FIVE CROWN HORIZONTAL WALL PANEL DRAWING LIST

- KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL -				
DRG_REF	DETAIL NAME	DATE	REVISION	APPROVED
FC_HS_01	FIVE CROWN HORIZONTAL WALL PANEL DRAWING LIST	04.06.15	2025	JS
FC_HS_02	PANEL DIMENSIONS	04.06.15	2025	JS
FC_HS_03	PRIMARY FIXING LOCATIONS	04.06.15	2025	JS
FC_HS_04	BASE DETAILS_1	04.06.15	2025	JS
FC_HS_05	BASE DETAILS_2	04.06.15	2025	JS
FC_HS_06	BASE DETAILS_3	04.06.15	2025	JS
FC_HS_07	BASE DETAILS_4	04.06.15	2025	JS
FC_HS_08	BASE DETAILS_5	04.06.15	2025	JS
FC_HS_09	BASE DETAILS ON PRECAST WALL_1	04.06.15	2025	JS
FC_HS_10	BASE DETAILS ON PRECAST WALL_2	04.06.15	2025	JS
FC_HS_11	BASE DETAILS ON PRECAST WALL 3	04.06.15	2025	JS
FC_HS_12	EXTERNAL CORNER - STEEL FRAME	04.06.15	2025	JS
FC_HS_13	EXTERNAL CORNER - TIMBER FRAME	04.06.15	2025	JS
FC_HS_14	INTERNAL CORNER DETAIL STEEL FRAME	04.06.15	2025	JS
FC_HS_15	INTERNAL CORNER ABUTMENT TO CONCRETE	04.06.15	2025	JS
FC_HS_16	FLUSH ABUTMENT TO CONCRETE	04.06.15	2025	JS
FC_HS_17	STEPPED ABUTMENTS TO CONCRETE	04.06.15	2025	JS
FC_HS_18	TOPHAT JOIN DETAIL_1	04.06.15	2025	JS
FC_HS_19	TOPHAT JOIN DETAIL_2	04.06.15	2025	JS
FC_HS_20	INTERNAL PARTITION WALL ABUTS PANEL	04.06.15	2025	JS
FC_HS_21	RW HORIZONTAL TO VERTICAL BREAK DETAIL	04.06.15	2025	JS
FC_HS_22	HORIZONTAL WINDOW DETAIL	04.06.15	2025	JS
FC_HS_23	PERSONNEL DOOR DETAIL	04.06.15	2025	JS
FC_HS_24	OVERHEAD DOOR DETAIL	04.06.15	2025	JS
FC_HS_25	LOUVRE DETAIL	04.06.15	2025	JS
FC_HS_26	EAVES GUTTER DETAIL	04.06.15	2025	JS
FC_HS_27	EAVES GUTTER DETAIL - RAB BOARD	04.06.15	2025	JS
FC_HS_28	EAVES GUTTER DETAIL - BUILDING WRAP	04.06.15	2025	JS
FC_HS_29	KS1100 CS GUTTER, KSN1000FC ROOF & HORIZONTAL PARAPET WALL	04.06.15	2025	JS
FC_HS_30	VERGE OVERHANG	04.06.15	2025	JS
FC_HS_31	PRECAST WALL - EXTERNAL CORNER CAP	04.06.15	2025	JS
FC_HS_32	PRECAST WALL - EXTERNAL CORNER FLUSH	04.06.15	2025	JS
FC_HS_33	PIPE PENETRATION DETAIL	04.06.15	2025	JS
FC_HS_34	PIPE PENETRATION SUPPORT DETAIL	04.06.15	2025	JS
FC_HS_35	PIPE SUPPORT DETAIL HORIZ. SECTION	04.06.15	2025	JS
FC_HS_36	SIGNAGE SUPPORT DETAILS VERT. SECTION	04.06.15	2025	JS

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 HORIZONTAL WALL PANEL

DESCRIPTION
FIVE CROWN HORIZONTAL WALL PANEL DRAWING LIST

APPROVED BY	DATE	REVISION
JS	04.06.15	2025

DRG REF:	SCALE	PAPER SIZE
FC_HS_01	1:1	A4

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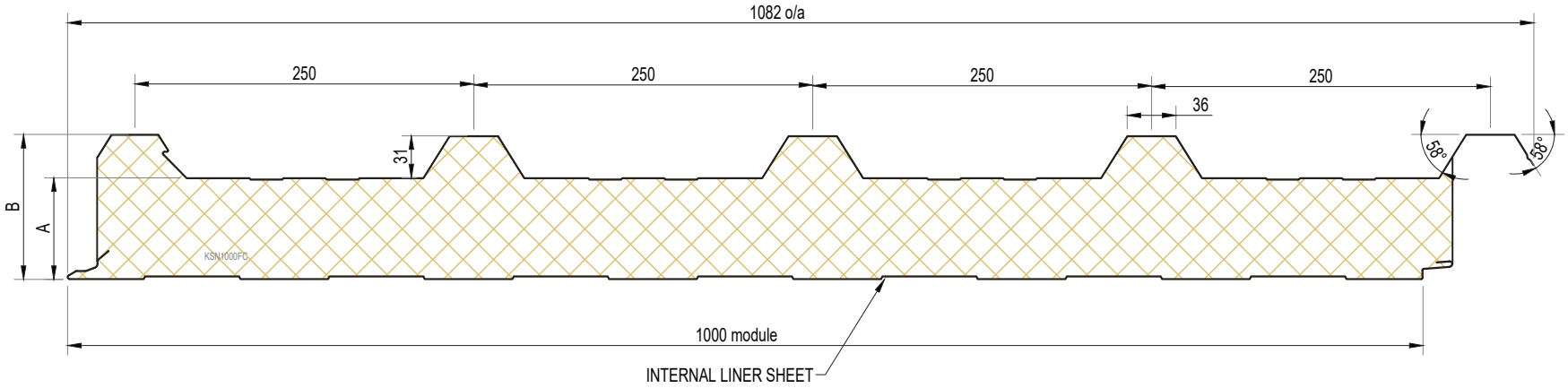
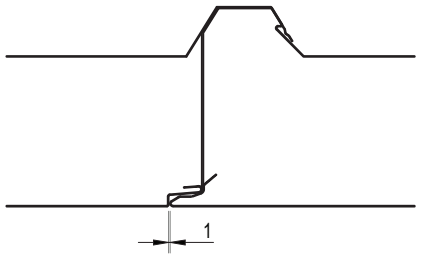
PANEL DIMENSIONS

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 HORIZONTAL WALL PANEL		
DESCRIPTION PANEL DIMENSIONS		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_02	SCALE 1:5	PAPER SIZE A4

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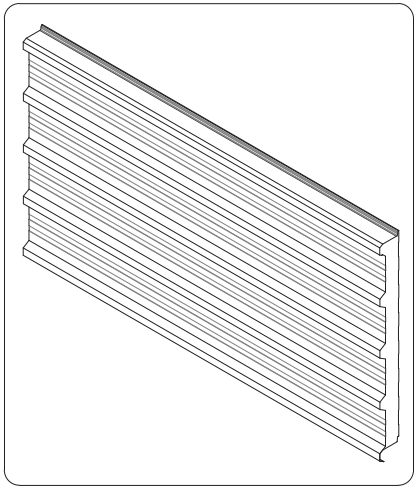
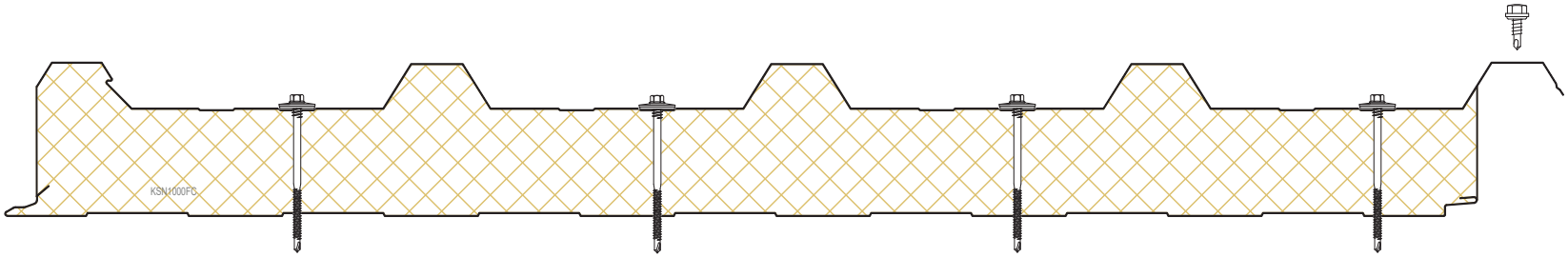
PRIMARY FIXING LOCATIONS

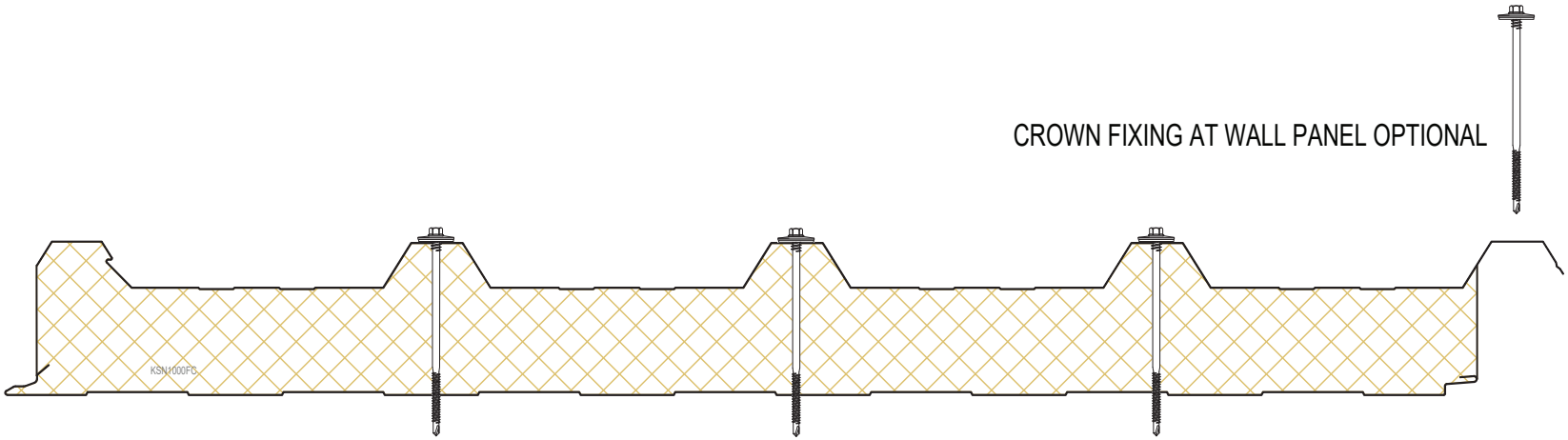
THE NUMBER OF FIXINGS & FIXING TYPE TO BE DETERMINED BY THE DESIGNER, BASED ON PANEL SPANS AND SITE SPECIFIC WIND LOADS.
REFER FIXING MANUFACTURER FOR THE CORRECT FIXING INTO LIGHT STEEL, HEAVY STEEL OR TIMBER. MINIMUM WASHER SIZE TO BE 19mm. FASTENERS TO BE CLASS 4 OR BETTER.



VALLEY FIXING AT WALL PANEL LOCATIONS



CROWN FIXING AT WALL PANEL OPTIONAL



KSN1000FC WALL PANEL PRIMARY FIXING LOCATIONS.
HORIZONTALLY OR VERTICALLY LAID

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION PRIMARY FIXING LOCATIONS			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
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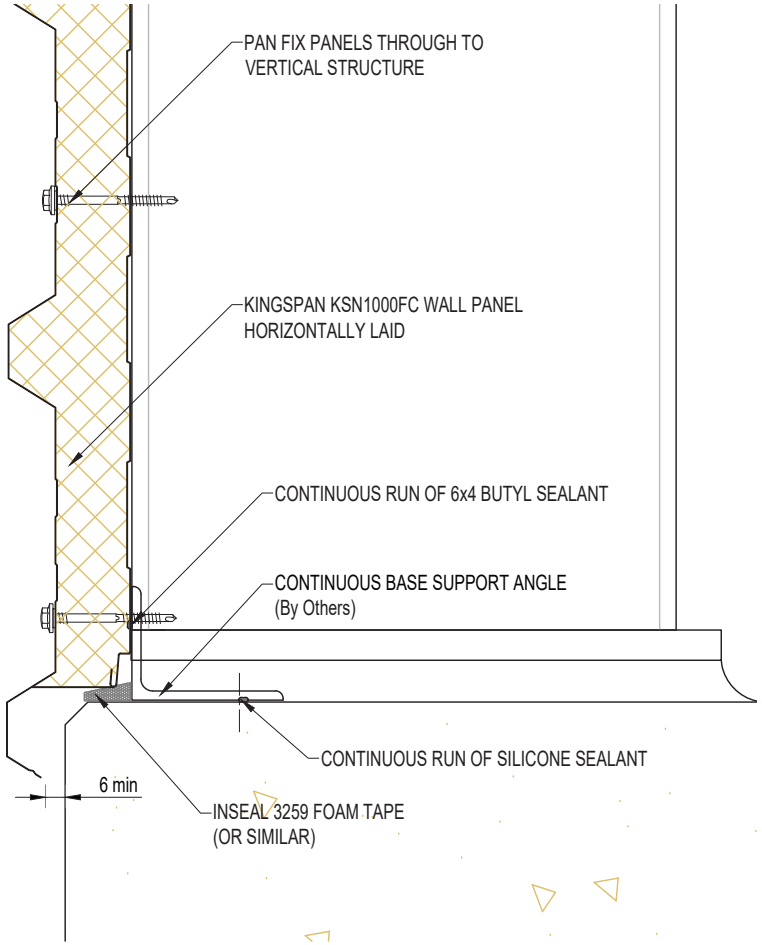
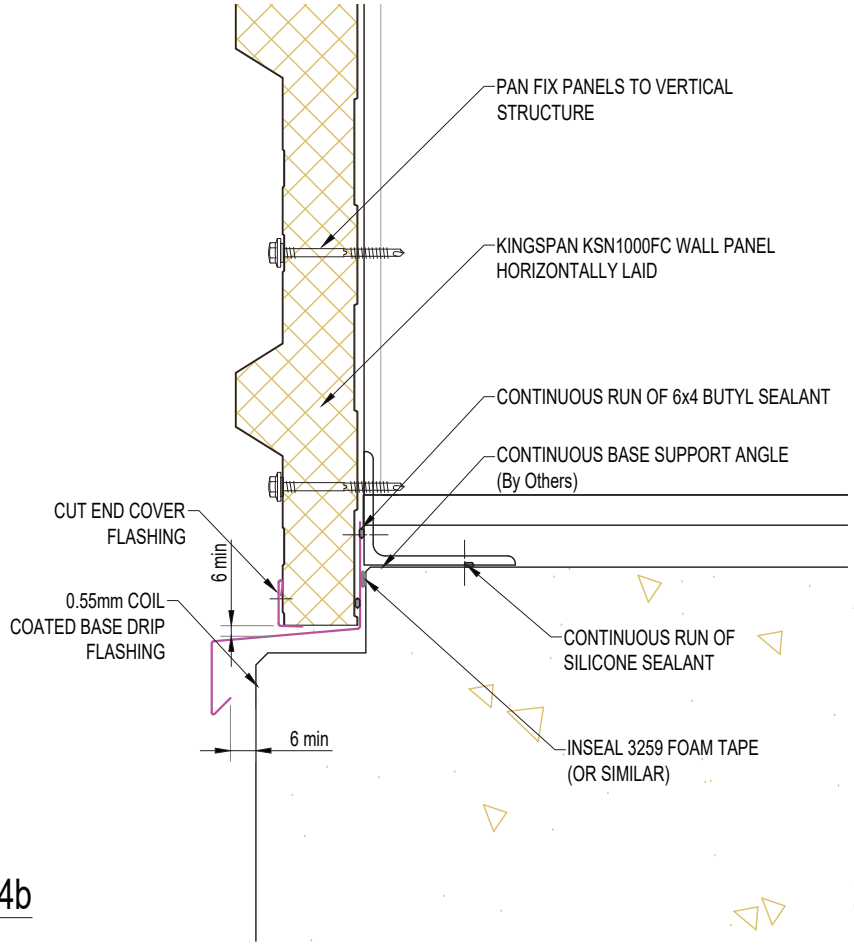
BASE DETAILS_1



04a



04b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS_1		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_04	SCALE 1:5	PAPER SIZE A4

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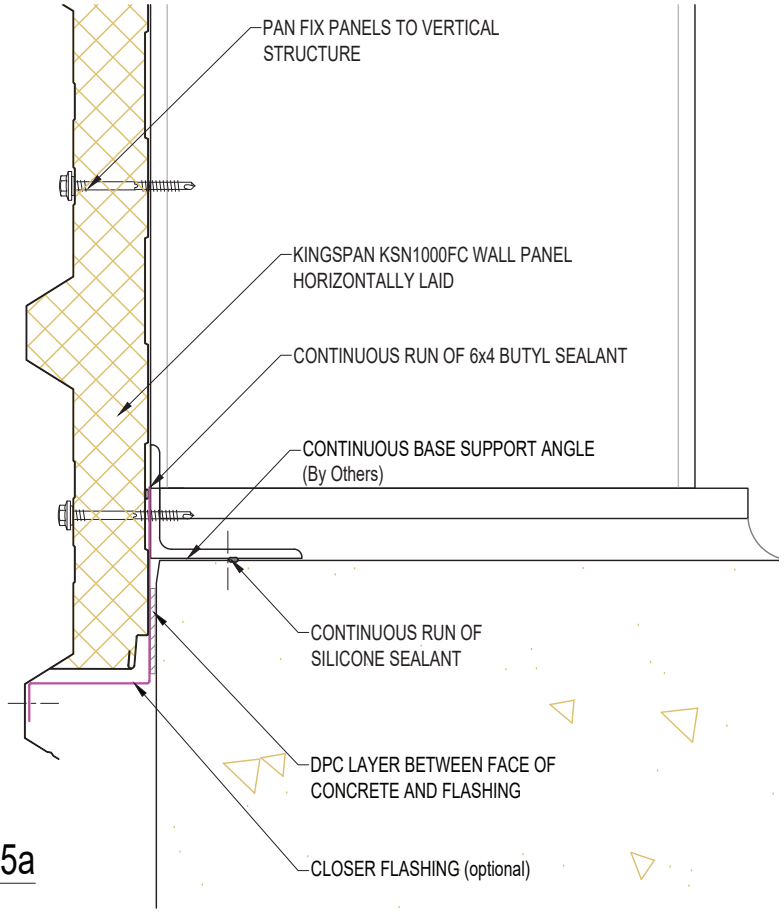
BASE DETAILS_2



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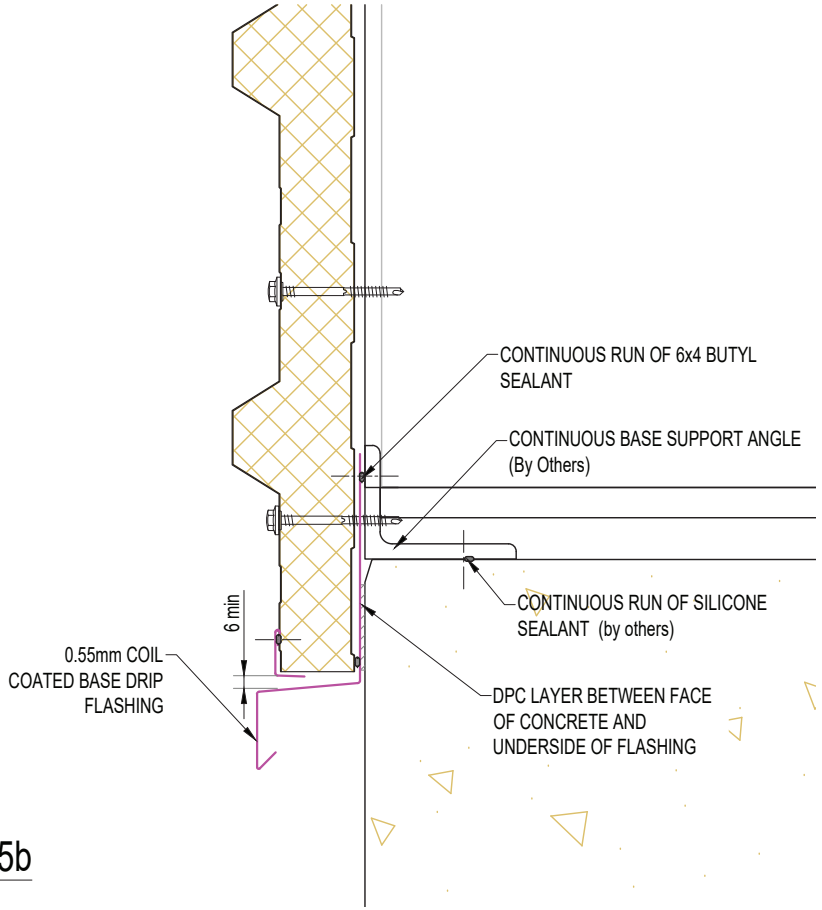

05b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION BASE DETAILS_2			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_05	SCALE 1:5		PAPER SIZE A4

