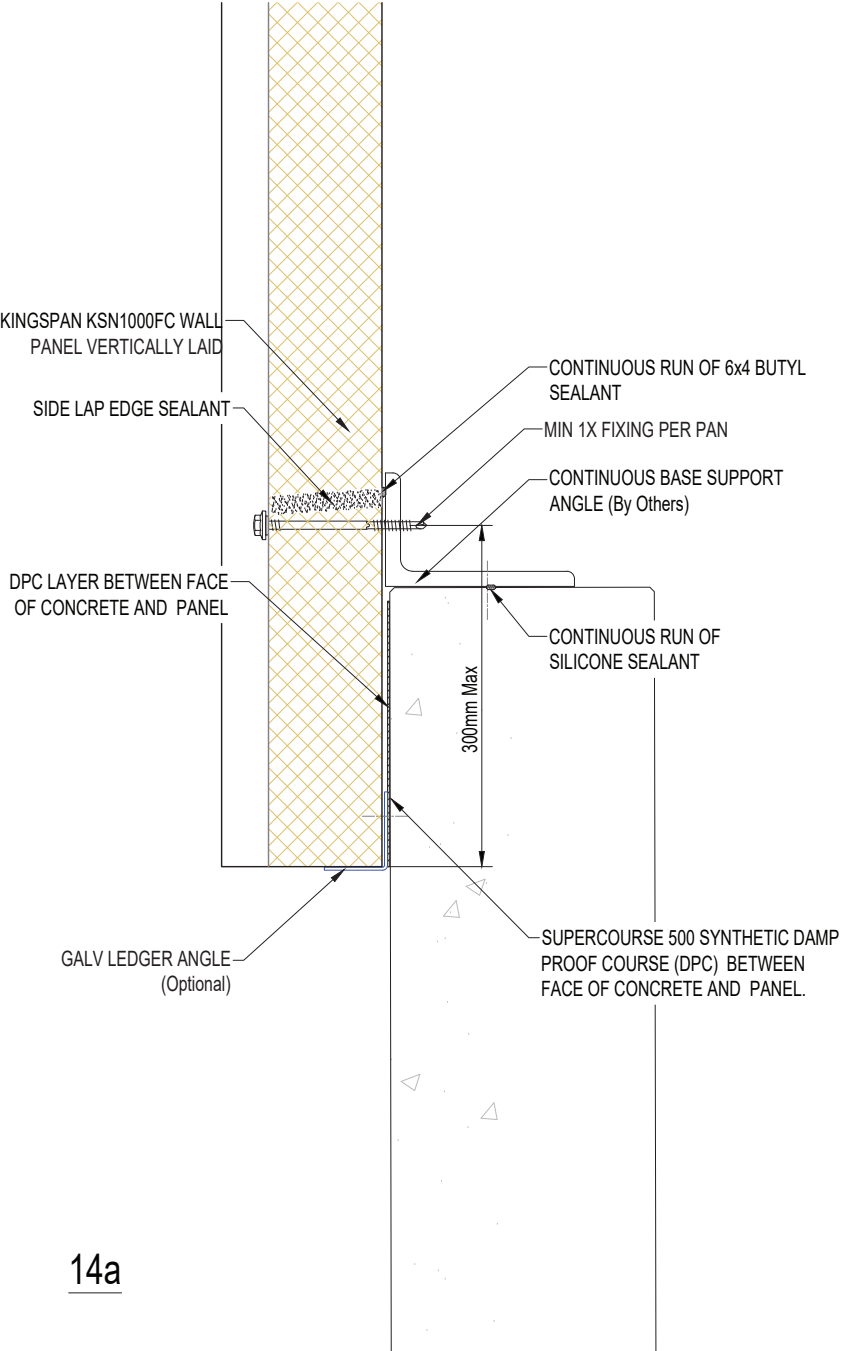
13a



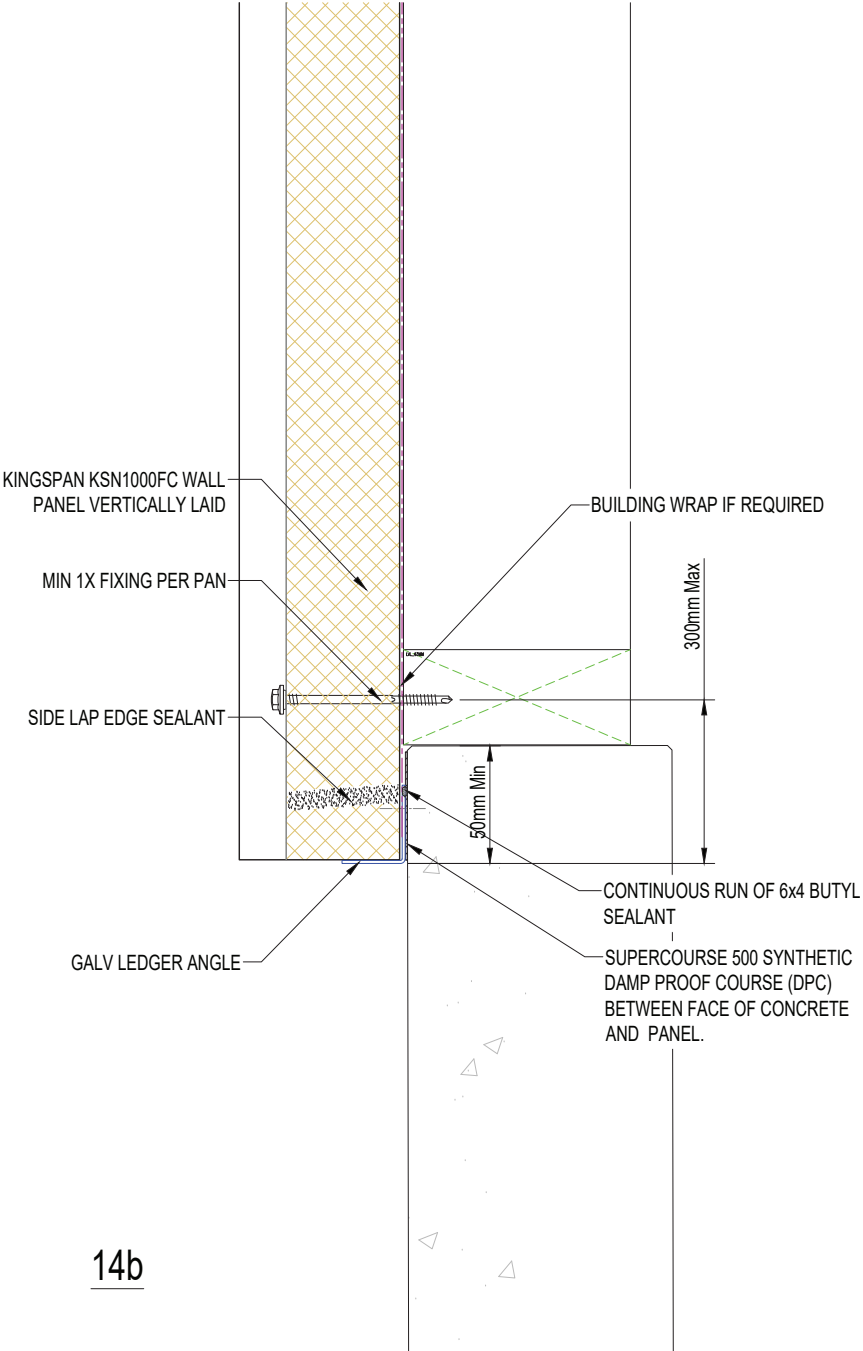
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SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION NIB DETAIL 1			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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NIB DETAIL 2



14a



14b

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION NIB DETAIL 2			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_14	SCALE 1:5	SHEET --	PAPER SIZE A4

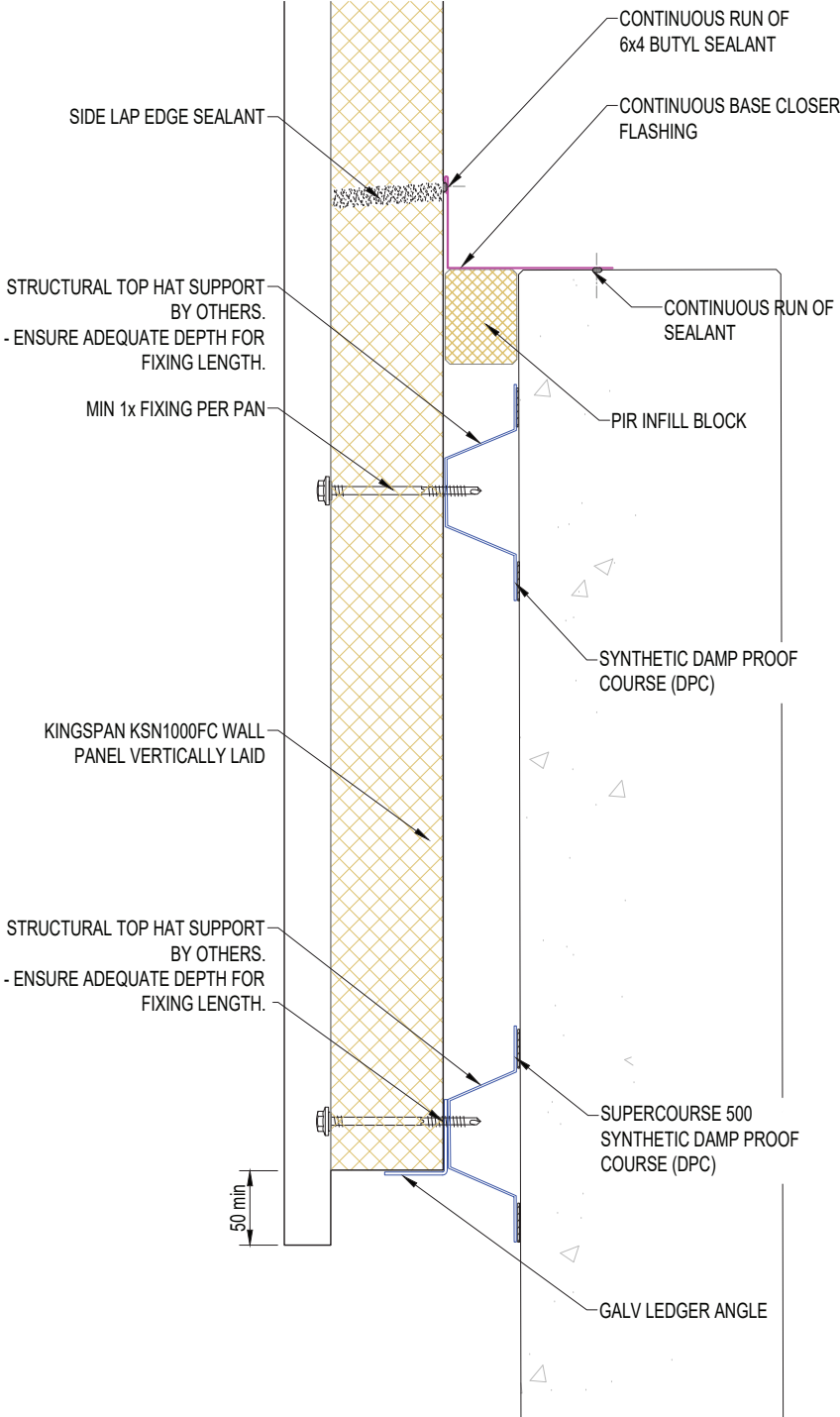
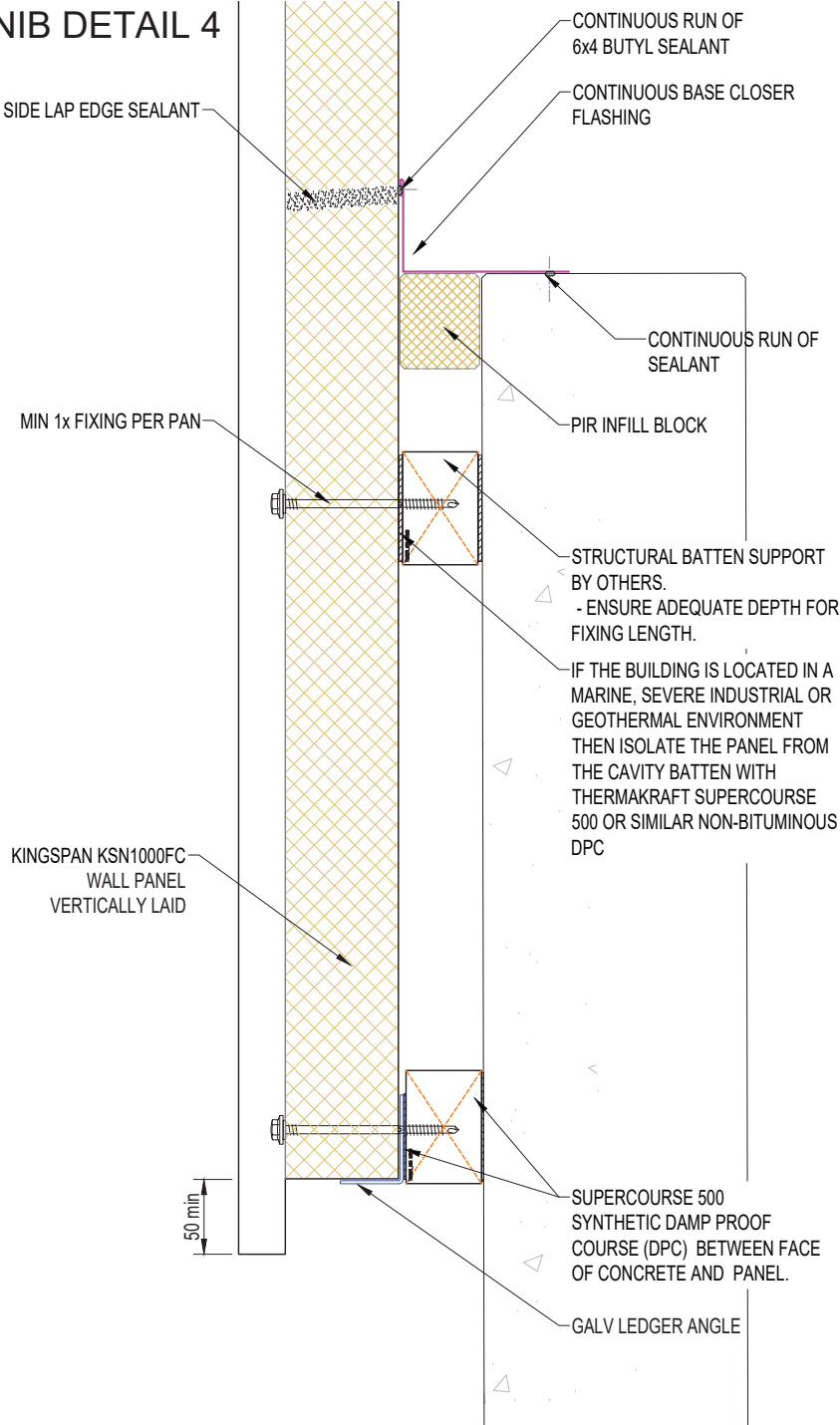
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NIB DETAIL 4



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION NIB DETAIL 4			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_15	SCALE 1:5	SHEET - -	PAPER SIZE A4

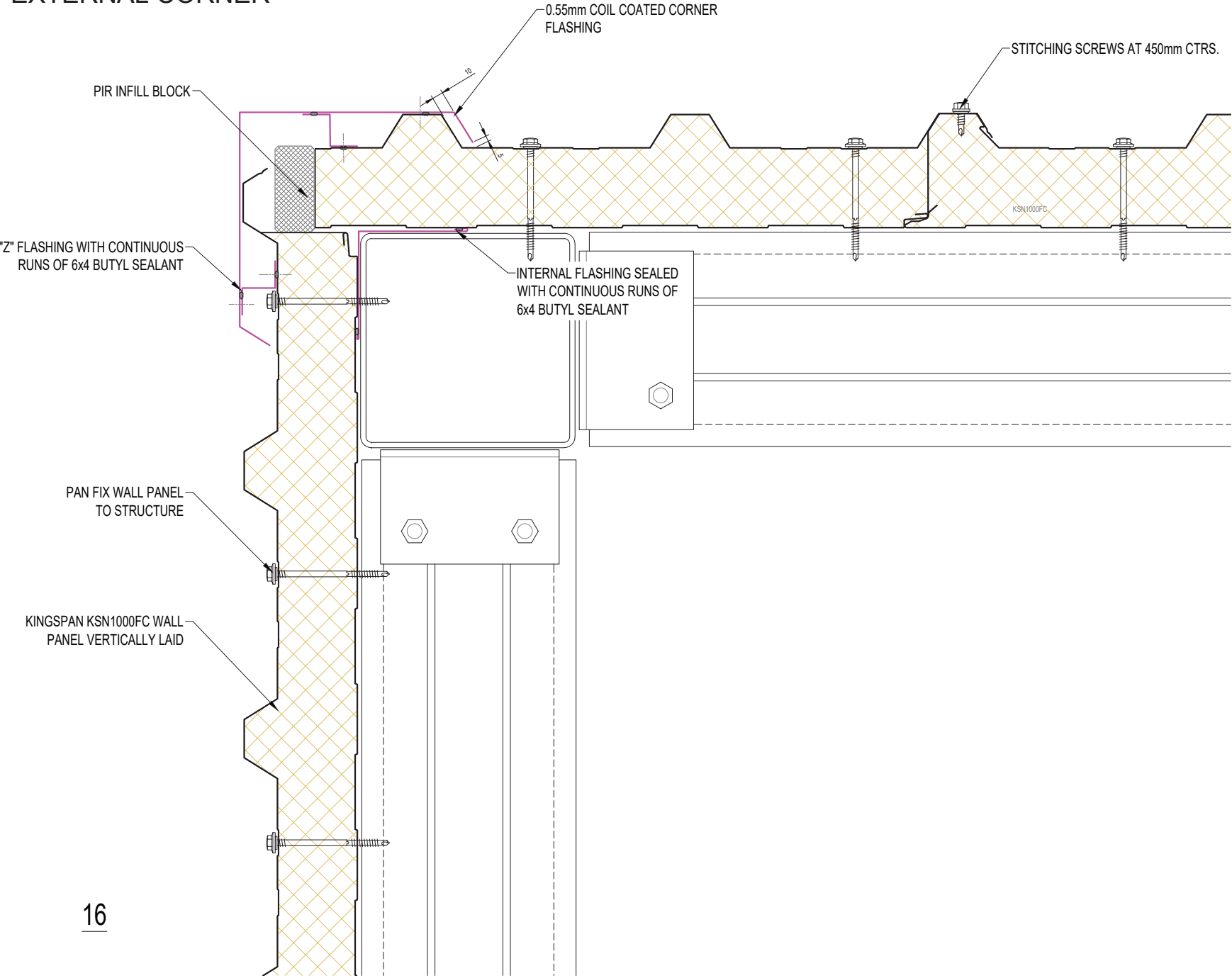
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EXTERNAL CORNER



