

KS1000RW ROOF PANEL DWG LIST

FILE - KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023					
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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 KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW ROOF PANEL DWG LIST		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_01	SCALE 1	PAPER SIZE A4

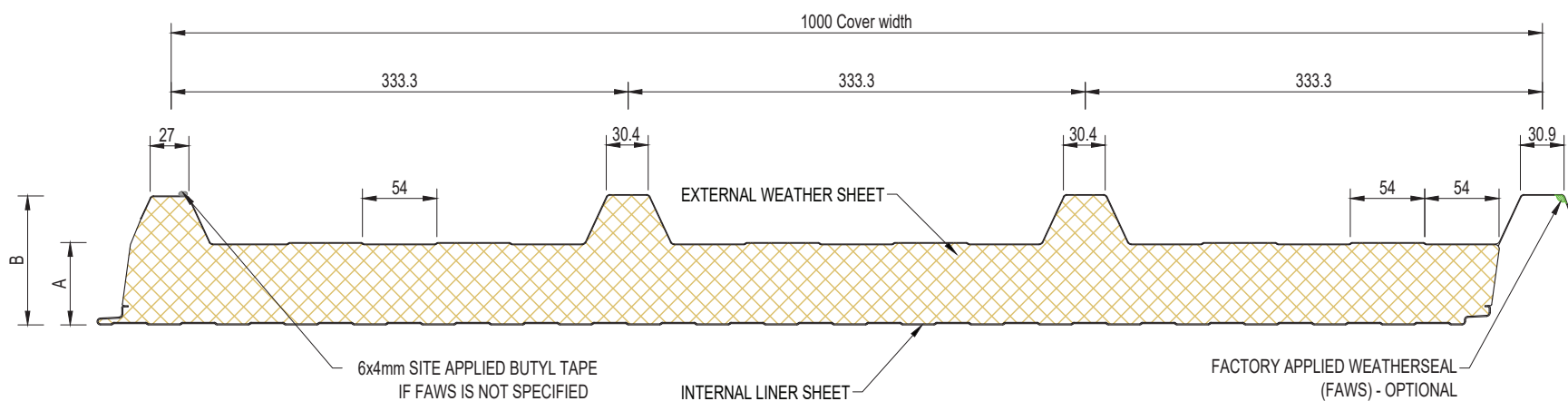
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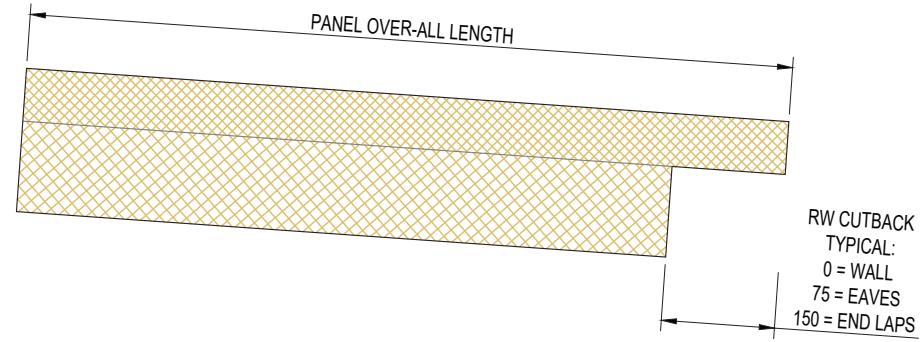
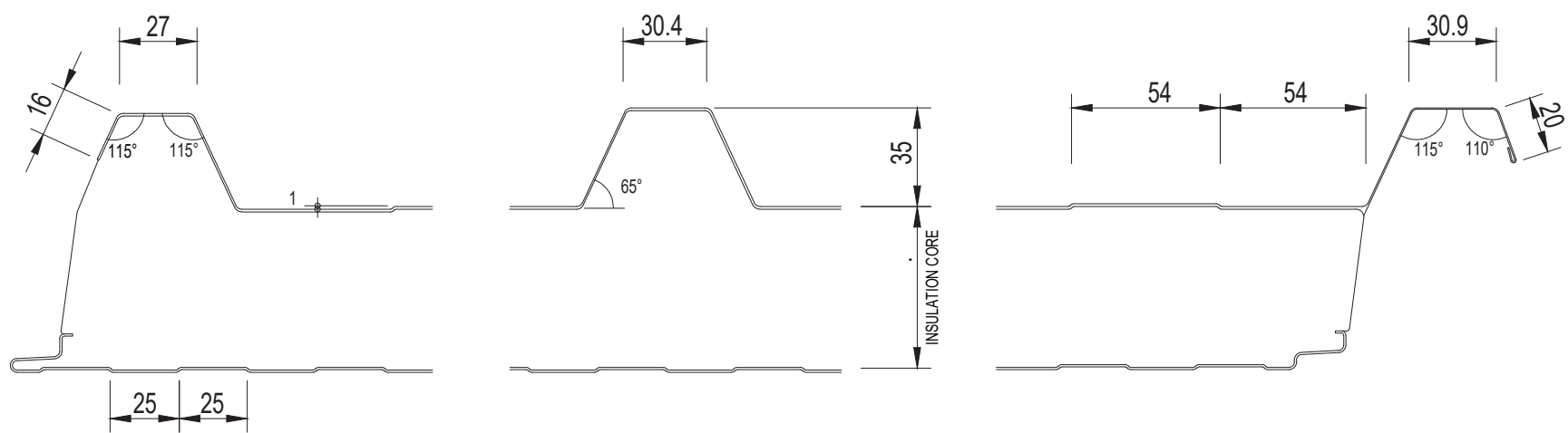


KS1000RW TRAPEZOIDAL ROOF PANEL PROFILE DIMENSIONS

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%
Squareness	≤0.6% of width



A - CORE THICKNESS (MM)	40	60	70	100	120	140
B - OVERALL DIMS (MM)	75	95	105	135	155	175

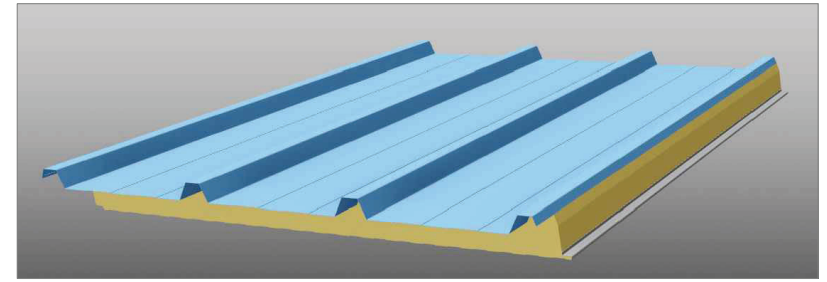
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL ROOF PANEL PROFILE DIMENSIONS		
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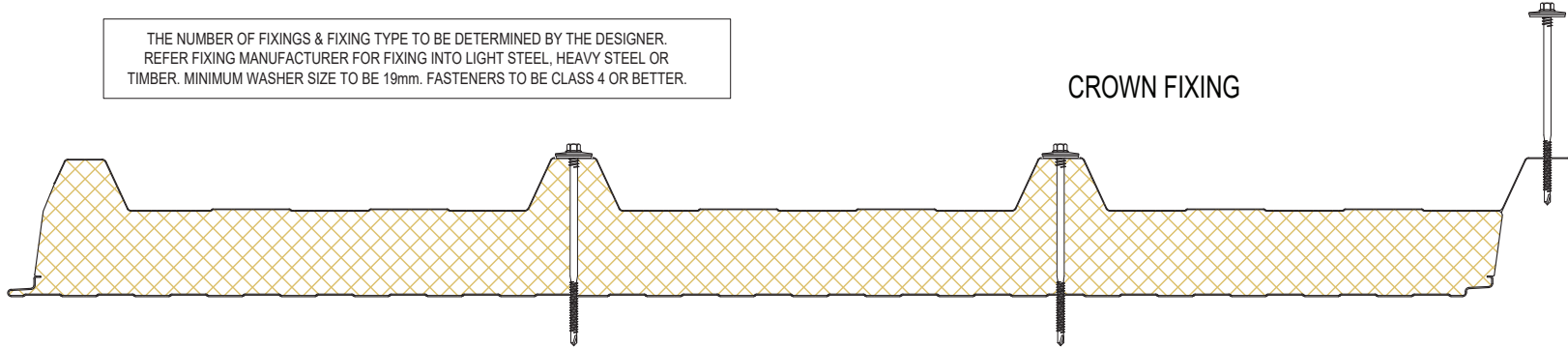
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KS1000RW TRAPEZOIDAL ROOF PANEL PRIMARY FIXING LOCATIONS



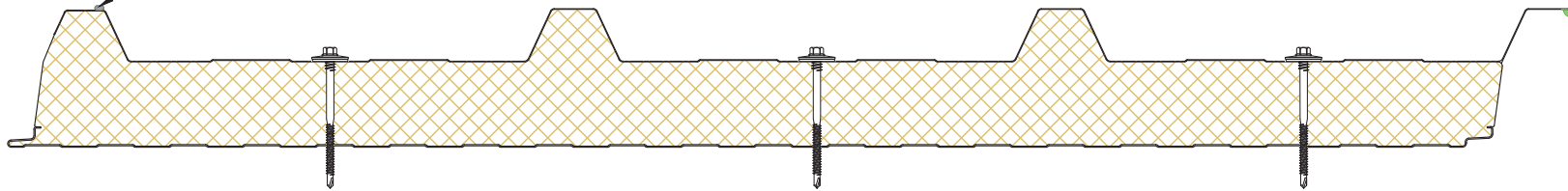
THE NUMBER OF FIXINGS & FIXING TYPE TO BE DETERMINED BY THE DESIGNER.
REFER FIXING MANUFACTURER FOR FIXING INTO LIGHT STEEL, HEAVY STEEL OR
TIMBER. MINIMUM WASHER SIZE TO BE 19mm. FASTENERS TO BE CLASS 4 OR BETTER.

CROWN FIXING

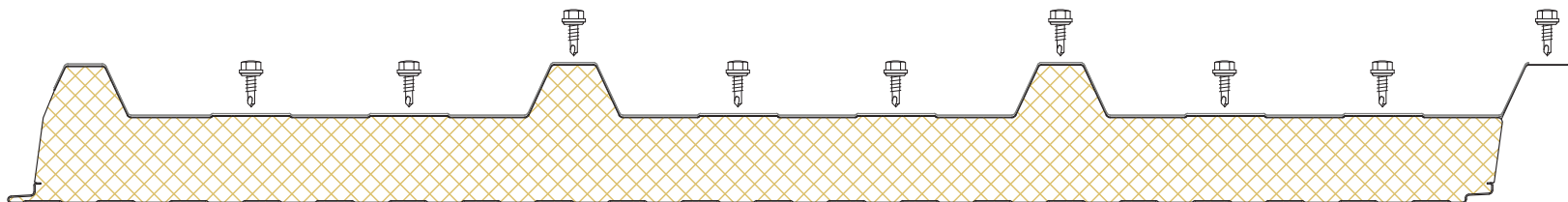


6x4mm SITE APPLIED BUTYL TAPE
IF FAWS IS NOT SPECIFIED

VALLEY FIXING
(AT RIDGE CAP AND APRON FLASHING LOCATIONS)



END LAP STITCHING SCREWS



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW TRAPEZOIDAL ROOF PANEL PRIMARY FIXING LOCATIONS			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_03	SCALE 1:5	--	PAPER SIZE A4

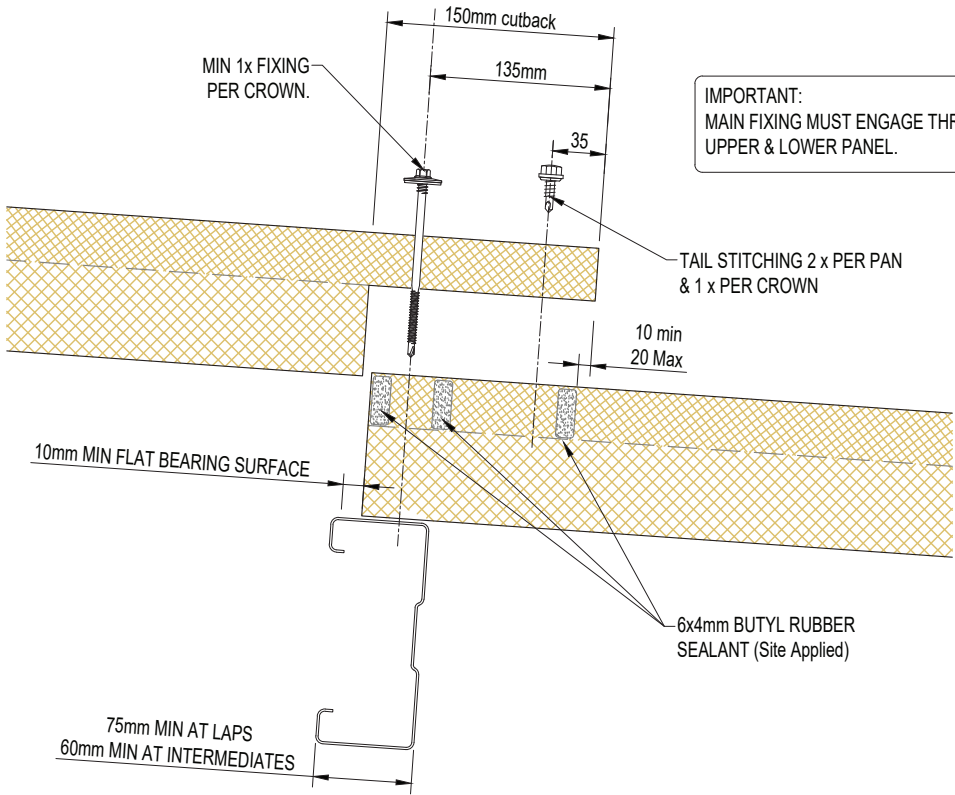
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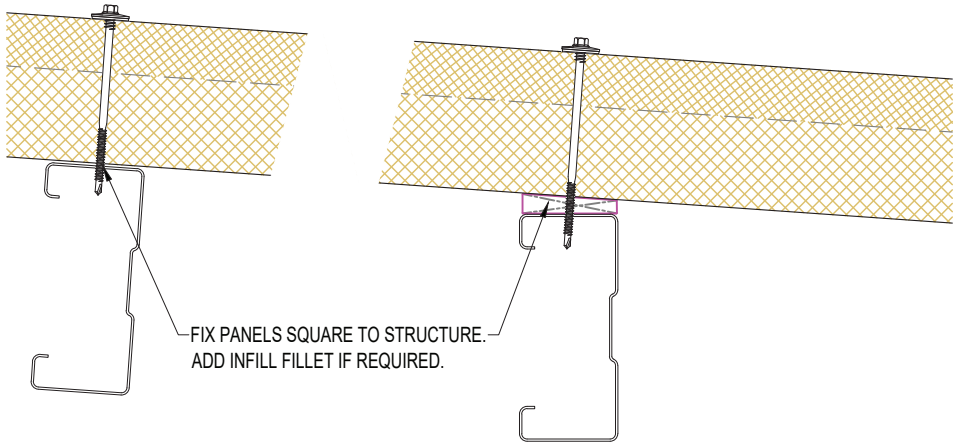
KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (LIGHT STEEL STRUCTURE)



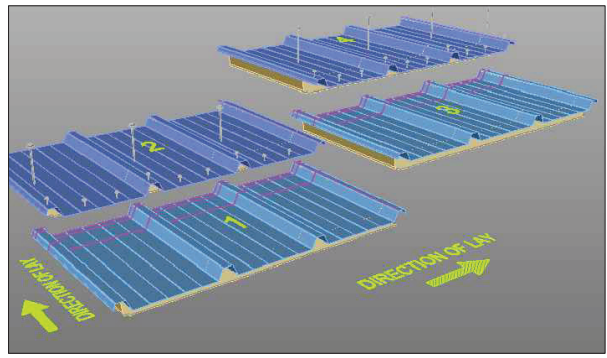
IMPORTANT:
MAIN FIXING MUST ENGAGE THROUGH BOTH UPPER & LOWER PANEL.