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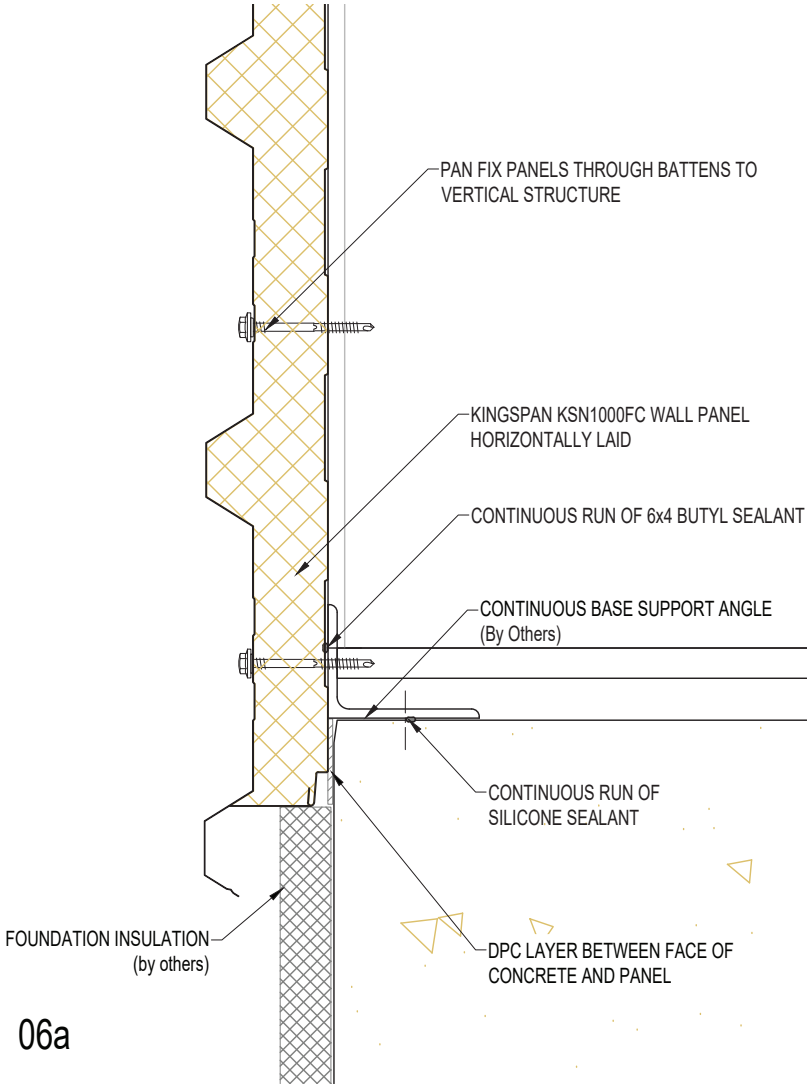
BASE DETAILS_3



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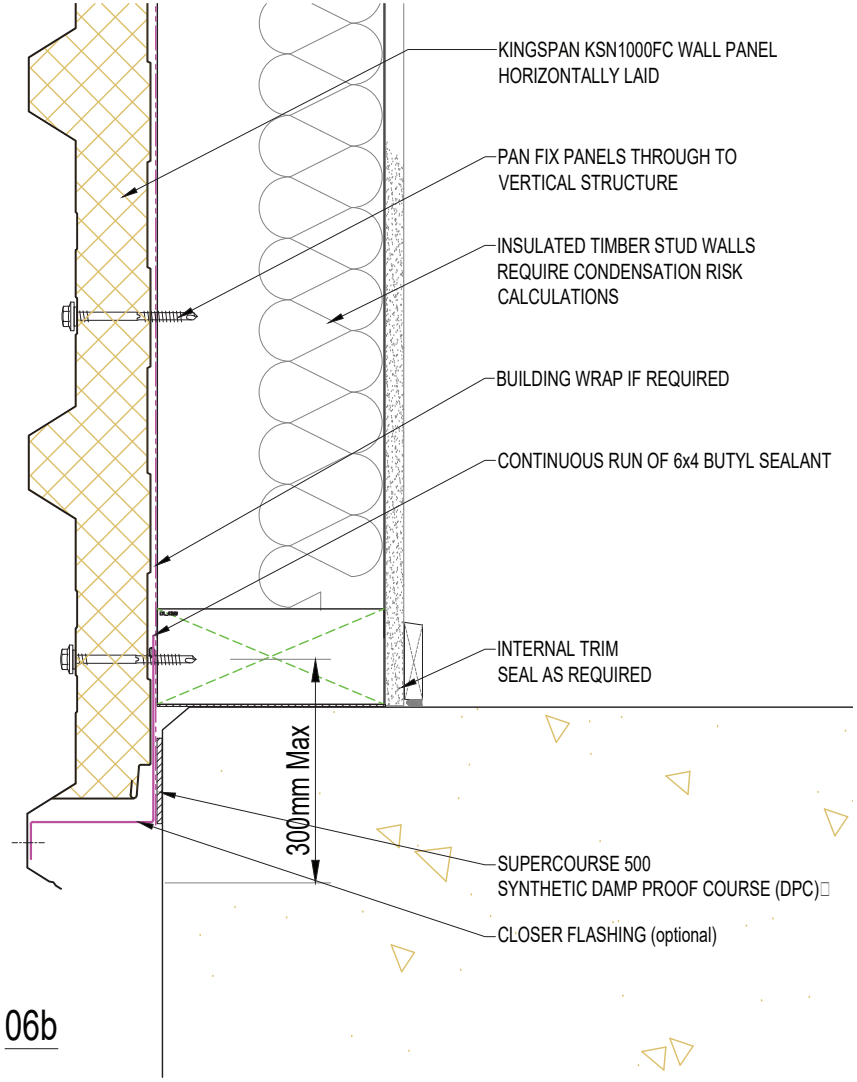

06b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS_3		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
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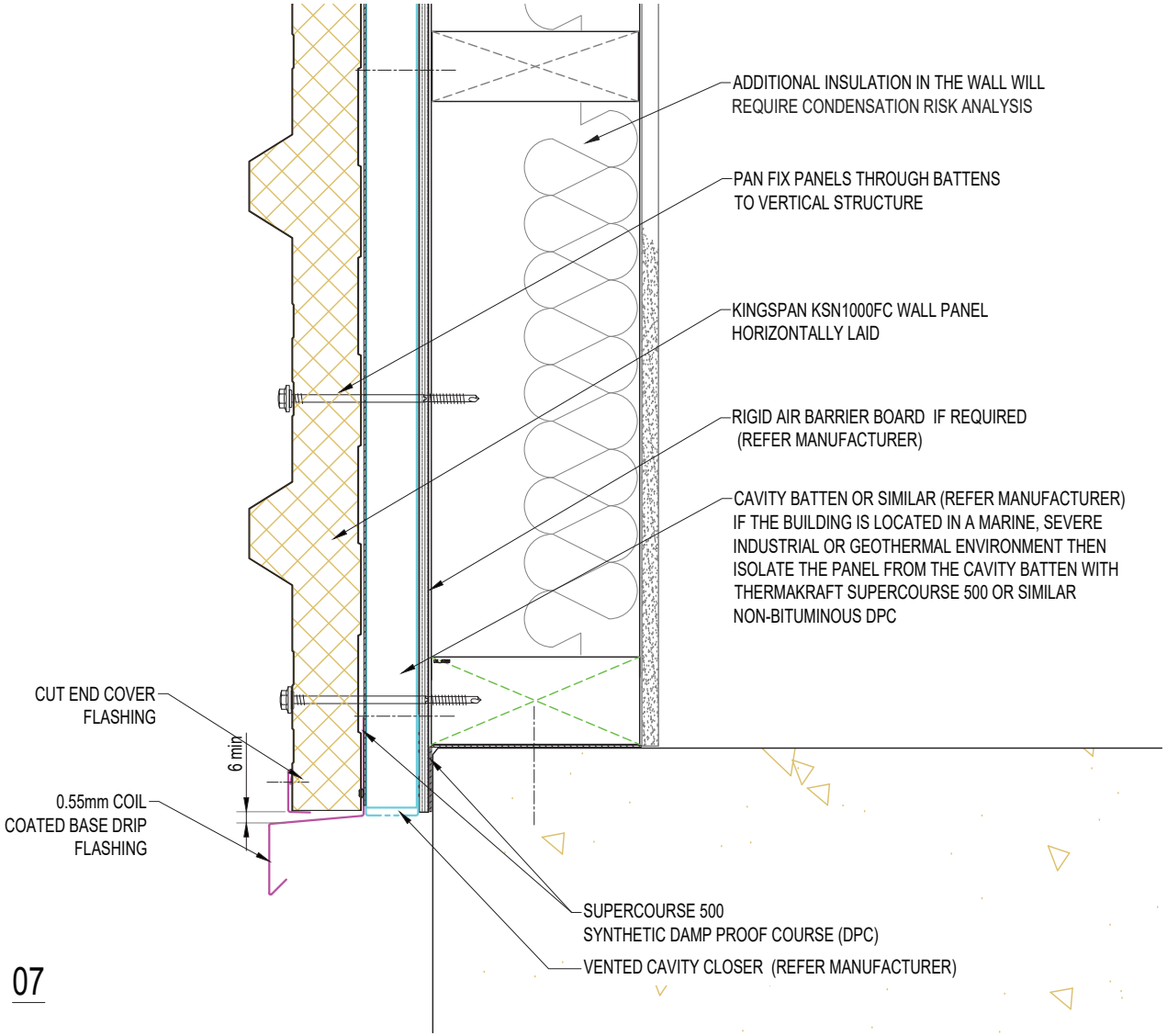
BASE DETAILS_4



07

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS_4		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
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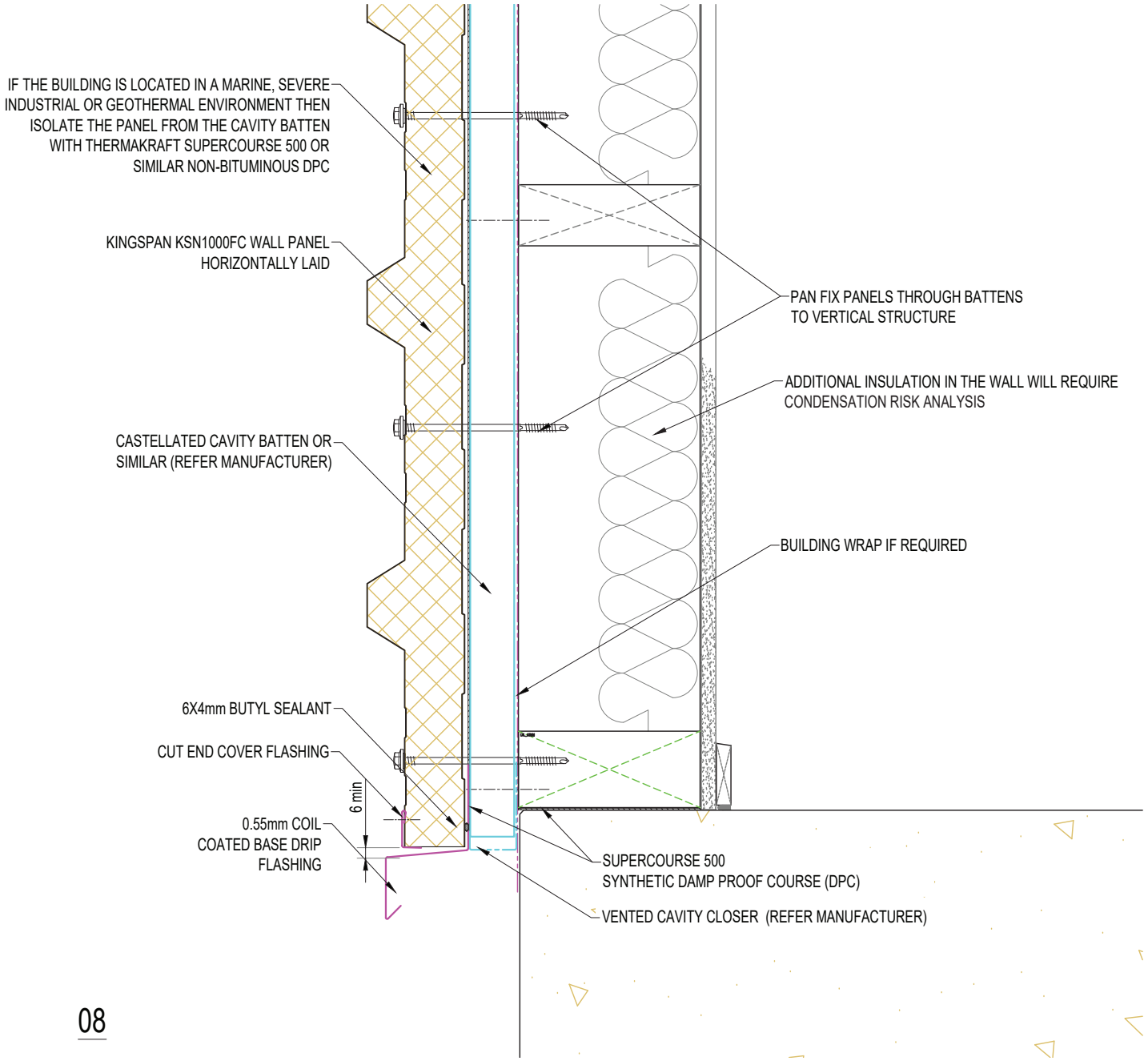
BASE DETAILS_5



08

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS_5		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_08	SCALE 1:5	PAPER SIZE A4

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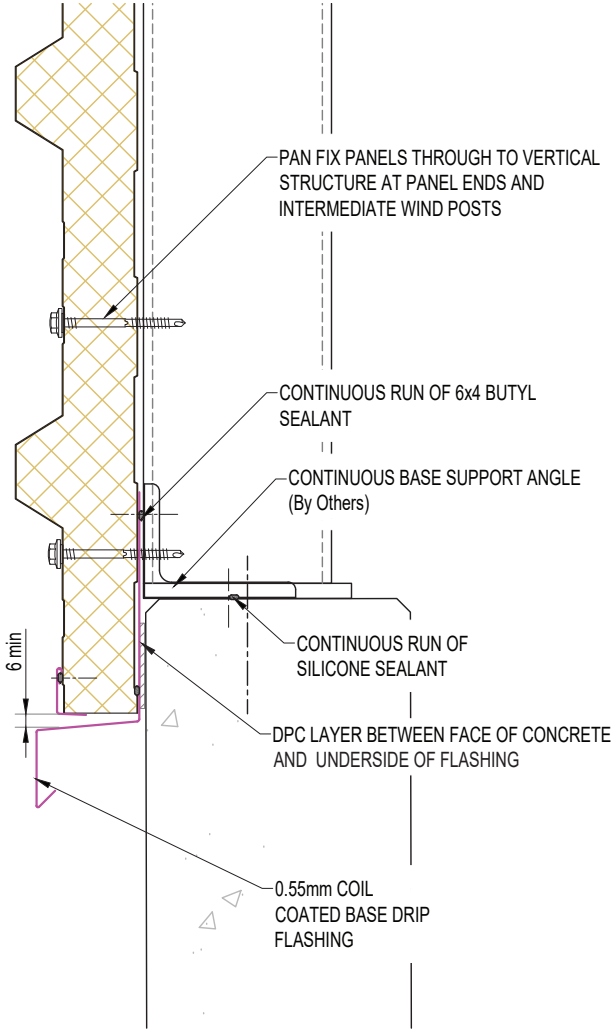
BASE DETAILS ON PRECAST WALL_1



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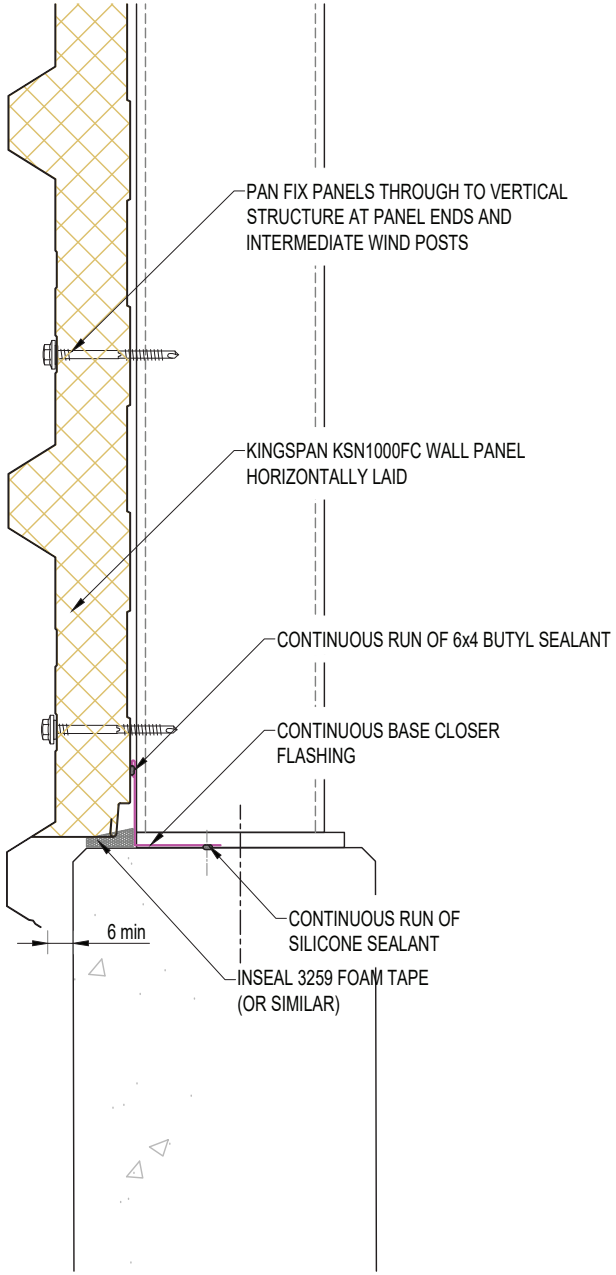

09b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS ON PRECAST WALL_1		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_09	SCALE 1:5	PAPER SIZE A4

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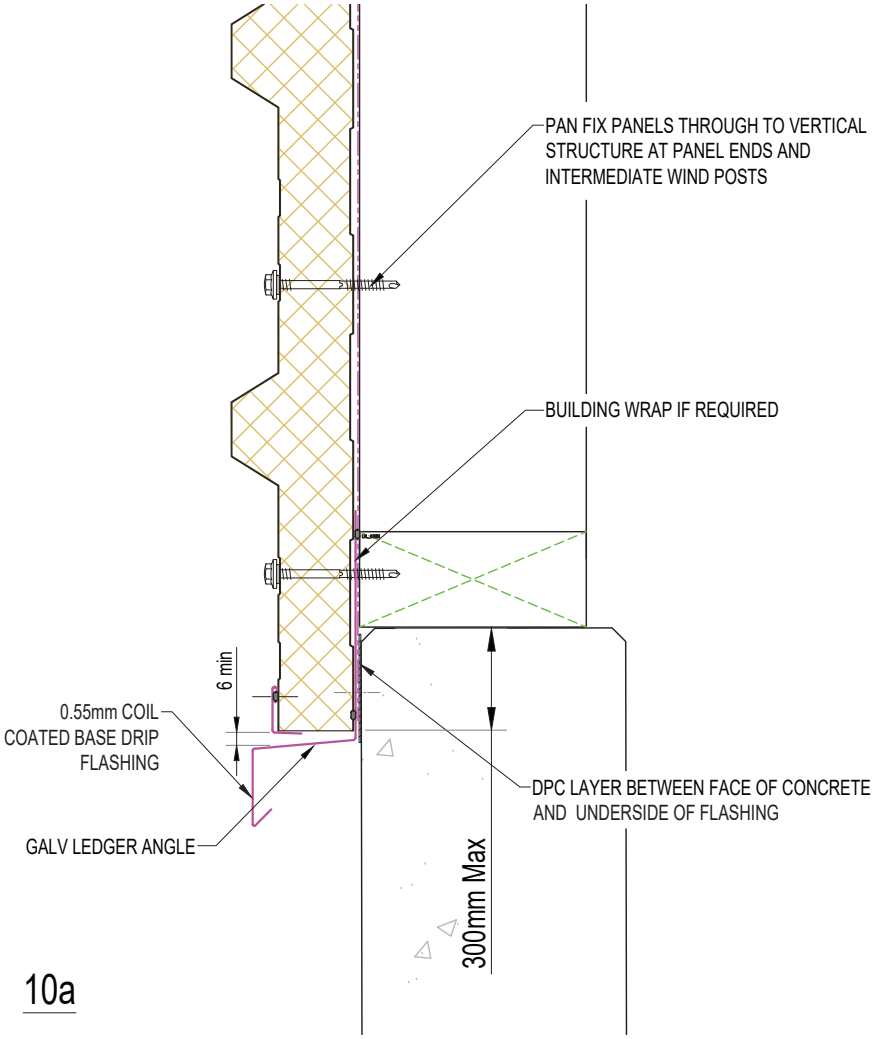
BASE DETAILS ON PRECAST WALL_2



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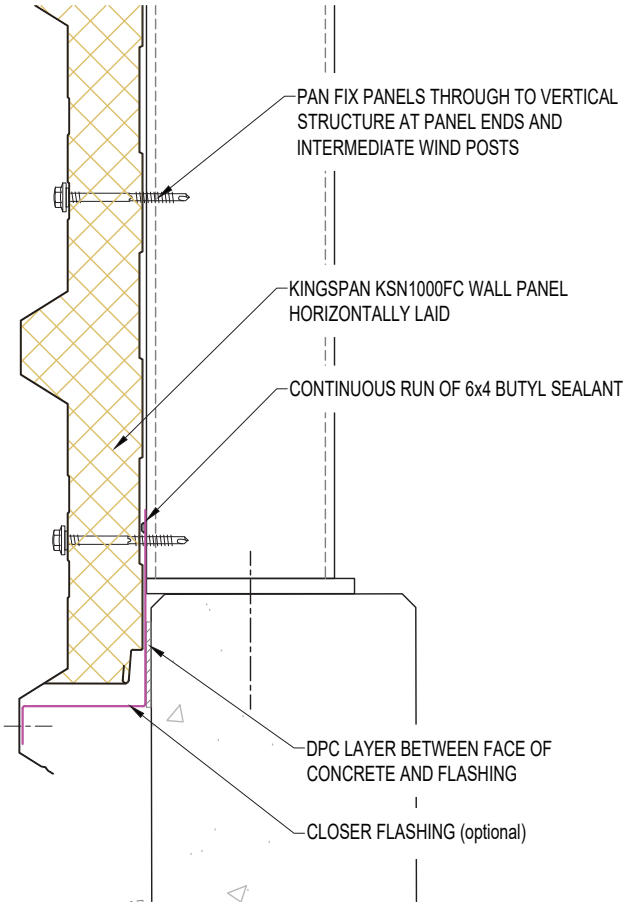