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION EXTERNAL CORNER			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_16	SCALE 1:5	SHEET - -	PAPER SIZE A4

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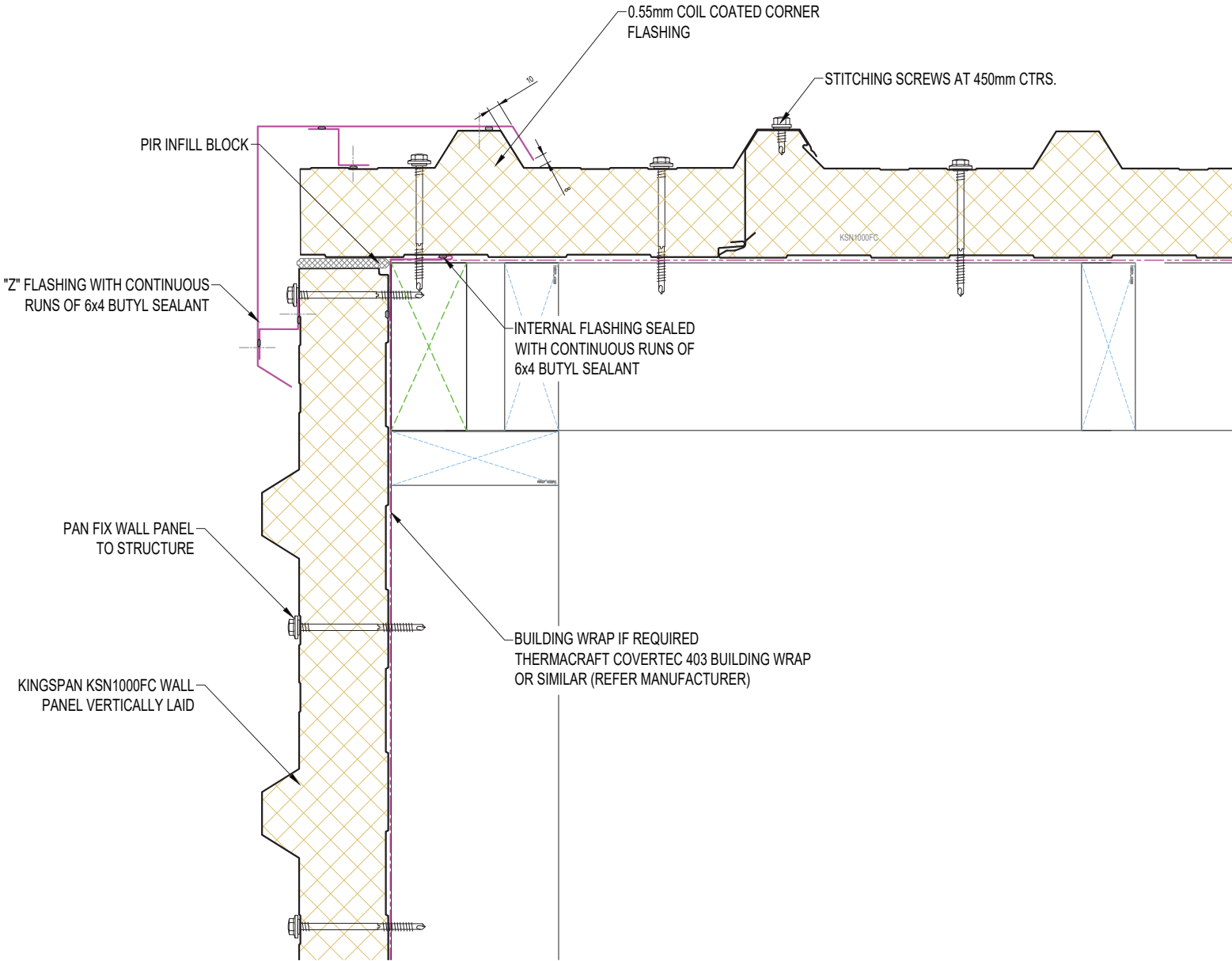
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EXTERNAL CORNER- TIMBER FRAME



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION EXTERNAL CORNER- TIMBER FRAME			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_17	SCALE 1:5	SHEET - -	PAPER SIZE A4

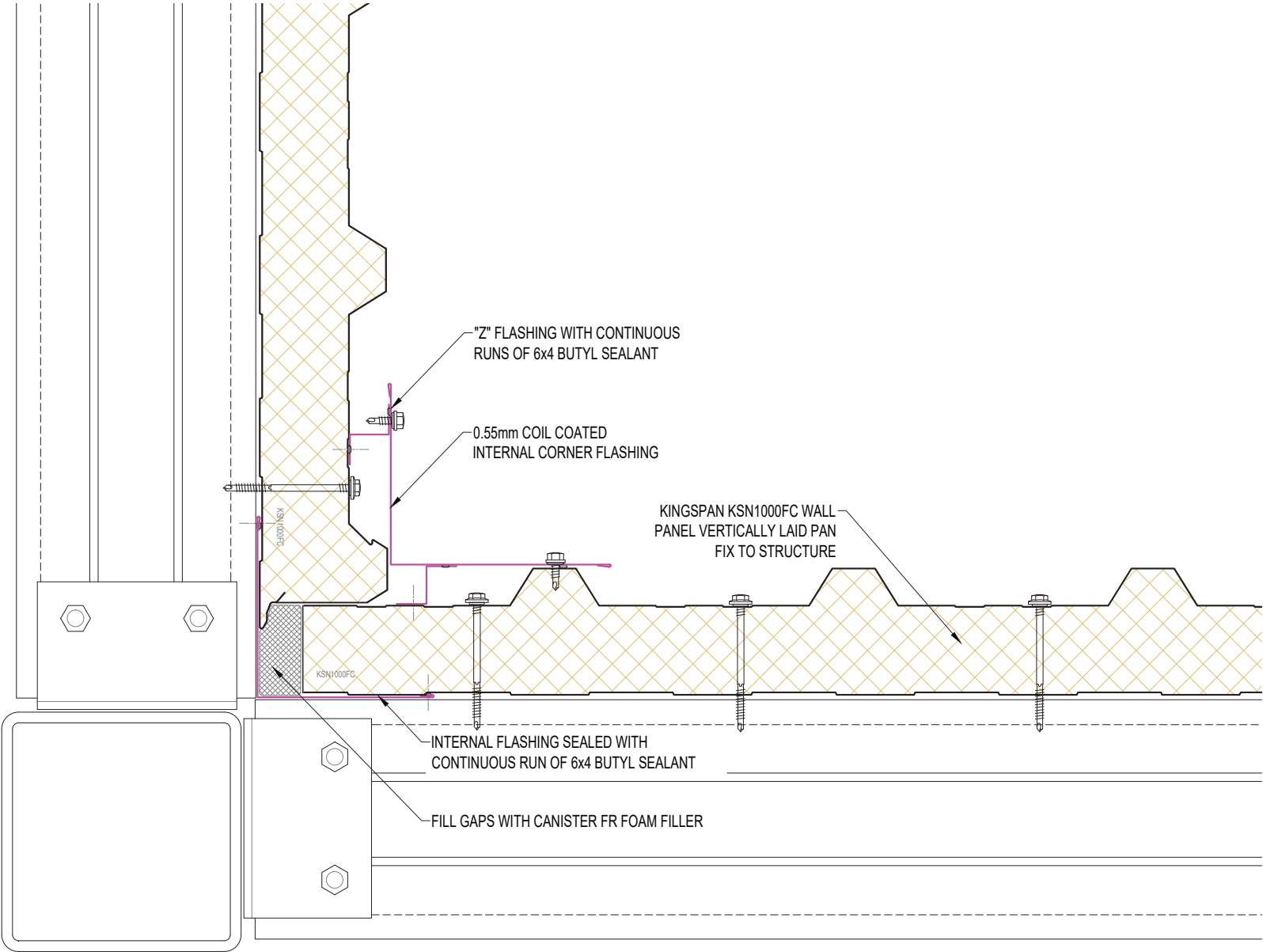
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INTERNAL CORNER - 1



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION INTERNAL CORNER - 1			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_18	SCALE 1:5	SHEET - -	PAPER SIZE A4

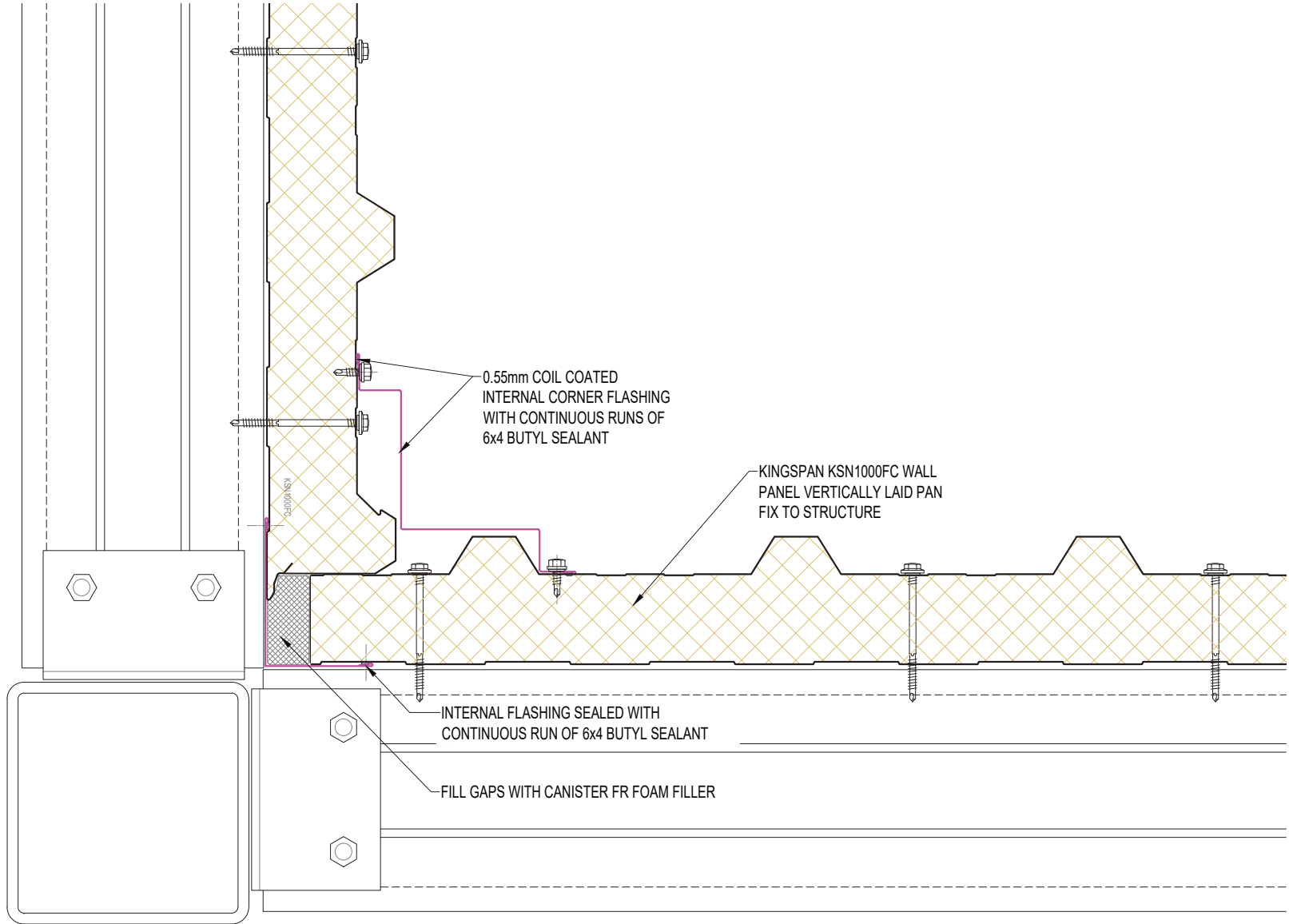
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INTERNAL CORNER - 2



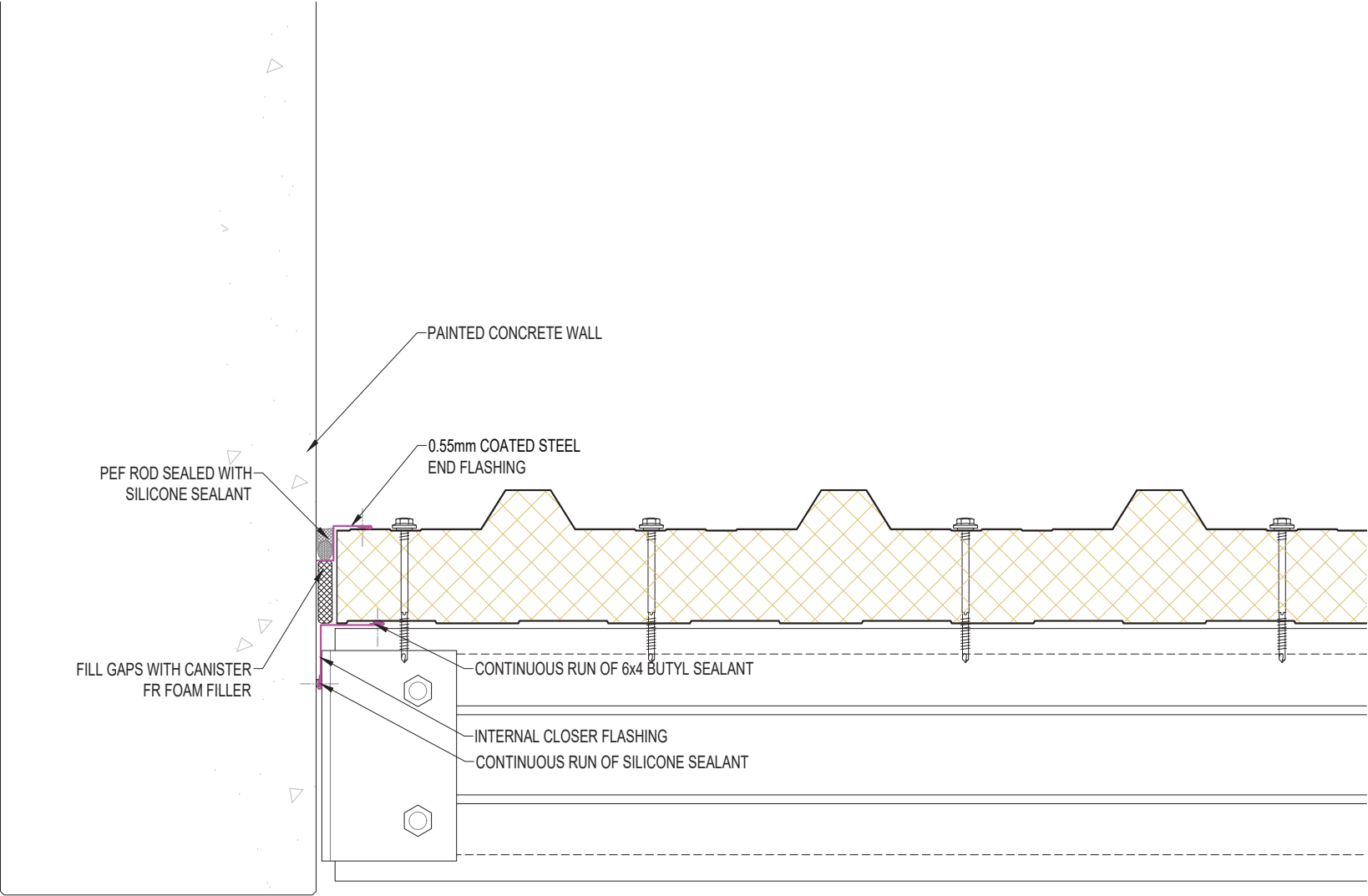
SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION INTERNAL CORNER - 2			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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INTERNAL CORNER - 3



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION INTERNAL CORNER - 3			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_20	SCALE 1:5	SHEET - -	PAPER SIZE A4