KINGSPAN DOES NOT RECOMMEND BACK LAYING OF PANELS.
CHECK CONSTRUCTION PROGRAMME BEFORE ORDERING PANEL LAY DIRECTION

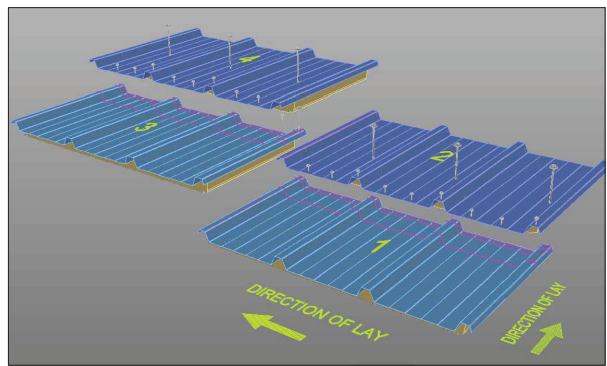
NOTE:
COLD ROLLED STEEL STRUCTURE SHOWN
TIMBER OR HOT ROLLED STEEL MAY BE SUBSTITUTED



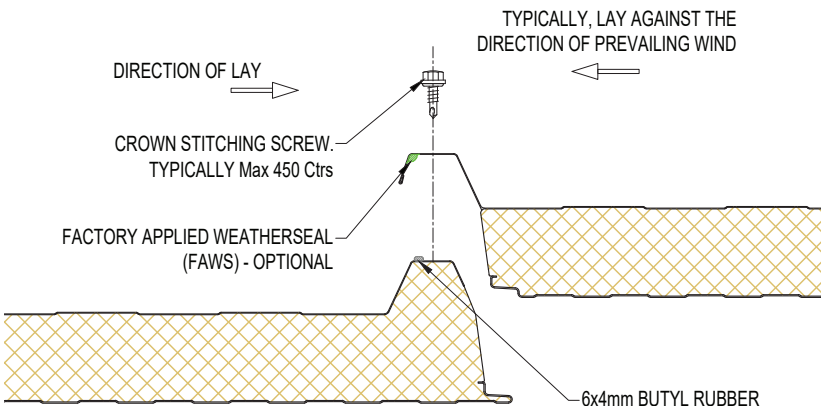
KS1000RW 4-Way Panel Join.
Panels May be Ordered For Right to Left Lay or Left to Right Lay



Left to Right Lay



Right to Left Lay



LEFT TO RIGHT LAY SHOWN

NOTE: TO ENSURE CORRECT PANEL INSTALLATION, ROOF PURLINS MUST BE CORRECTLY ALIGNED PRIOR TO INSTALLATION OF PANELS. END LAP PURLINS NEED TO BE TRUE & STRAIGHT

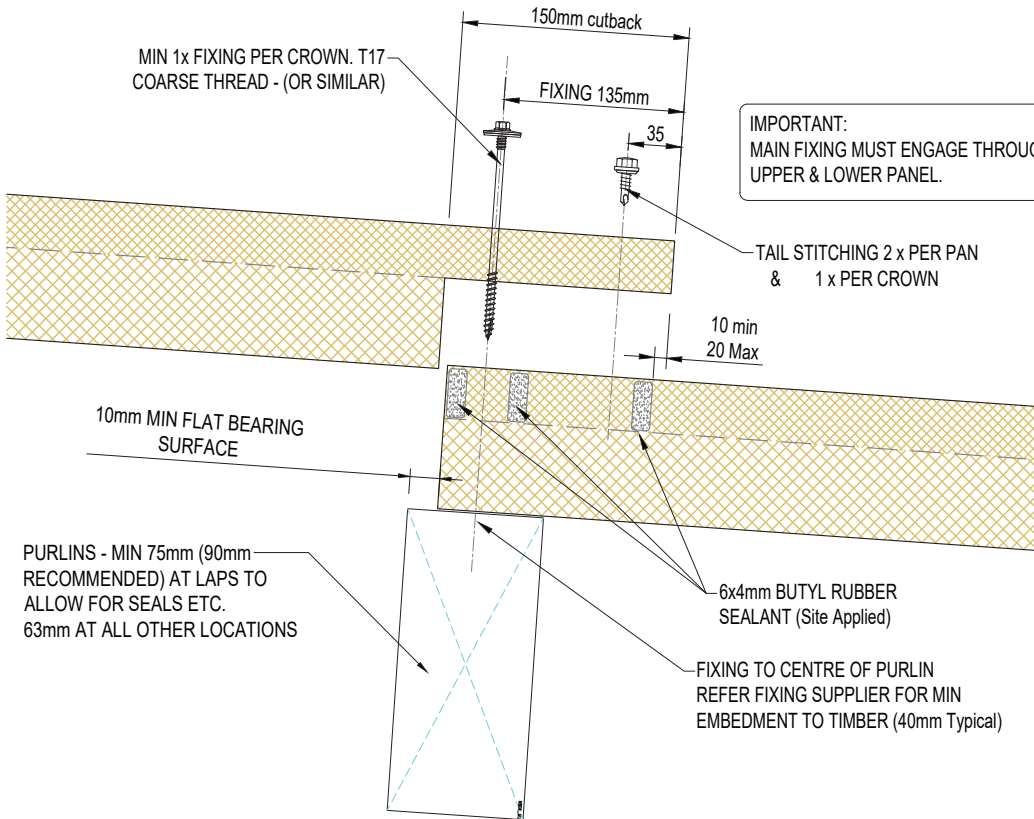
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (LIGHT STEEL STRUCTURE)		
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KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (TIMBER STRUCTURE)



PURLINS - MIN 75mm (90mm RECOMMENDED) AT LAPS TO ALLOW FOR SEALS ETC. 63mm AT ALL OTHER LOCATIONS

IMPORTANT:
MAIN FIXING MUST ENGAGE THROUGH BOTH UPPER & LOWER PANEL.

TAIL STITCHING 2 x PER PAN & 1 x PER CROWN

10 min
20 Max

10mm MIN FLAT BEARING SURFACE

6x4mm BUTYL RUBBER SEALANT (Site Applied)

FIXING TO CENTRE OF PURLIN REFER FIXING SUPPLIER FOR MIN EMBEDMENT TO TIMBER (40mm Typical)

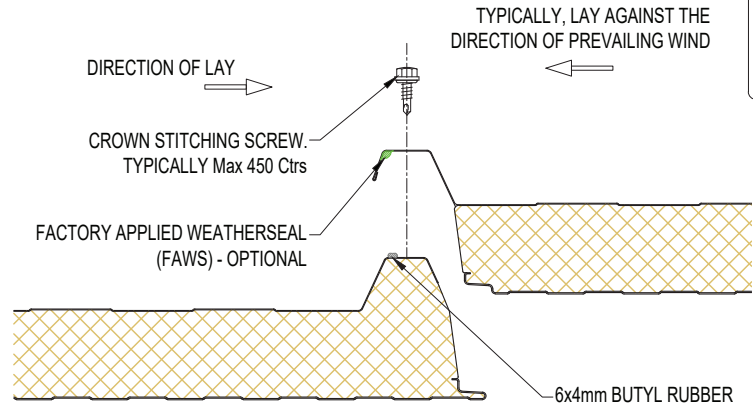
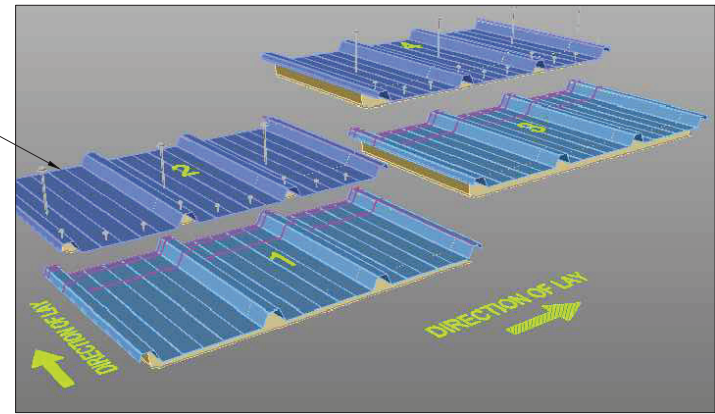
MIN 1x FIXING PER CROWN. FIXING TO CENTRE OF PURLIN REFER FIXING SUPPLIER FOR MIN EMBEDMENT TO TIMBER (40mm Typical)

KINGSPAN KS1000RW TRAPEZOIDAL ROOFING PANEL

PURLINS - MIN 63mm AT INTERMEDIATE PURLINS

Typ. 40mm Min. Embedment Refer Fastener Supplier

KS1000RW 4-Way Panel Join.
Left to Right Lay Shown.
Panels May be Ordered For Right to Left Lay



LEFT TO RIGHT LAY SHOWN

NOTE:
TIMBER STRUCTURE SHOWN
COLD ROLLED STEEL OR HOT ROLLED STEEL MAY BE SUBSTITUTED

NOTE: TO ENSURE CORRECT PANEL INSTALLATION, ROOF PURLINS MUST BE CORRECTLY ALIGNED PRIOR TO INSTALLATION OF PANELS. END LAP PURLINS NEED TO BE TRUE & STRAIGHT

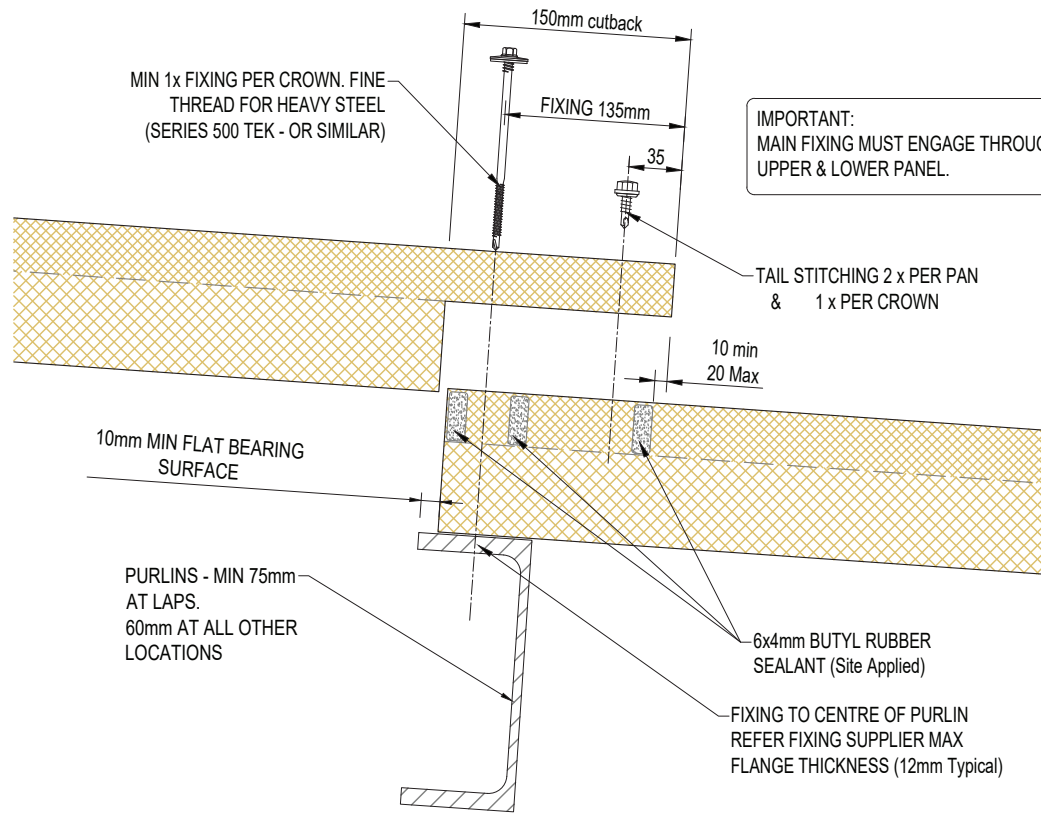
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (TIMBER STRUCTURE)		
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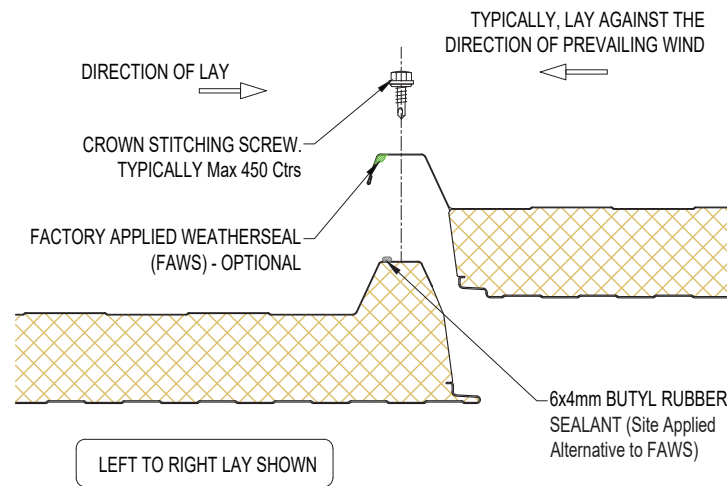
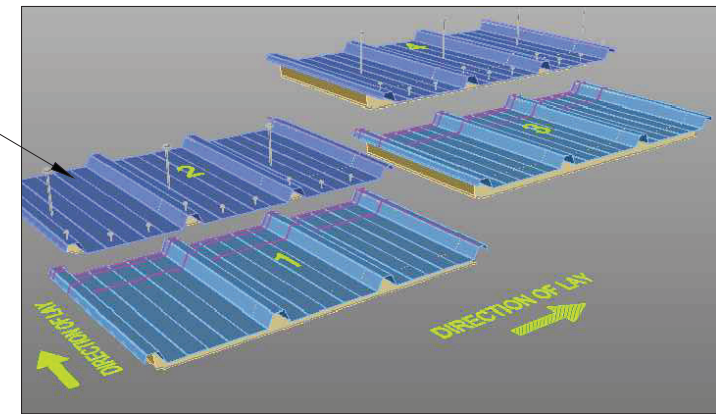
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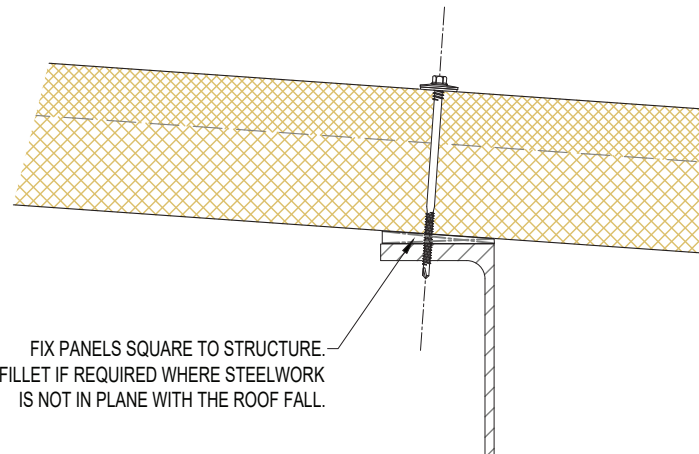
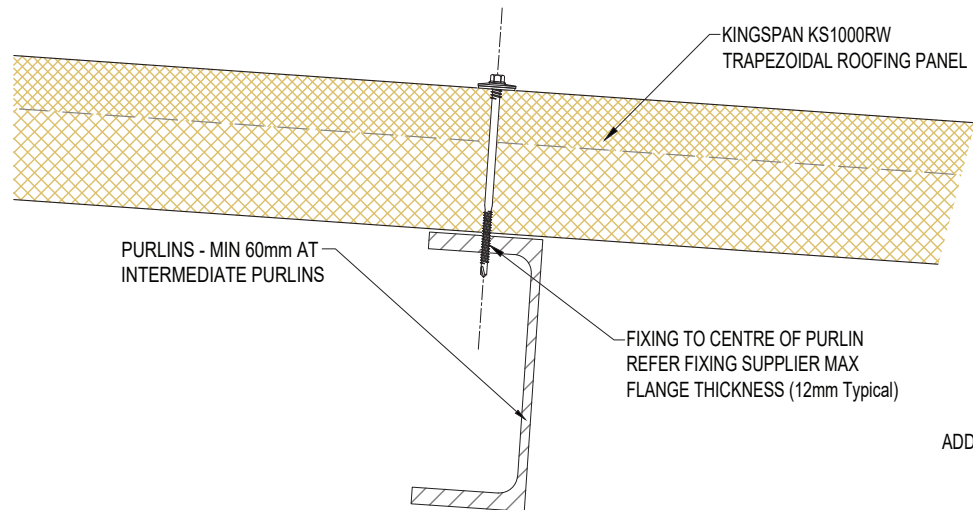
KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (HEAVY STEEL)



KS1000RW 4-Way Panel Join.
Left to Right Lay Shown.
Panels May be Ordered
For Right to Left Lay



NOTE:
HOT ROLLED STEEL STRUCTURE SHOWN
TIMBER OR COLD ROLLED STEEL MAY BE
SUBSTITUTED



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL ROOF PANEL LAP DETAILS (HEAVY STEEL)		
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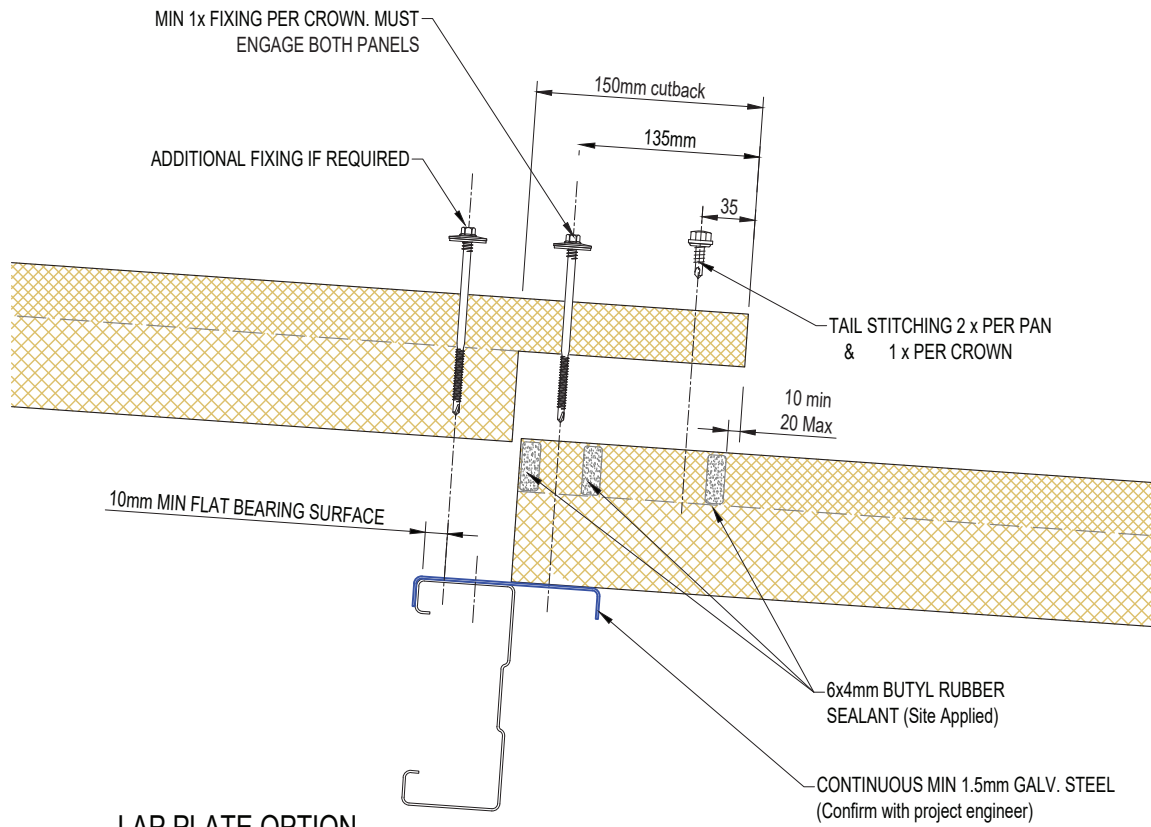
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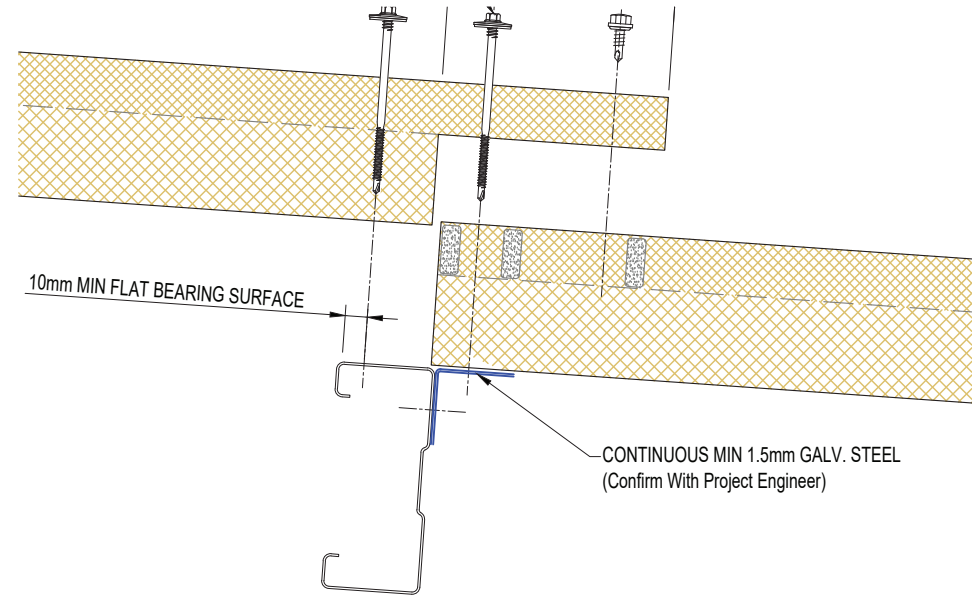
KS1000RW TRAPEZOIDAL PANEL LAP SUPPORT PLATE FOR MISALIGNED PURLINS