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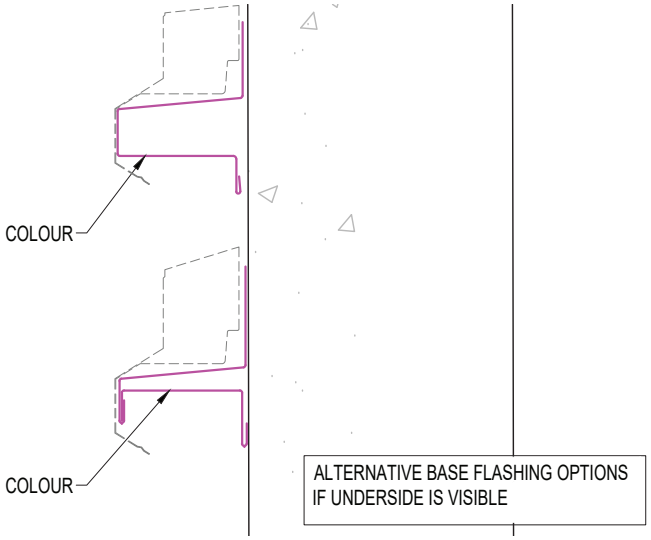

ALTERNATIVE BASE FLASHING OPTIONS IF UNDERSIDE IS VISIBLE

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS ON PRECAST WALL_2		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
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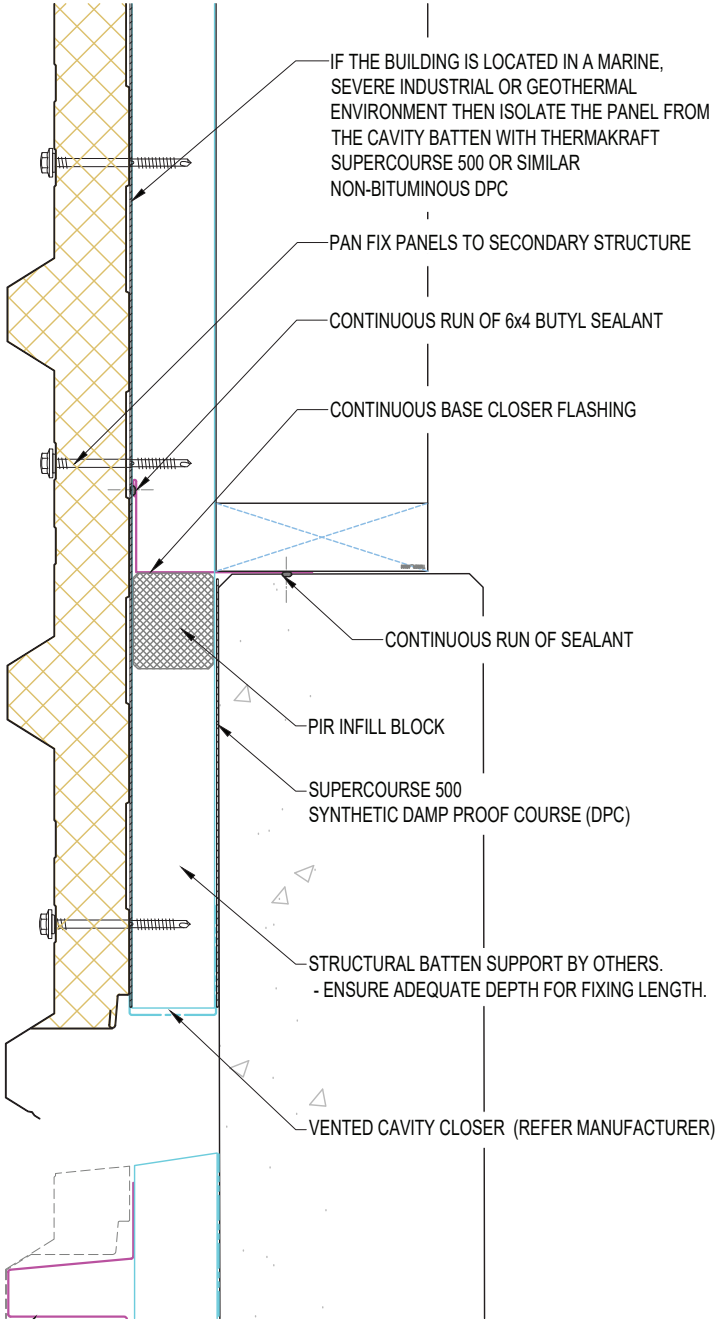
BASE DETAILS ON PRECAST WALL 3



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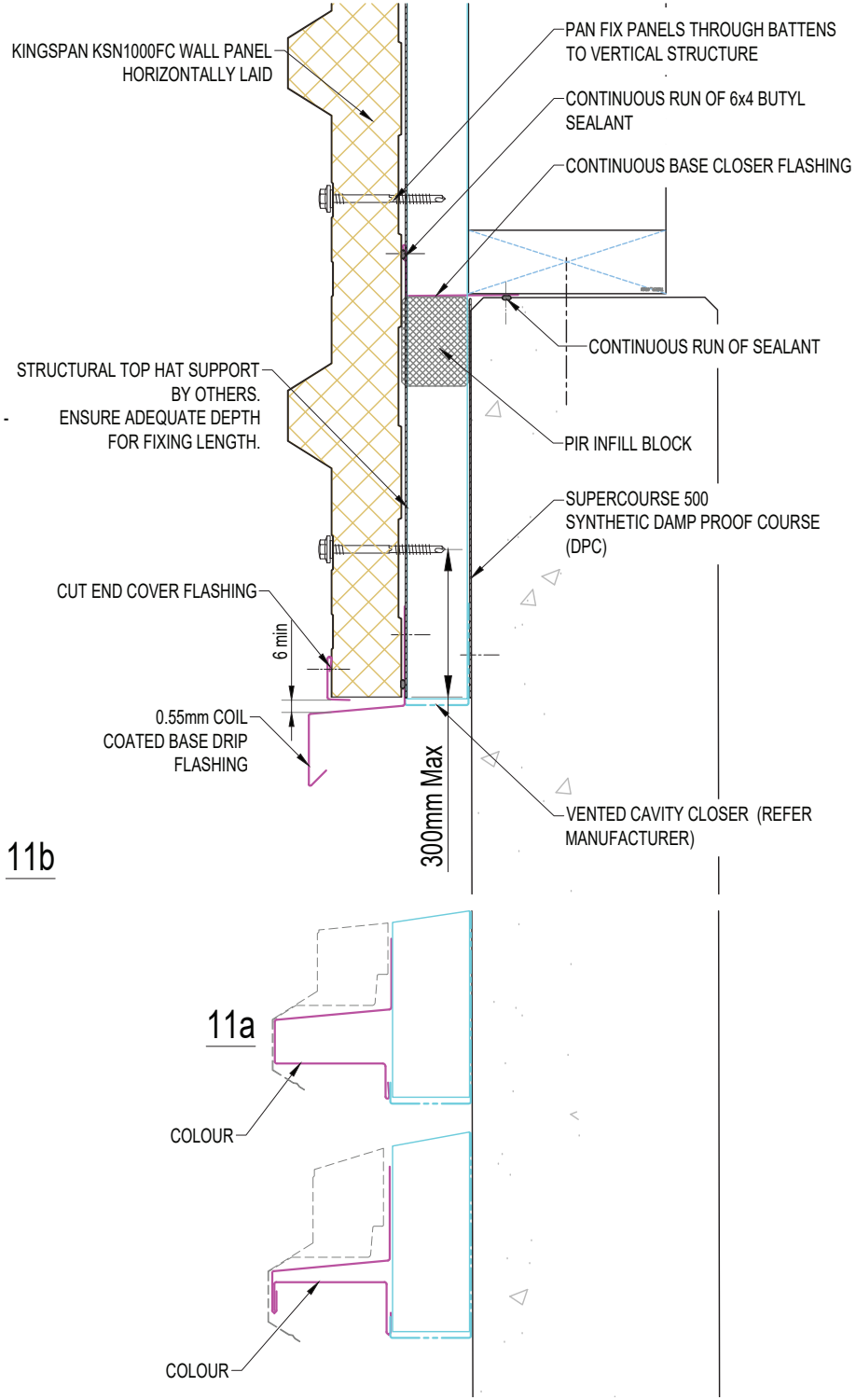

11b

11a

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION BASE DETAILS ON PRECAST WALL 3		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_11	SCALE 1:5	PAPER SIZE A4

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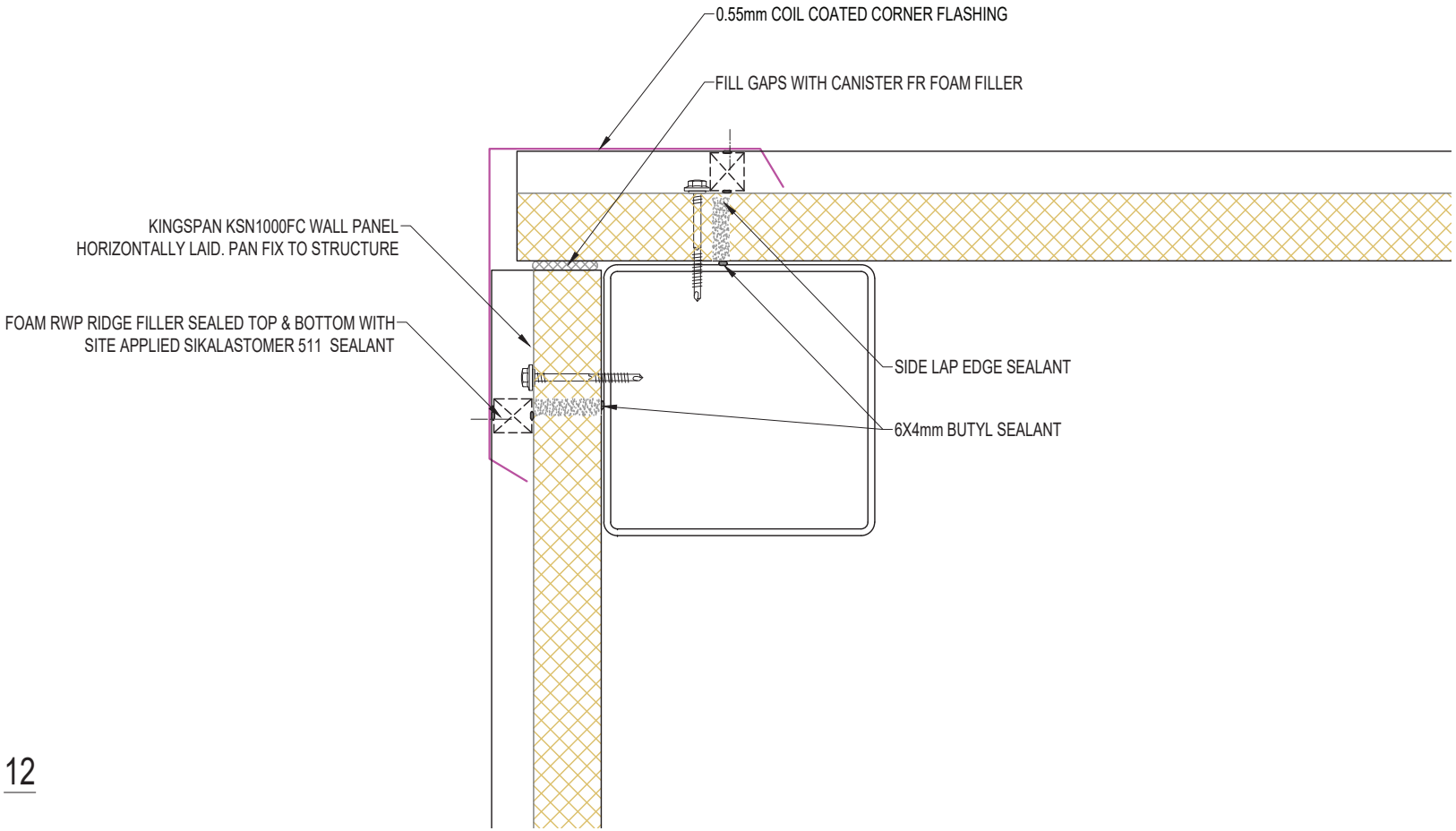
EXTERNAL CORNER - STEEL FRAME



12

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION EXTERNAL CORNER - STEEL FRAME		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_12	SCALE 1:5	PAPER SIZE A4

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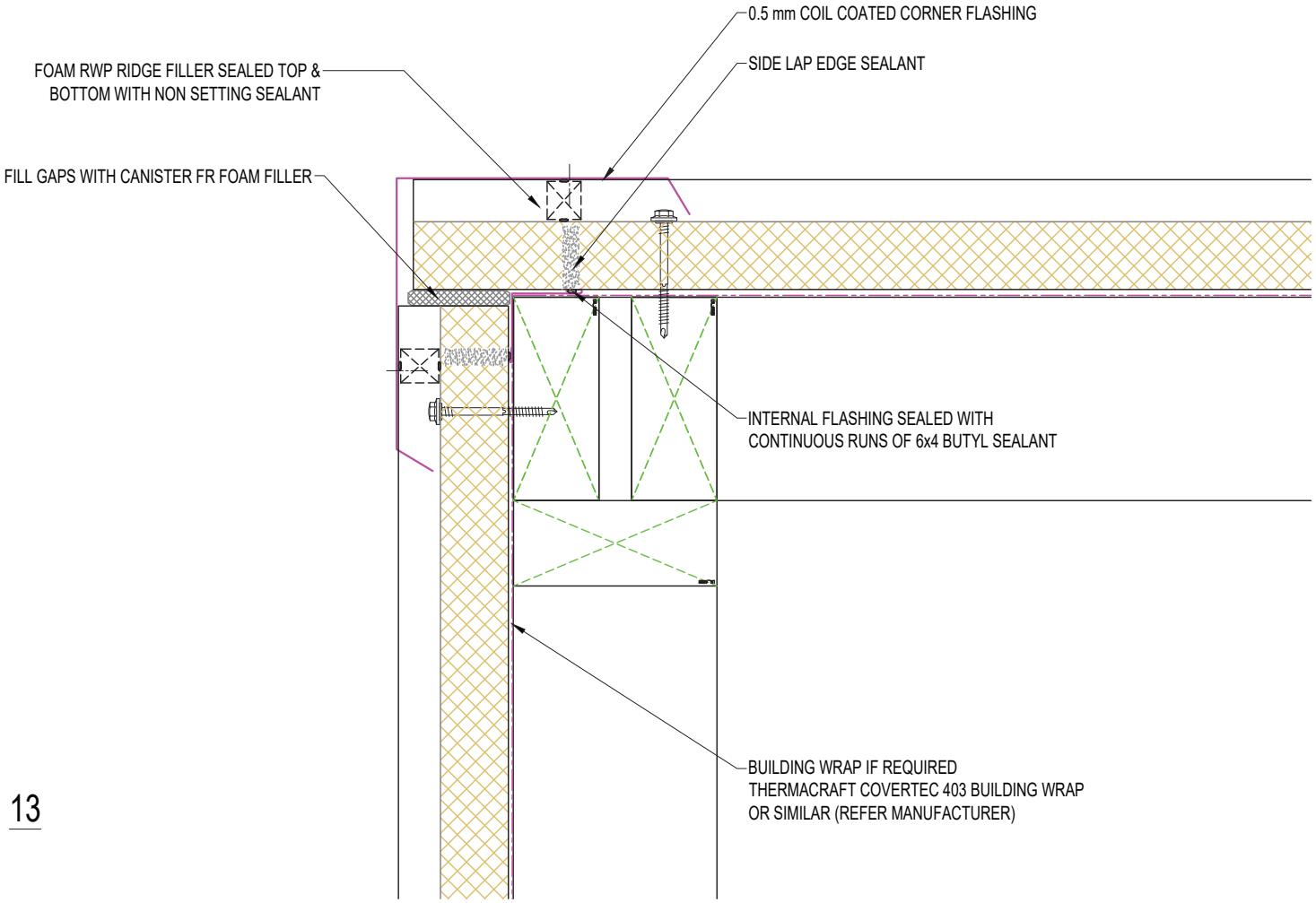
EXTERNAL CORNER - TIMBER FRAME



13

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION EXTERNAL CORNER - TIMBER FRAME			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_13	SCALE 1:5		PAPER SIZE A4

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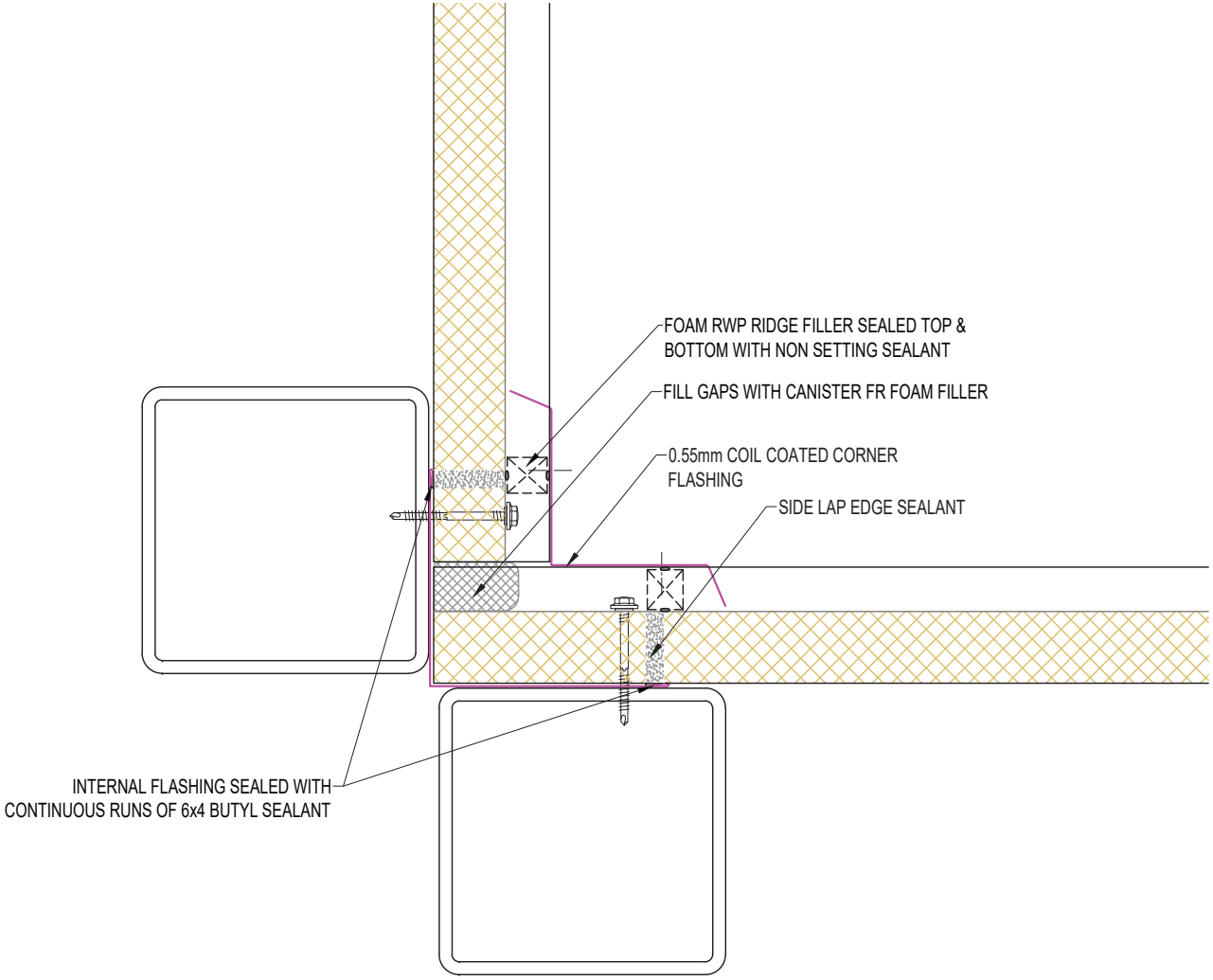
INTERNAL CORNER DETAIL STEEL FRAME



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION INTERNAL CORNER DETAIL STEEL FRAME			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_14	SCALE 1:5		PAPER SIZE A4