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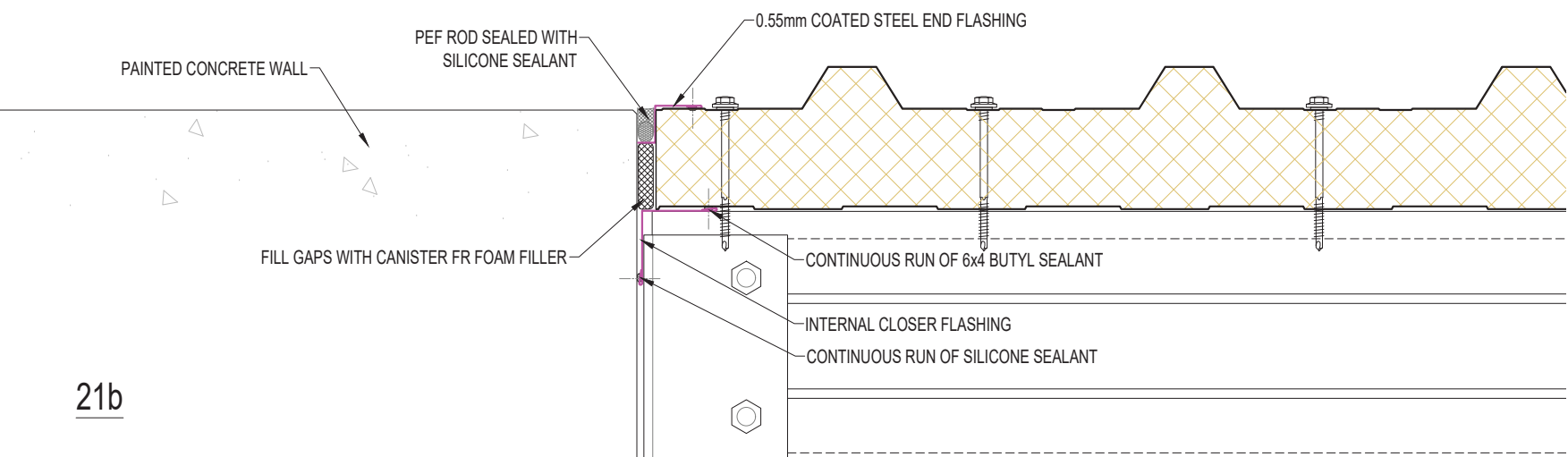
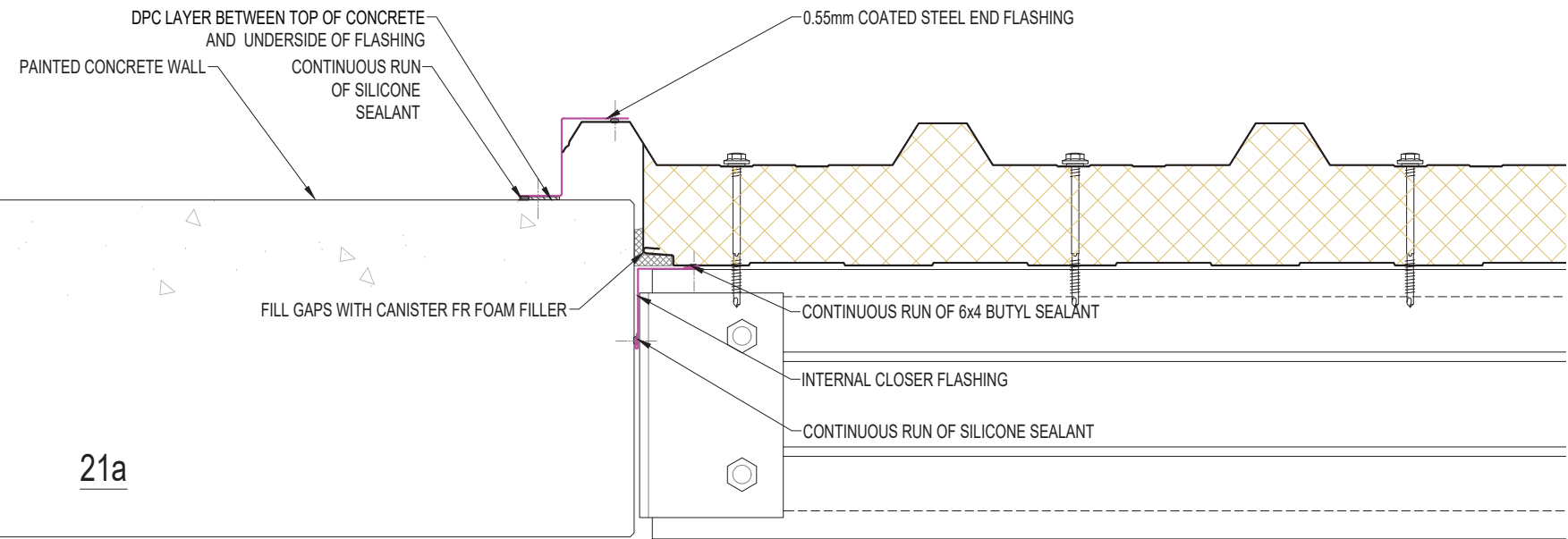
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ABUTMENT TO CONCRETE - FLUSH



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION ABUTMENT TO CONCRETE - FLUSH			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_21	SCALE 1:5	SHEET - -	PAPER SIZE A4

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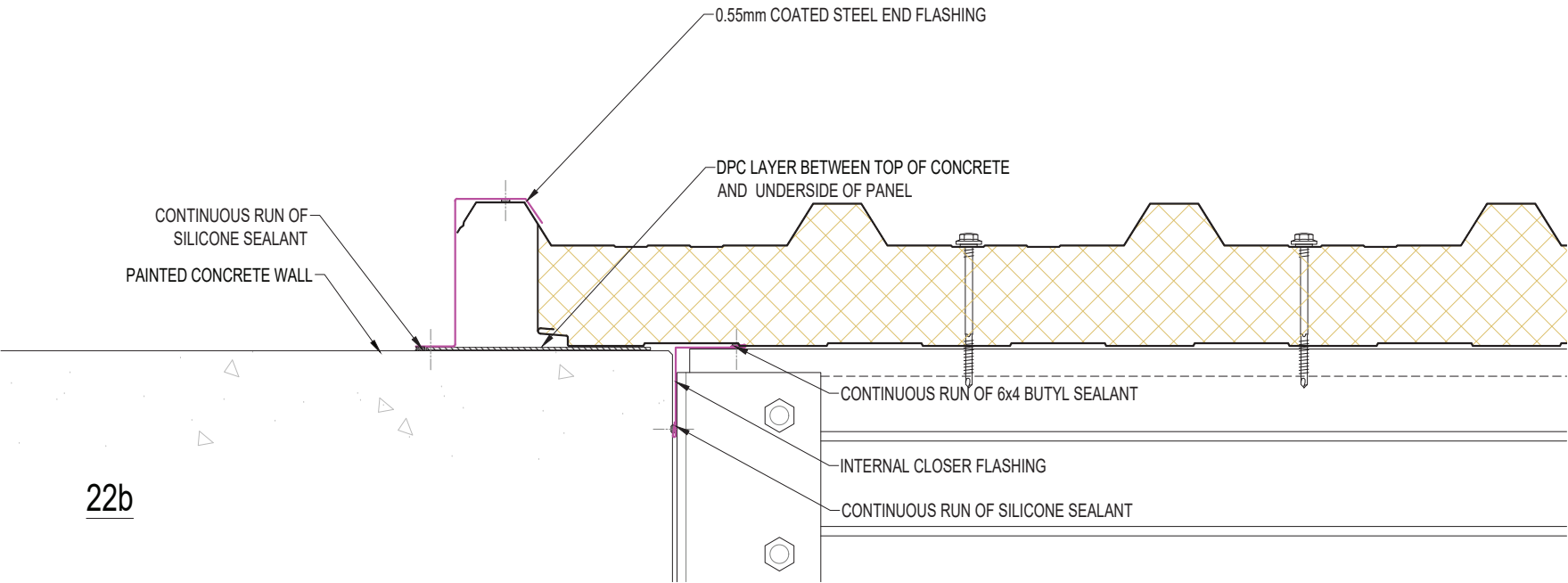
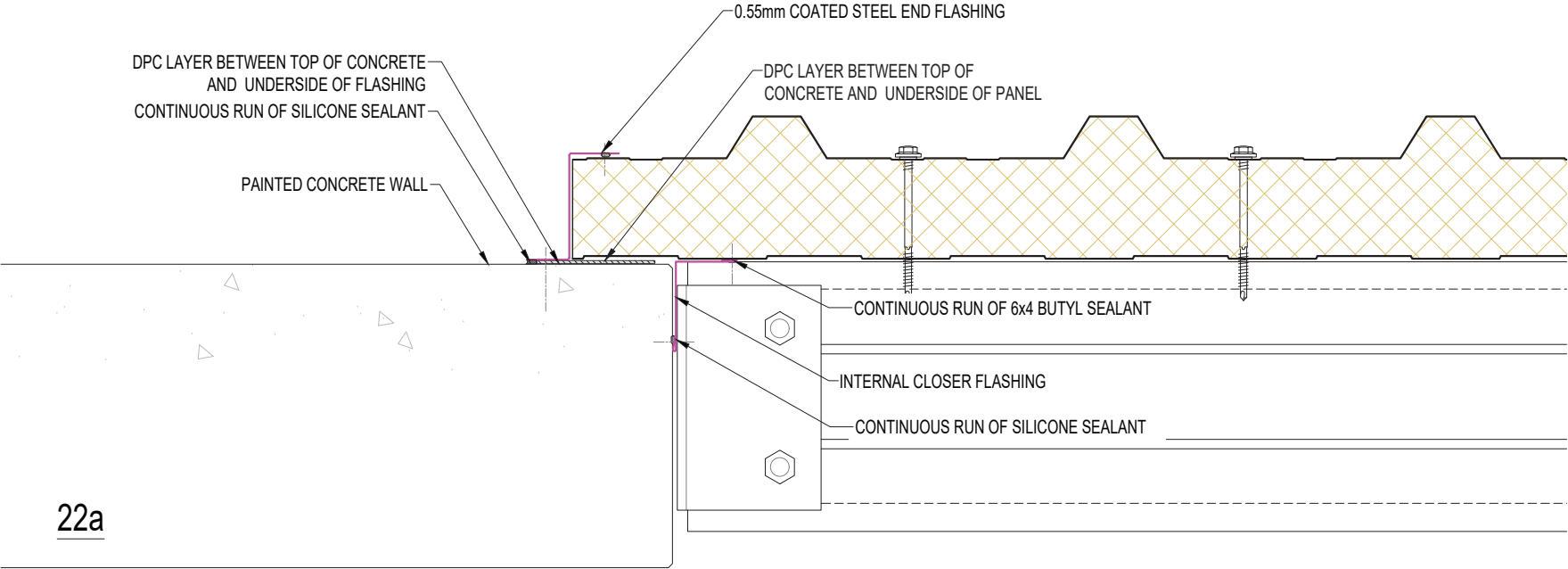
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ABUTMENT TO CONCRETE - OVERHANG



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION ABUTMENT TO CONCRETE - OVERHANG			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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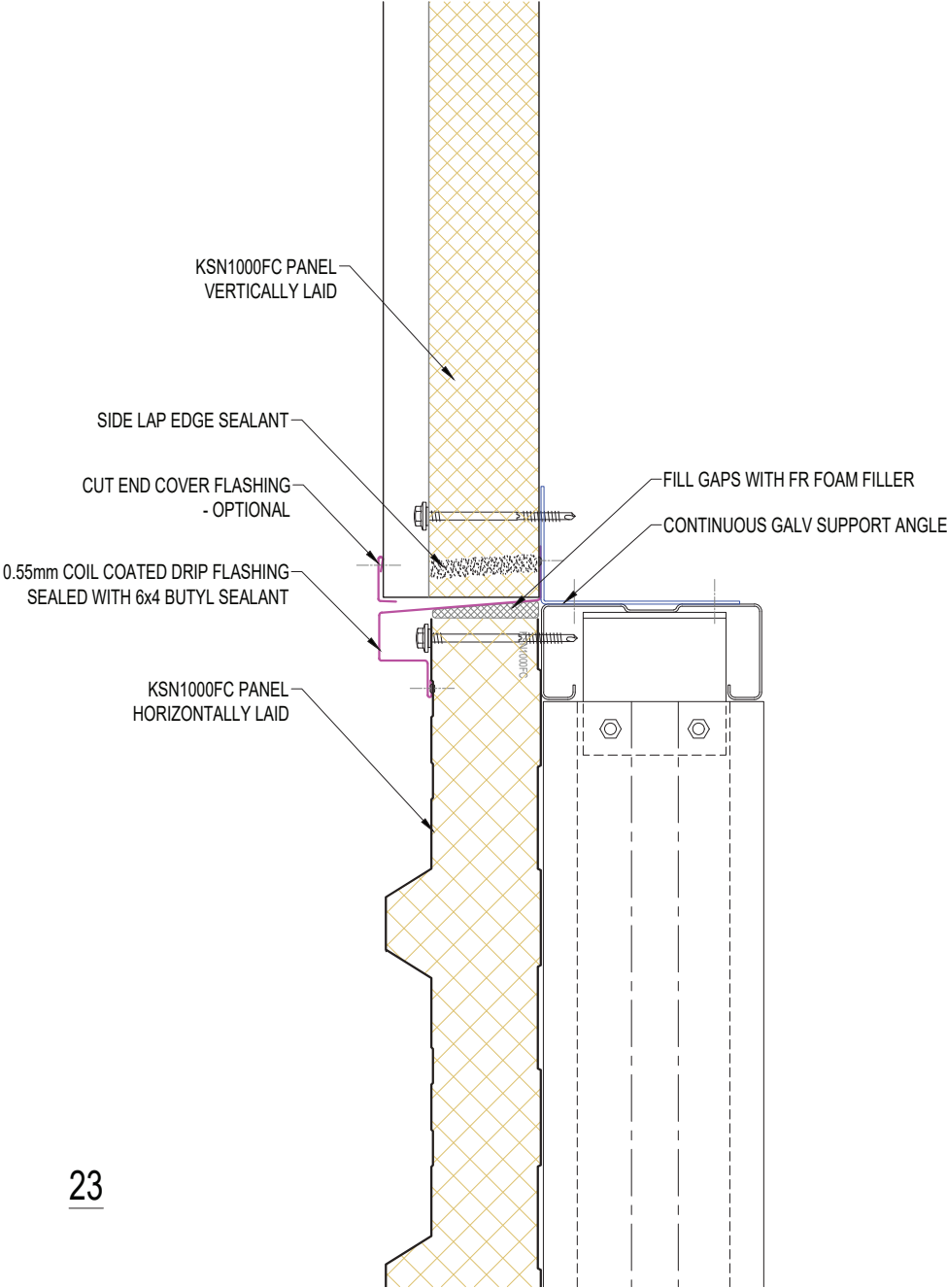
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VERTICAL TO HORIZONTAL BREAK DETAIL



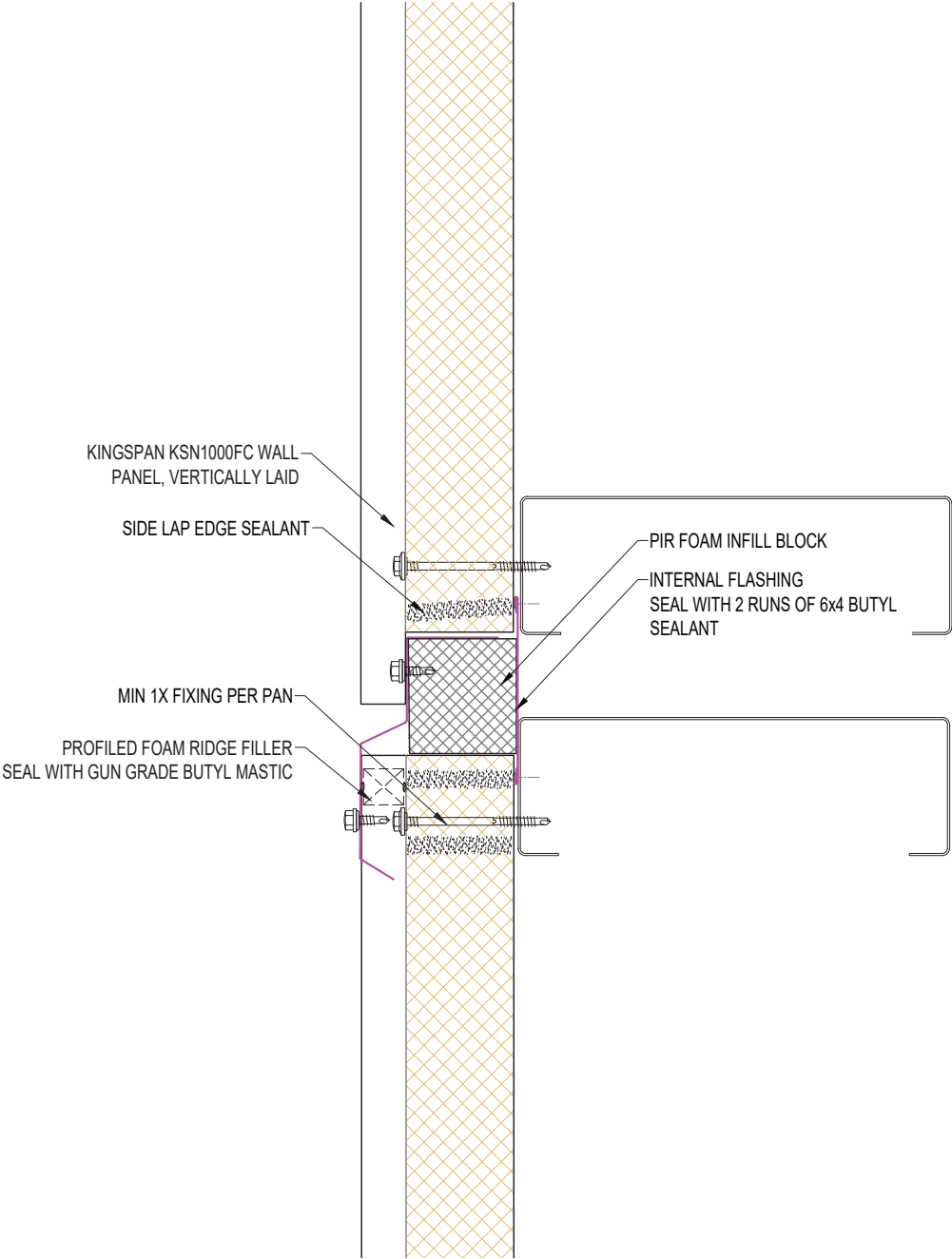
SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION VERTICAL TO HORIZONTAL BREAK DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_23	SCALE 1:5	SHEET - -	PAPER SIZE A4