IMPORTANT:

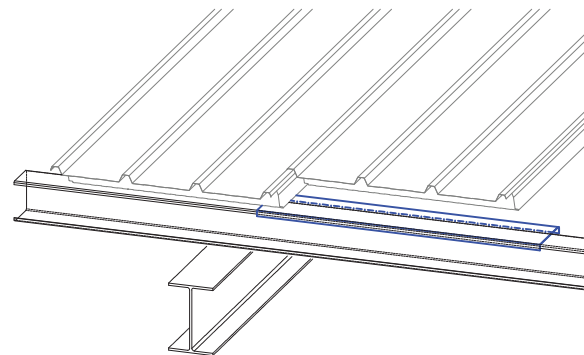
- MAIN FIXING MUST ENGAGE THROUGH BOTH UPPER & LOWER PANEL.
- DETAIL USED IF MINIMUM BEARING SURFACE HAS NOT BEEN ACHIEVED



LAP PLATE OPTION
 (FOR UNDER SIZE OR MISALIGNED PURLINS.
 PROJECT ENGINEER TO CONFIRM SIZE OF THE PLATE
 BASED ON SPANS / WIND LOADING)



ANGLE OPTION
 (FOR UNDER SIZE OR MISALIGNED PURLINS.
 PROJECT ENGINEER TO CONFIRM SIZE BASED ON SPANS / WIND LOADING)



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL PANEL LAP SUPPORT PLATE FOR MISALIGNED PURLINS		
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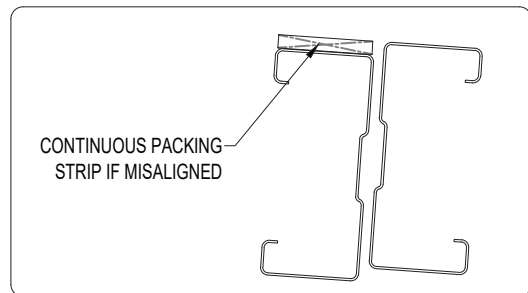
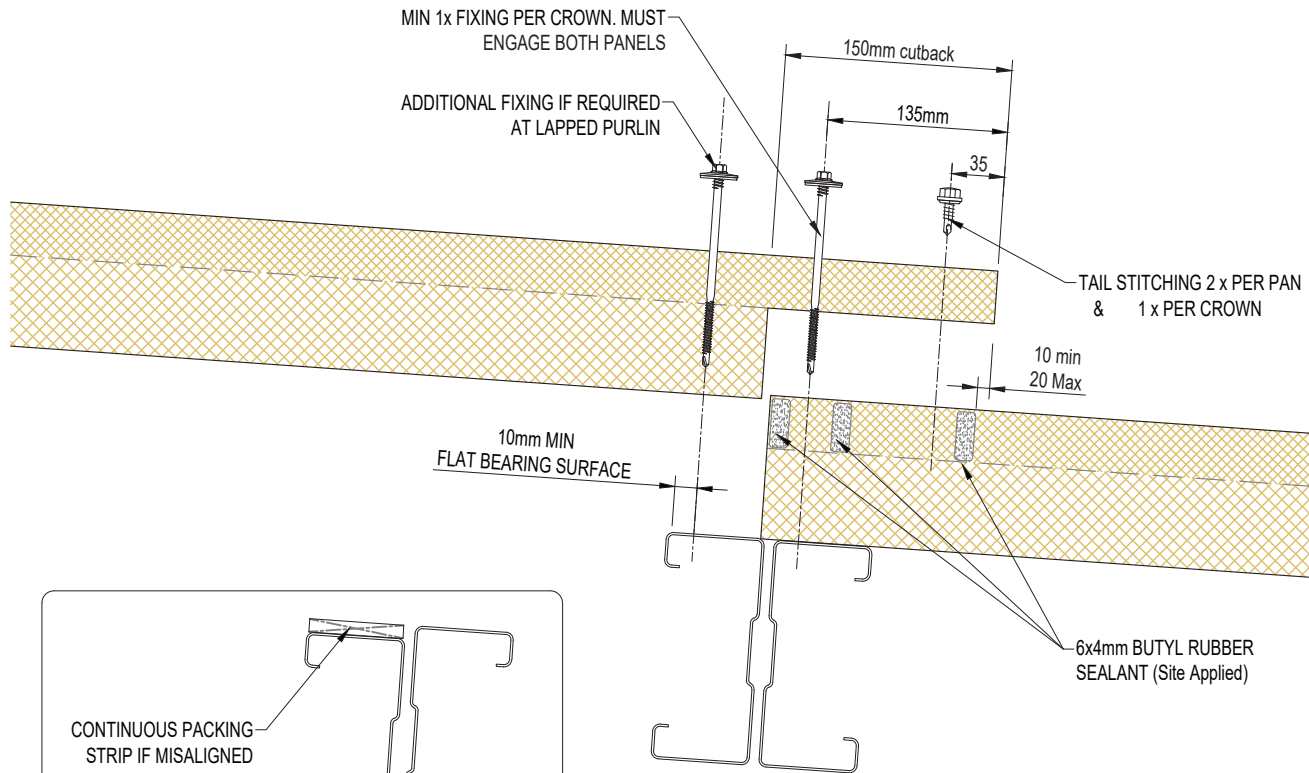
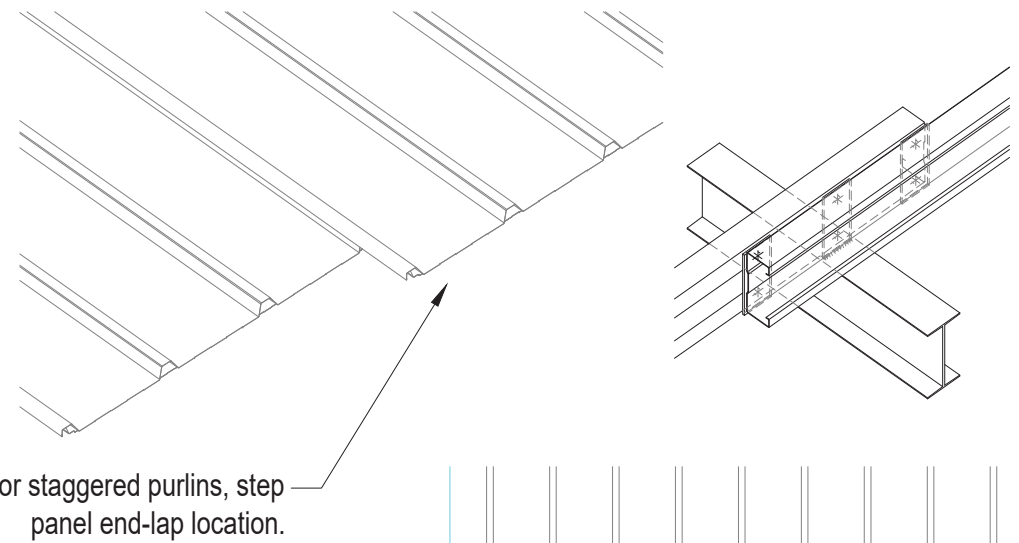


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KS1000RW TRAPEZOIDAL PANEL DOUBLE PURLIN OR LAPPED PURLIN

IMPORTANT:

- MAIN FIXING MUST ENGAGE THROUGH BOTH UPPER & LOWER PANEL.
- DETAIL USED IF MINIMUM BEARING SURFACE HAS NOT BEEN ACHIEVED WITH A SINGLE PURLIN OR PURLINS ARE STAGGERED
- FOR DOUBLE PURLINS, CONFIRM WITH THE PROJECT ENGINEER IF BOTH PURLINS NEED TO BE FIXED TO (TWO FIXINGS) OR ONLY TO A SINGLE PURLIN.



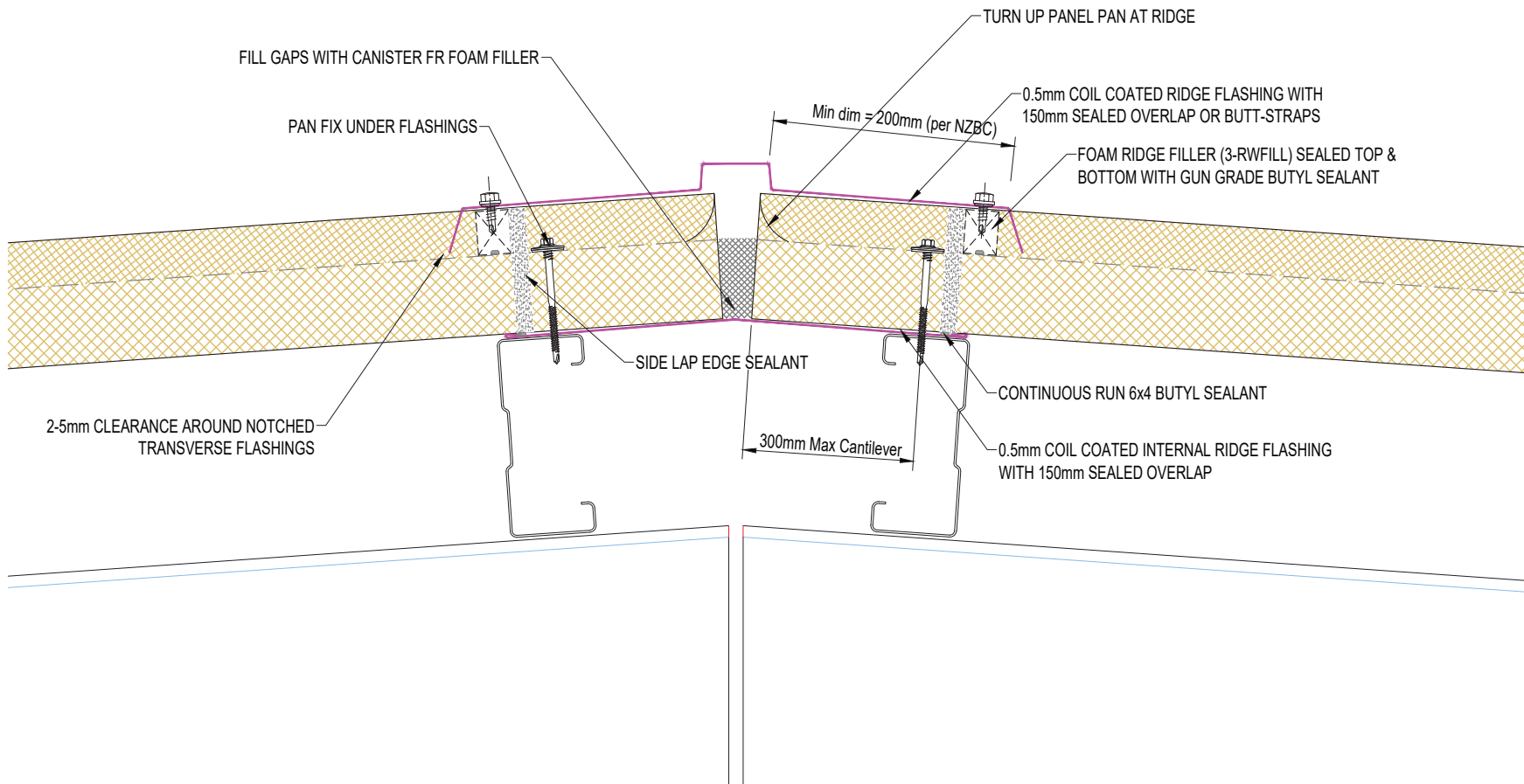
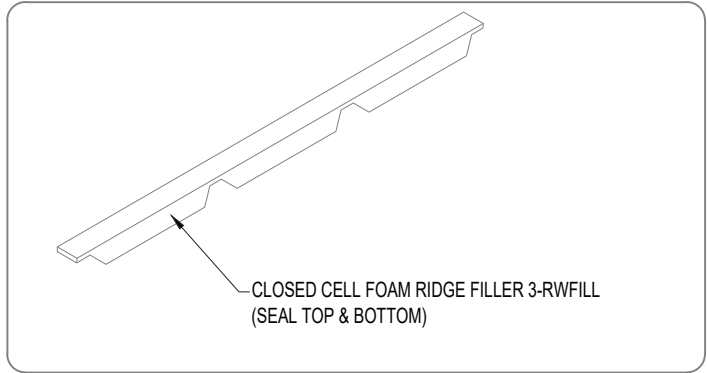
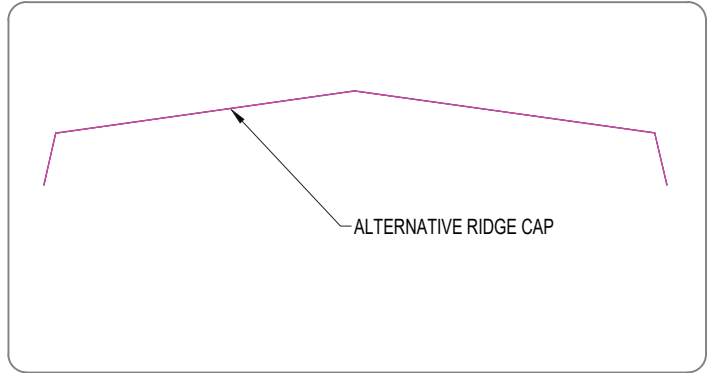
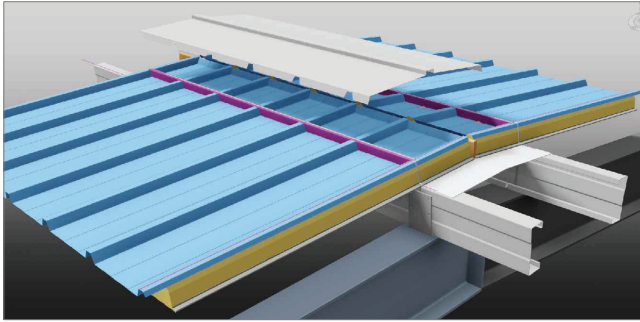
DOUBLE OR STAGGERED PURLIN OPTION AT THE PURLIN LAP LOCATION

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL PANEL DOUBLE PURLIN OR LAPPED PURLIN		
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KS1000RW TRAPEZOIDAL PANEL RIDGE DETAIL