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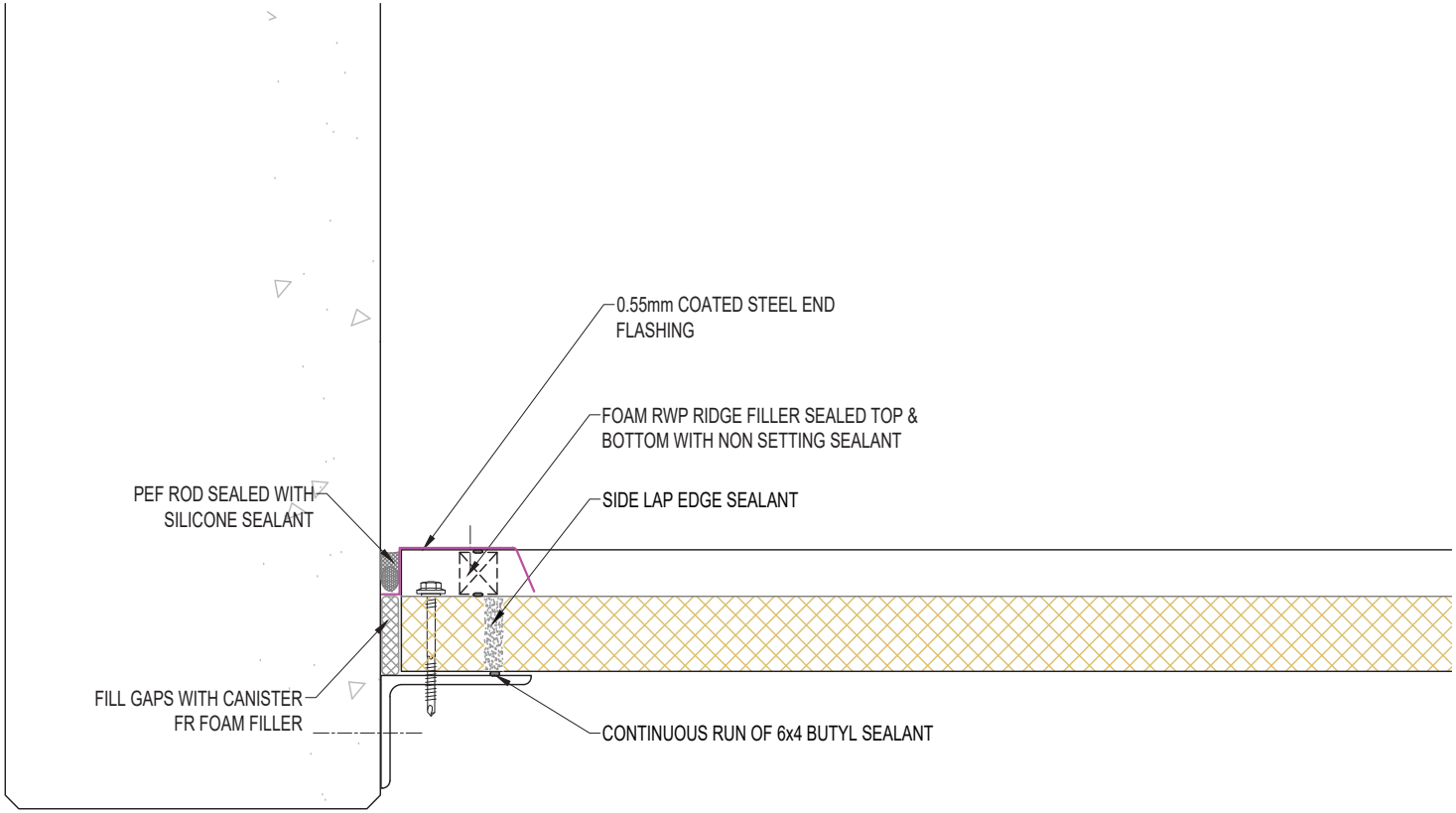
INTERNAL CORNER ABUTMENT TO CONCRETE



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION INTERNAL CORNER ABUTMENT TO CONCRETE			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_15	SCALE 1:5		PAPER SIZE A4

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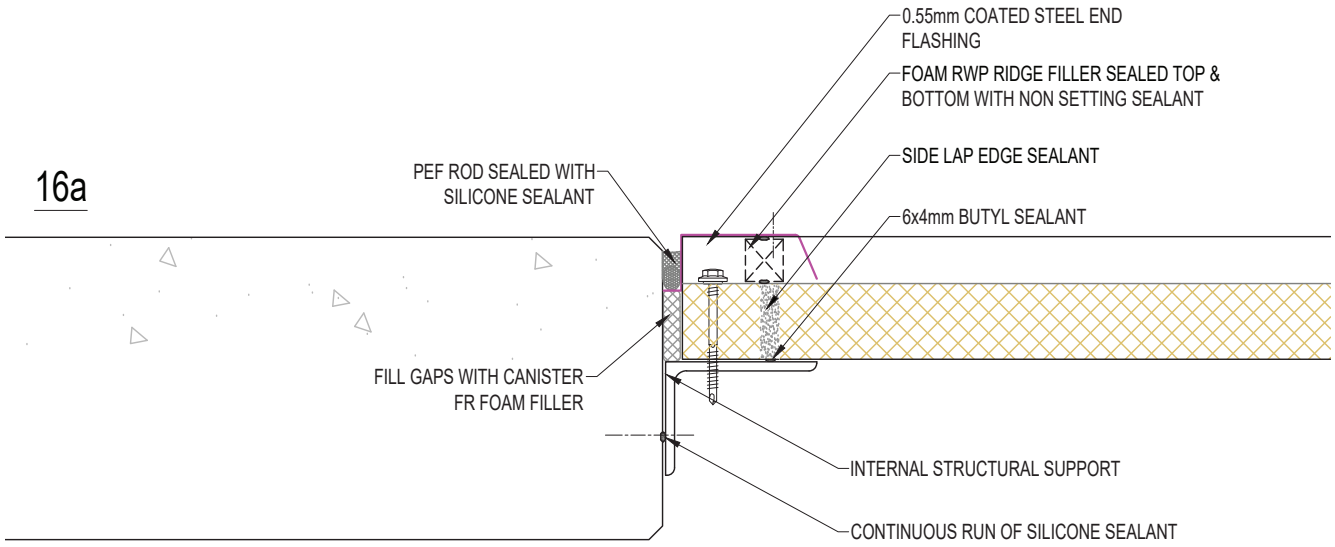
FLUSH ABUTMENT TO CONCRETE

16a



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION FLUSH ABUTMENT TO CONCRETE			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_16	SCALE 1:5		PAPER SIZE A4

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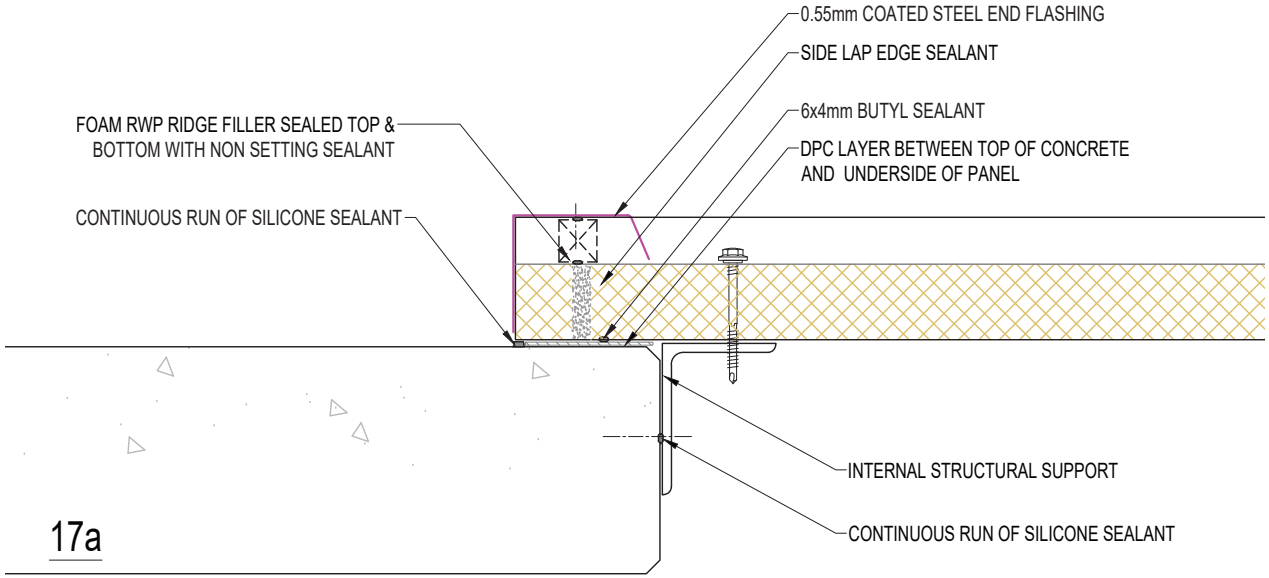
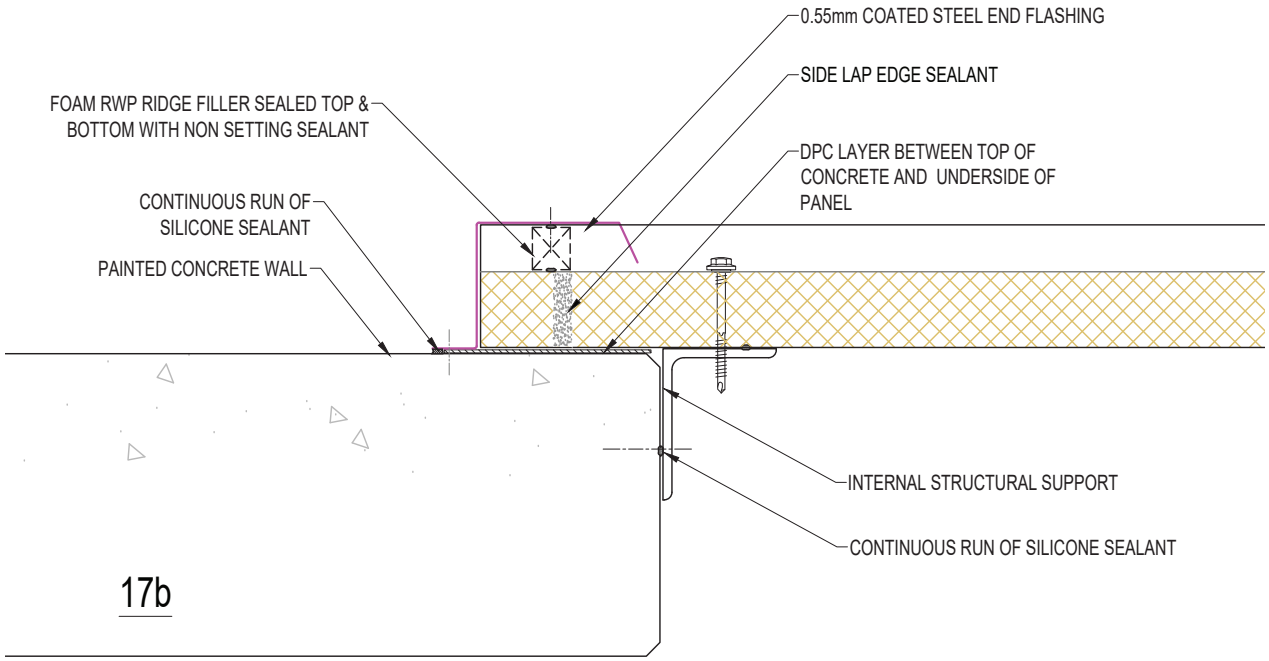
STEPPED ABUTMENTS TO CONCRETE





SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION STEPPED ABUTMENTS TO CONCRETE			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_17	SCALE 1:5		PAPER SIZE A4

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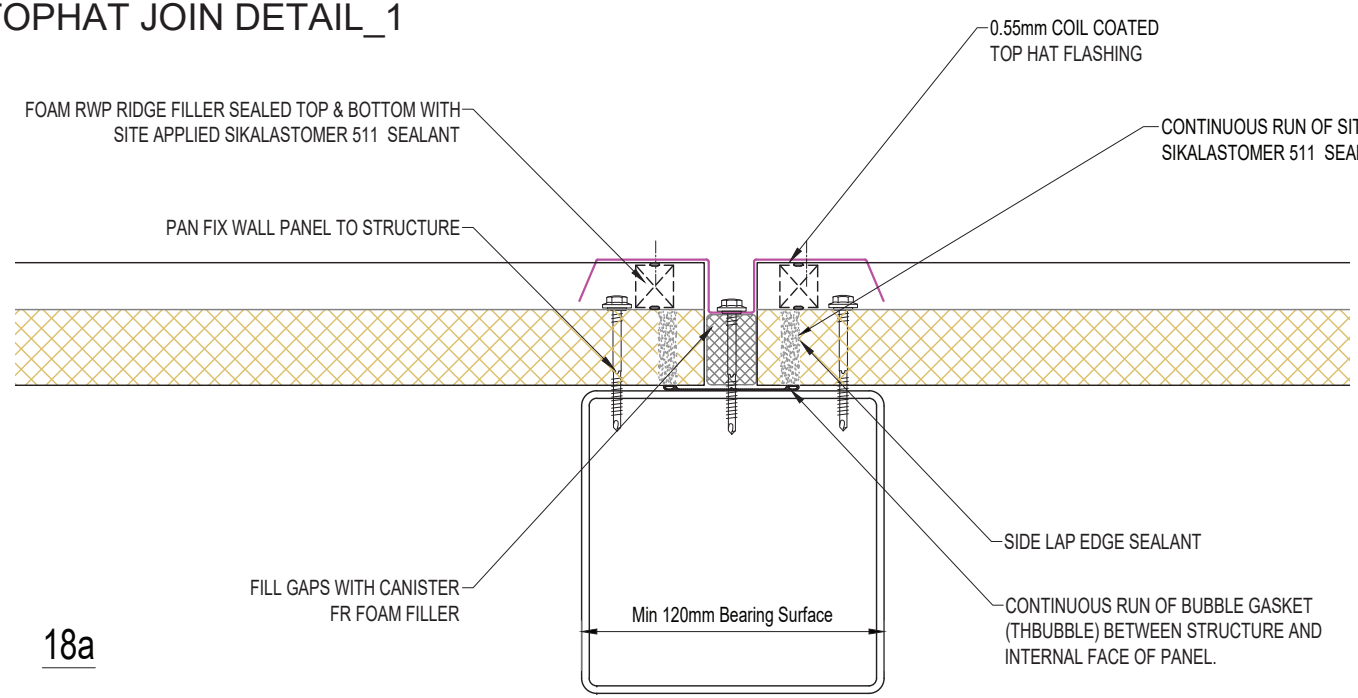
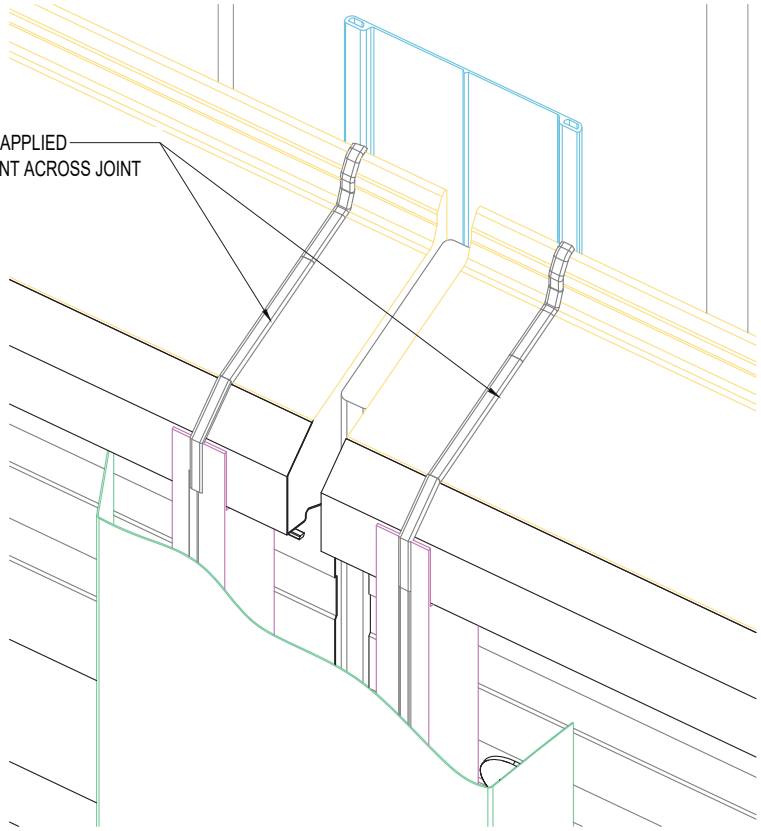
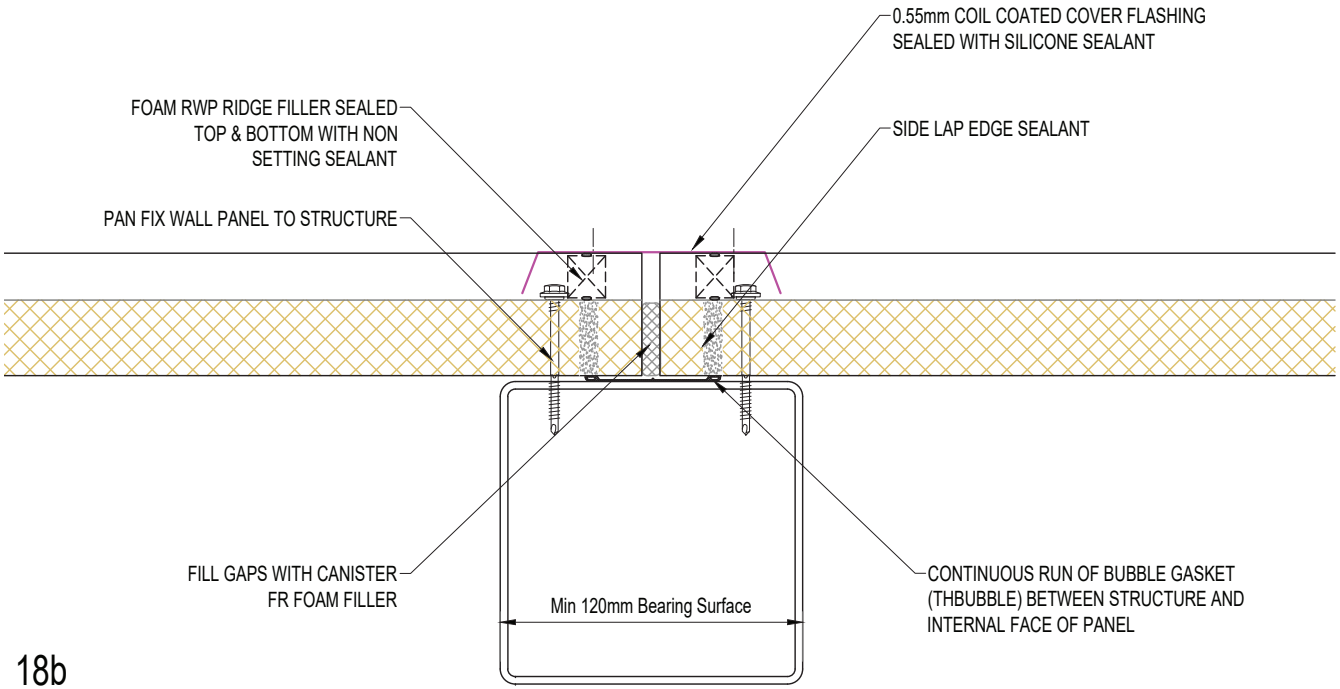
TOPHAT JOIN DETAIL_1



18a





18b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION TOPHAT JOIN DETAIL_1		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_18	SCALE 1:5	PAPER SIZE A4

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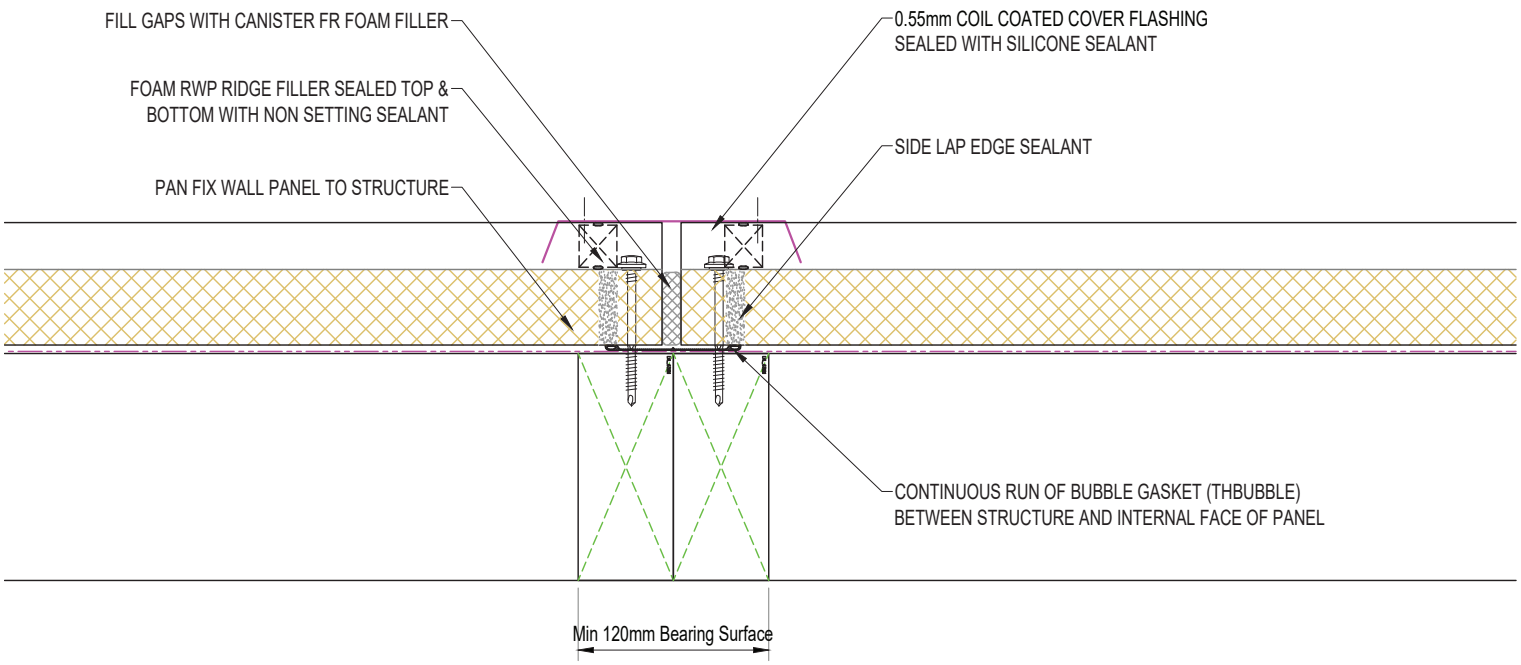
TOPHAT JOIN DETAIL_2