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VERTICAL TO HORIZONTAL BREAK DETAIL



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION VERTICAL TO HORIZONTAL BREAK DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_24	SCALE 1:5	SHEET - -	PAPER SIZE A4

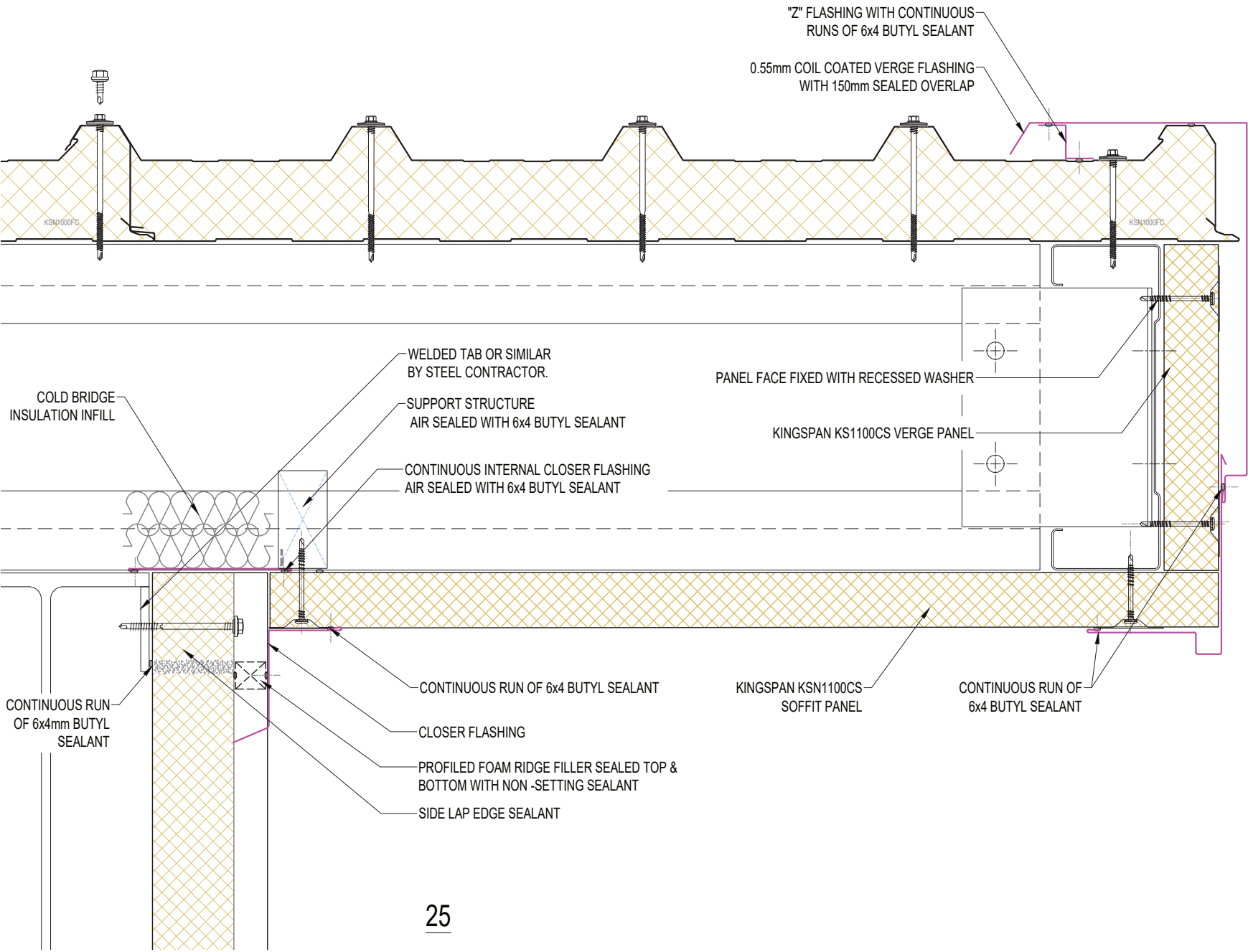
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VERGE OVERHANG



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION VERGE OVERHANG			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_25	SCALE 1:2	SHEET - -	PAPER SIZE A4

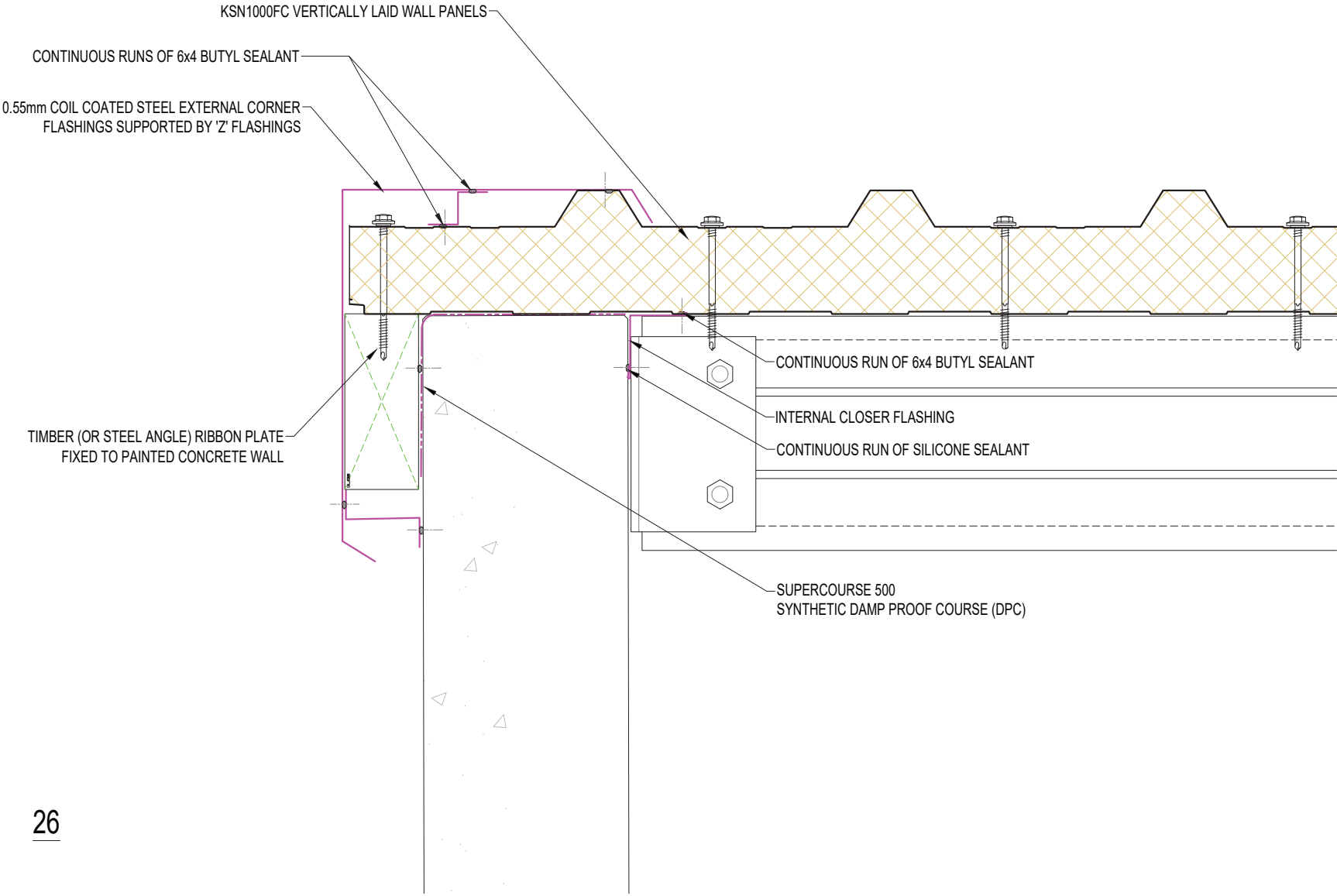
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ABUTMENT TO CONCRETE - EXT. CORNER 1



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION ABUTMENT TO CONCRETE - EXT. CORNER 1			
APPROVED BY JS	DATE 24.06.25	REVISION 2025	
DRG REF: FC_VS_26	SCALE 1:2	SHEET - -	PAPER SIZE A4

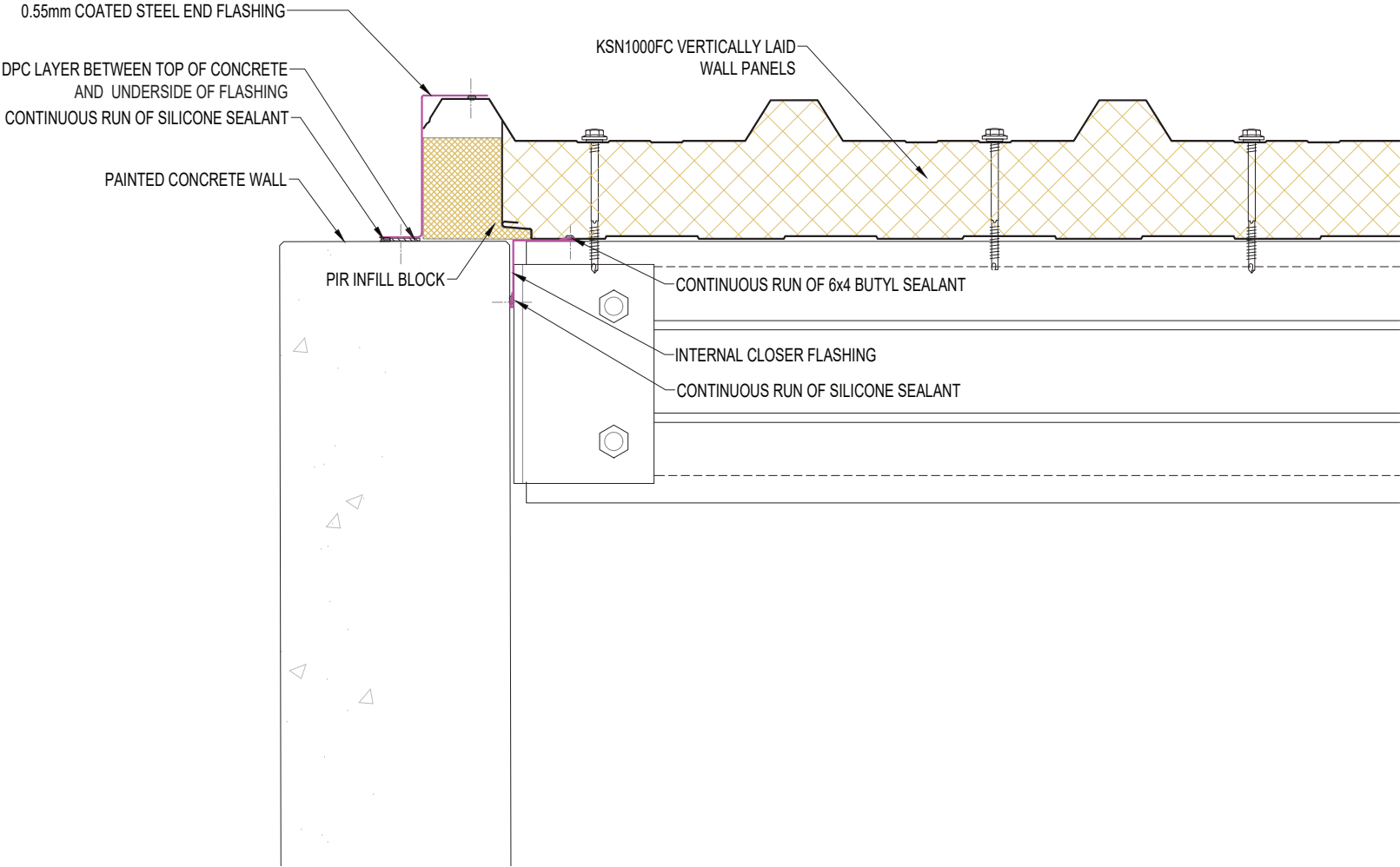
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ABUTMENT TO CONCRETE - EXT. CORNER 2



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION ABUTMENT TO CONCRETE - EXT. CORNER 2			
APPROVED BY JS	DATE 24.06.25	REVISION 2025	
DRG REF: FC_VS_27	SCALE 1:2	SHEET - -	PAPER SIZE A4

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ABUTMENT TO
CONCRETE - EXT.
CORNER 3

AND UNDERSIDE OF FLASHING
CONTINUOUS RUN OF SILICONE SEALANT

FILL GAPS WITH CANISTER FR FOAM FILLER

PAINTED CONCRETE WALL

CONTINUOUS RUN OF 6x4 BUTYL SEALANT

INTERNAL CLOSER FLASHING

CONTINUOUS RUN OF SILICONE SEALANT

28a

PAINTED CONCRETE WALL

PEF ROD SEALED WITH
SILICONE SEALANT

0.55mm COATED STEEL
END FLASHING

FILL GAPS WITH CANISTER FR FOAM FILLER

CONTINUOUS RUN OF 6x4 BUTYL SEALANT

INTERNAL CLOSER FLASHING

CONTINUOUS RUN OF SILICONE SEALANT

28b

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION ABUTMENT TO CONCRETE - EXT. CORNER 3			
APPROVED BY JS	DATE 24.06.25	REVISION 2025	
DRG REF: FC_VS_28	SCALE 1:2	SHEET - -	PAPER SIZE A4

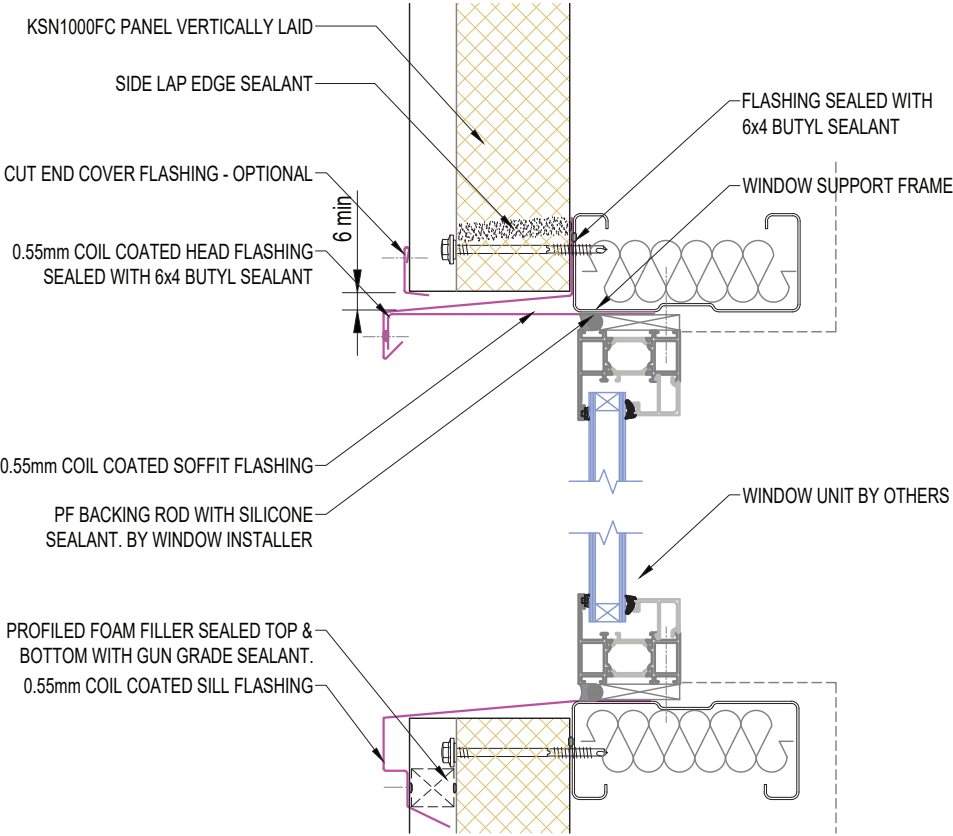
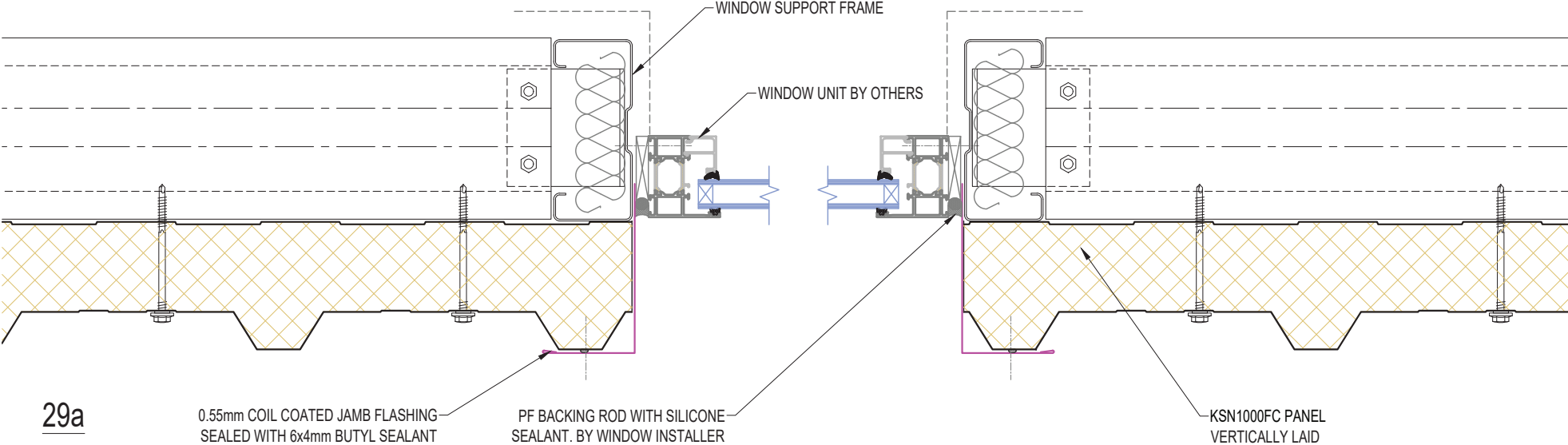
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WINDOW HEAD DETAIL