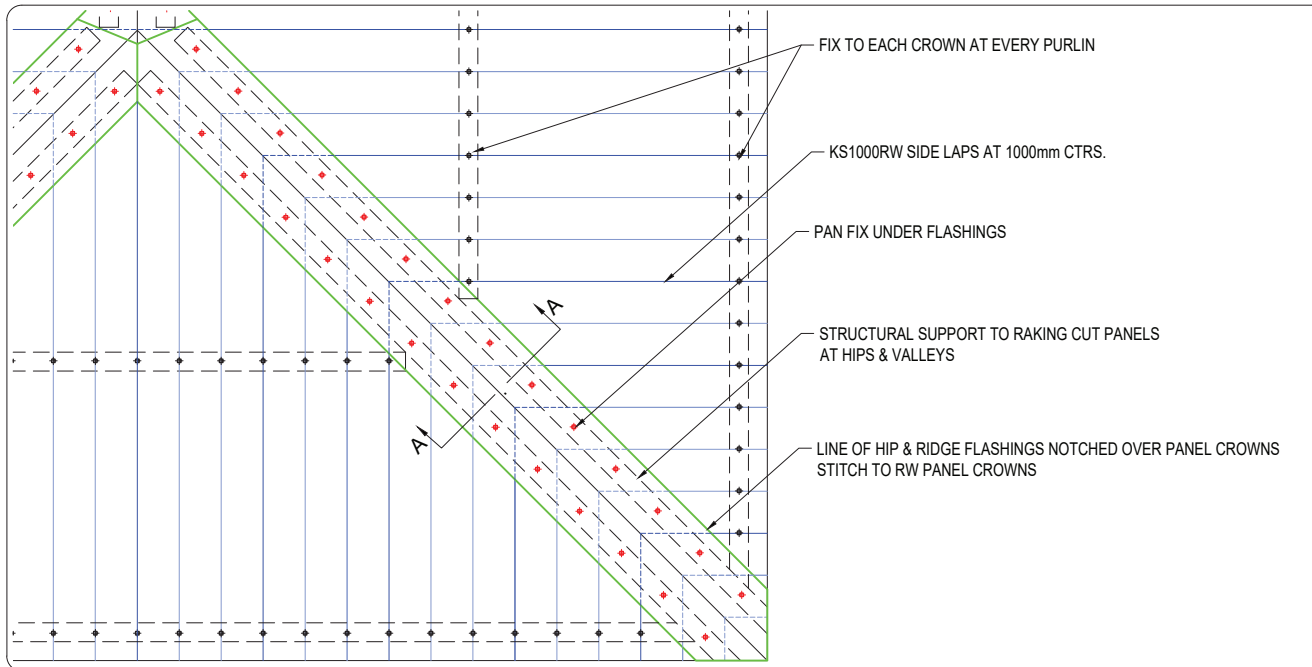
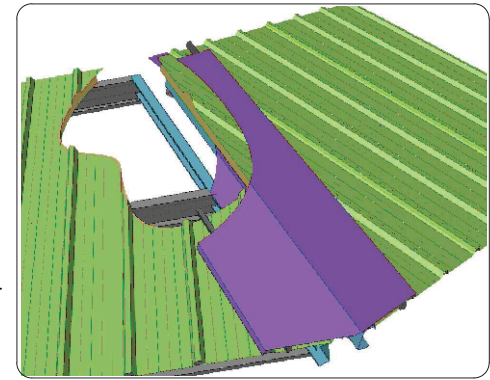
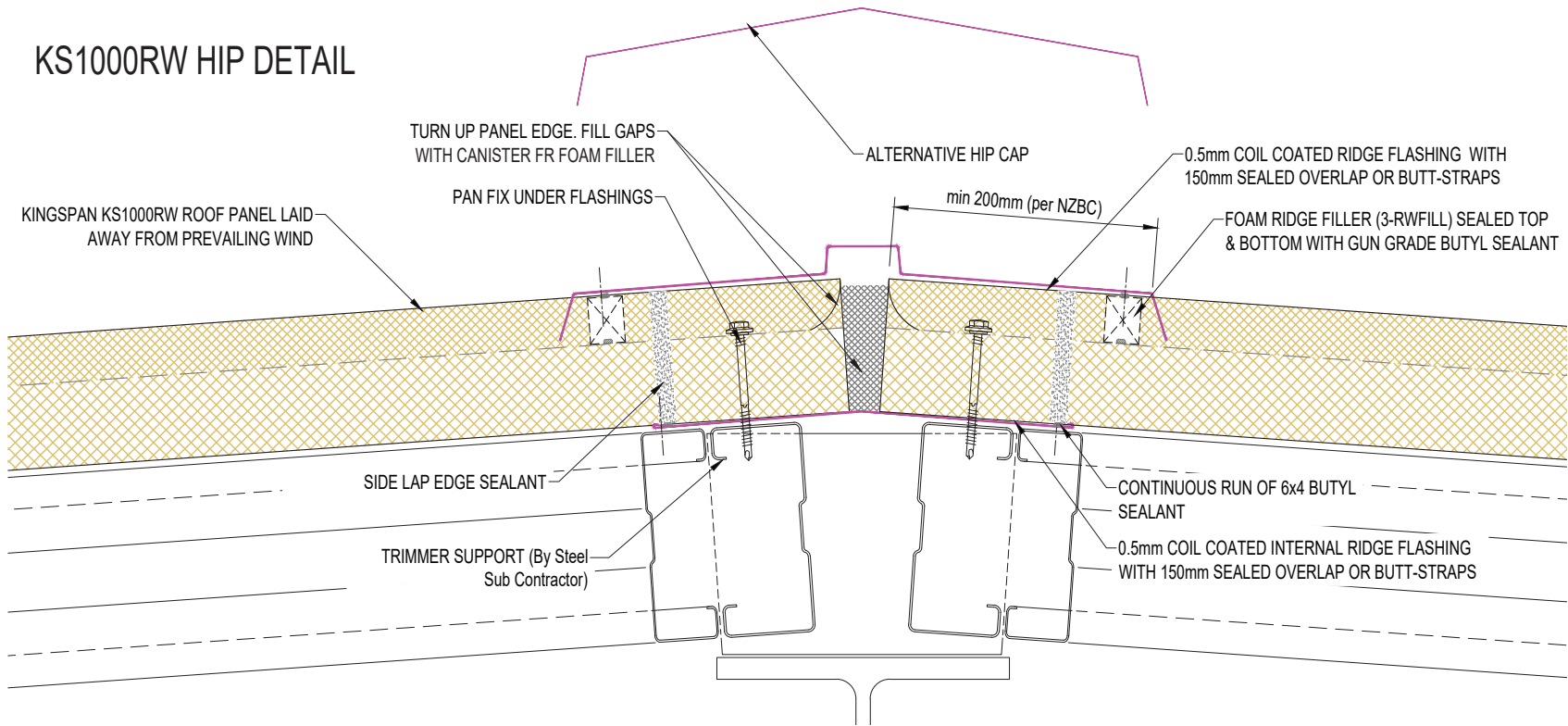
EXTERNAL & INTERNAL FLASHING JOINS TO BE SEALED PER NZ METAL ROOFING MANUFACTURER'S CODE OF PRACTICE.

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW TRAPEZOIDAL PANEL RIDGE DETAIL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_09	SCALE 1:5	PAPER SIZE A4
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KS1000RW HIP DETAIL



A

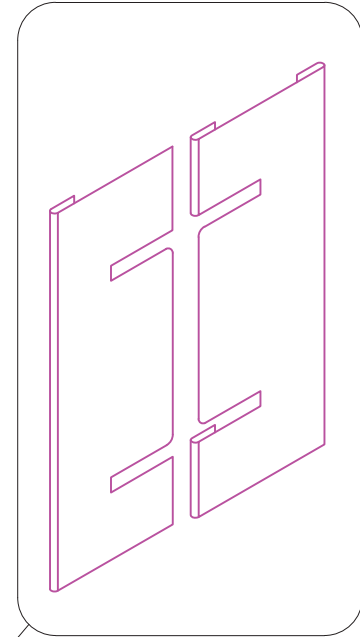
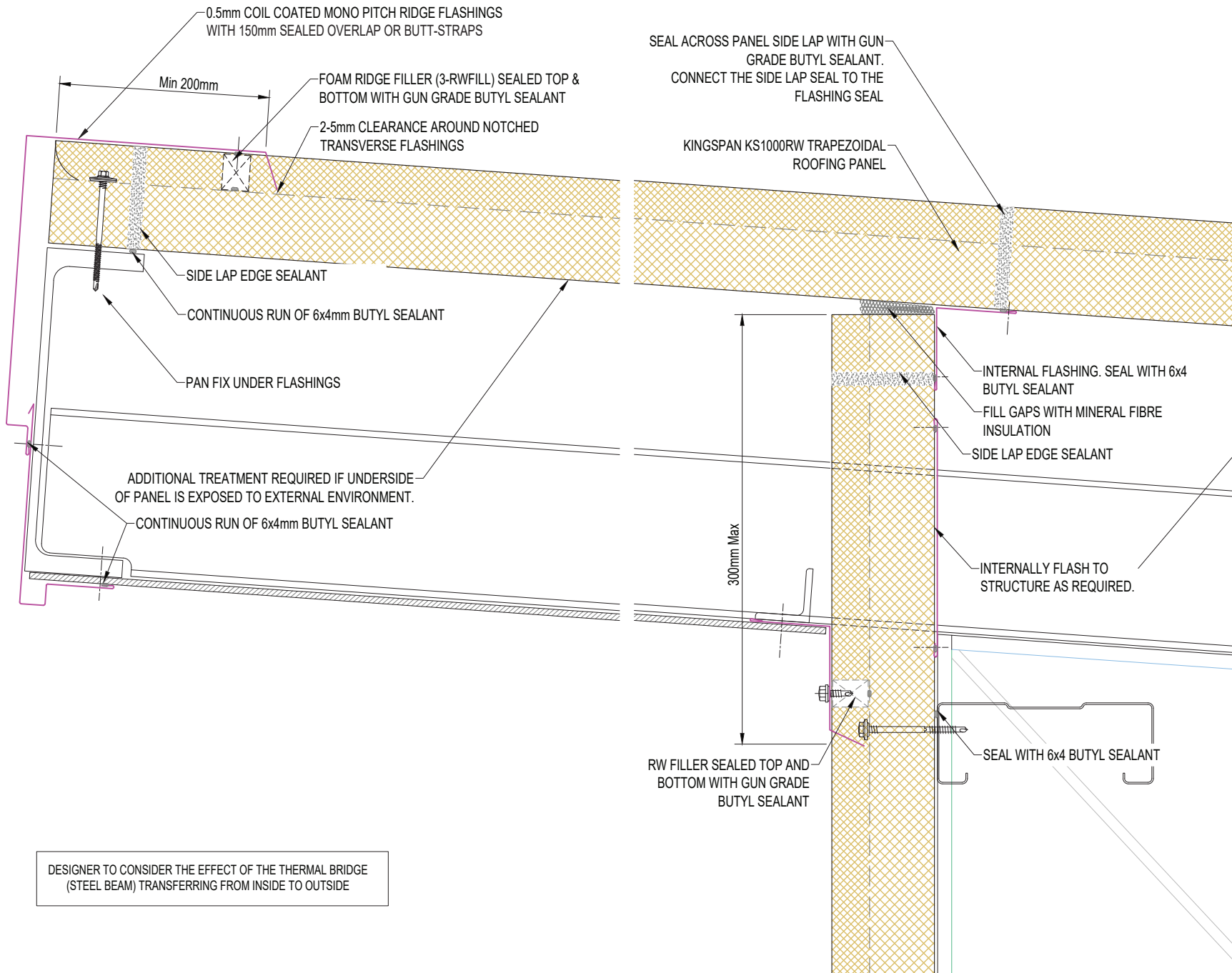
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DESCRIPTION KS1000RW HIP DETAIL			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_10	SCALE 1:5	--	PAPER SIZE A4

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KS1000RW MONO PITCH ROOF. OVERHANGING STRUCTURE. RW WALL PANEL



DESIGNER TO CONSIDER THE EFFECT OF THE THERMAL BRIDGE (STEEL BEAM) TRANSFERRING FROM INSIDE TO OUTSIDE

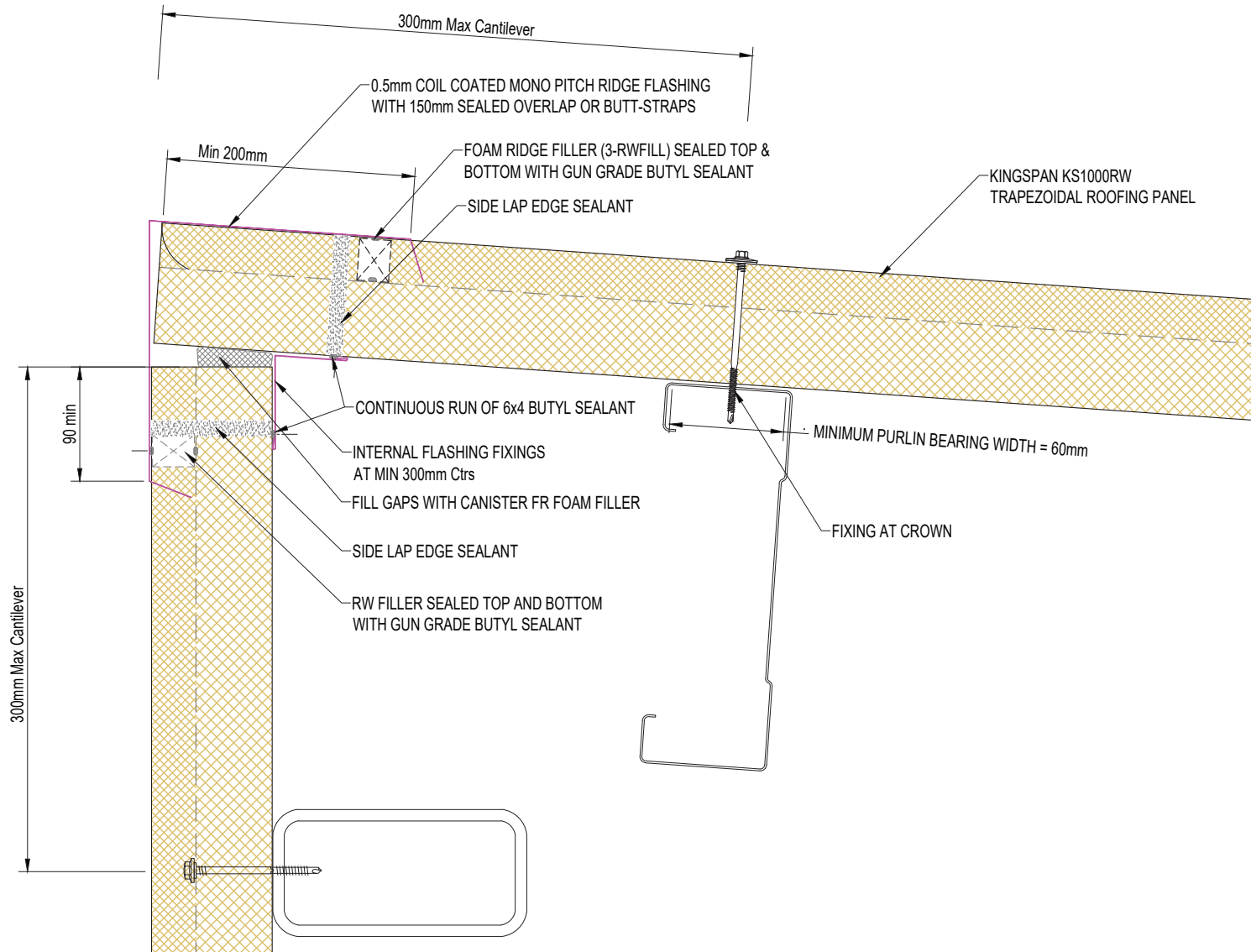
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DESCRIPTION KS1000RW MONO PITCH ROOF. OVERHANGING STRUCTURE. RW WALL PANEL			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
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KS1000RW MONO PITCH ROOF. RW VERTICAL WALL, FLUSH JOIN



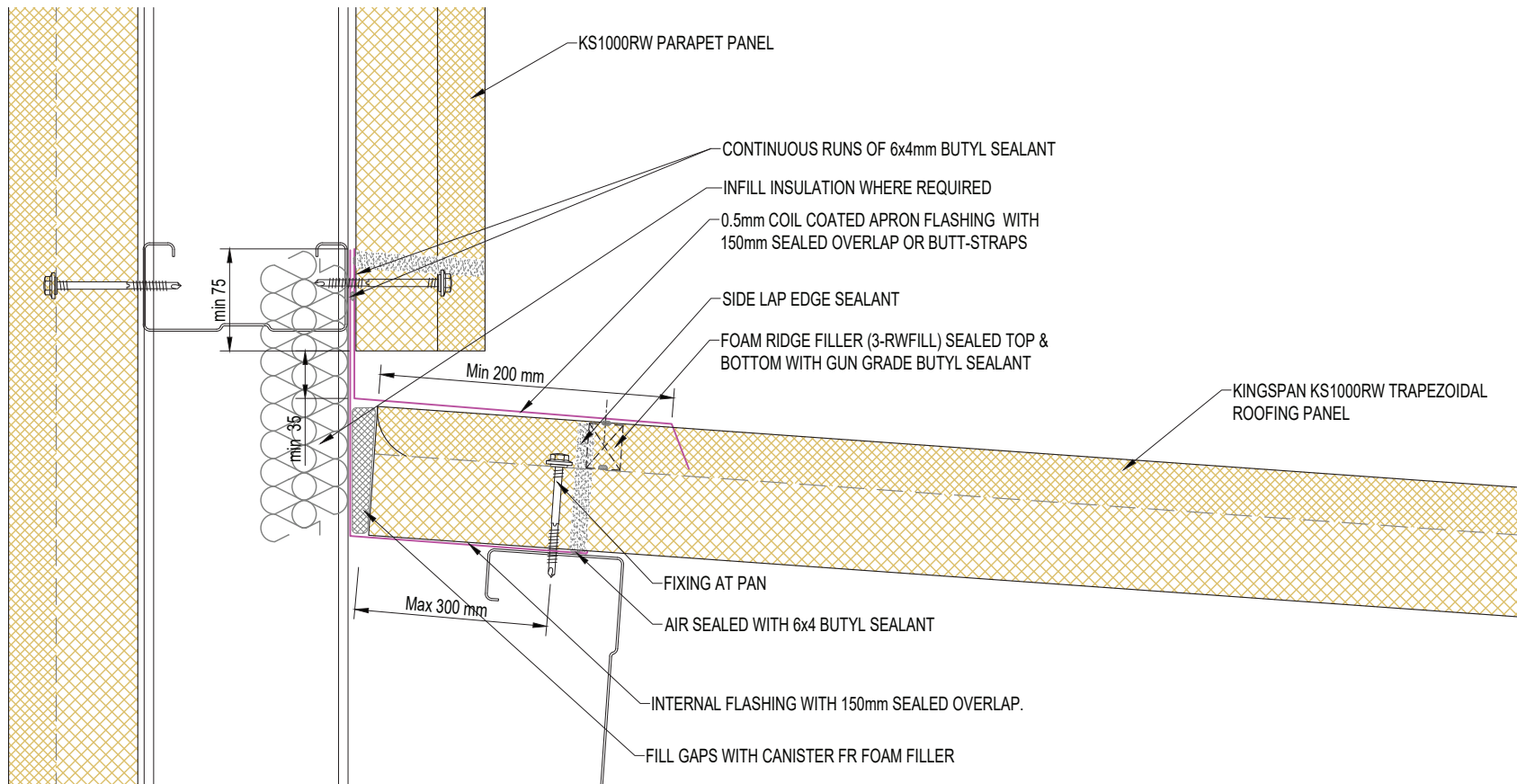
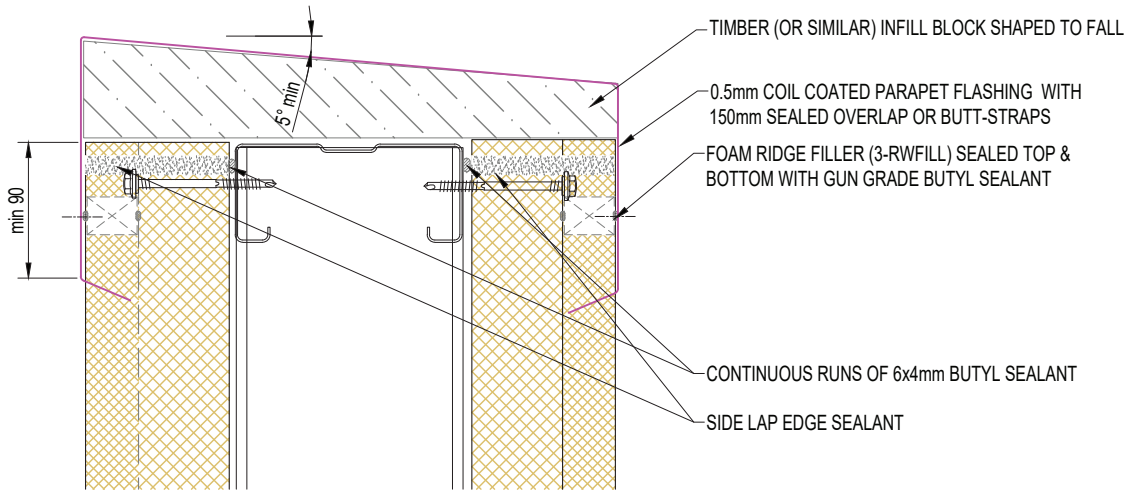
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW MONO PITCH ROOF. RW VERTICAL WALL, FLUSH JOIN		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW SKILLION TO RW VERTICAL PARAPET



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW SKILLION TO RW VERTICAL PARAPET		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_13	SCALE 1:5	PAPER SIZE A4