19

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION TOPHAT JOIN DETAIL_2			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_19	SCALE 1:5		PAPER SIZE A4

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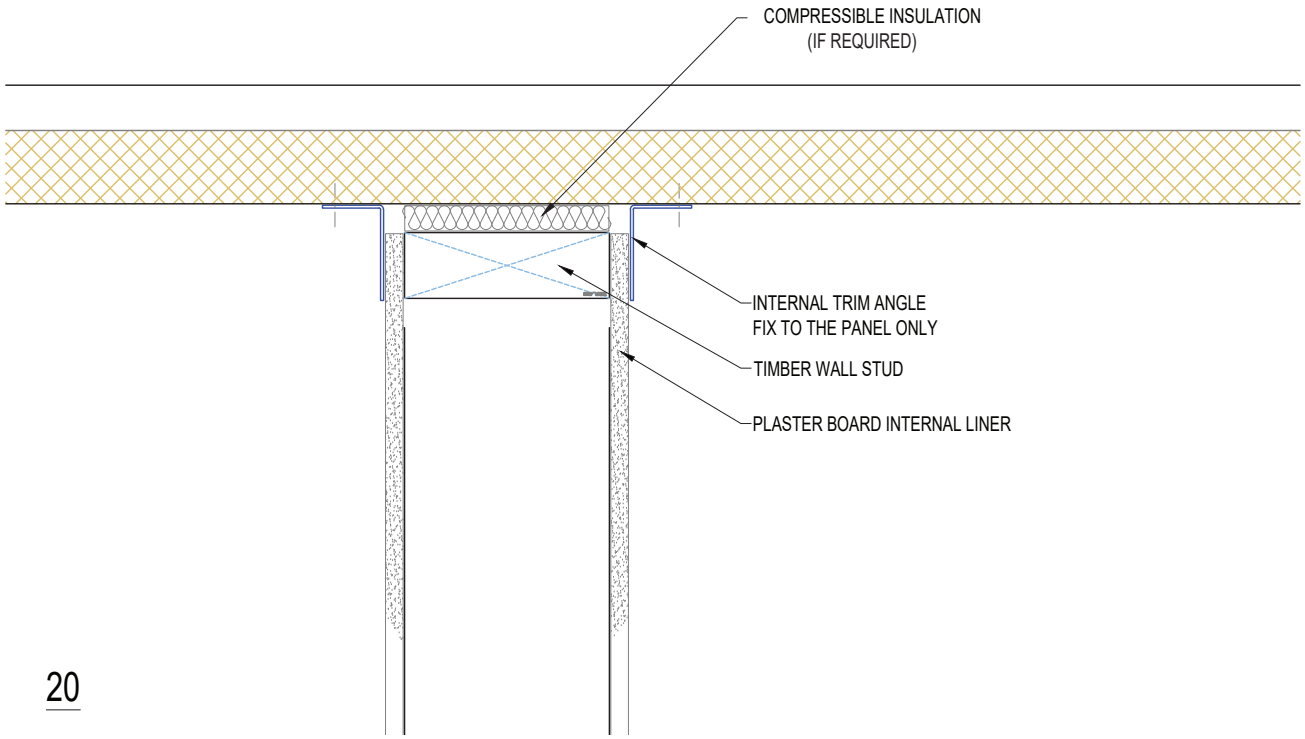
INTERNAL PARTITION WALL ABUTS PANEL



20

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION INTERNAL PARTITION WALL ABUTS PANEL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_20	SCALE 1:5		PAPER SIZE A4

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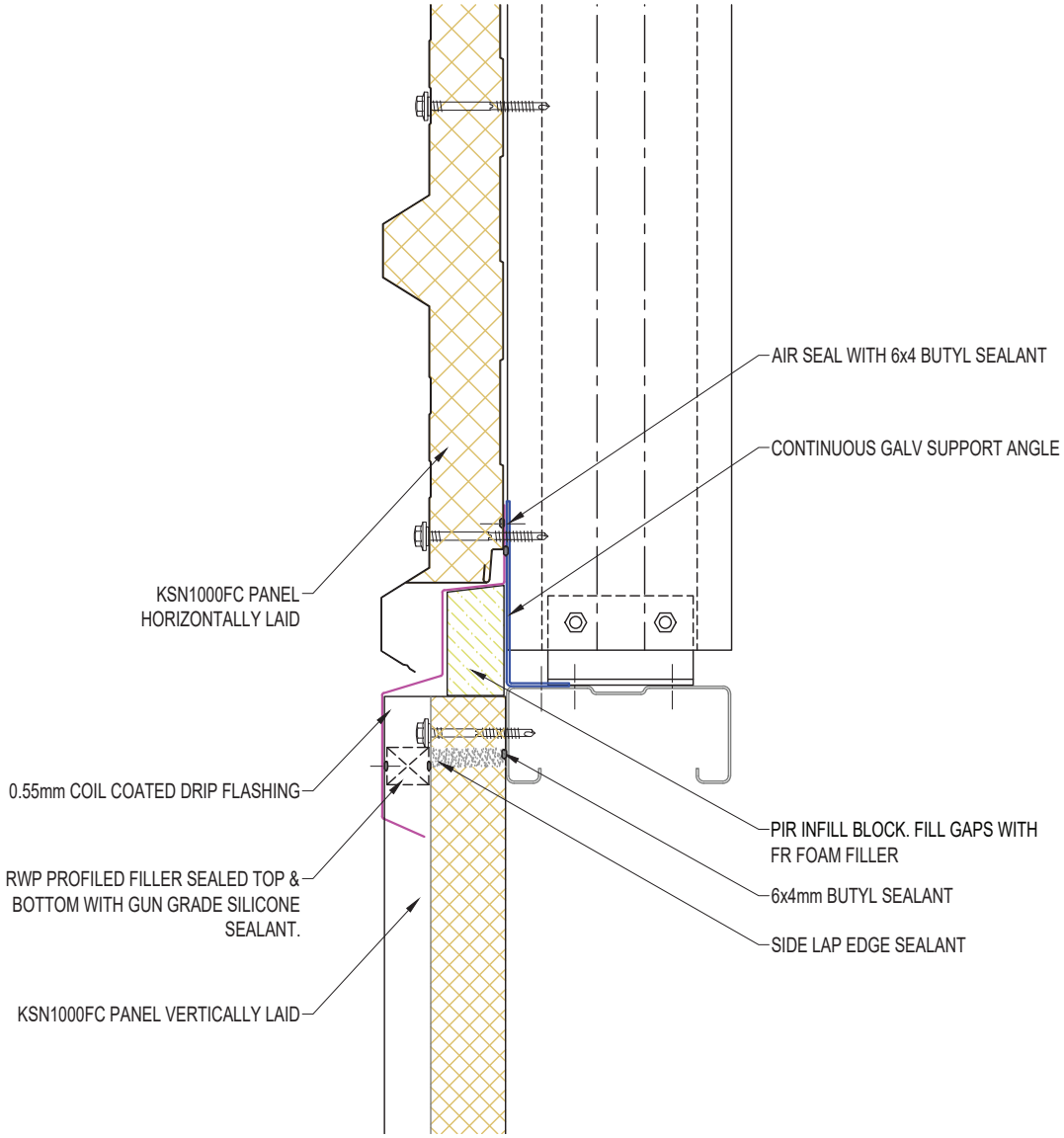
RW HORIZONTAL TO VERTICAL BREAK DETAIL



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION RW HORIZONTAL TO VERTICAL BREAK DETAIL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_21	SCALE 1:5		PAPER SIZE A4

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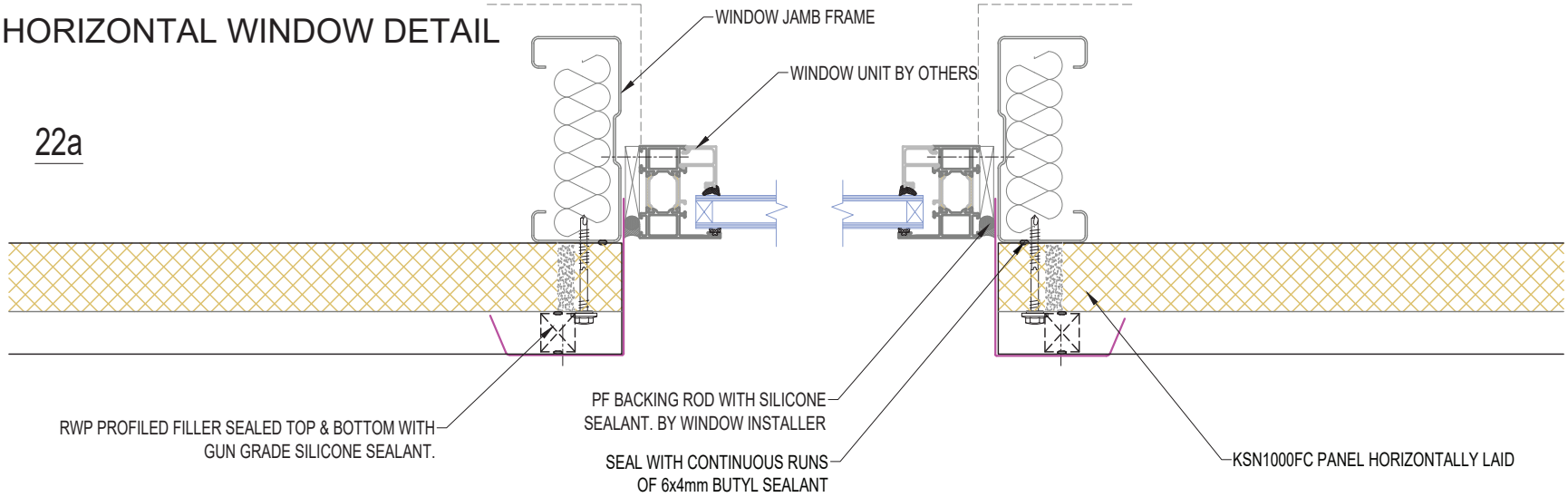
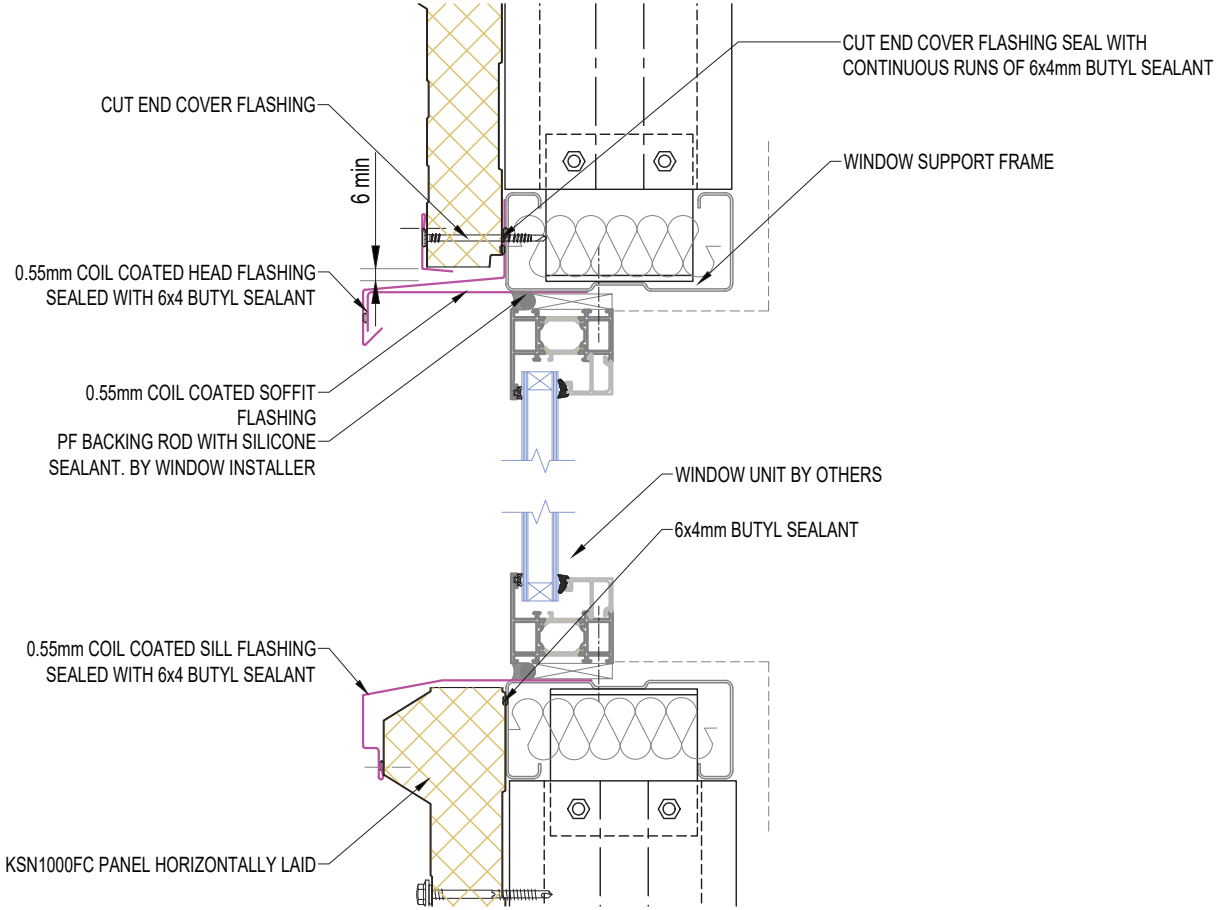
HORIZONTAL WINDOW DETAIL

22a





22b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION HORIZONTAL WINDOW DETAIL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_22	SCALE 1:5		PAPER SIZE A4

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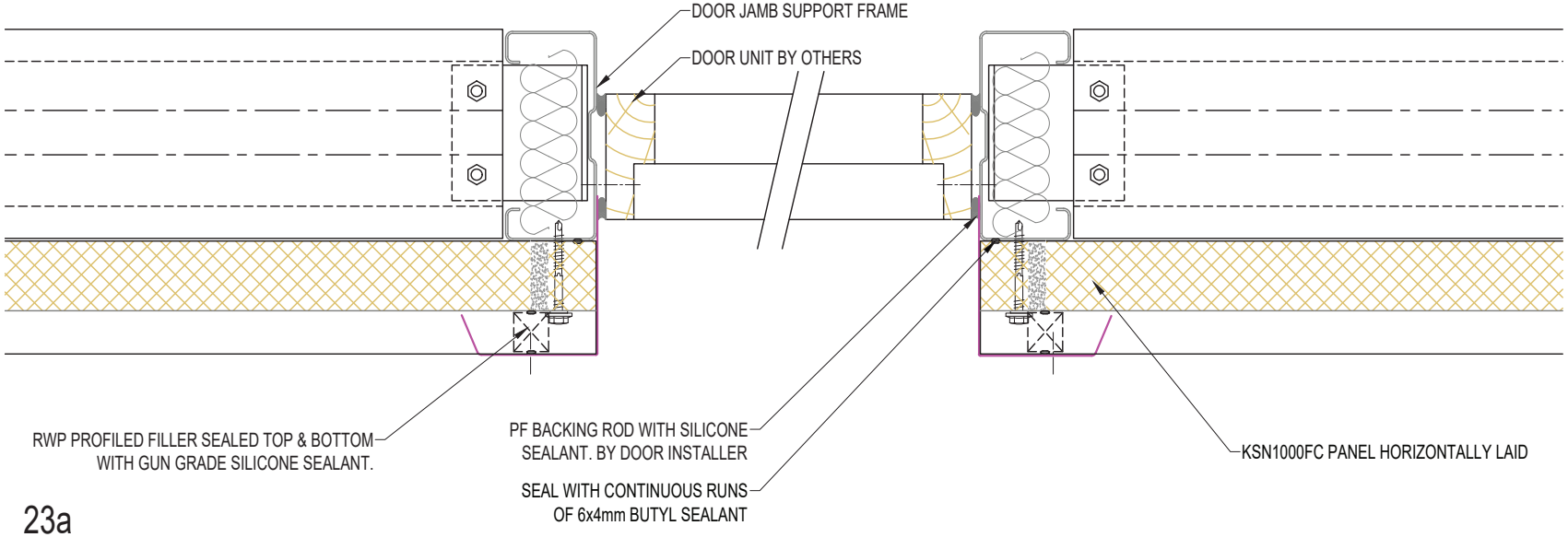
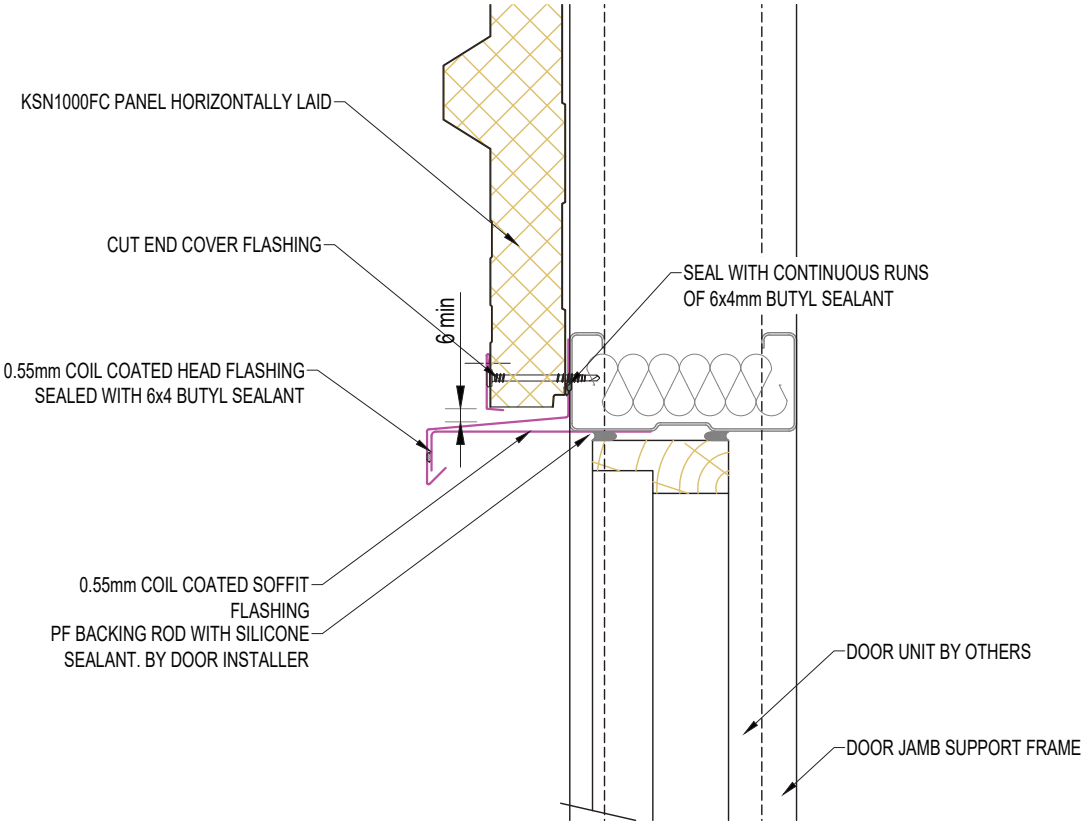
PERSONNEL DOOR DETAIL



23a



23b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION PERSONNEL DOOR DETAIL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_23	SCALE 1:5		PAPER SIZE A4

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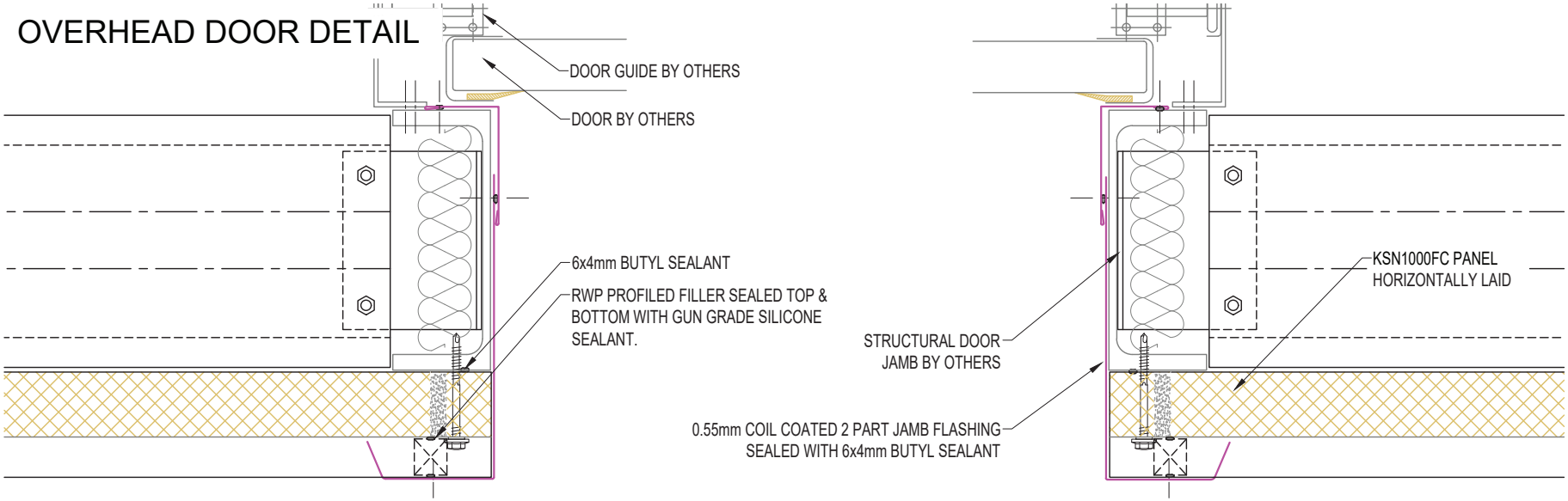
OVERHEAD DOOR DETAIL