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION WINDOW HEAD DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_29	SCALE 1:5	SHEET - -	PAPER SIZE A4

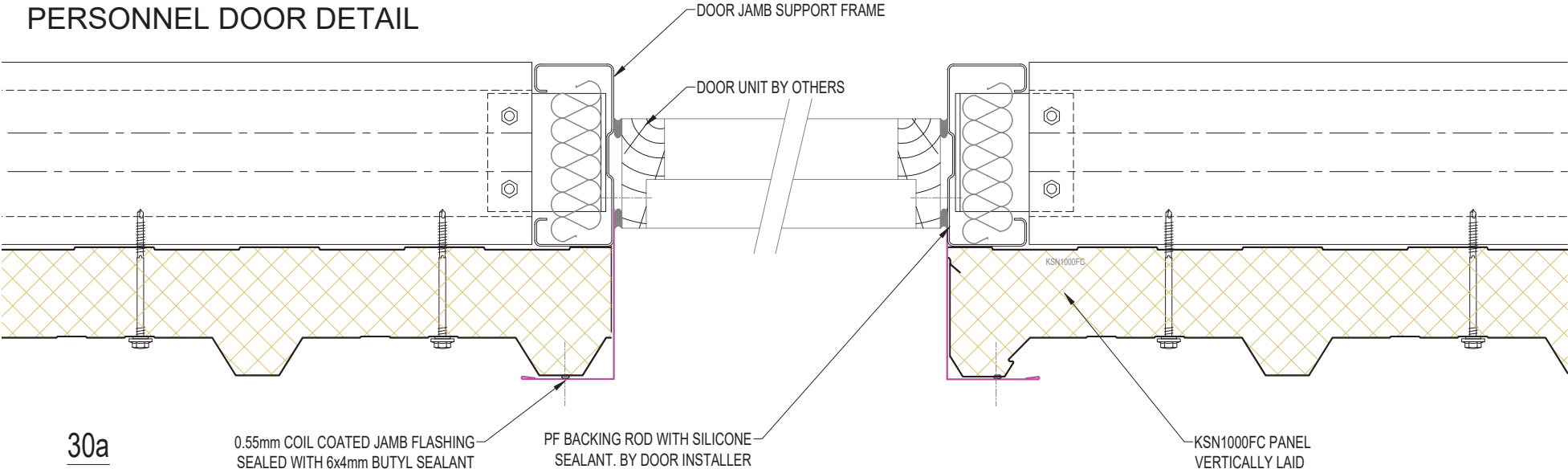
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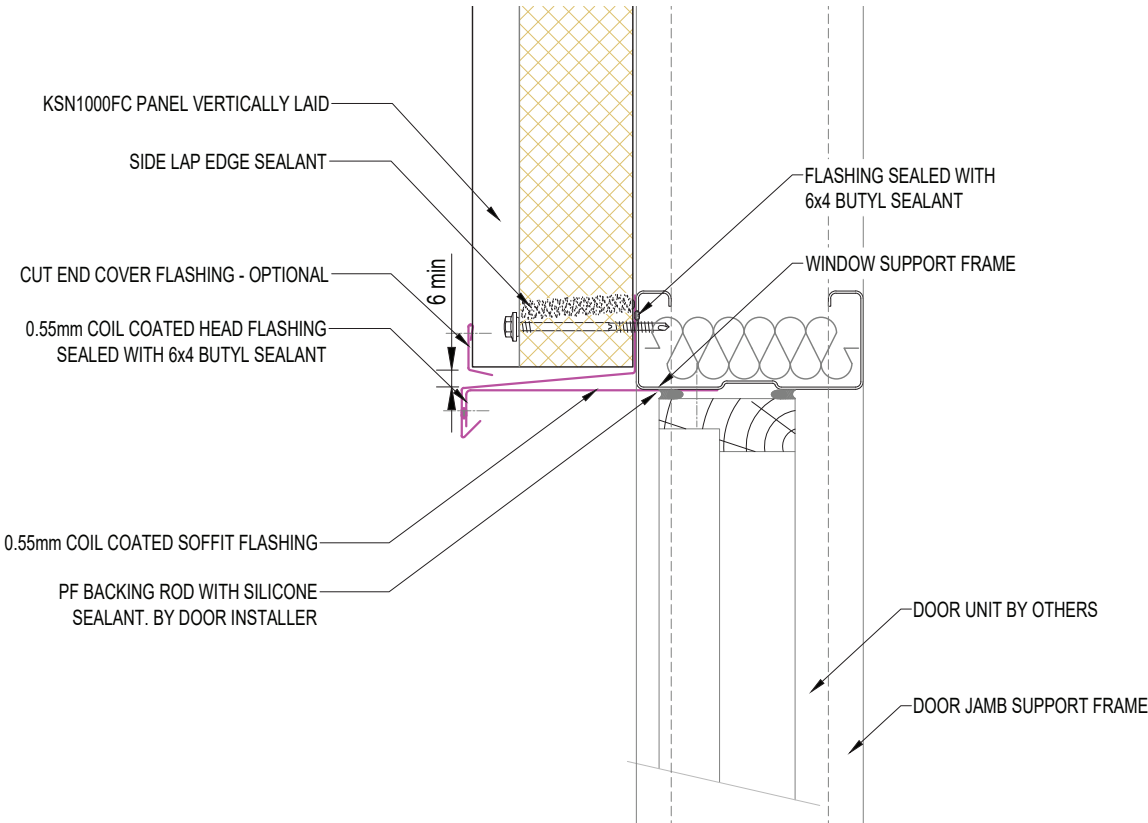


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PERSONNEL DOOR DETAIL



30a



30b

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PERSONNEL DOOR DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_30	SCALE 1:5	SHEET - -	PAPER SIZE A4

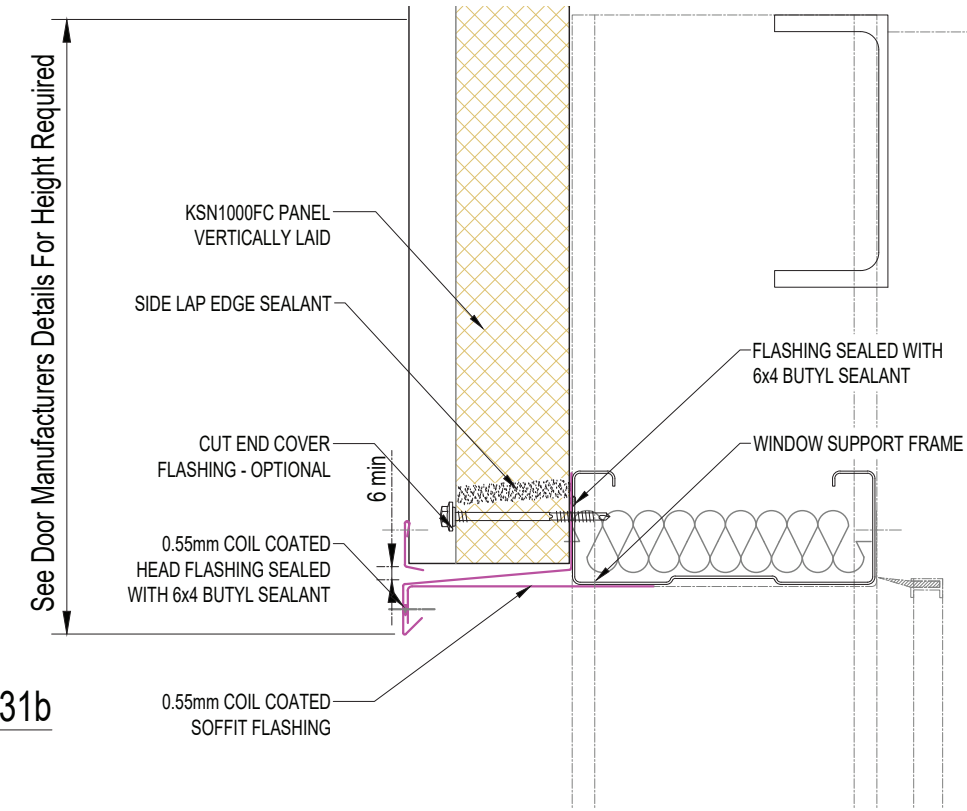
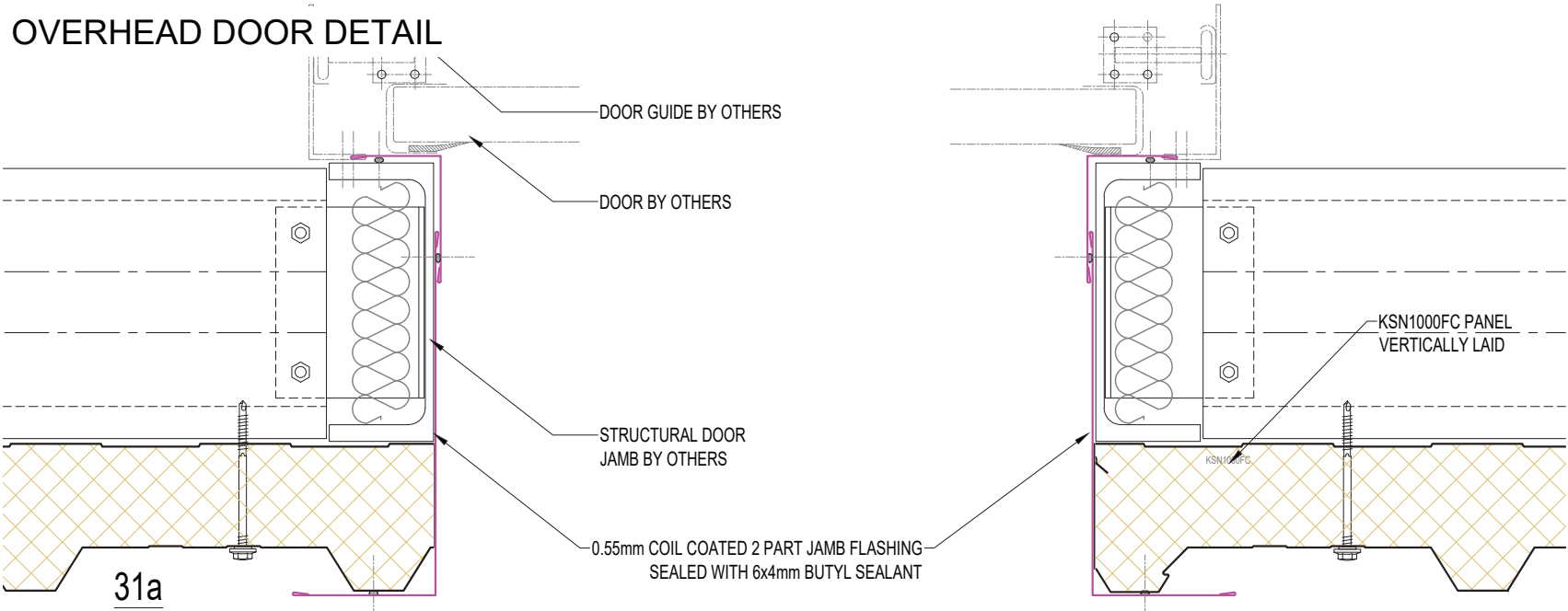
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OVERHEAD DOOR DETAIL



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION OVERHEAD DOOR DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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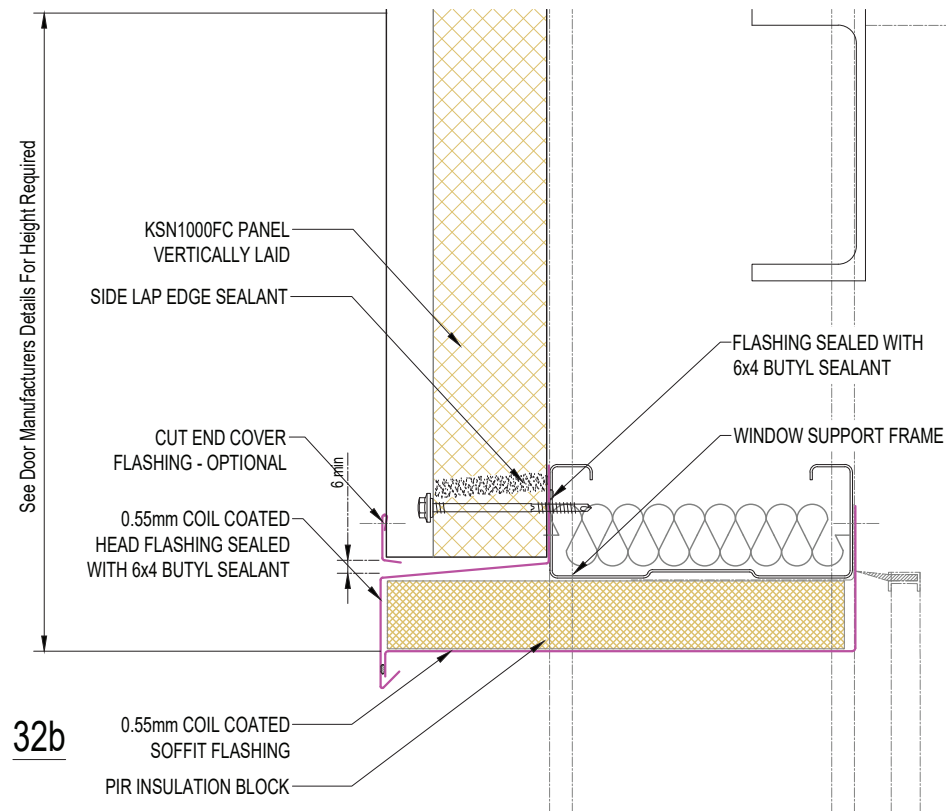
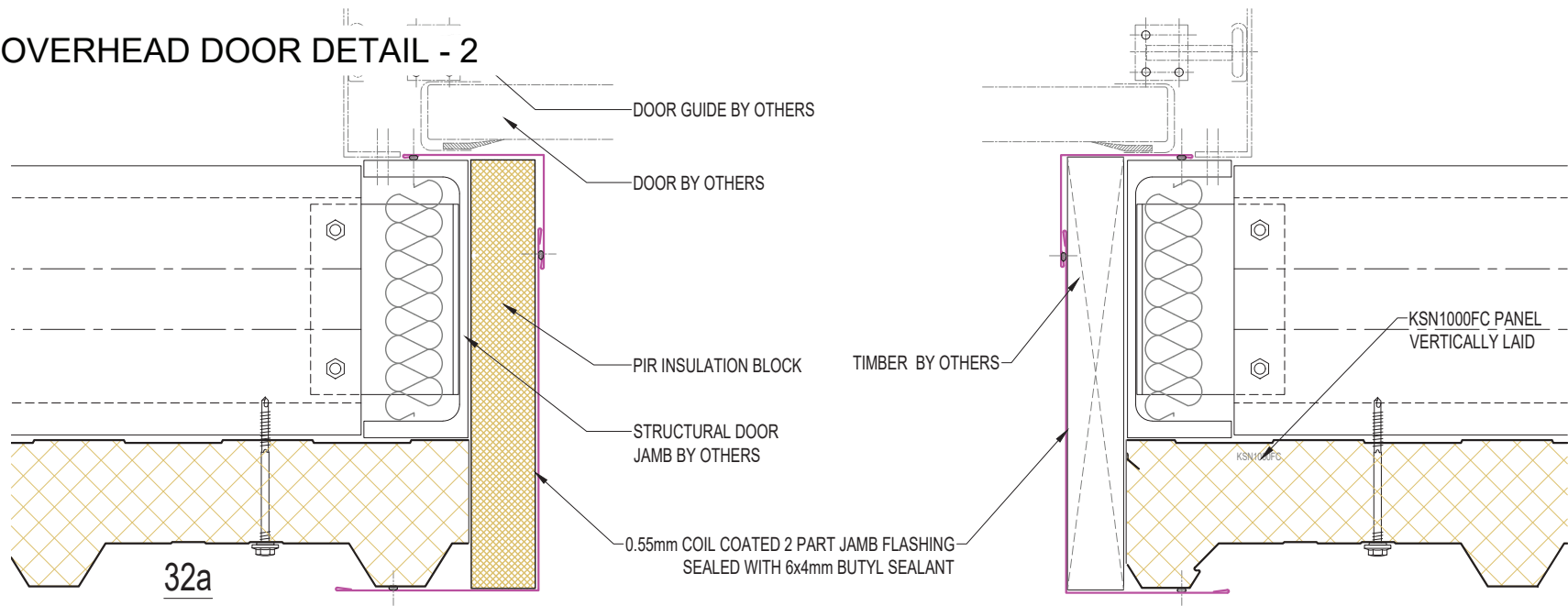
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OVERHEAD DOOR DETAIL - 2