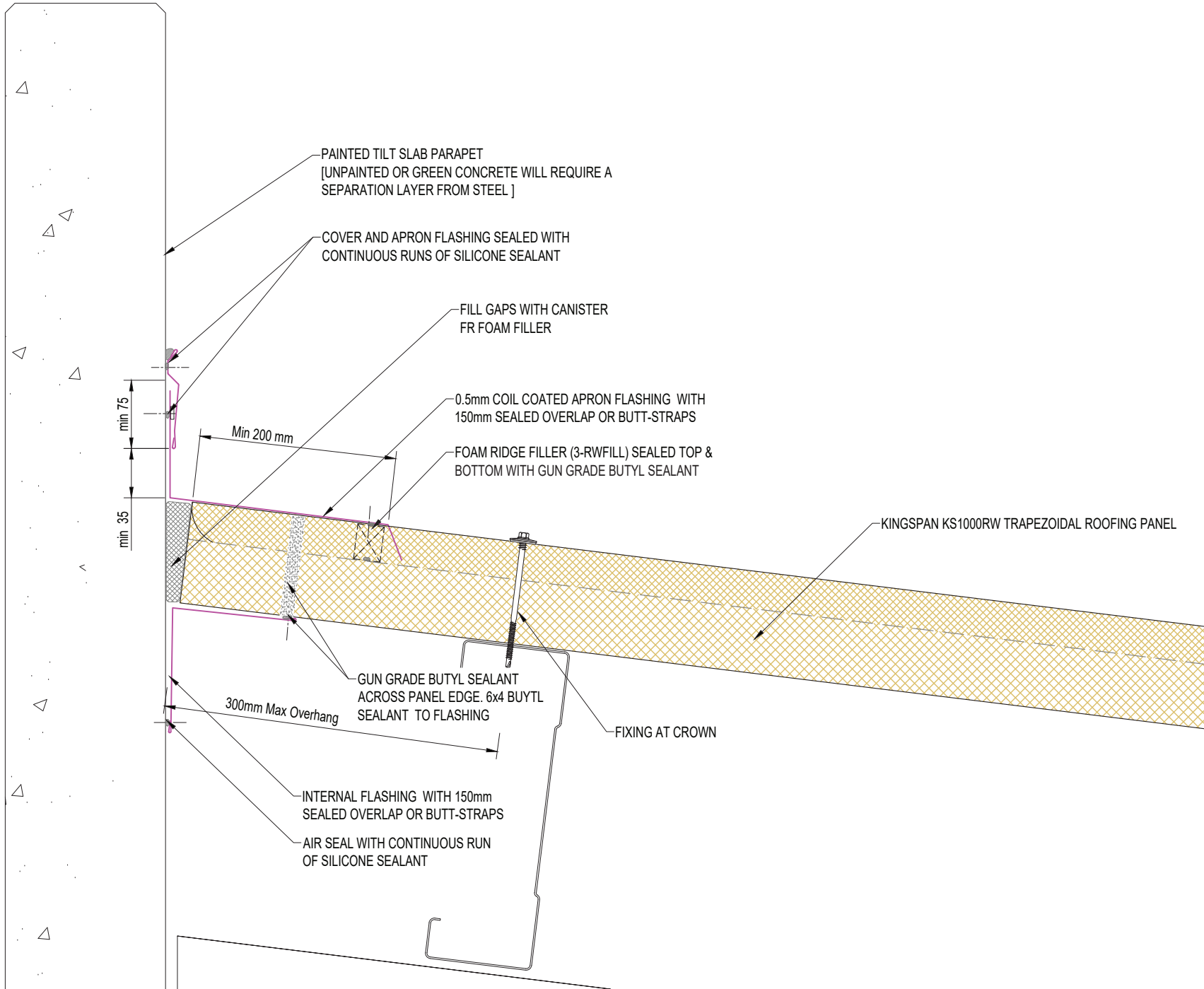
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KS1000RW SKILLION ROOF TO CONCRETE PARAPET



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW SKILLION ROOF TO CONCRETE PARAPET		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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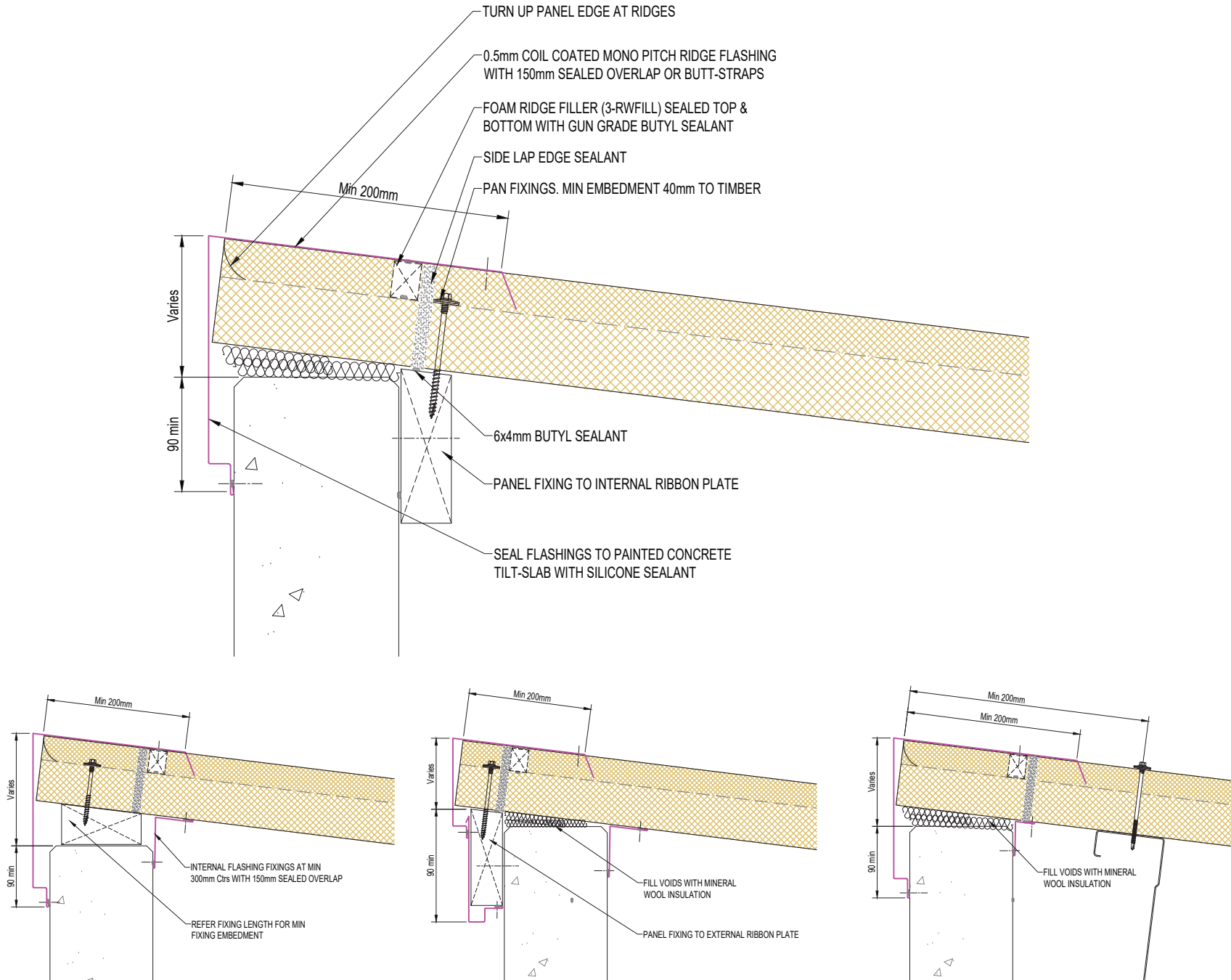
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KS1000RW MONO PITCH FLUSH TO TILT SLAB WALL



DESIGNER TO CONSIDER FIXING LENGTH & MINIMUM EMBEDMENT WHEN SELECTING TIMBER THICKNESS. TYPICAL 70mm MINIMUM TIMBER THICKNESS

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW MONO PITCH FLUSH TO TILT SLAB WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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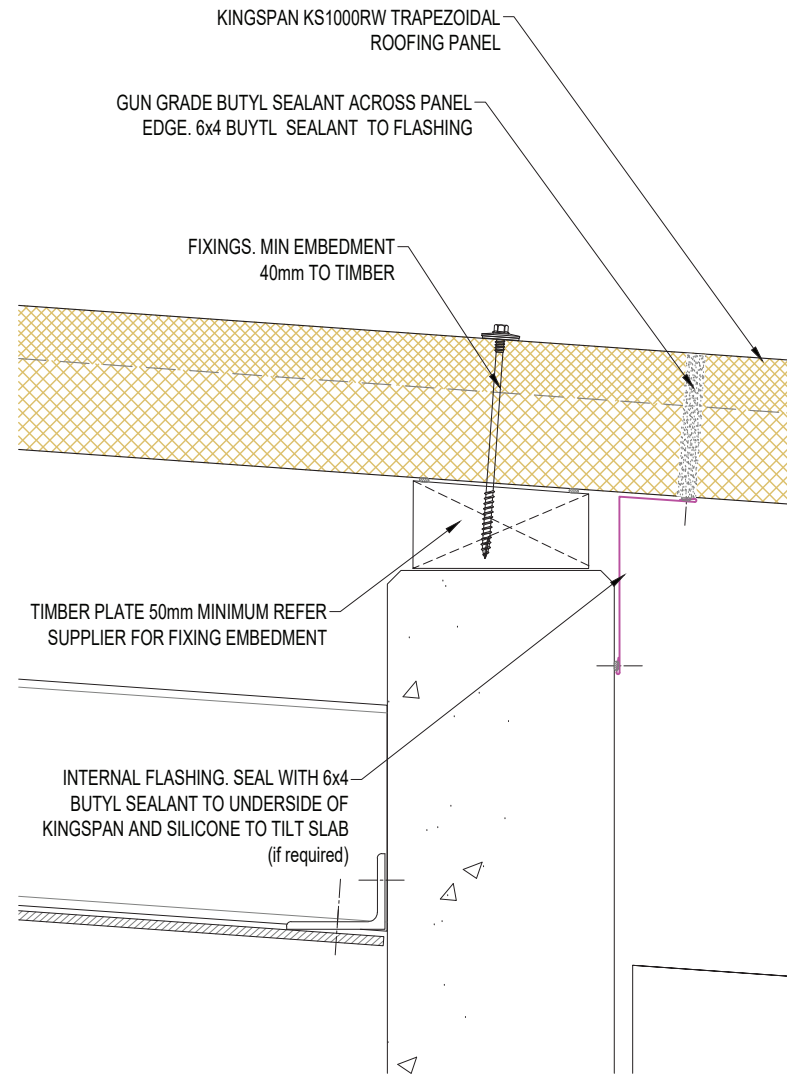
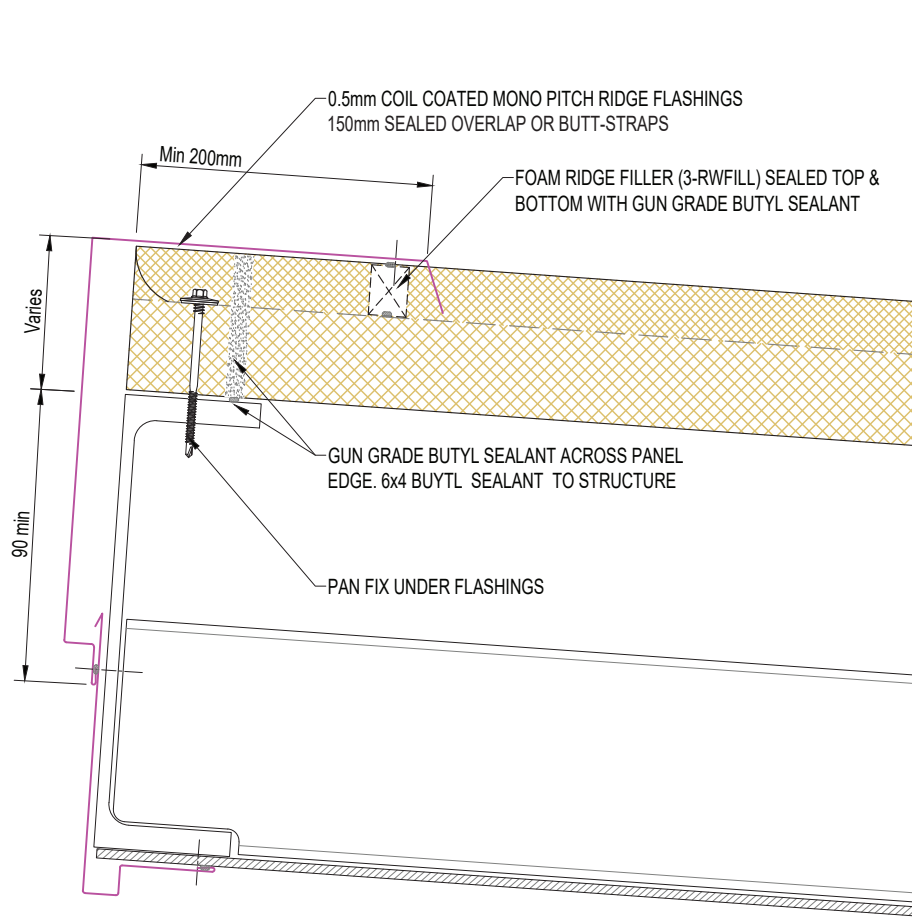
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KS1000RW MONO PITCH ROOF OVERHANGING STRUCTURE WITH TILT-SLAB WALL



DESIGNER TO CONSIDER FIXING LENGTH & MINIMUM EMBEDMENT WHEN SELECTING TIMBER THICKNESS. TYPICAL 70mm MINIMUM TIMBER THICKNESS

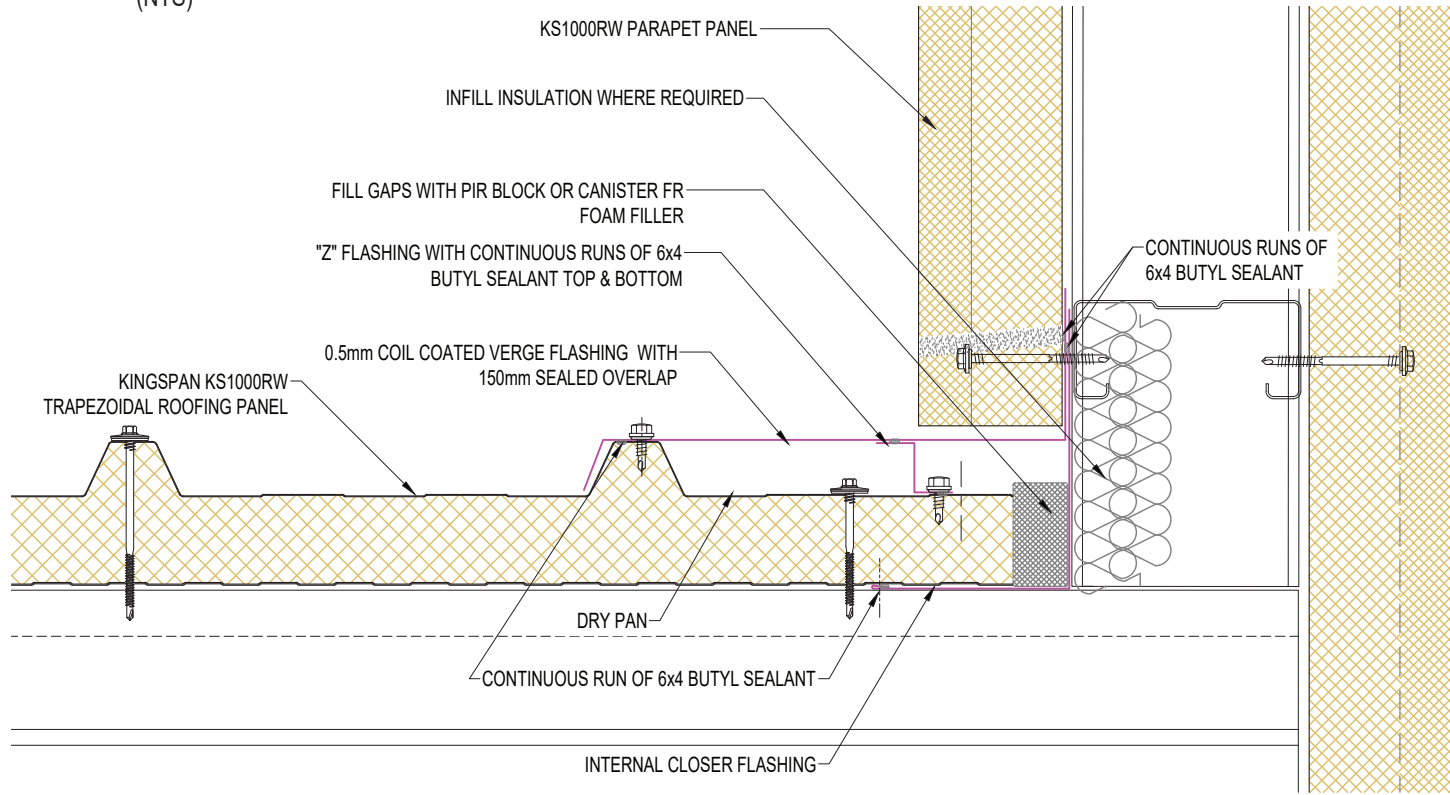
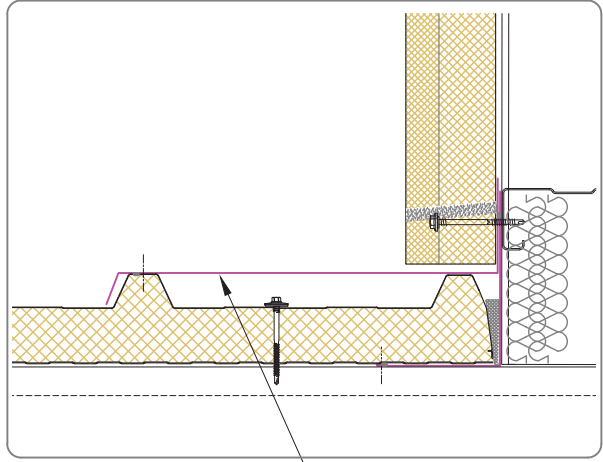
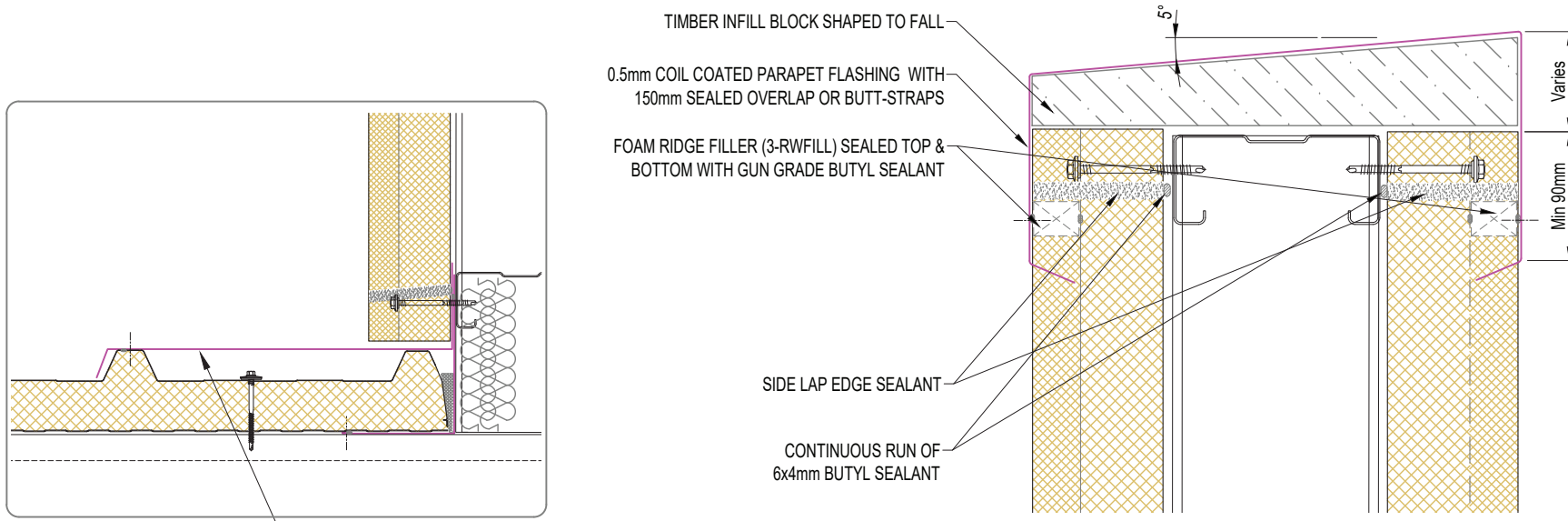
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW MONO PITCH ROOF OVERHANGING STRUCTURE WITH TILT-SLAB WALL			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
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KS1000RW VERGE WITH RW VERTICAL PARAPET - RH