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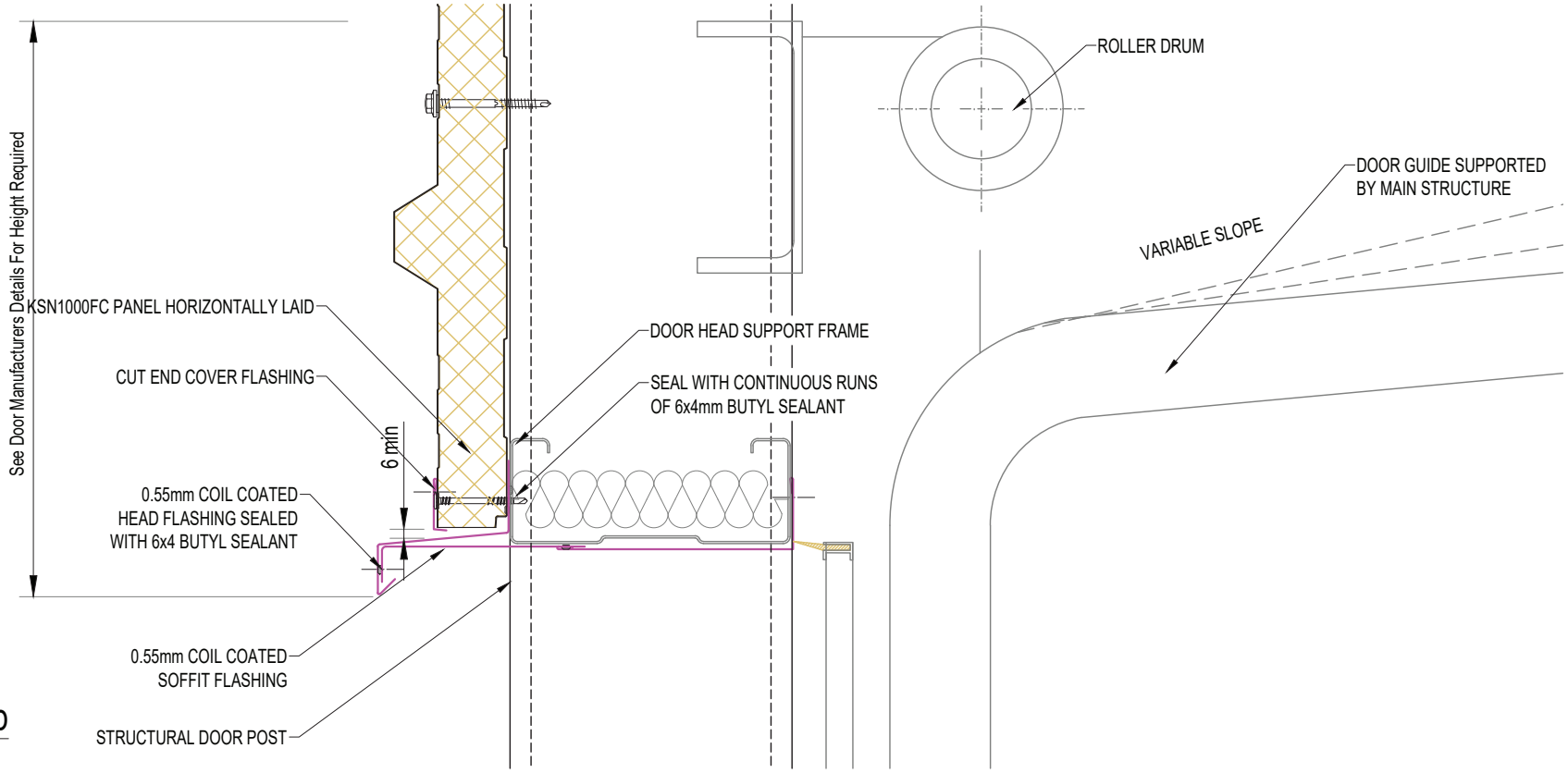

24b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION OVERHEAD DOOR DETAIL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
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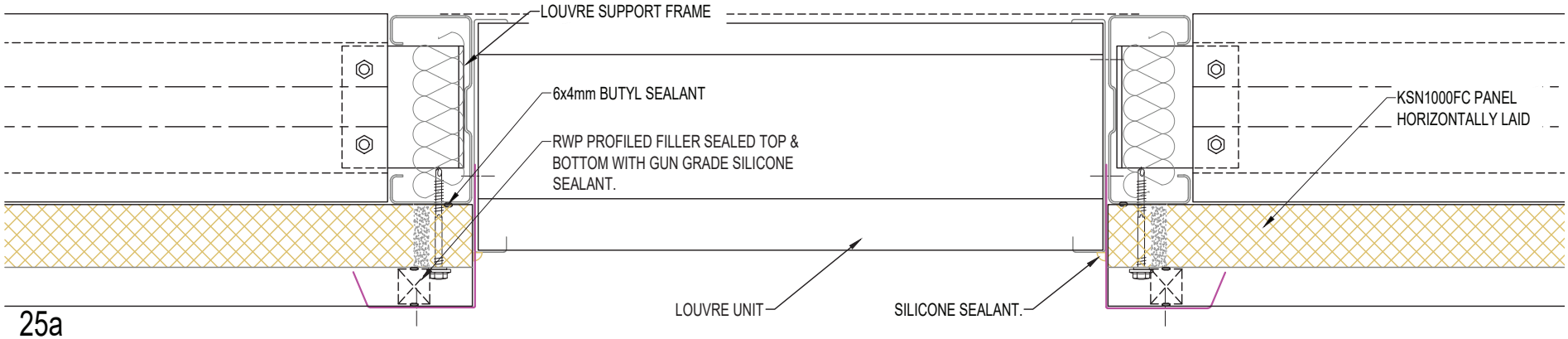
LOUVRE DETAIL



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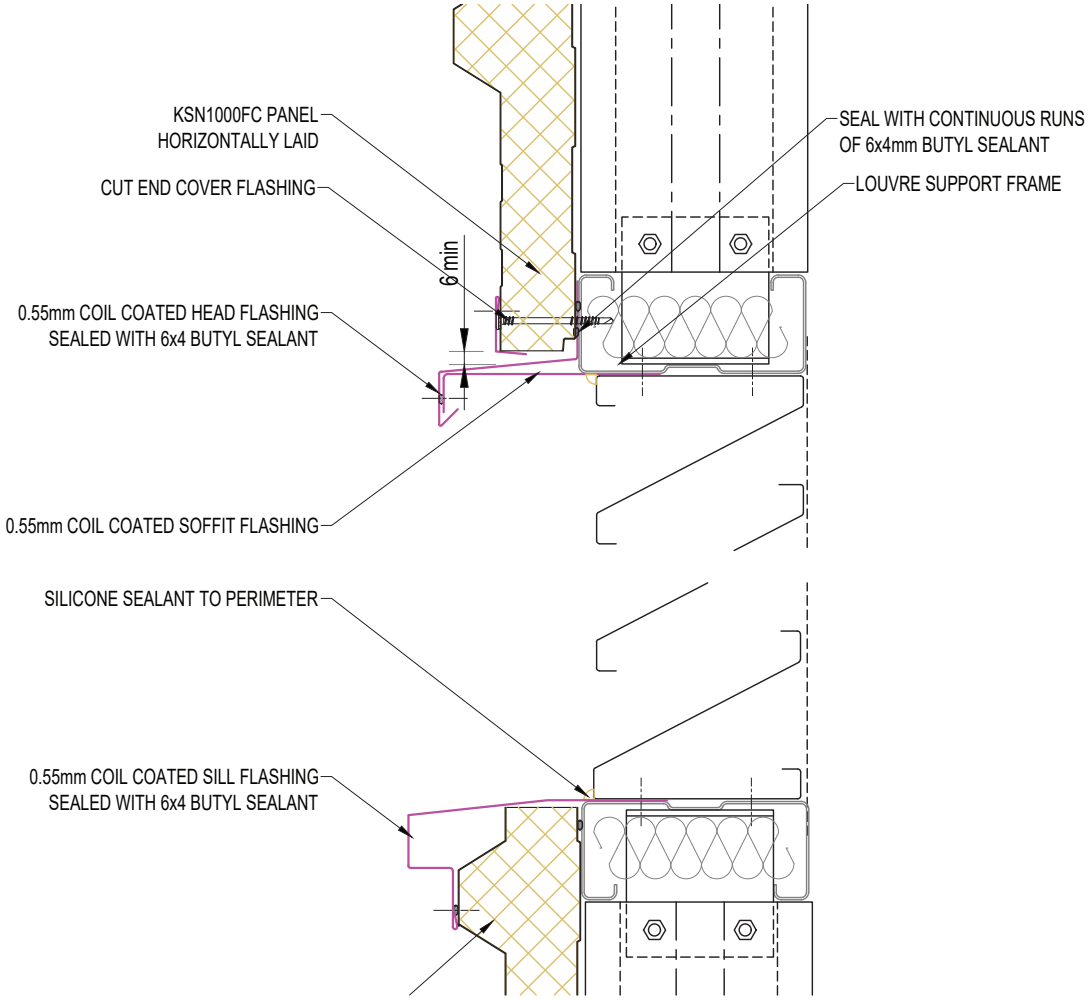

25b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION LOUVRE DETAIL		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_25	SCALE 1:5	PAPER SIZE A4

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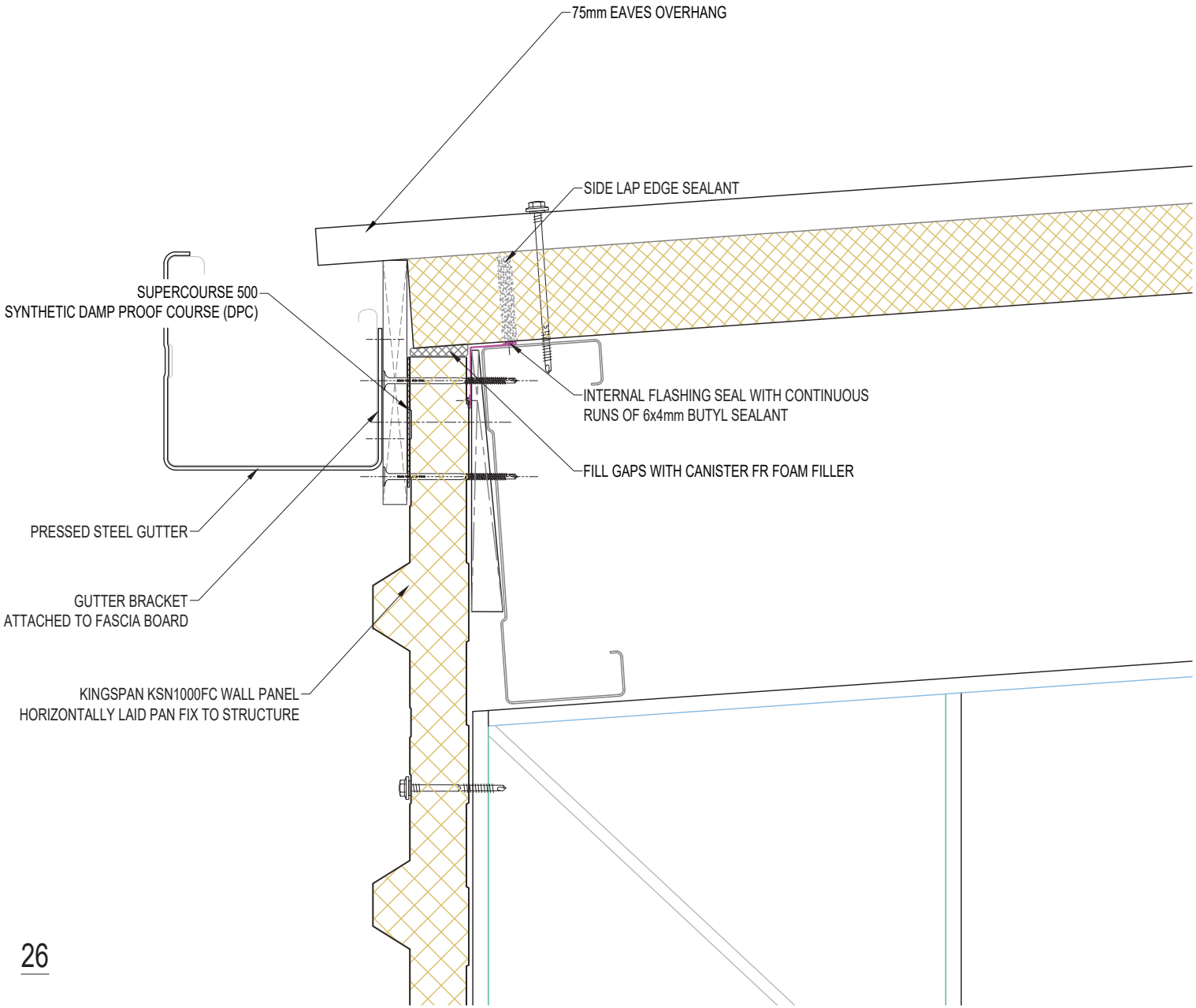
EAVES GUTTER DETAIL



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_26	SCALE 1:5		PAPER SIZE A4

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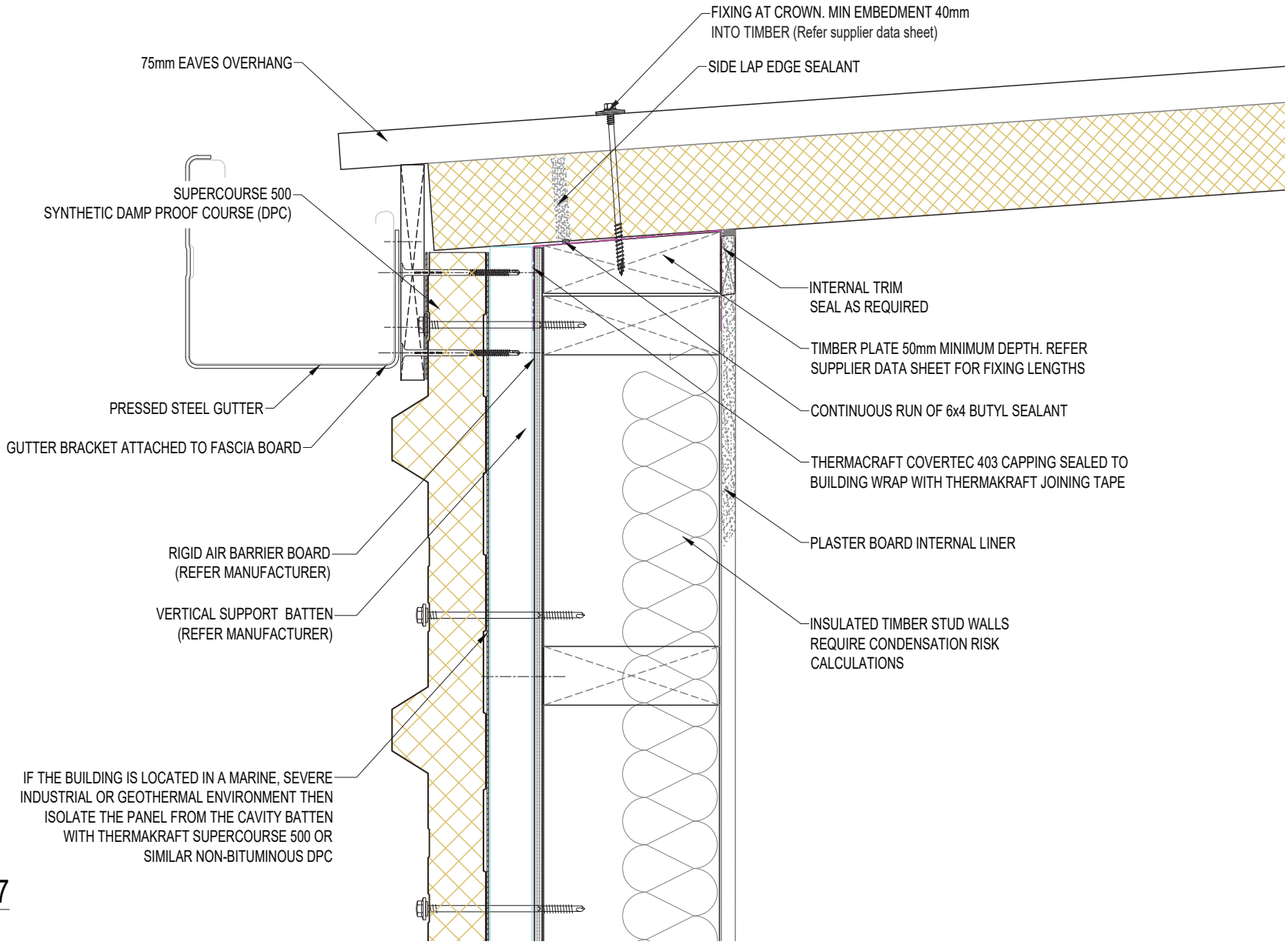
EAVES GUTTER DETAIL - RAB BOARD



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL - RAB BOARD			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_27	SCALE 1:5		PAPER SIZE A4

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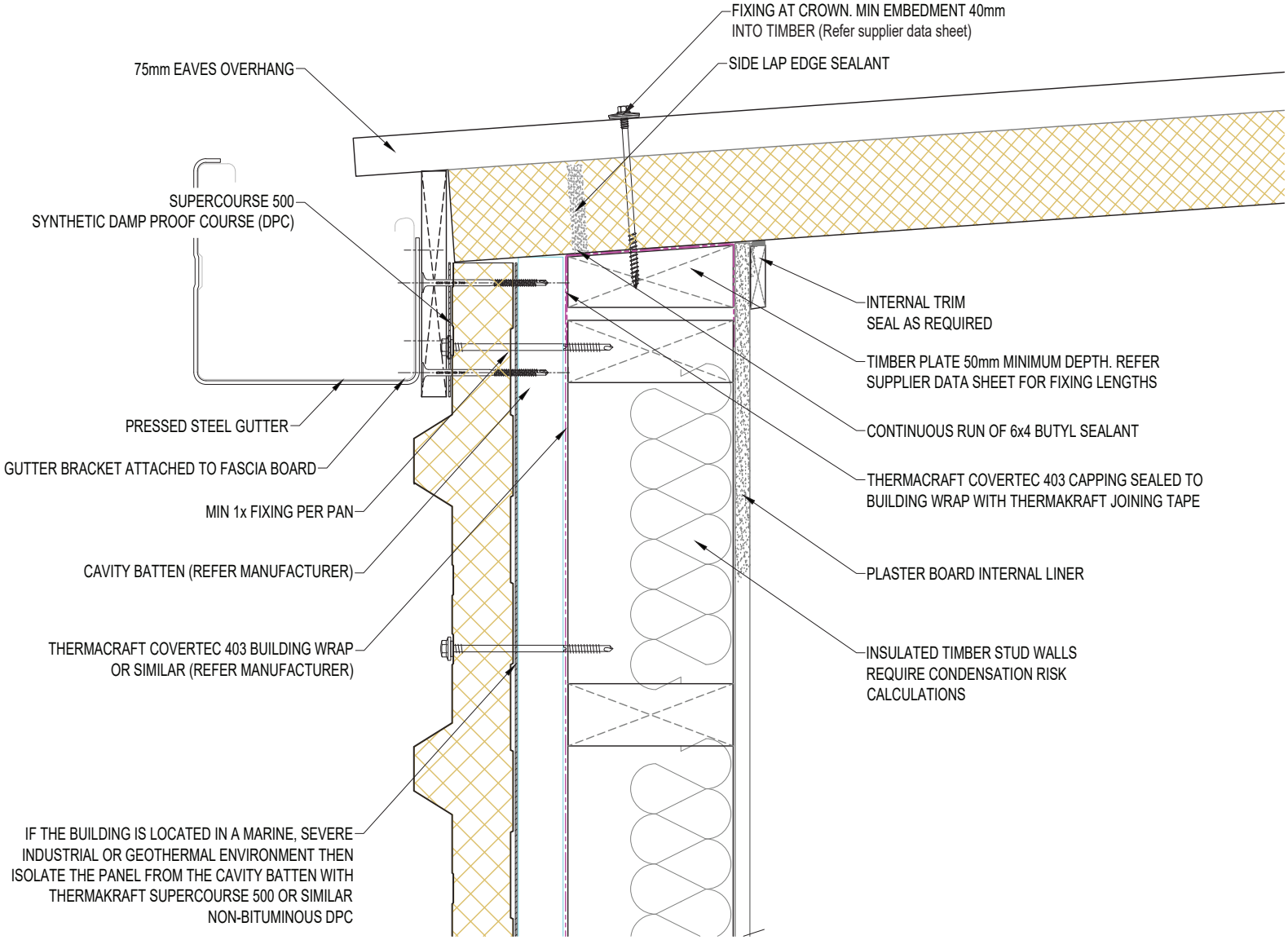
EAVES GUTTER DETAIL - BUILDING WRAP



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION EAVES GUTTER DETAIL - BUILDING WRAP			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_28	SCALE 1:5		PAPER SIZE A4