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION OVERHEAD DOOR DETAIL - 2			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_32	SCALE 1:5	SHEET - -	PAPER SIZE A4

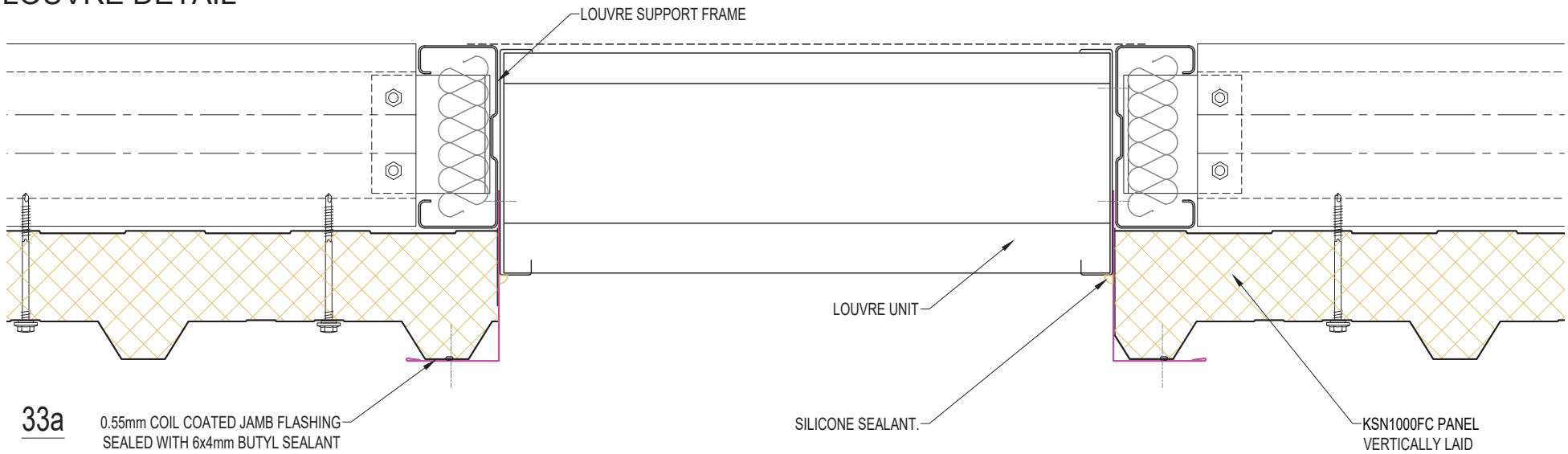
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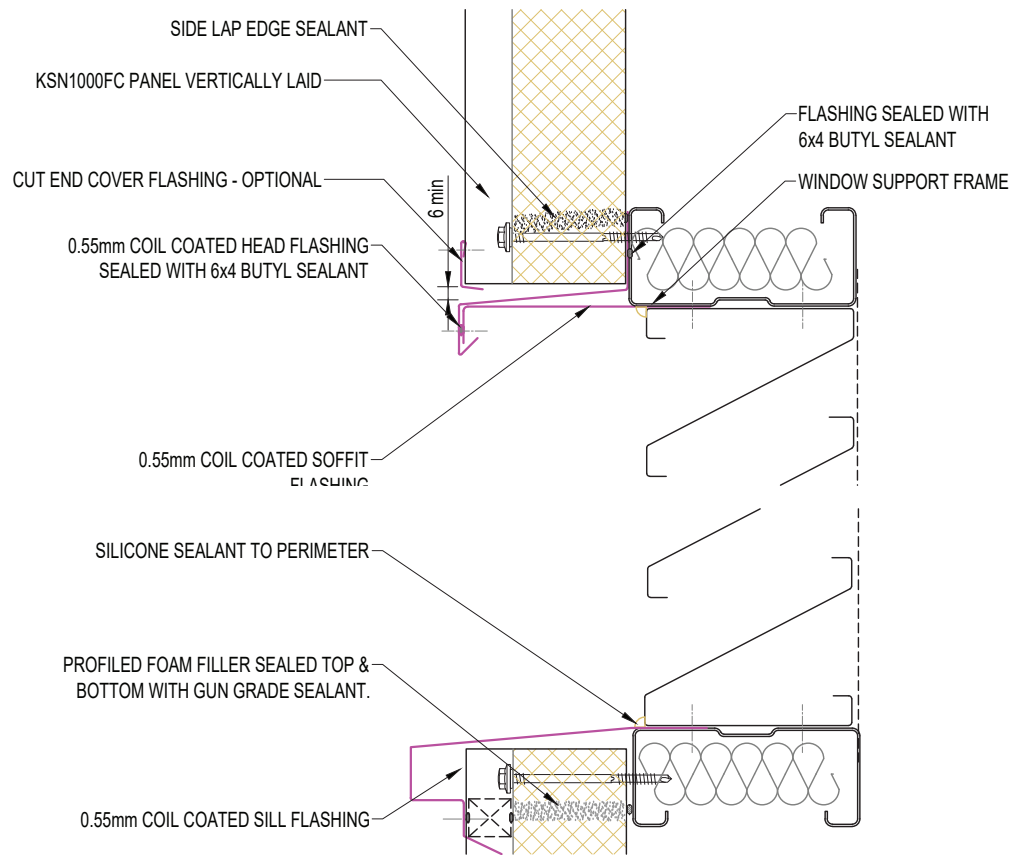


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LOUVRE DETAIL



33a




33b

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION LOUVRE DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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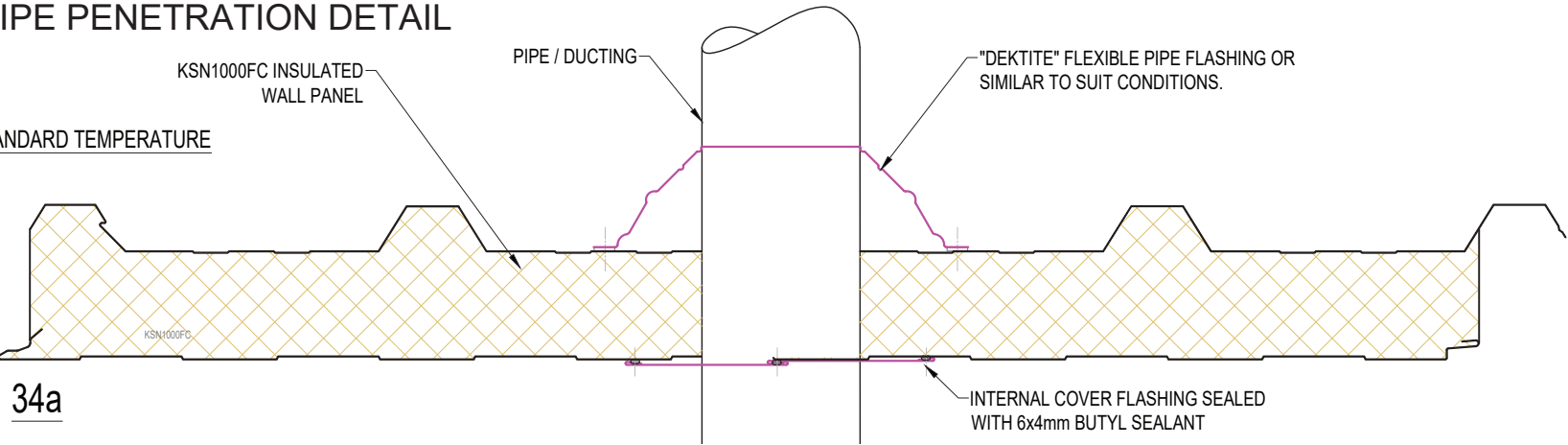
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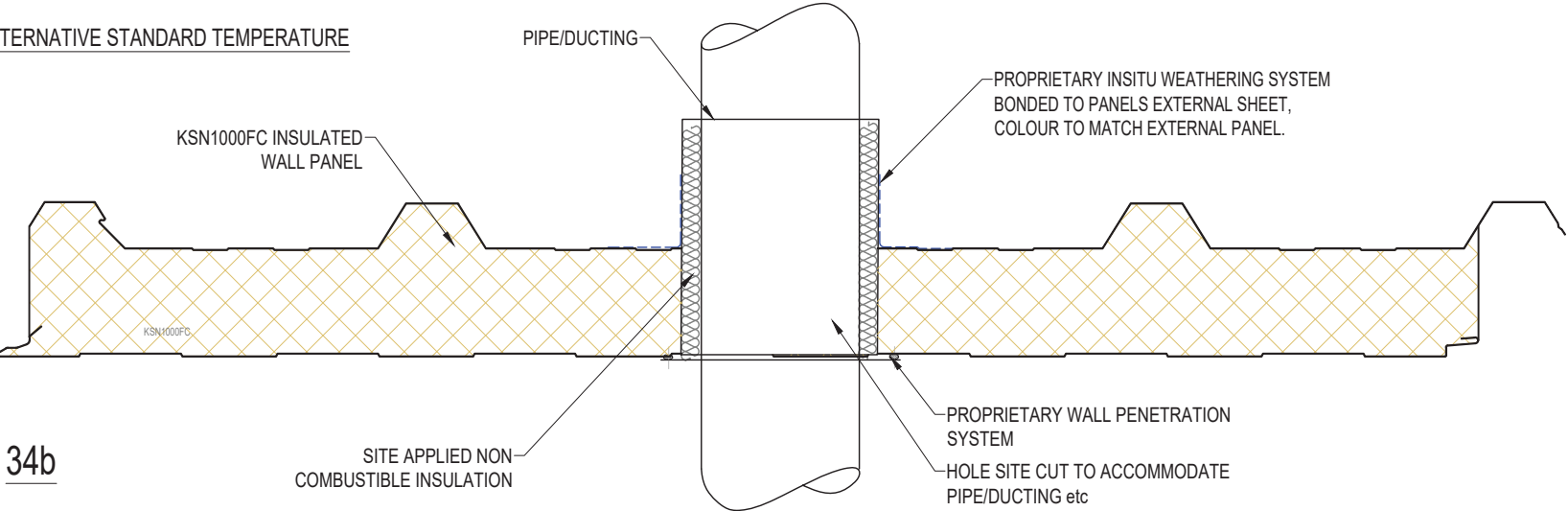
PIPE PENETRATION DETAIL

STANDARD TEMPERATURE



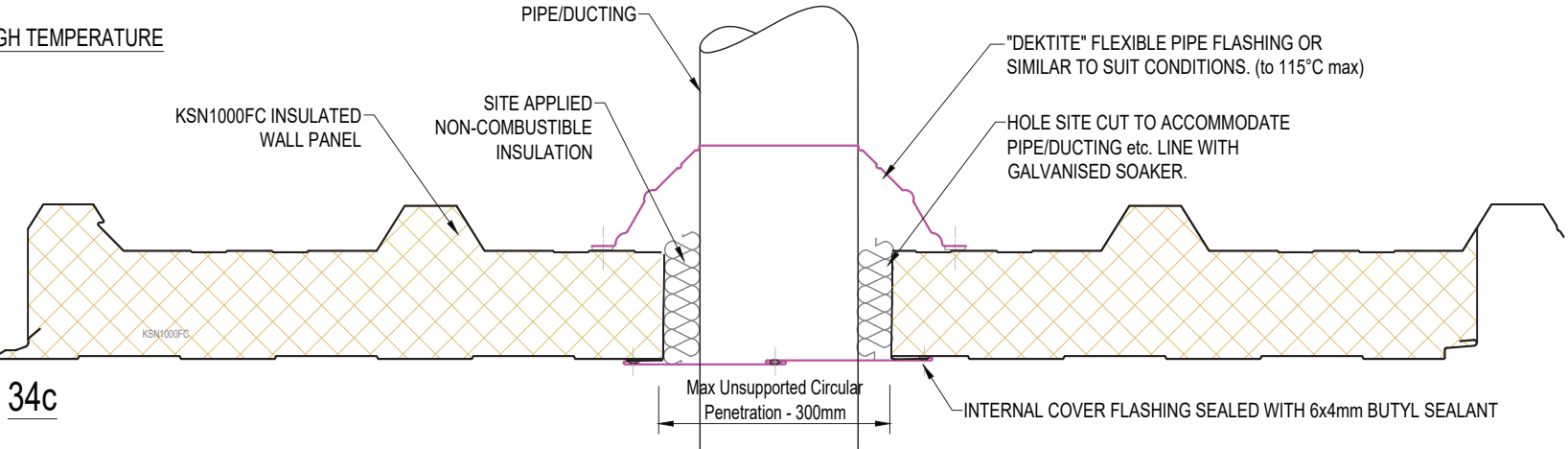
34a

ALTERNATIVE STANDARD TEMPERATURE



34b

HIGH TEMPERATURE



34c

NOTE: MAXIMUM CIRCULAR HOLE SIZE TO BE 300mm. PENETRATIONS GREATER WILL REQUIRE ADDITIONAL SUPPORTING STEEL.

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PIPE PENETRATION DETAIL			
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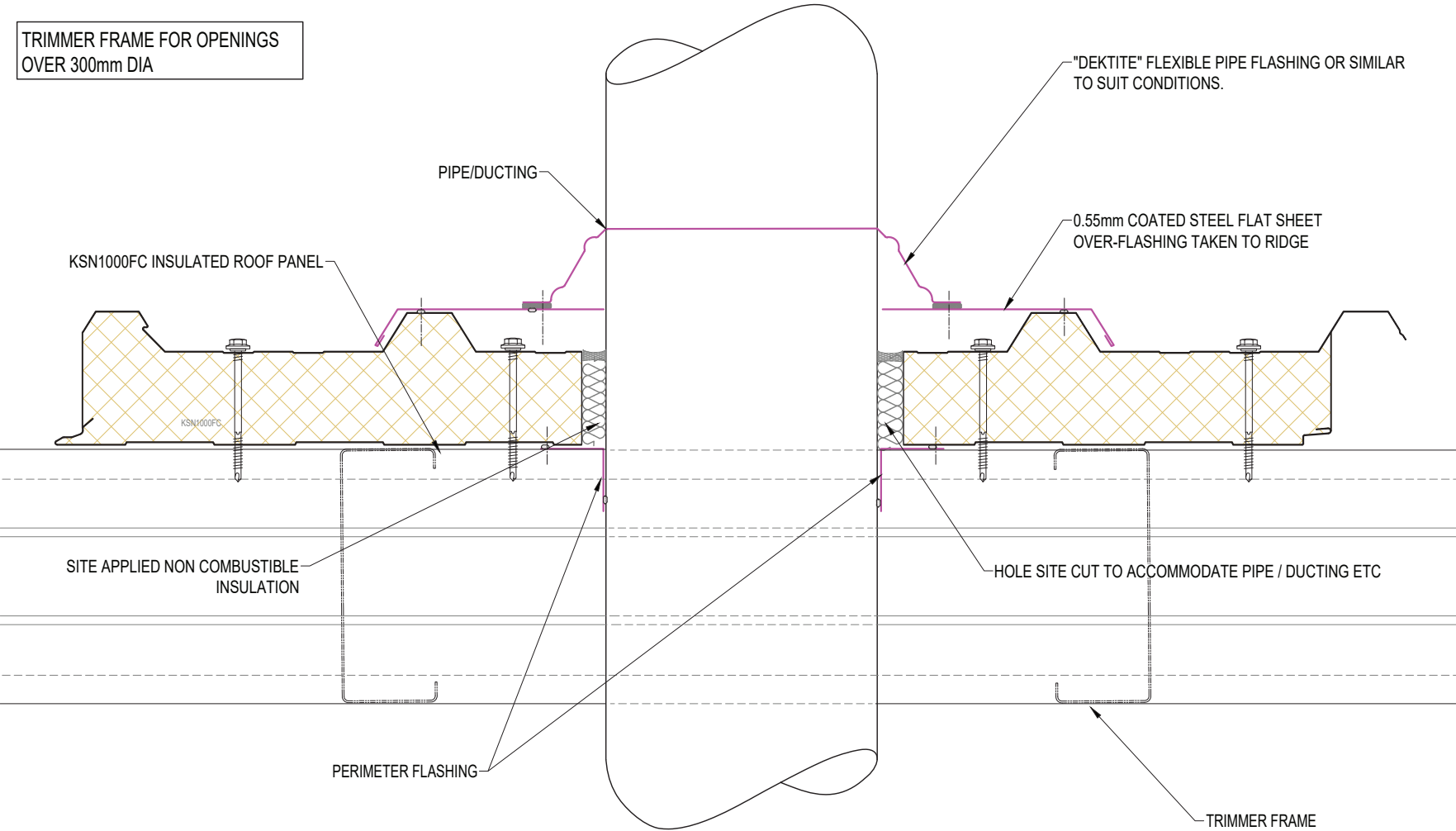
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PIPE PENETRATION SUPPORT DETAIL

NOTE: MAXIMUM CIRCULAR HOLE SIZE TO BE 300mm.
PENETRATIONS GREATER WILL REQUIRE ADDITIONAL
SUPPORTING STEEL.