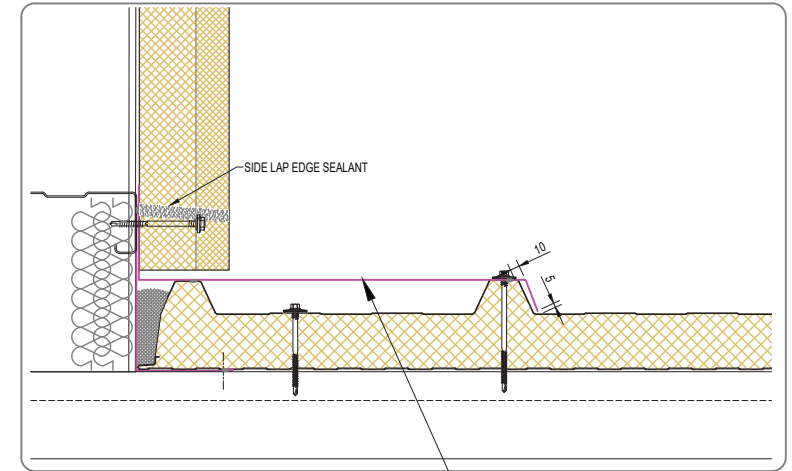
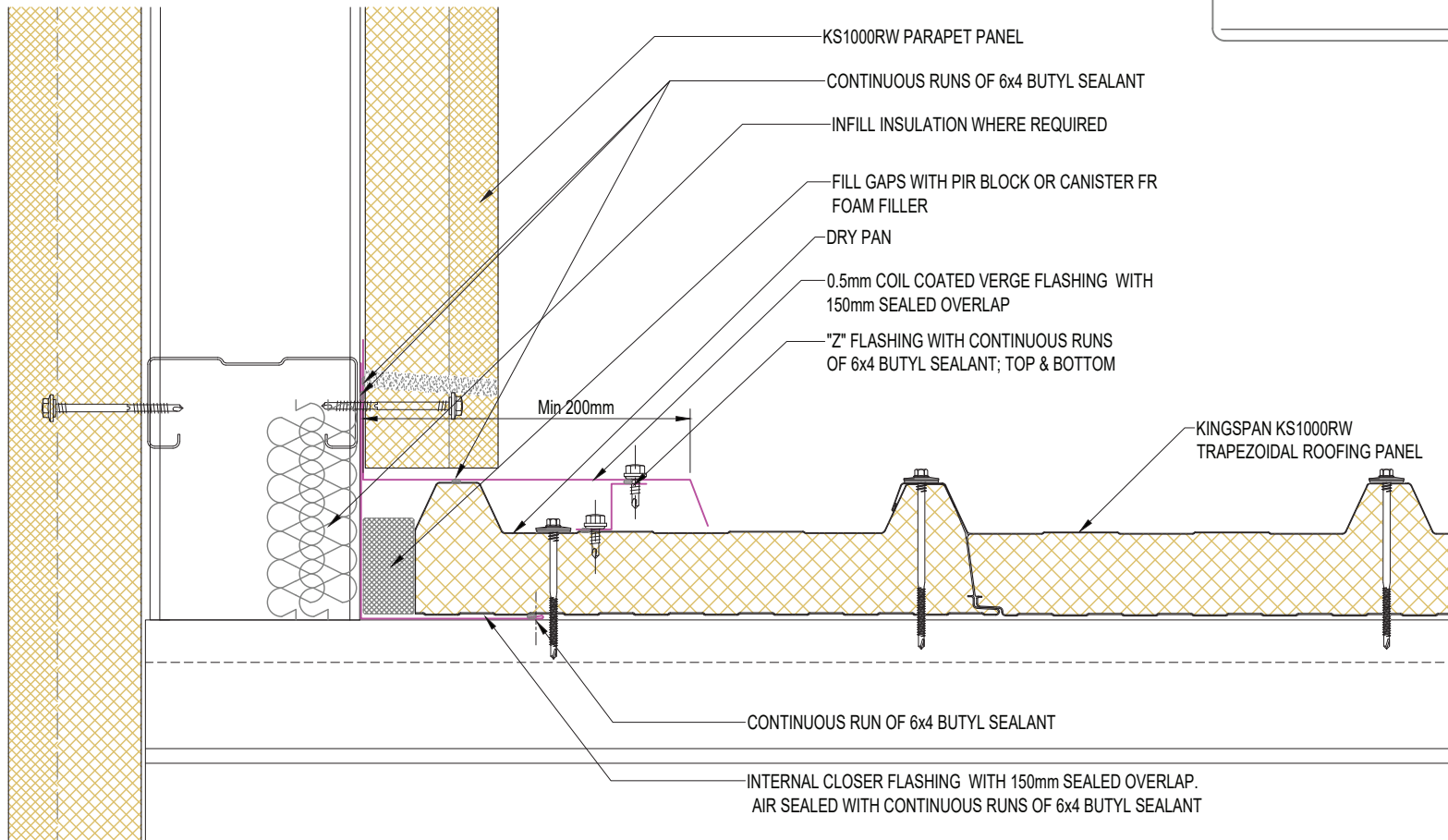
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW VERGE WITH RW VERTICAL PARAPET - RH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_17	SCALE 1:5	PAPER SIZE A4

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KS1000RW VERGE WITH RW VERTICAL PARAPET - LH



Alternative Verge Flashing (NTS)

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW VERGE WITH RW VERTICAL PARAPET - LH			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_18	SCALE 1:5	--	PAPER SIZE A4

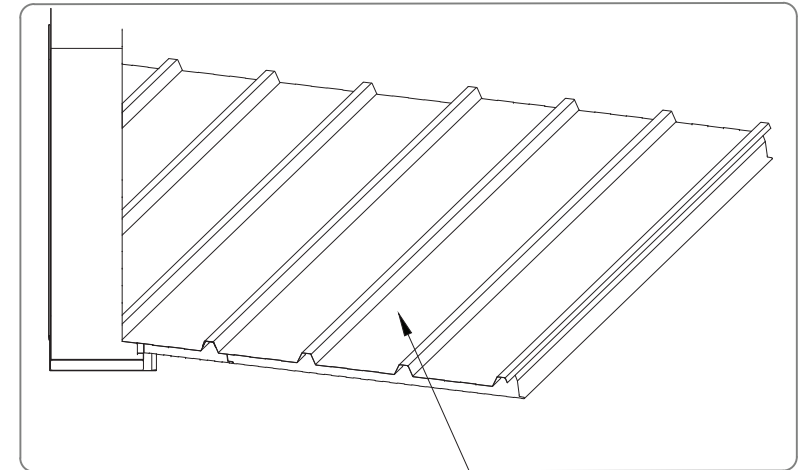
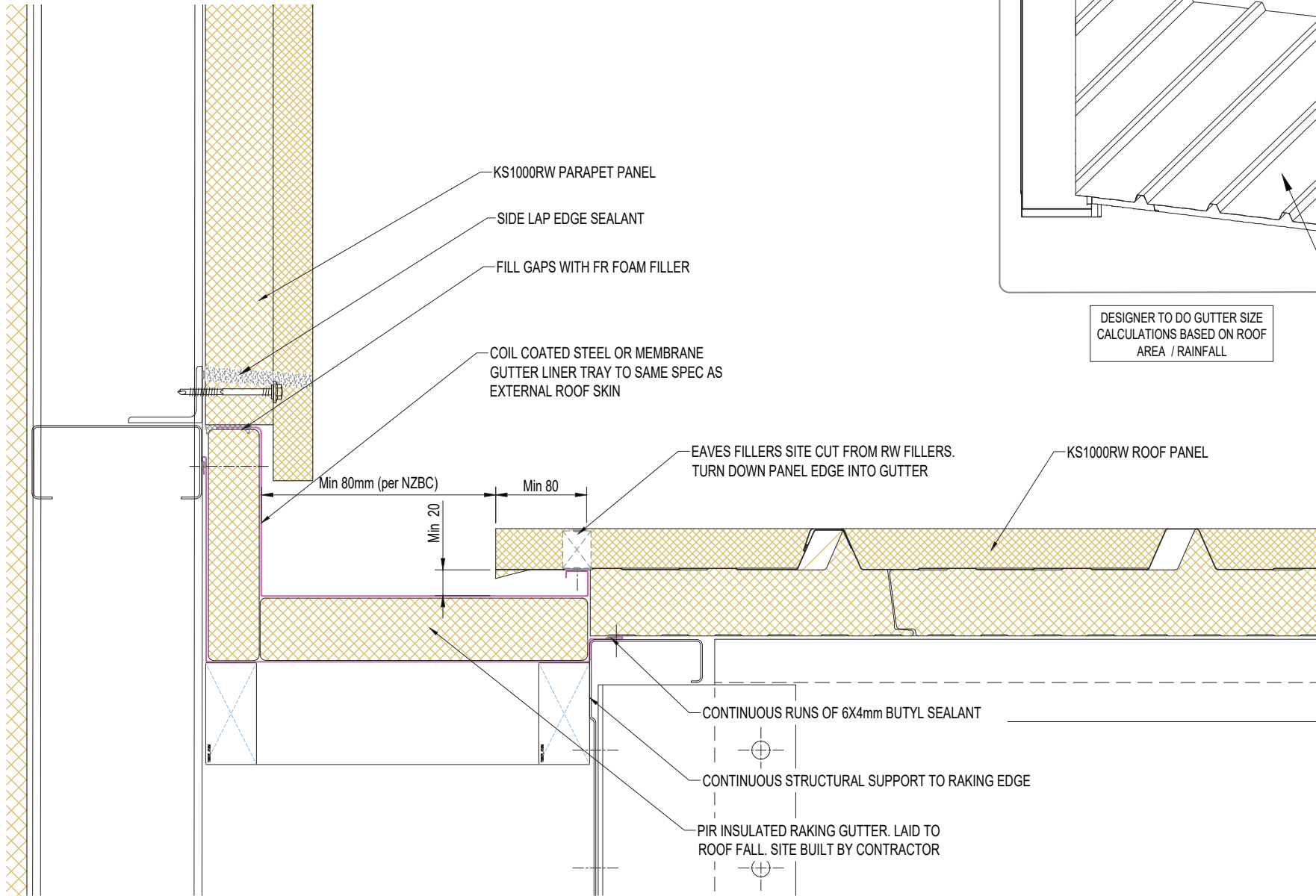
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KS1000RW RAKING VERGE WITH HIDDEN GUTTER - LH



DESIGNER TO DO GUTTER SIZE CALCULATIONS BASED ON ROOF AREA / RAINFALL

3D VIEW (NTS)

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW RAKING VERGE WITH HIDDEN GUTTER - LH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_19	SCALE 1:5	PAPER SIZE A4

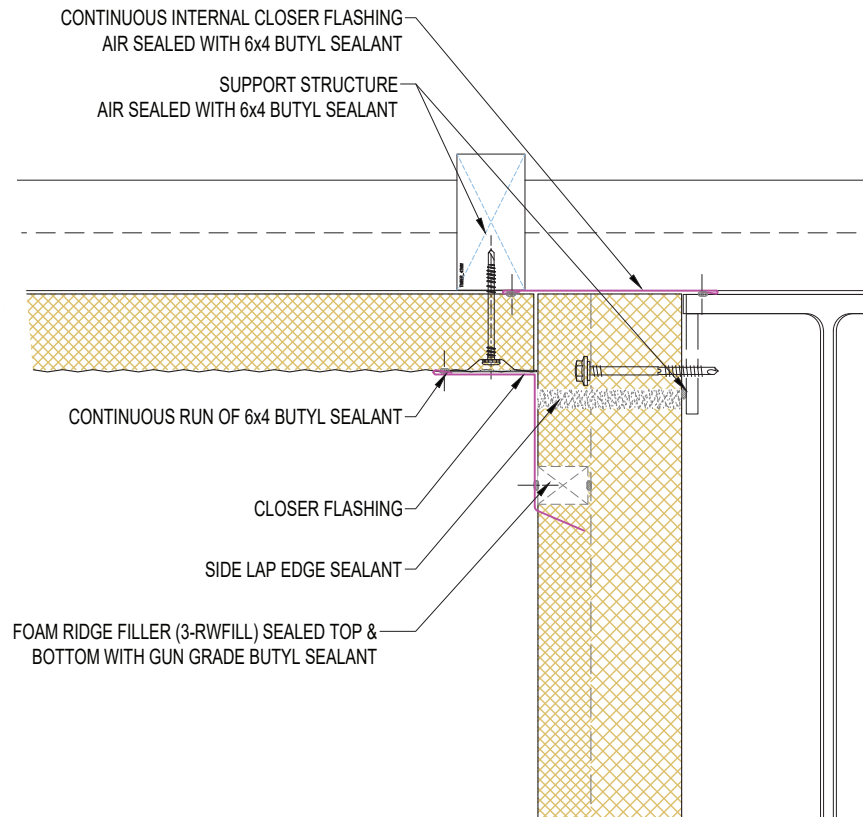
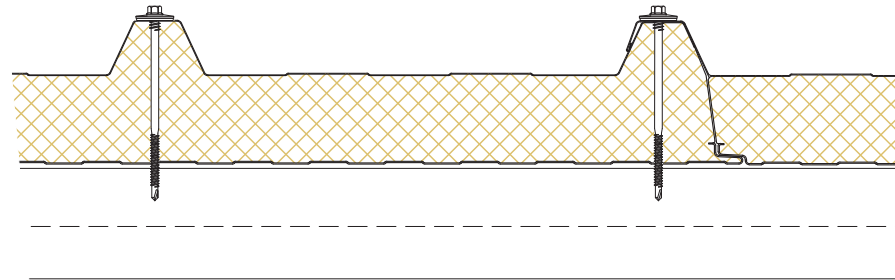
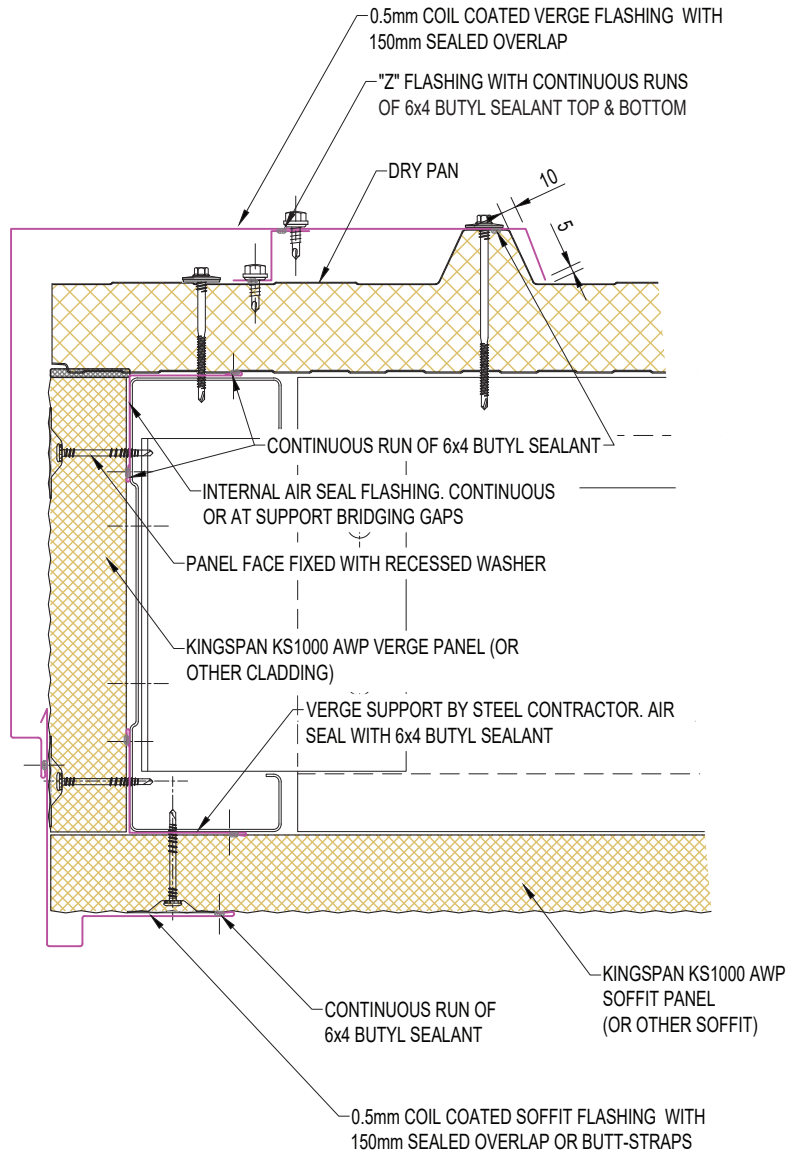
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VERGE OVERHANG TO RW VERTICAL WALL LH