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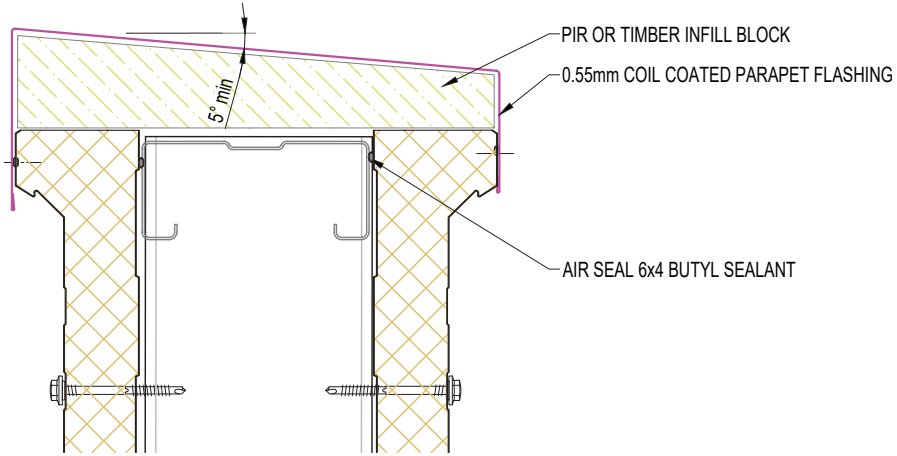
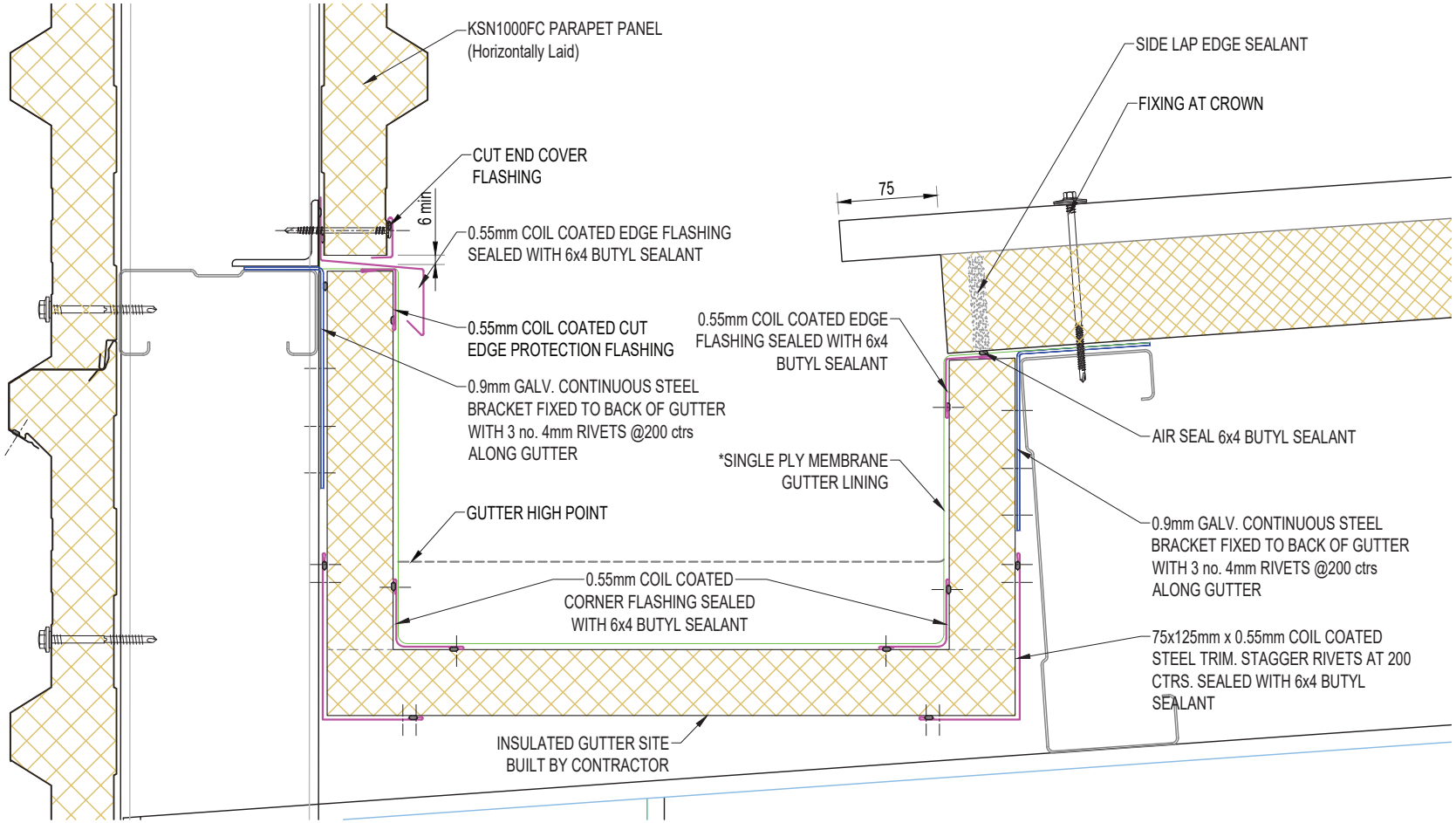
KS1100 CS GUTTER, KSN1000FC ROOF & HORIZONTAL PARAPET WALL

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





SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION KS1100 CS GUTTER, KSN1000FC ROOF & HORIZONTAL PARAPET WALL			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_29	SCALE 1:5		PAPER SIZE A4

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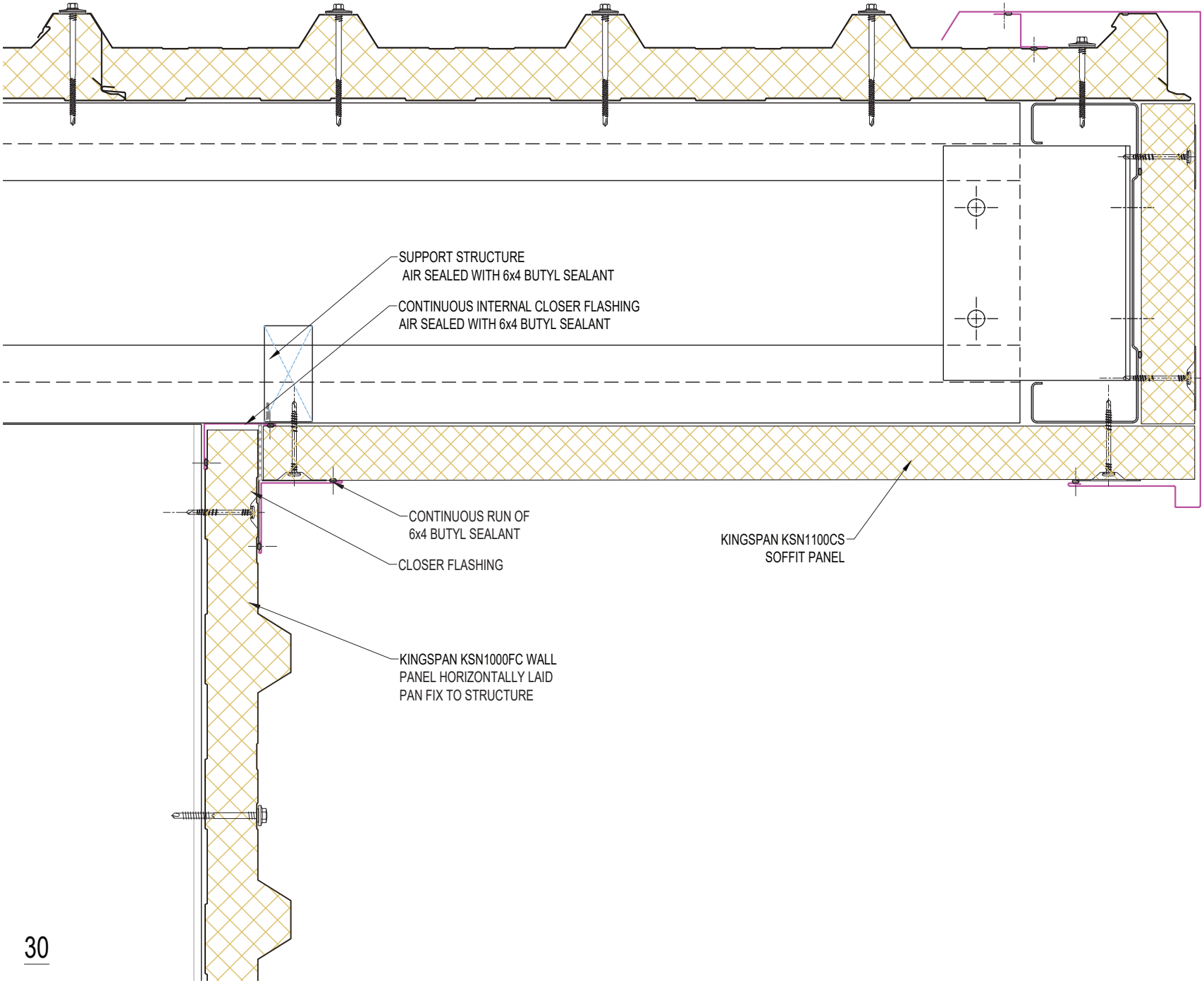
VERGE OVERHANG



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION VERGE OVERHANG			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
DRG REF: FC_HS_30	SCALE 1:5		PAPER SIZE A4

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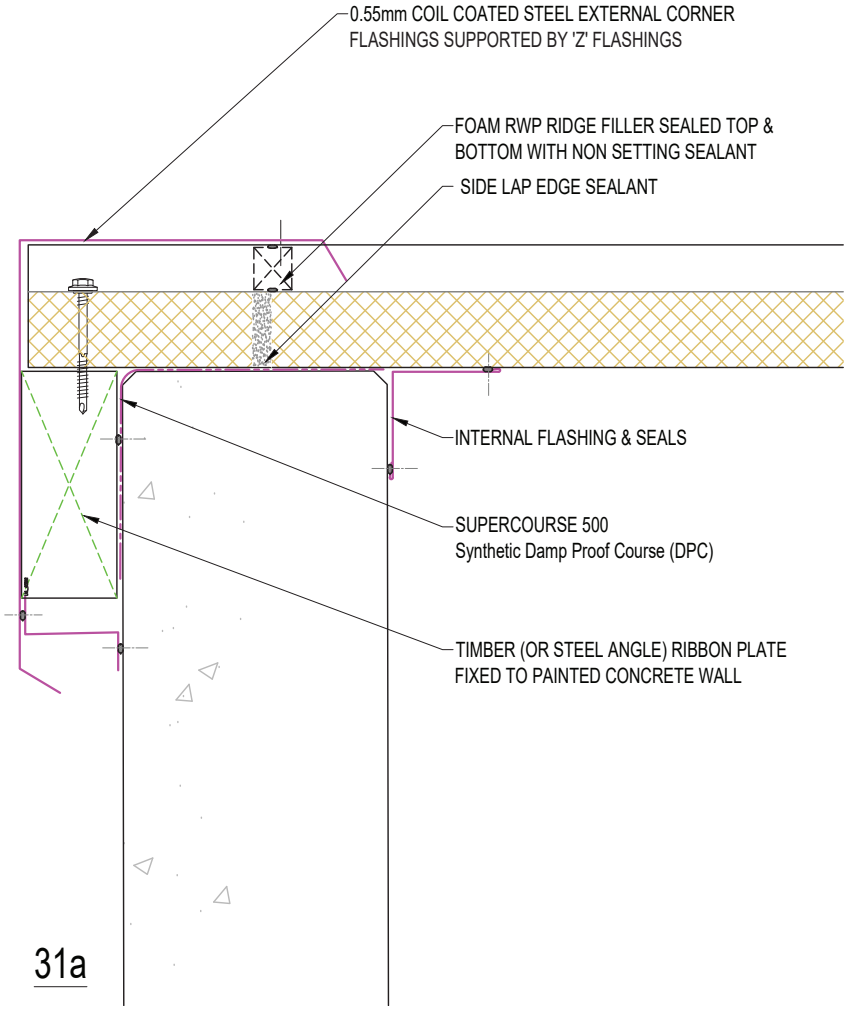
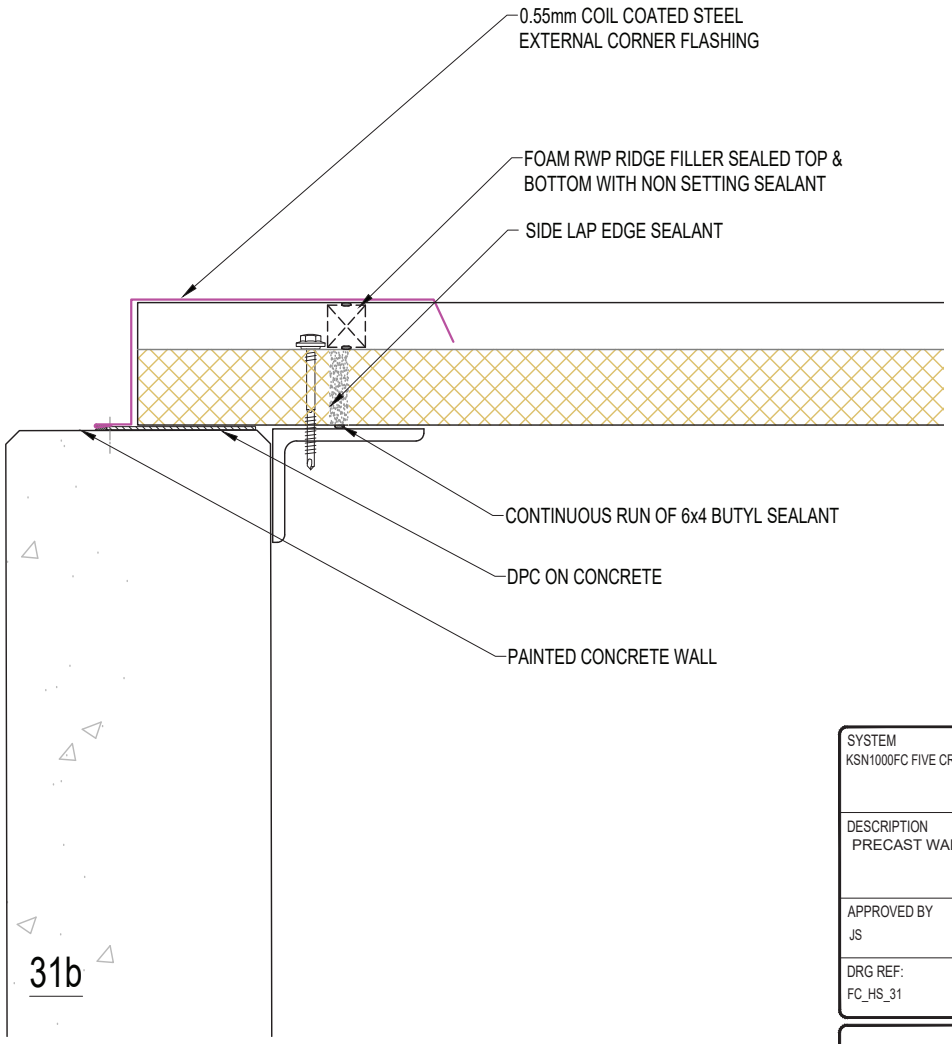
PRECAST WALL - EXTERNAL CORNER CAP



31a



31b

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION PRECAST WALL - EXTERNAL CORNER CAP			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
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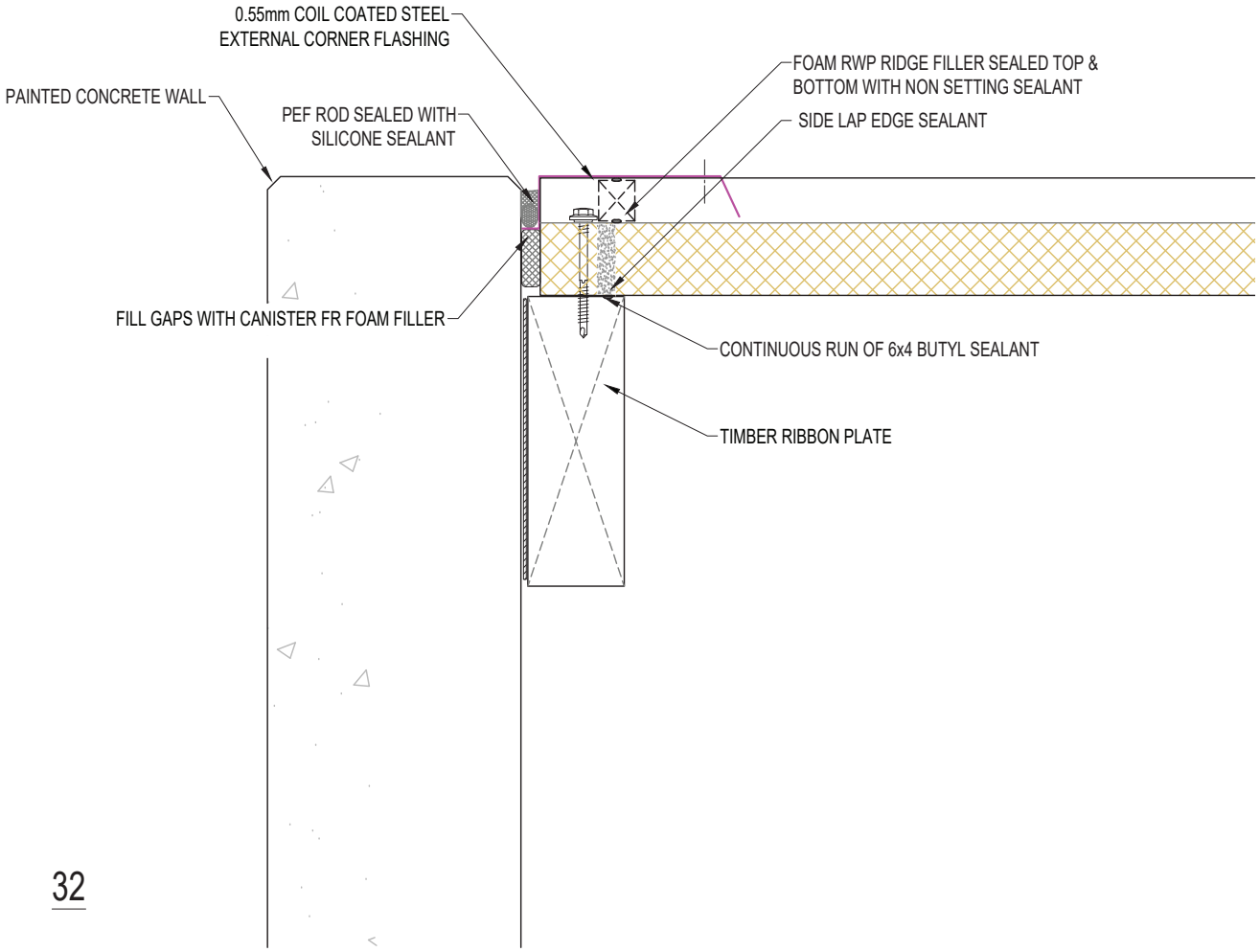
PRECAST WALL - EXTERNAL CORNER FLUSH



SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION PRECAST WALL - EXTERNAL CORNER FLUSH			
APPROVED BY JS	DATE 04.06.15		REVISION 2025
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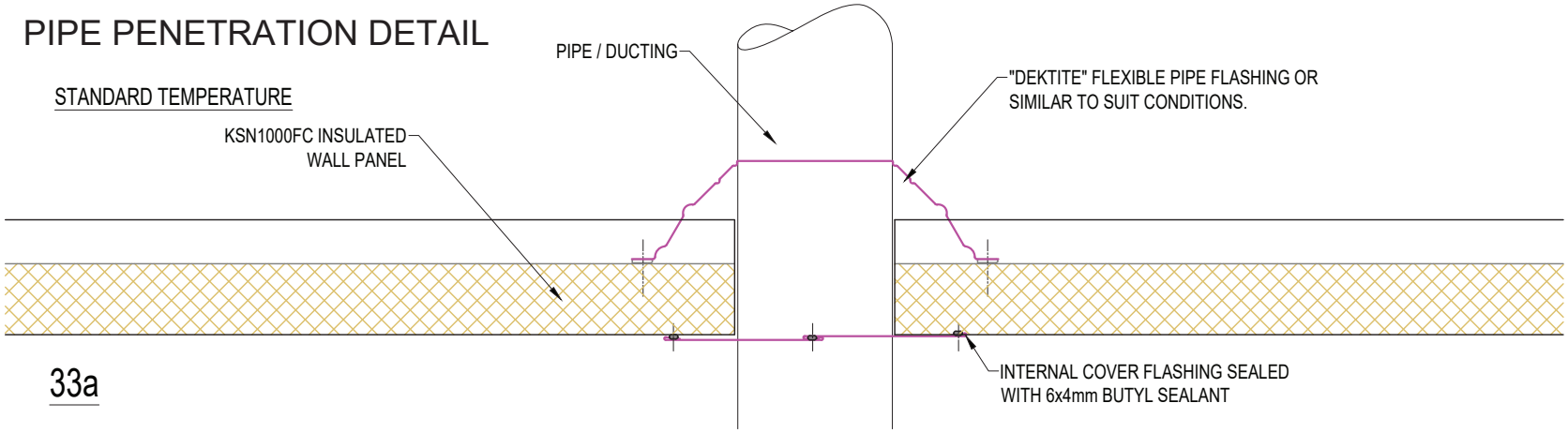
PIPE PENETRATION DETAIL