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PIPE PENETRATION SUPPORT DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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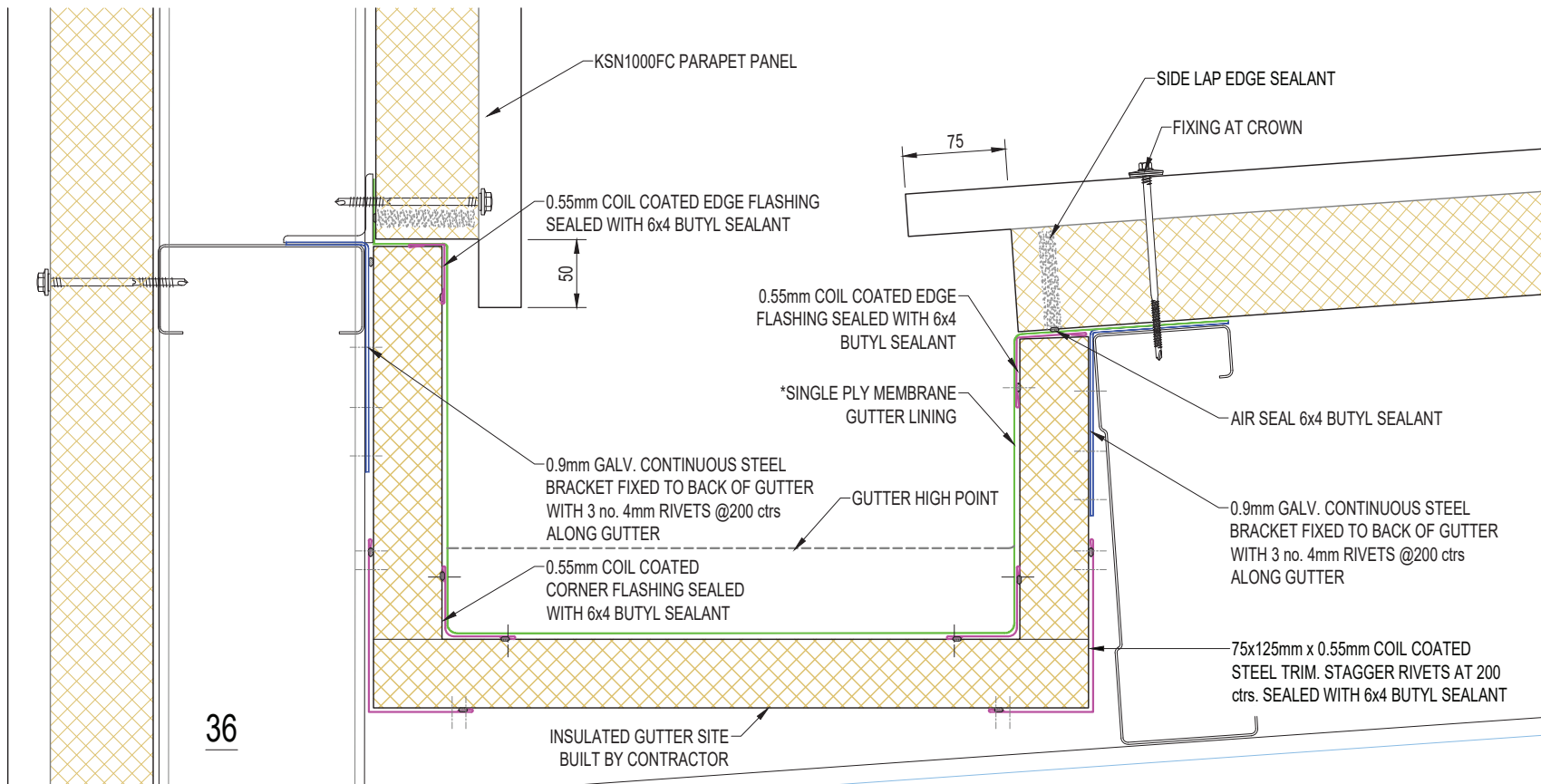
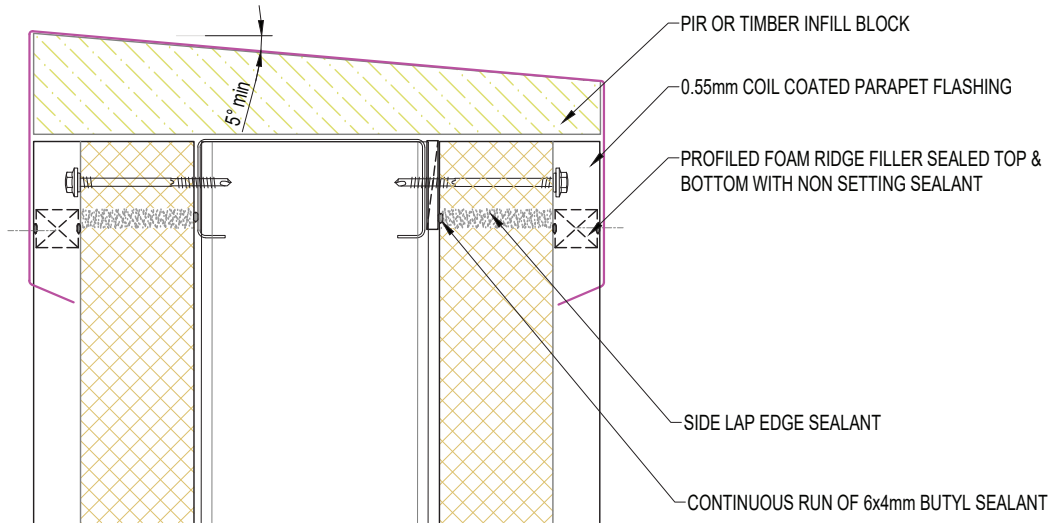


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KS1100 CS GUTTER

KSN1000FC ROOF & VERTICAL WALL

* REFER TO MEMBRANE SUPPLIER FOR SINGLE PLY MEMBRANE GUTTER LINING DETAILS (NOT SUITABLE FOR TORCH-ON MEMBRANE PRODUCTS)



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION KS1100 CS GUTTER KSN1000FC ROOF & VERTICAL WALL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
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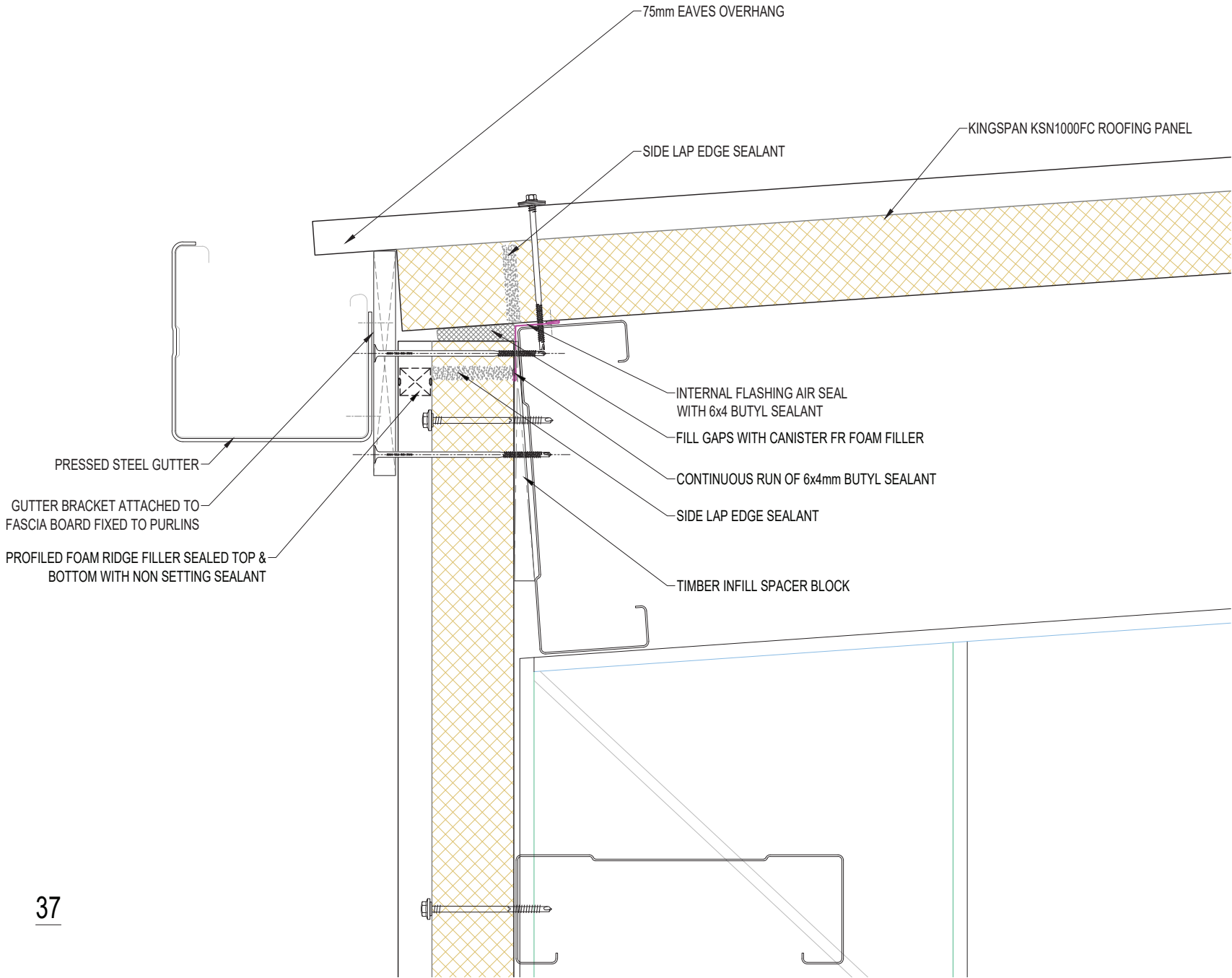
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EAVES GUTTER DETAIL



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_37	SCALE 1:5	SHEET - -	PAPER SIZE A4

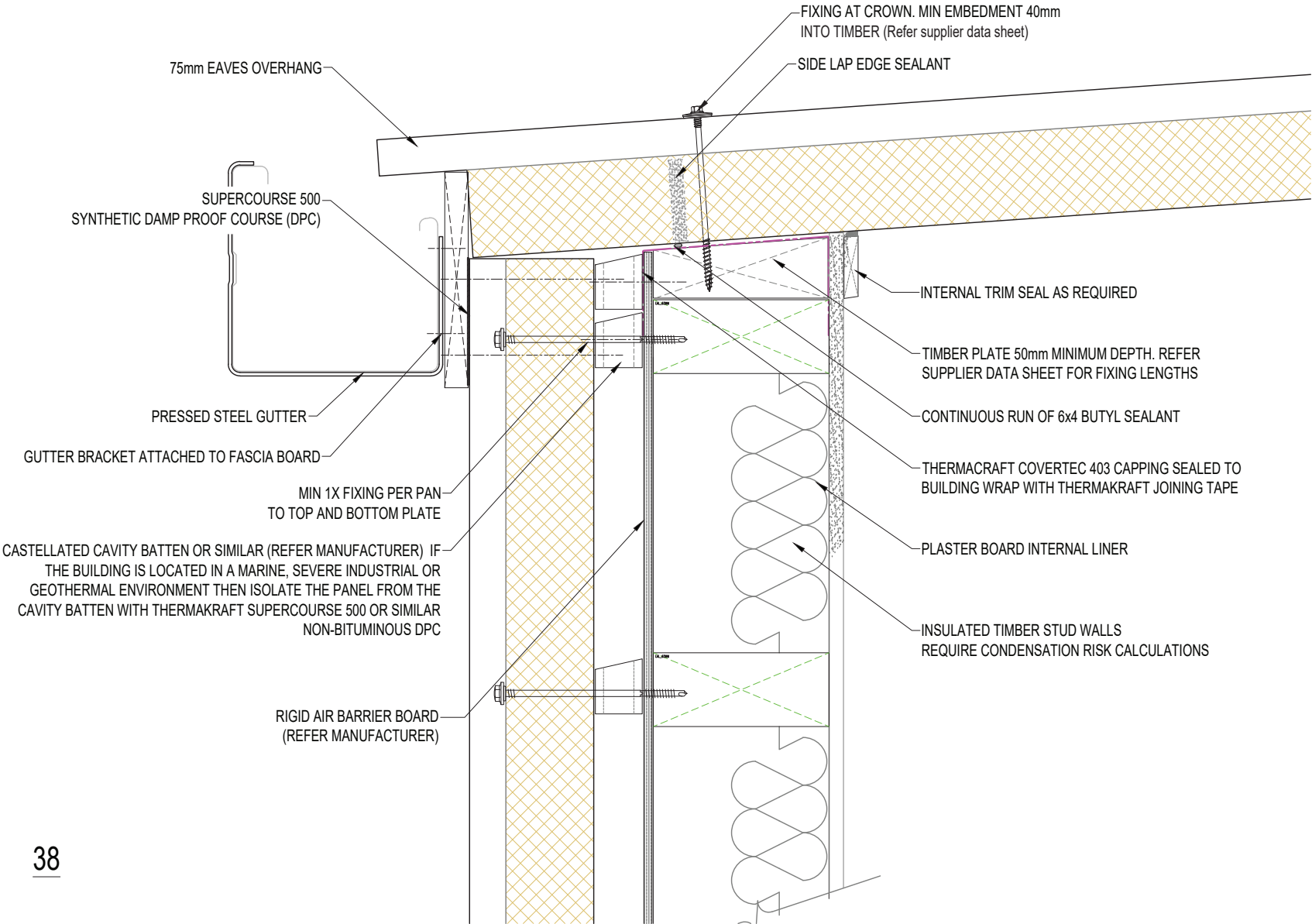
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EAVES GUTTER DETAIL - RAB BOARD



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL - RAB BOARD			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_38	SCALE 1:5	SHEET - -	PAPER SIZE A4

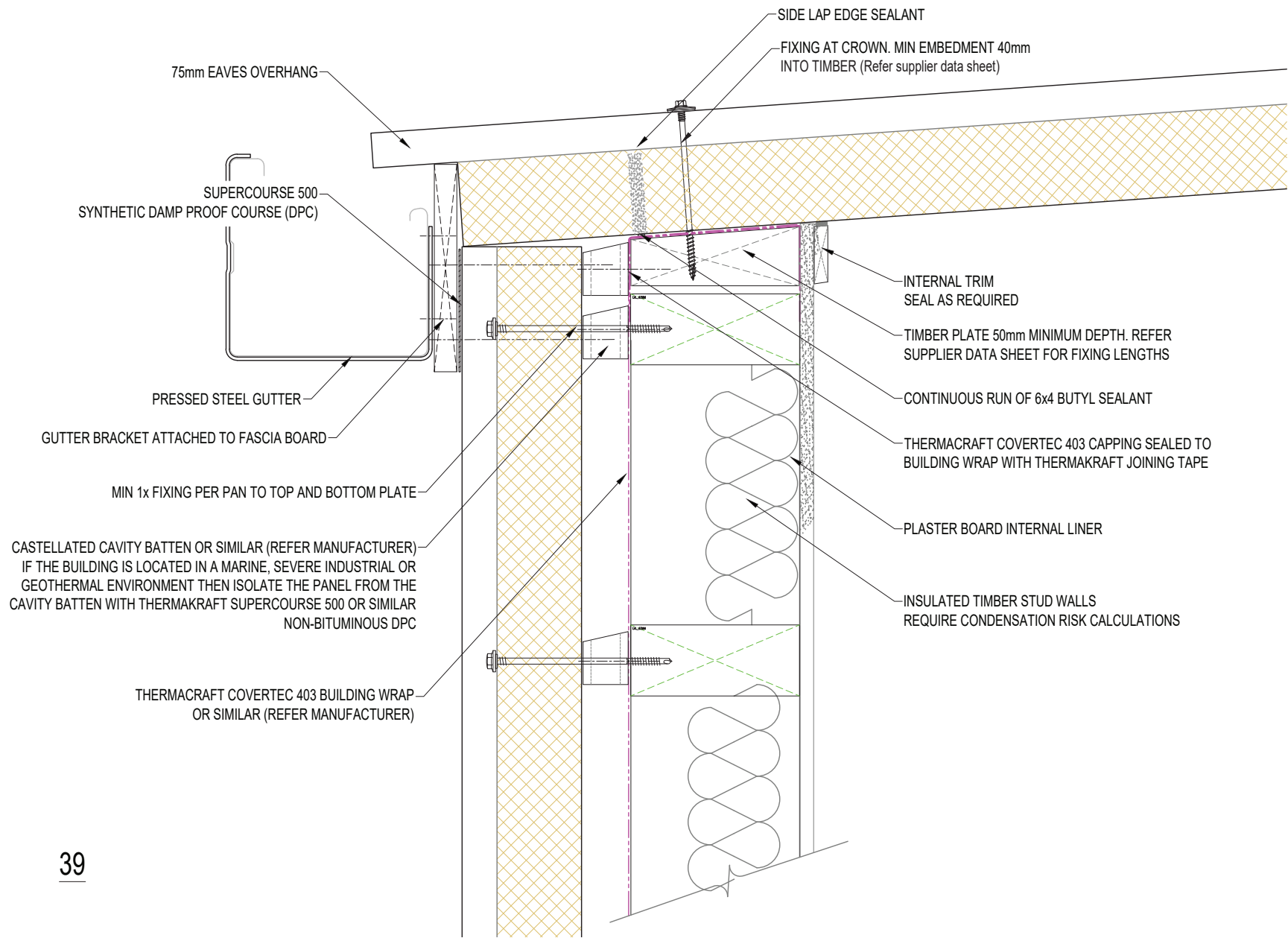
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EAVES GUTTER DETAIL - BUILDING WRAP