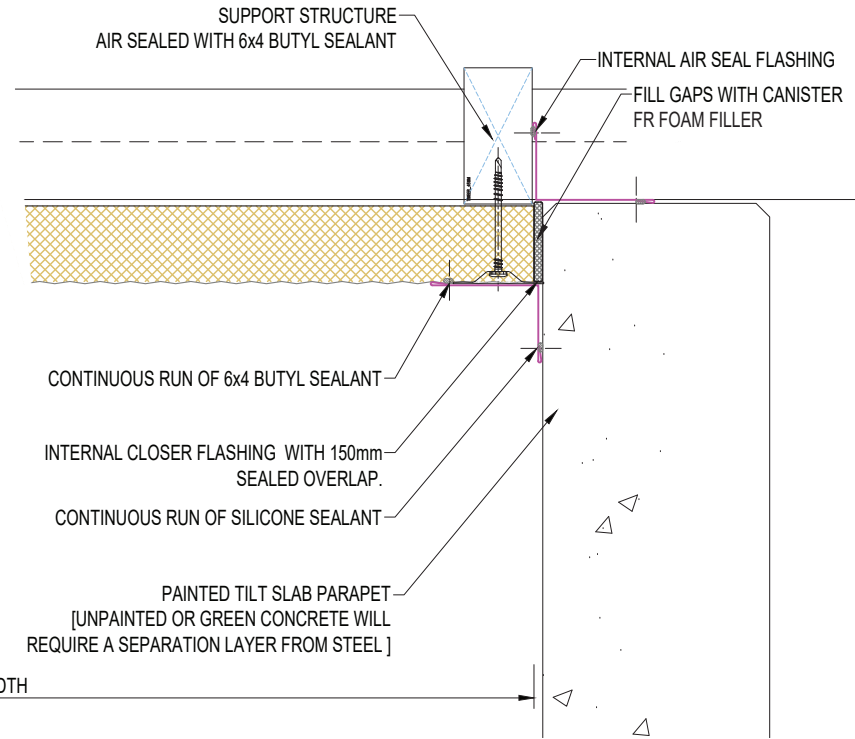
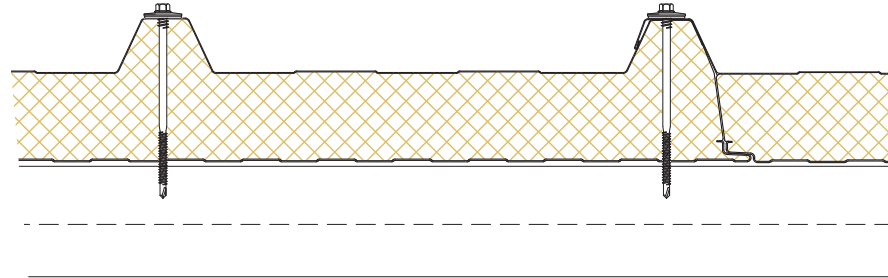
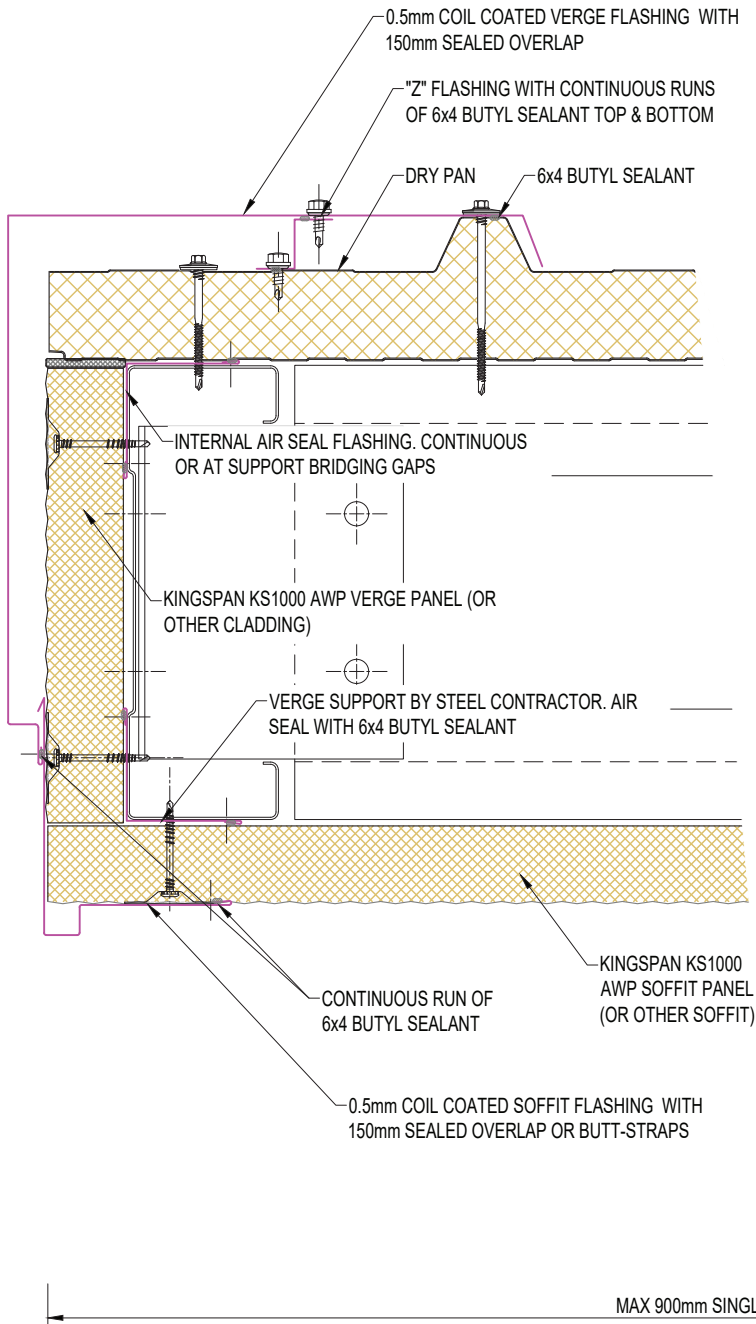
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION VERGE OVERHANG TO RW VERTICAL WALL LH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW VERGE PRECAST OVERHANG LH



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW VERGE PRECAST OVERHANG LH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_21	SCALE 1:5	PAPER SIZE A4

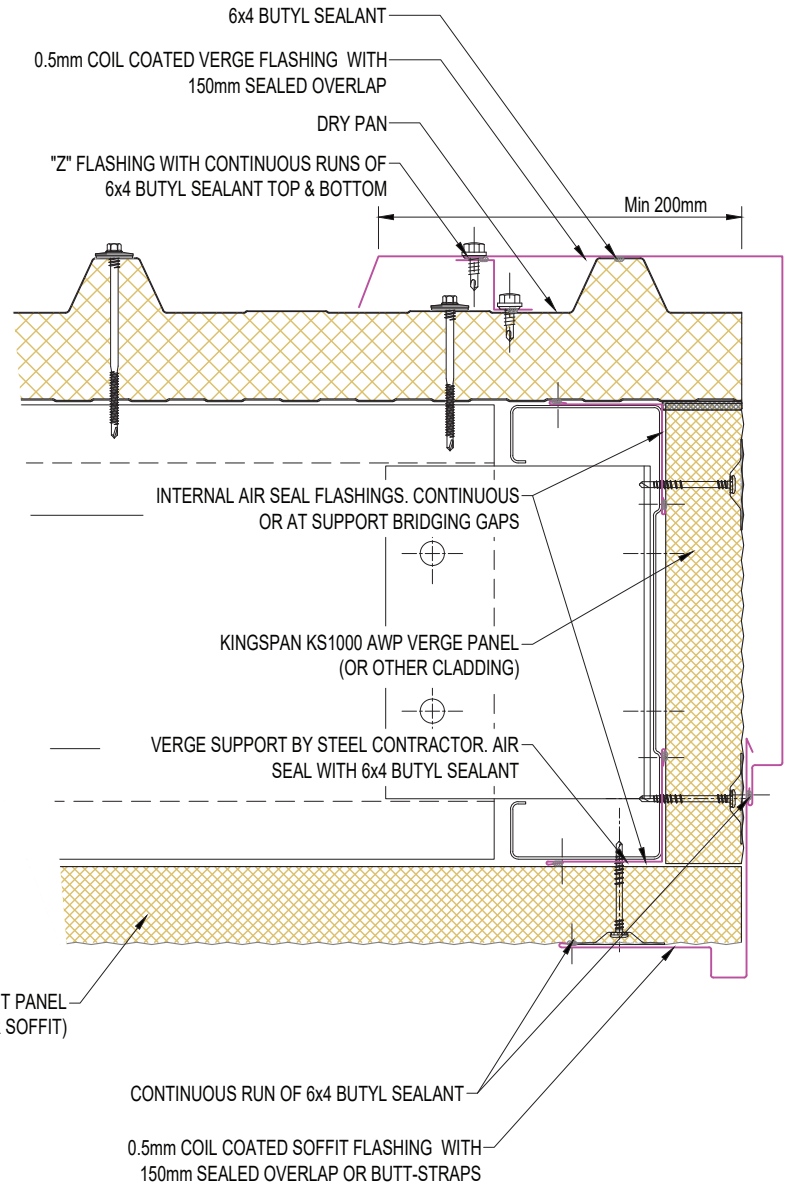
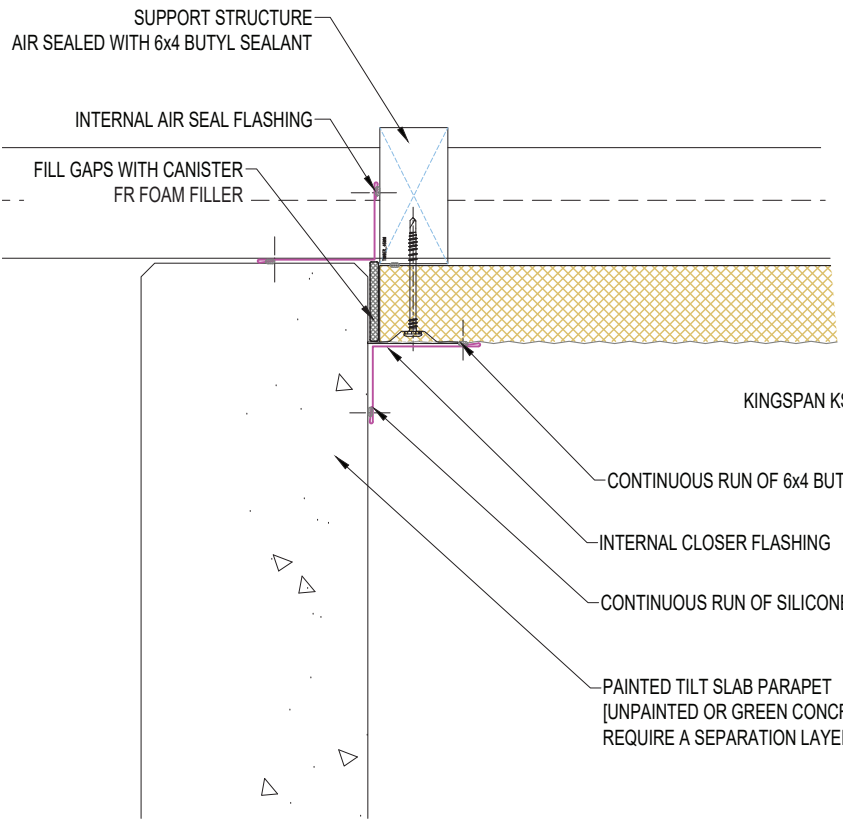
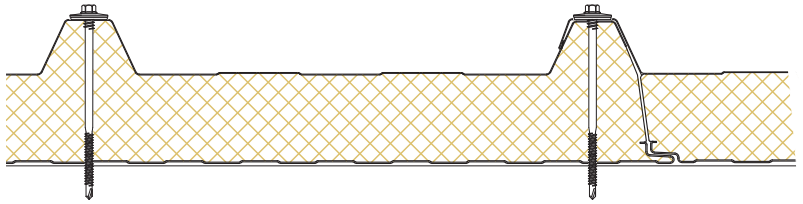
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KS1000RW VERGE OVERHANG PRECAST WALL RH



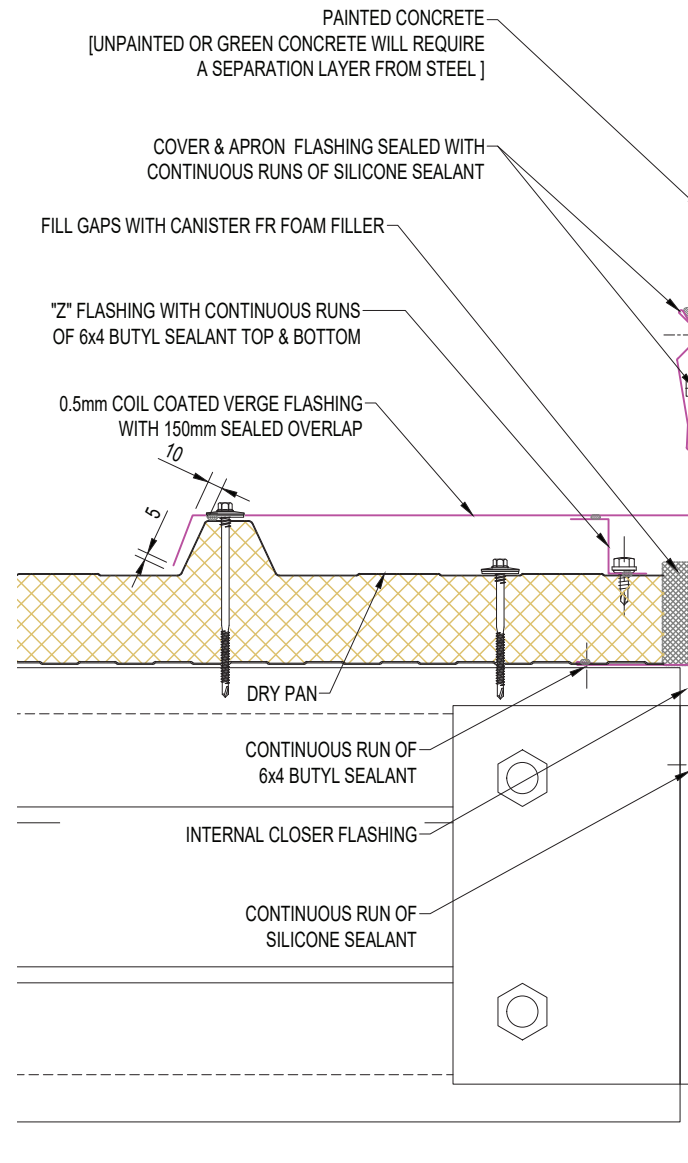
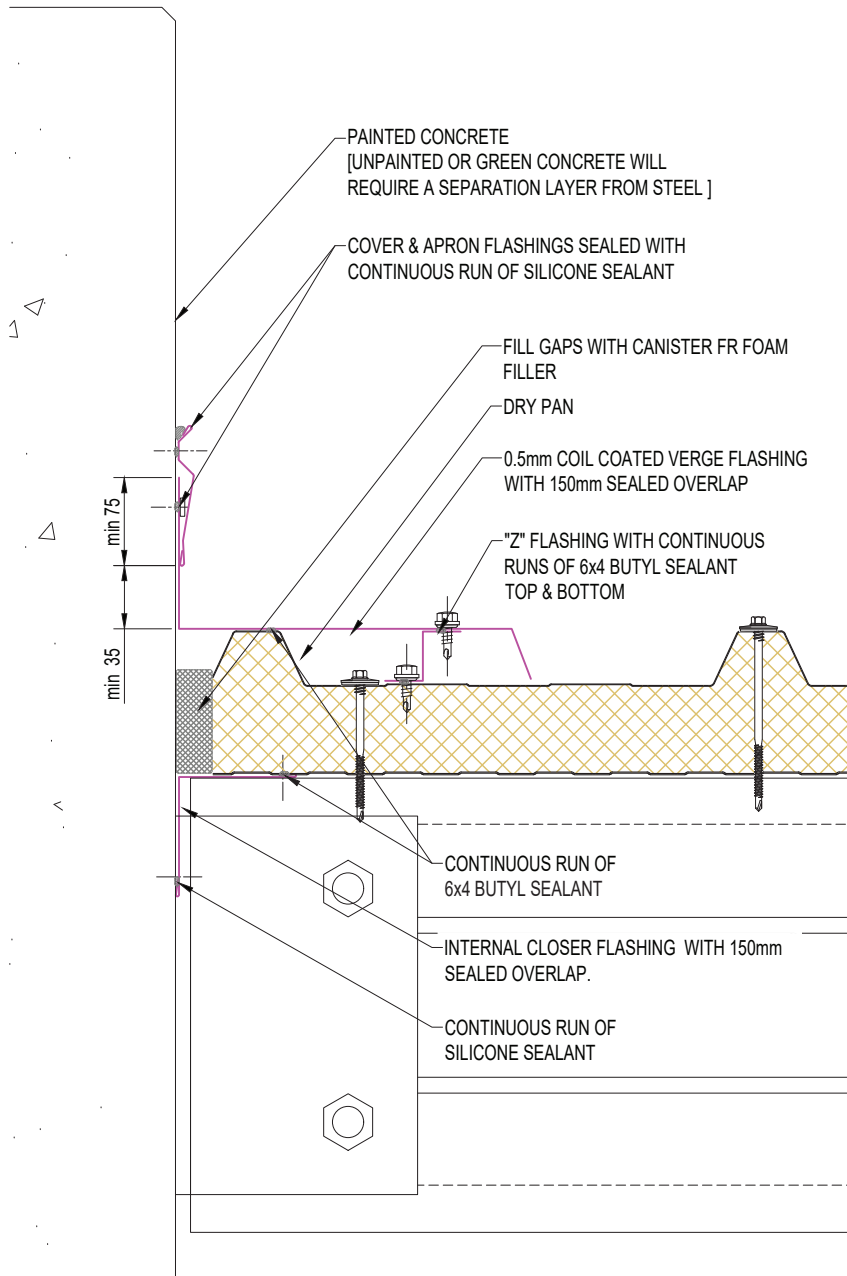
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DESCRIPTION KS1000RW VERGE OVERHANG PRECAST WALL RH			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
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KS1000RW VERGE TO CONCRETE PARAPET