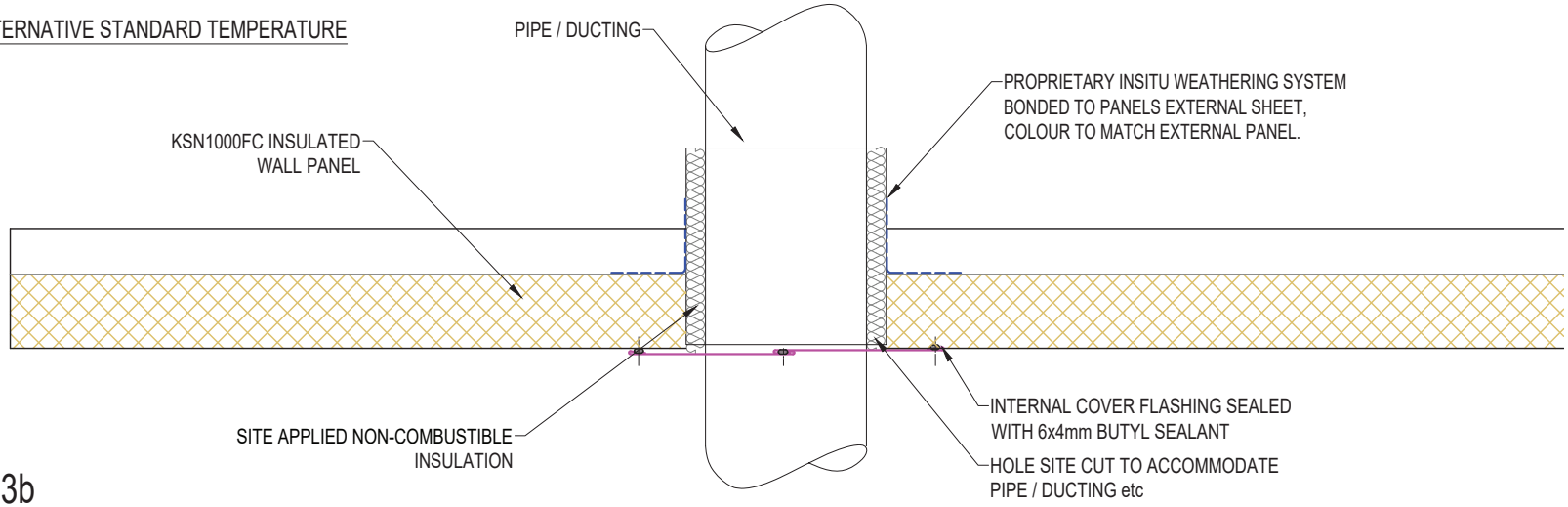
NOTE: MAXIMUM CIRCULAR HOLE SIZE TO BE 300mm. PENETRATIONS GREATER WILL REQUIRE ADDITIONAL SUPPORTING STEEL

STANDARD TEMPERATURE



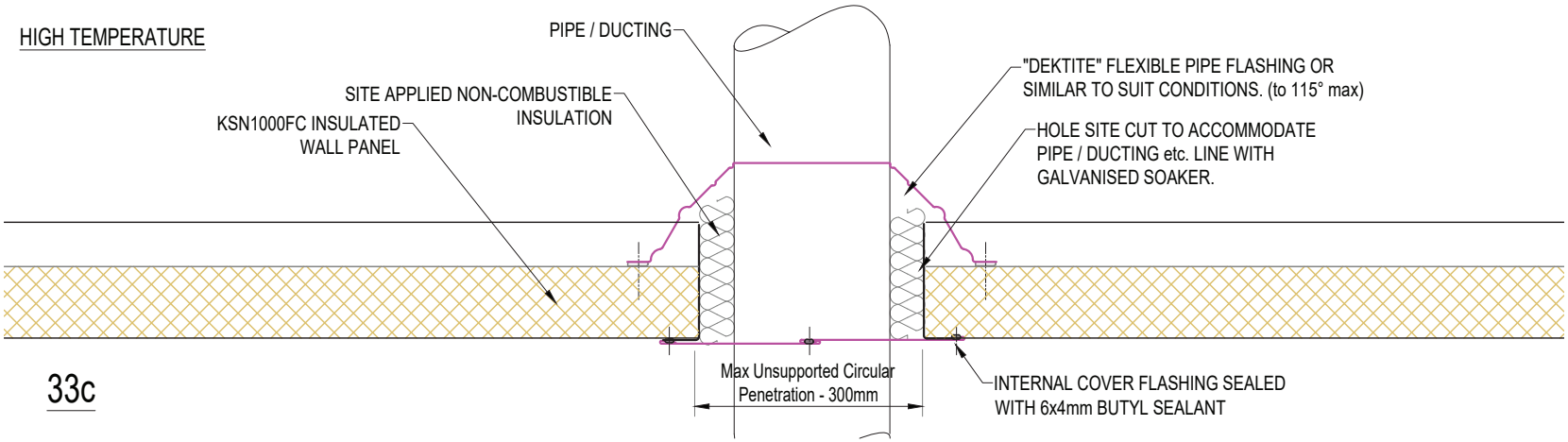
33a

ALTERNATIVE STANDARD TEMPERATURE



33b

HIGH TEMPERATURE



33c

SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL		
DESCRIPTION PIPE PENETRATION DETAIL		
APPROVED BY JS	DATE 04.06.15	REVISION 2025
DRG REF: FC_HS_33	SCALE 1:5	PAPER SIZE A4

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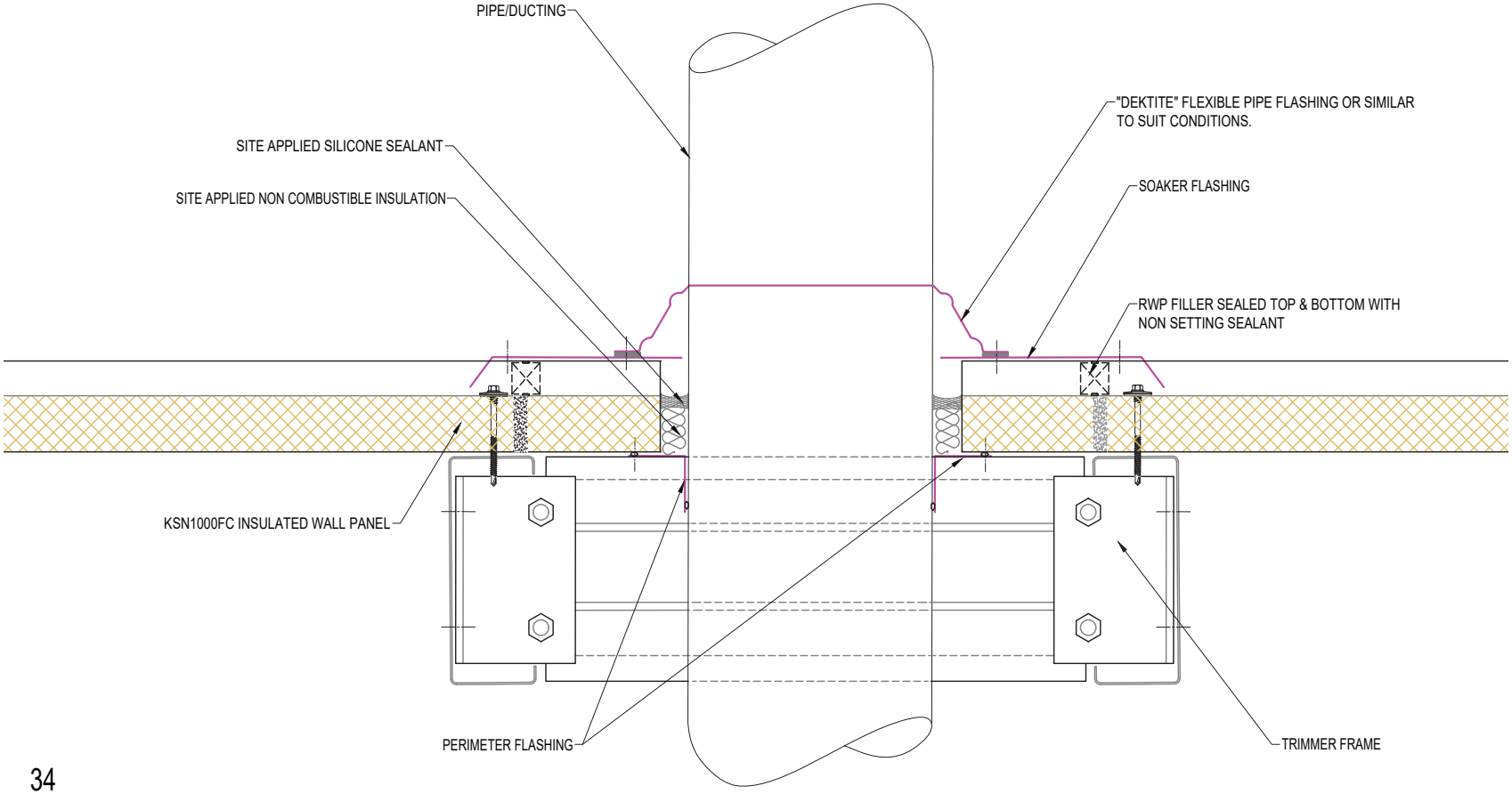
PIPE PENETRATION SUPPORT DETAIL

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



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SYSTEM KSN1000FC FIVE CROWN HORIZONTAL WALL PANEL			
DESCRIPTION PIPE PENETRATION SUPPORT DETAIL			
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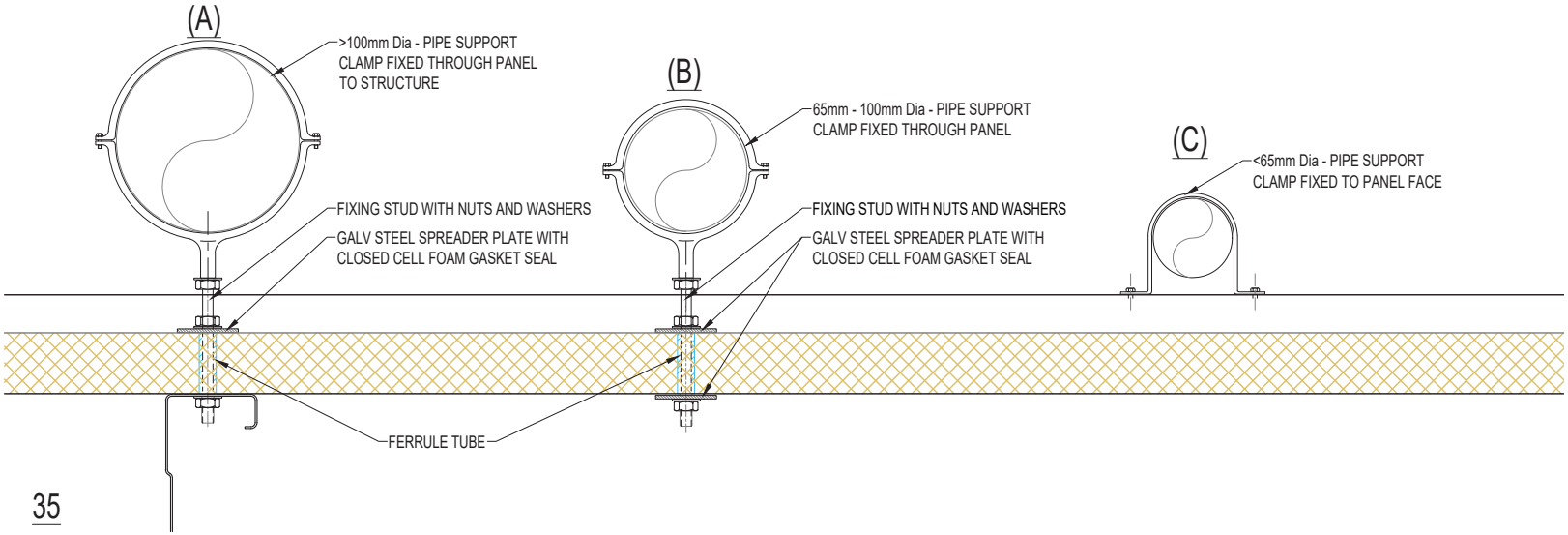
PIPE SUPPORT DETAIL HORIZ. SECTION

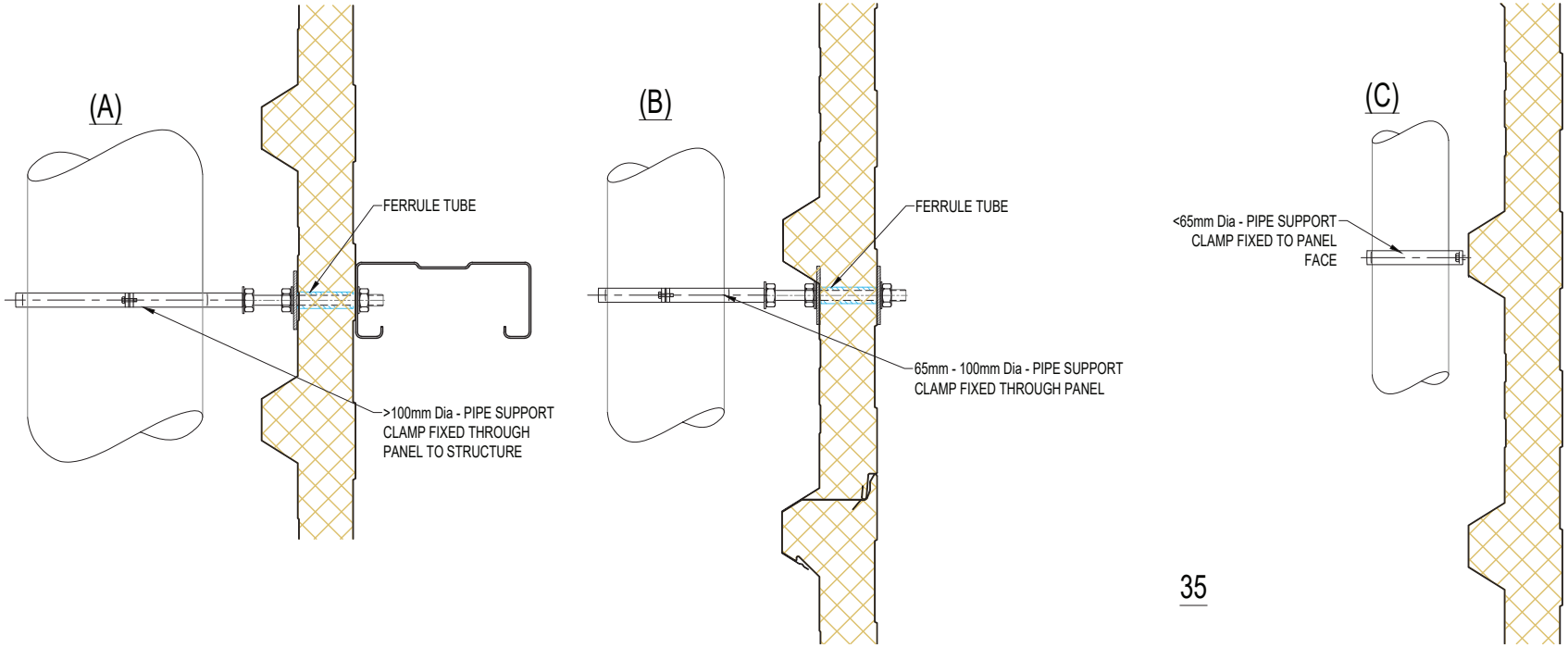


PIPE WEIGHTS ARE INDICATIVE ONLY.

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 HORIZONTAL WALL PANEL			
DESCRIPTION PIPE SUPPORT DETAIL HORIZ. SECTION			
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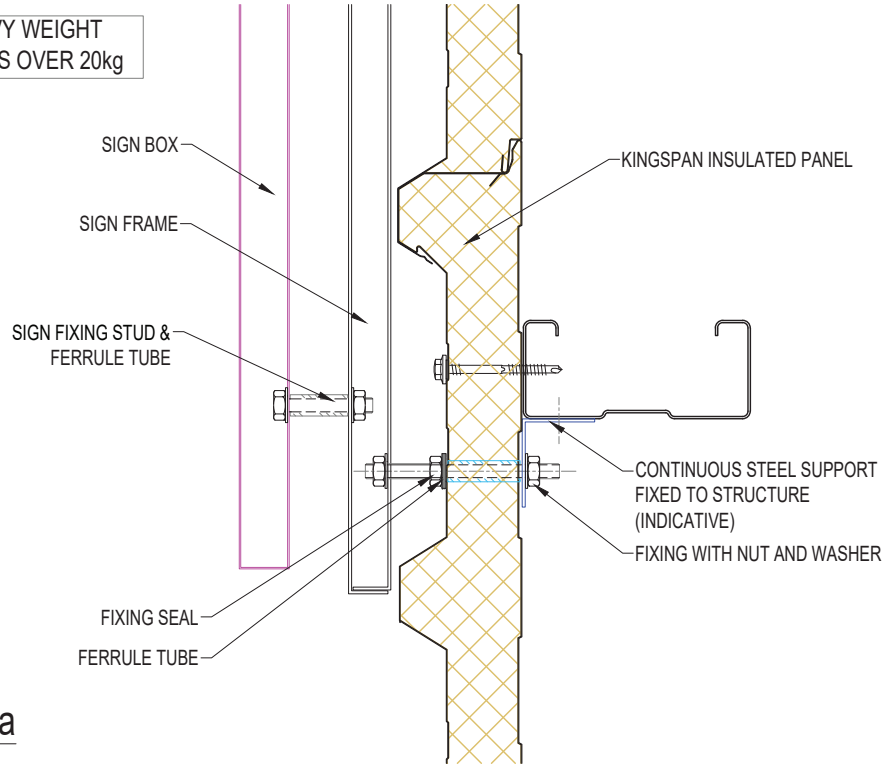
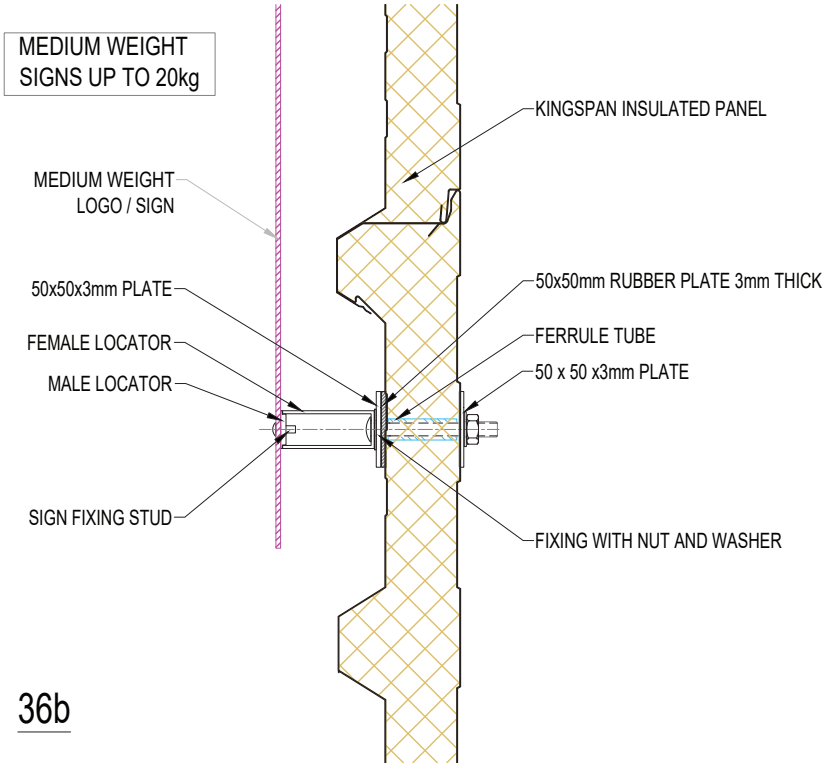
SIGNAGE SUPPORT DETAILS VERT. SECTION

HEAVY WEIGHT
SIGNS OVER 20kg



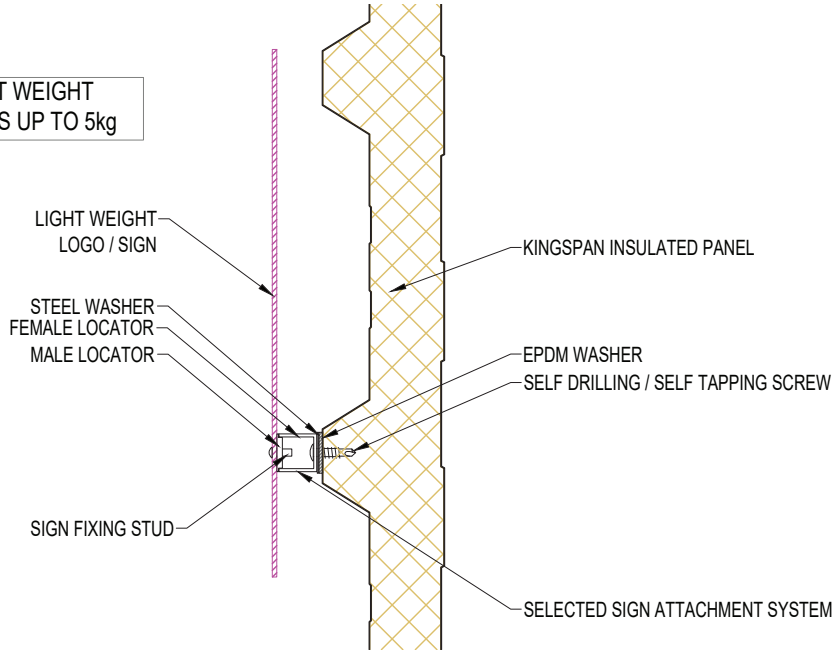
36a

MEDIUM WEIGHT
SIGNS UP TO 20kg



36b

LIGHT WEIGHT
SIGNS UP TO 5kg



36c

SIGN WEIGHTS ARE INDICATIVE ONLY.

FOR LIGHT 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 HORIZONTAL WALL PANEL			
DESCRIPTION SIGNAGE SUPPORT DETAILS VERT. SECTION			
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