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL - BUILDING WRAP			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_39	SCALE 1:5	SHEET - -	PAPER SIZE A4

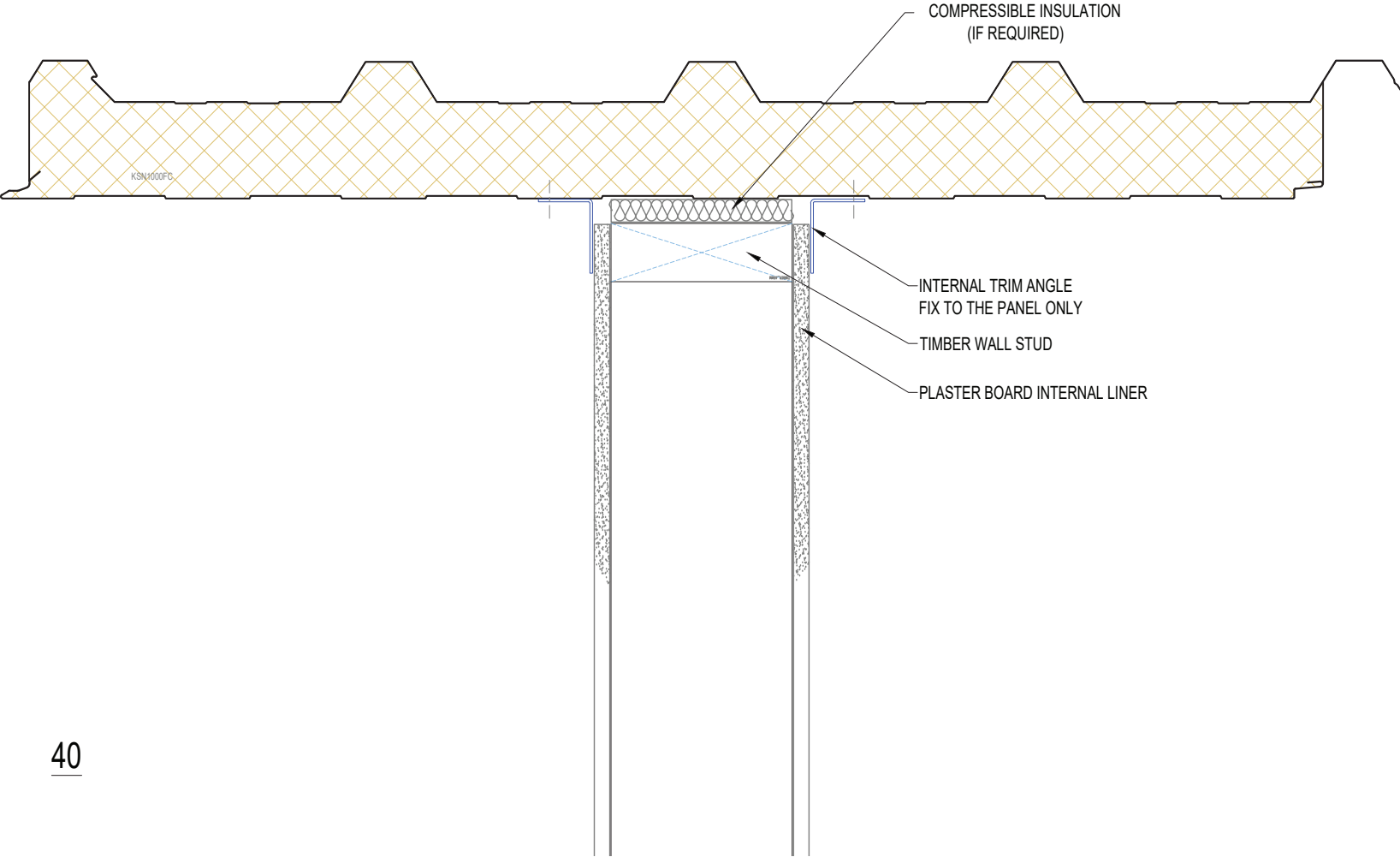
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PLASTER-BOARD PARTITION DETAIL



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION PLASTER-BOARD PARTITION DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_40	SCALE 1:5	SHEET - -	PAPER SIZE A4

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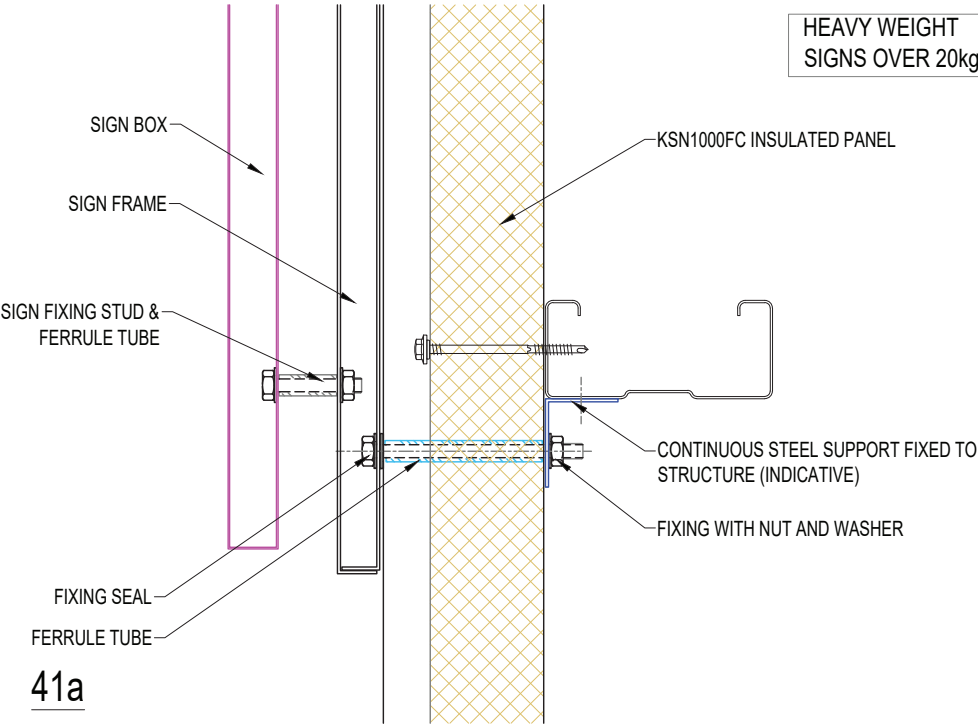
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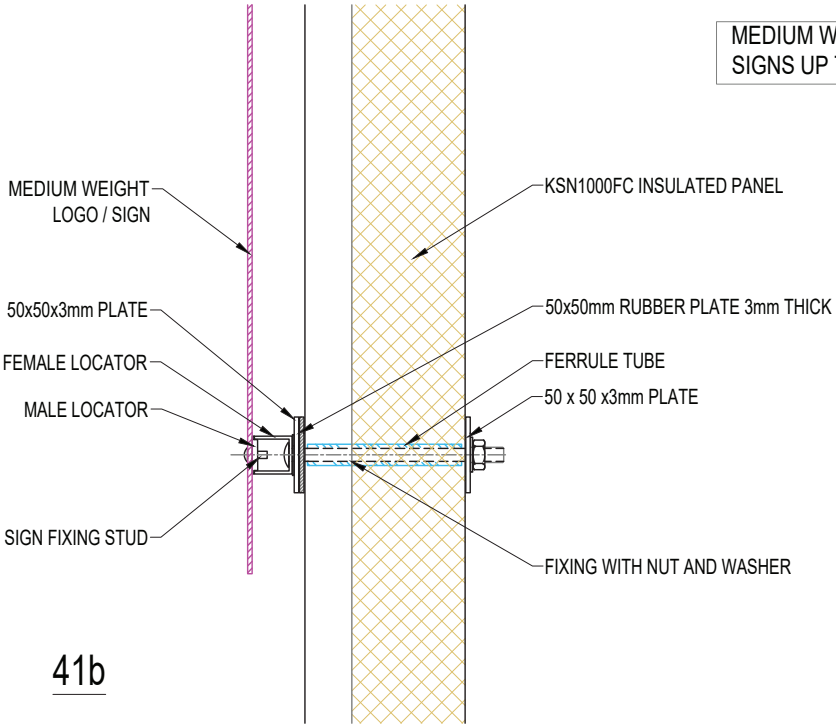
SIGNAGE SUPPORT DETAILS VERT. SECTION

HEAVY WEIGHT
SIGNS OVER 20kg



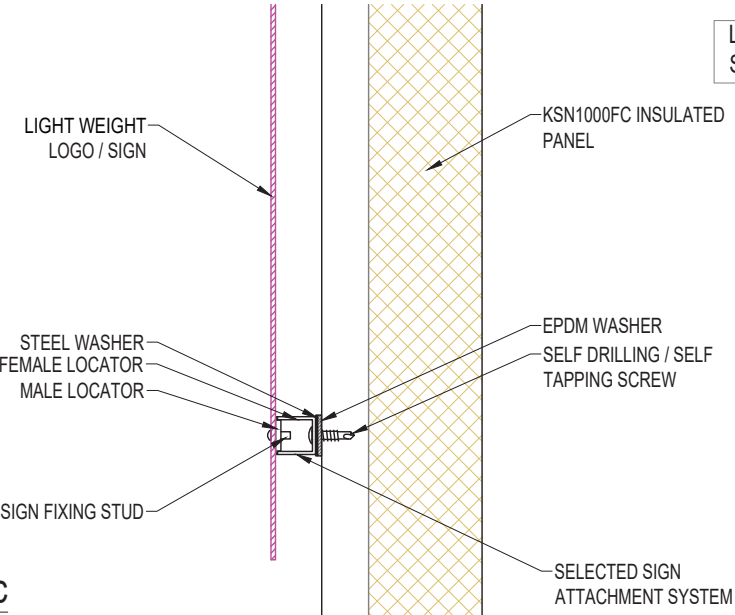
41a

MEDIUM WEIGHT
SIGNS UP TO 20kg



41b

LIGHT WEIGHT
SIGNS UP TO 5kg



41c

SIGN WEIGHTS ARE INDICATIVE ONLY.

FOR LIGHT WEIGHT SIGNS; THE FORCE APPLIED TO THE CONNECTION SHOULD NOT EXCEED 0.3kN.

FOR MEDIUM WEIGHT SIGNS; THE FORCE APPLIED SHOULD NOT EXCEED 2.8kN AND THE PANEL SPAN NEEDS TO BE CHECKED BASED IN THE NEW POINT LOAD.

NOTE: IT IS THE INSTALLER'S RESPONSIBILITY TO ENSURE THAT SIGN MATERIALS AND FIXINGS ARE COMPATIBLE WITH KINGSPAN PANELS

SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION SIGNAGE SUPPORT DETAILS VERT. SECTION			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_41	SCALE 1:5	SHEET - -	PAPER SIZE A4

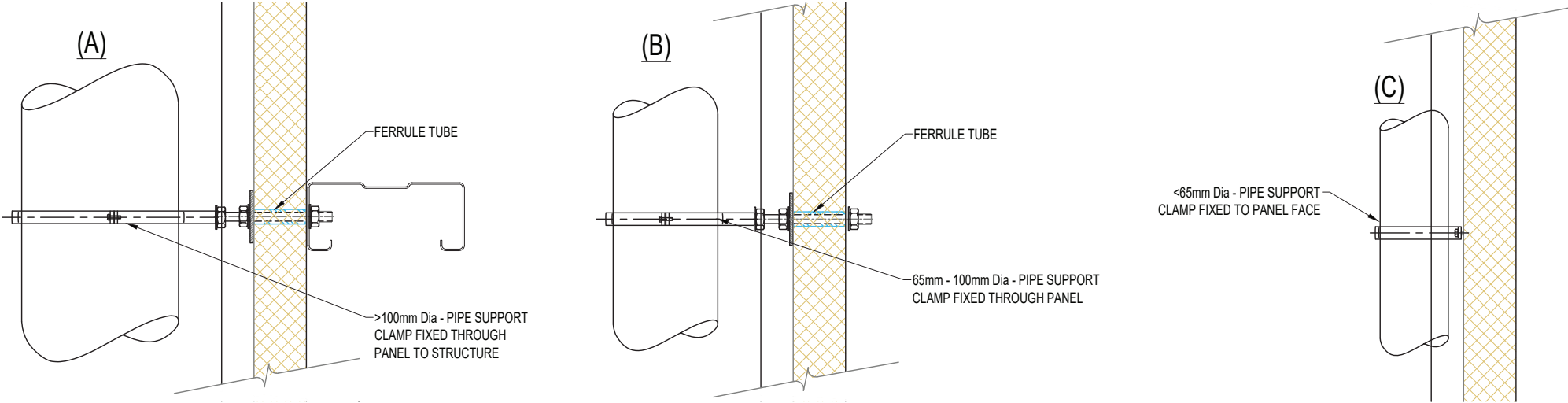
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DOWN-PIPE SUPPORT DETAIL

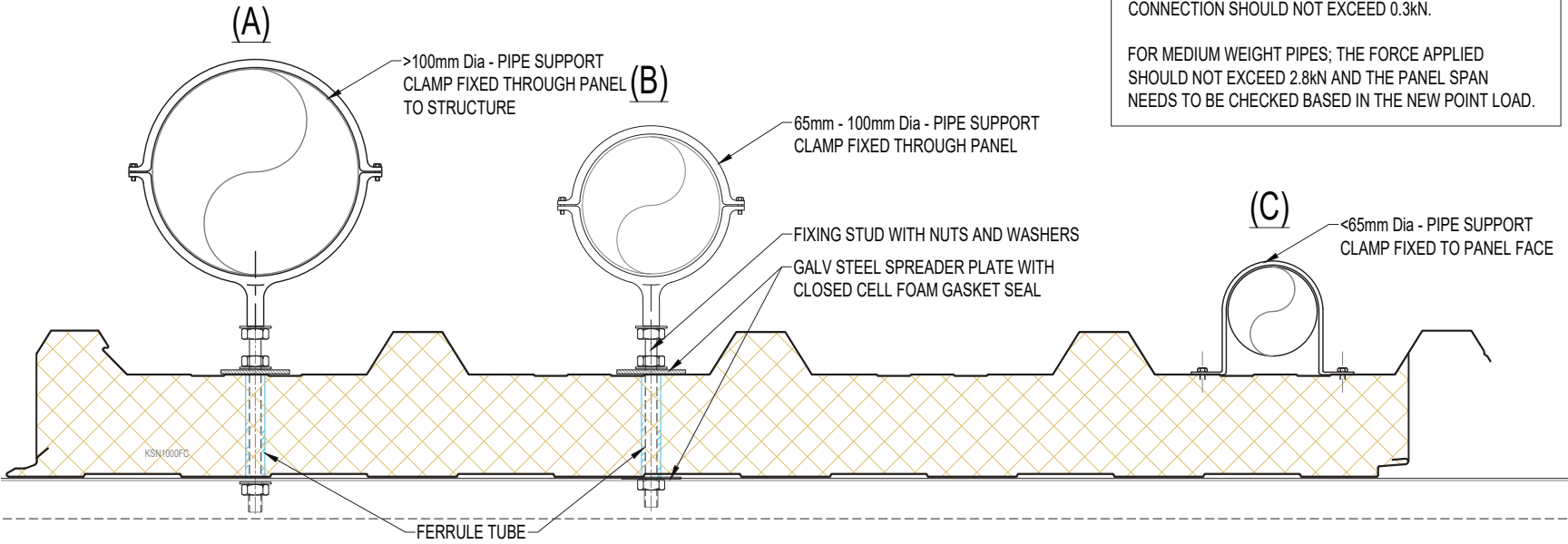


PIPE WEIGHTS ARE INDICATIVE ONLY.

FOR LIGHT PIPES; THE FORCE APPLIED TO THE CONNECTION SHOULD NOT EXCEED 0.3kN.

FOR MEDIUM WEIGHT PIPES; THE FORCE APPLIED SHOULD NOT EXCEED 2.8kN AND THE PANEL SPAN NEEDS TO BE CHECKED BASED IN THE NEW POINT LOAD.

FIX DOWN-PIPES & OTHER ANCILLARY ITEMS THROUGH PANEL WITH A SUPPORT FERRULE TO PREVENT COMPRESSION OF THE PANEL CORE (EXAMPLE ONLY. DETAIL DESIGN BY OTHERS)



SYSTEM KSN1000FC FIVE CROWN VERTICAL WALL PANEL			
DESCRIPTION DOWN-PIPE SUPPORT DETAIL			
APPROVED BY JS	DATE 04.06.25	REVISION 2025	
DRG REF: FC_VS_42	SCALE 1:5	SHEET - -	PAPER SIZE A4

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