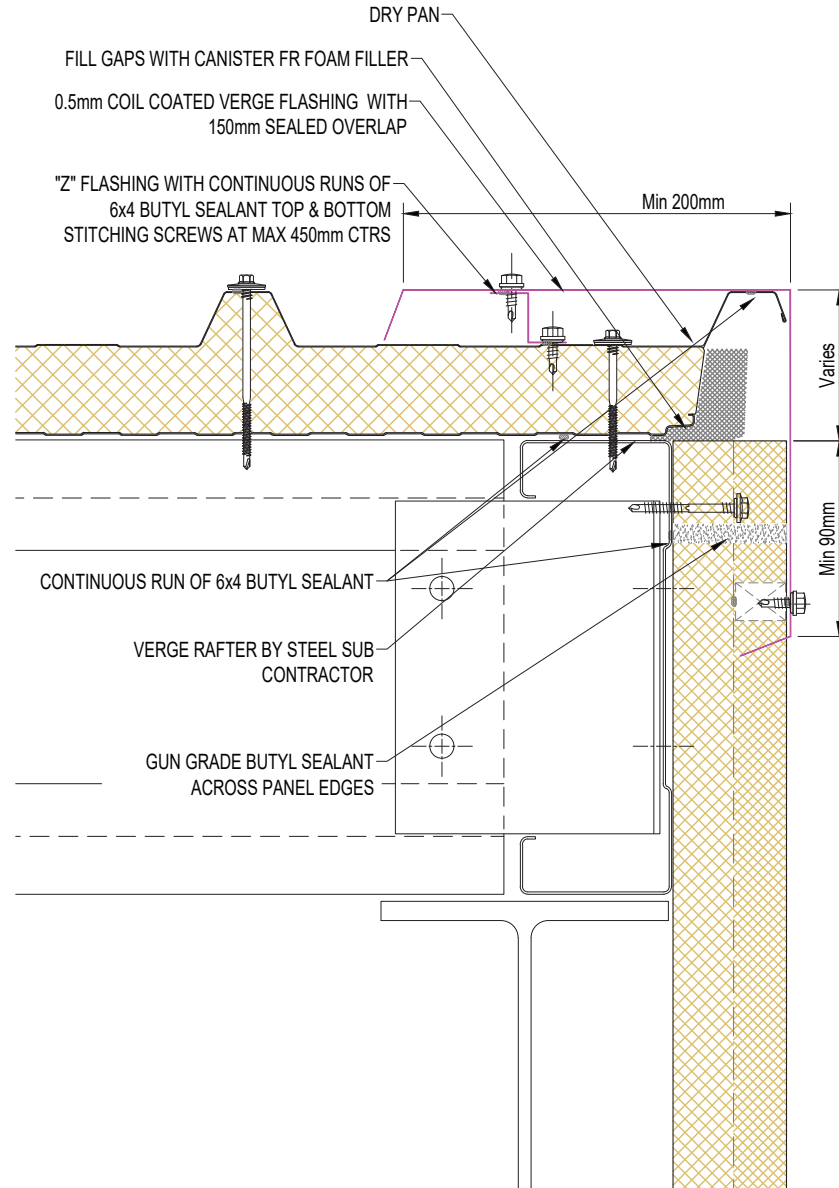
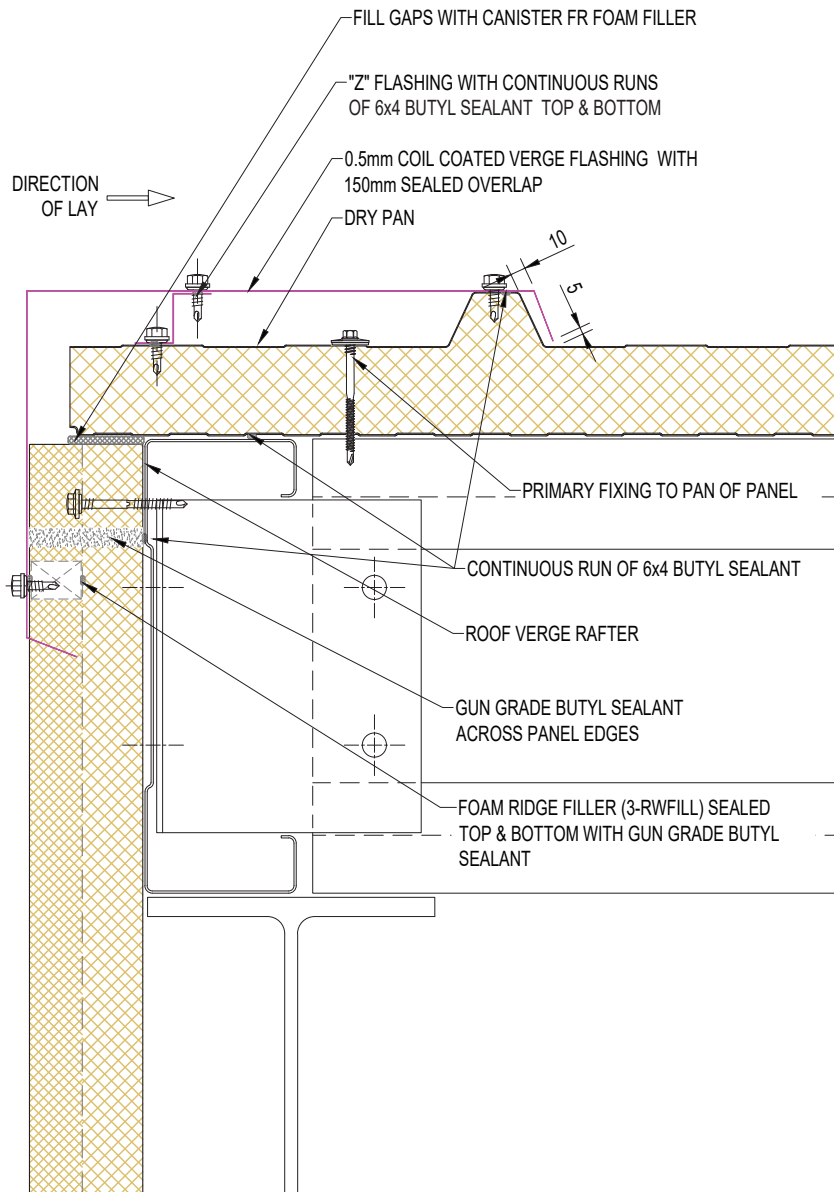
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW VERGE TO CONCRETE PARAPET		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW VERGE TO RW VERTICAL WALL



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW VERGE TO RW VERTICAL WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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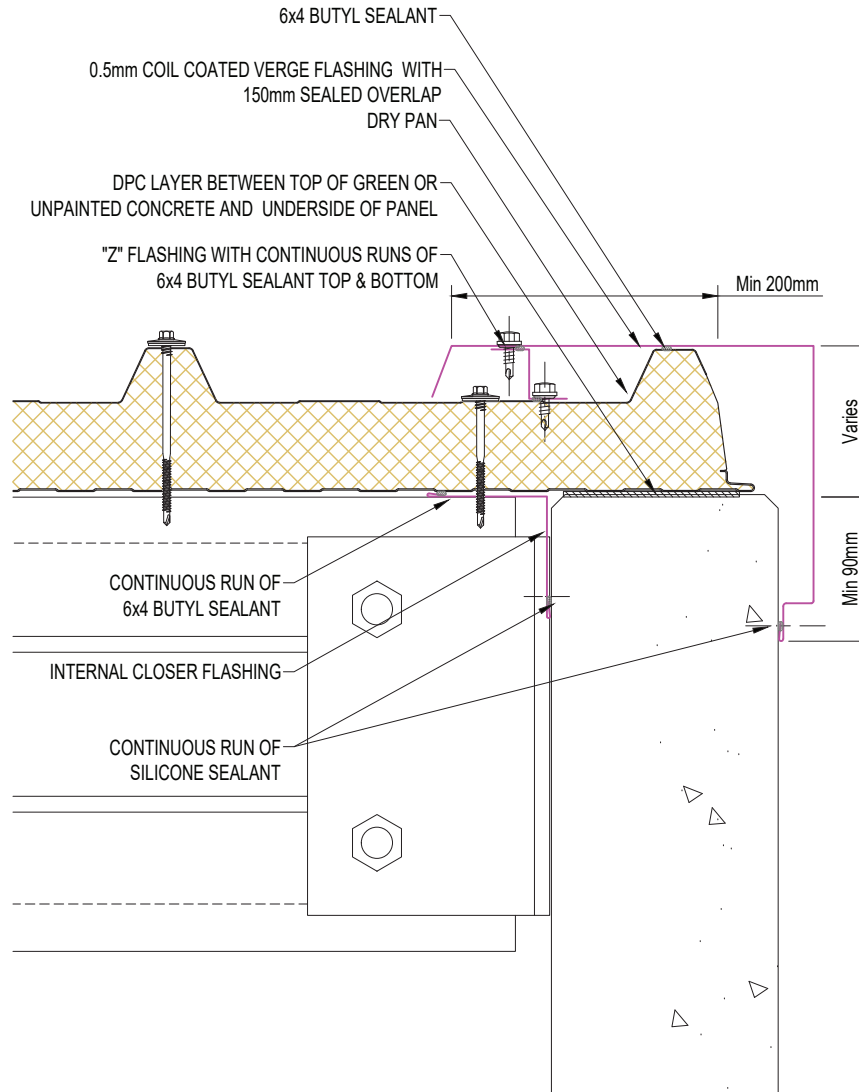
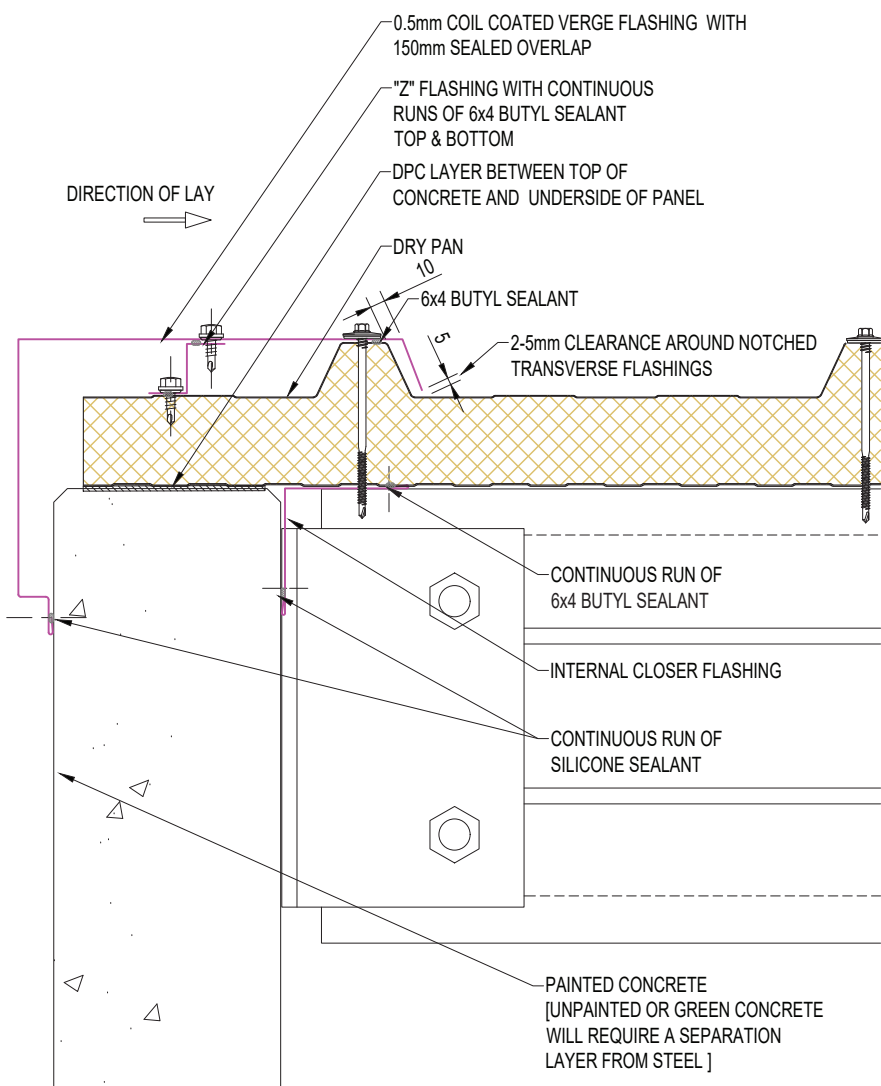
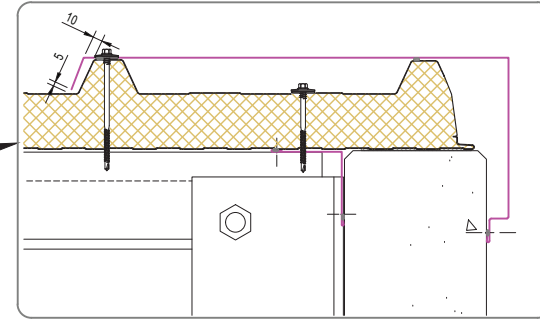
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KS1000RW VERGE FLUSH TO PRECAST R/L

Alternative Verge Flashing



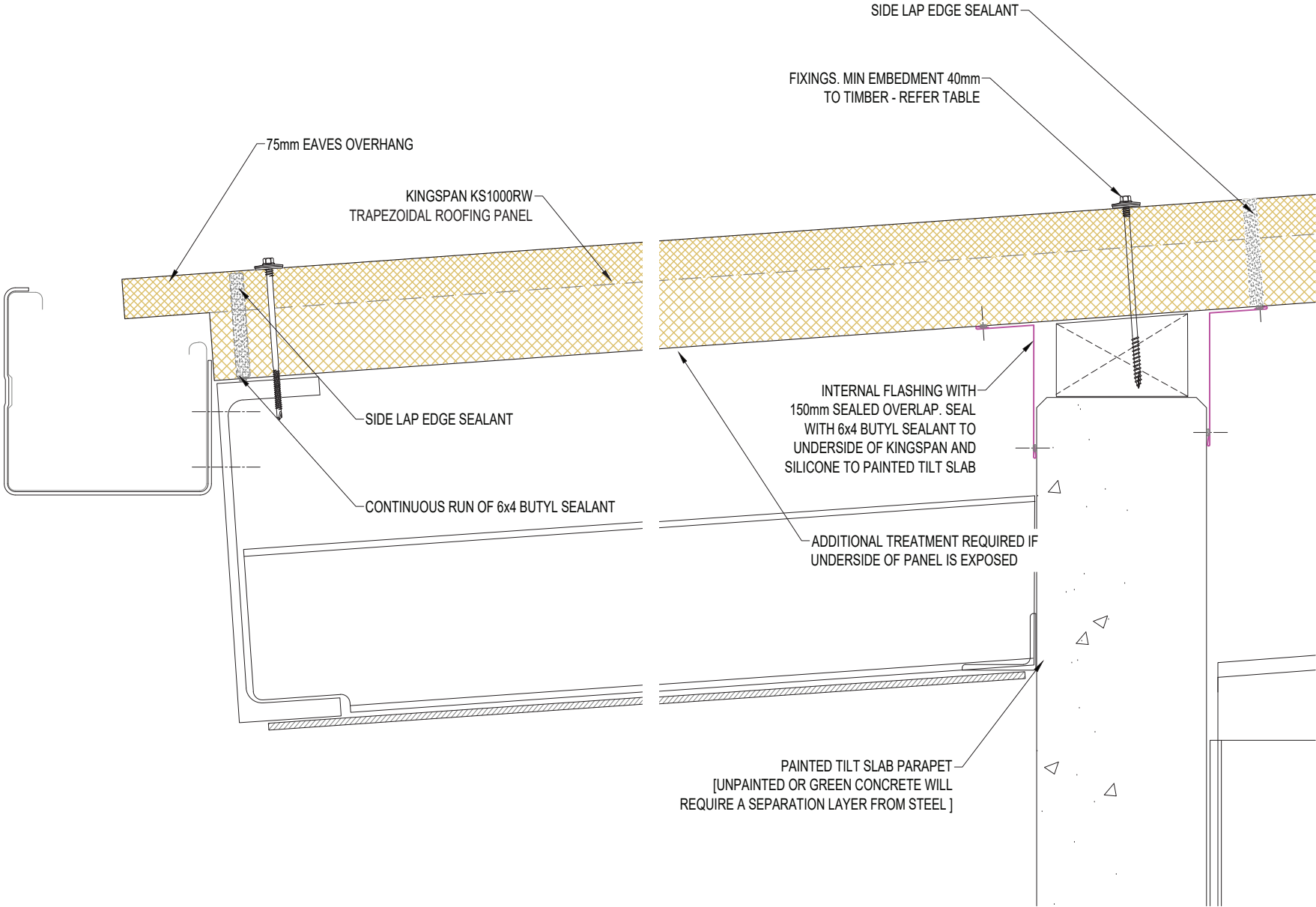
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DESCRIPTION KS1000RW VERGE FLUSH TO PRECAST R/L		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW OVERHANGING EAVES WITH PRECAST WALL



SIDE LAP EDGE SEALANT

FIXINGS. MIN EMBEDMENT 40mm TO TIMBER - REFER TABLE

75mm EAVES OVERHANG

KINGSPAN KS1000RW TRAPEZOIDAL ROOFING PANEL

SIDE LAP EDGE SEALANT

CONTINUOUS RUN OF 6x4 BUTYL SEALANT

INTERNAL FLASHING WITH 150mm SEALED OVERLAP. SEAL WITH 6x4 BUTYL SEALANT TO UNDERSIDE OF KINGSPAN AND SILICONE TO PAINTED TILT SLAB

ADDITIONAL TREATMENT REQUIRED IF UNDERSIDE OF PANEL IS EXPOSED

PAINTED TILT SLAB PARAPET
[UNPAINTED OR GREEN CONCRETE WILL REQUIRE A SEPARATION LAYER FROM STEEL]

DESIGNER TO CONSIDER FIXING LENGTH & MINIMUM EMBEDMENT WHEN SELECTING TIMBER THICKNESS. TYPICAL 70mm MINIMUM TIMBER THICKENSS

SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW OVERHANGING EAVES WITH PRECAST WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_26	SCALE 1:5	PAPER SIZE A4

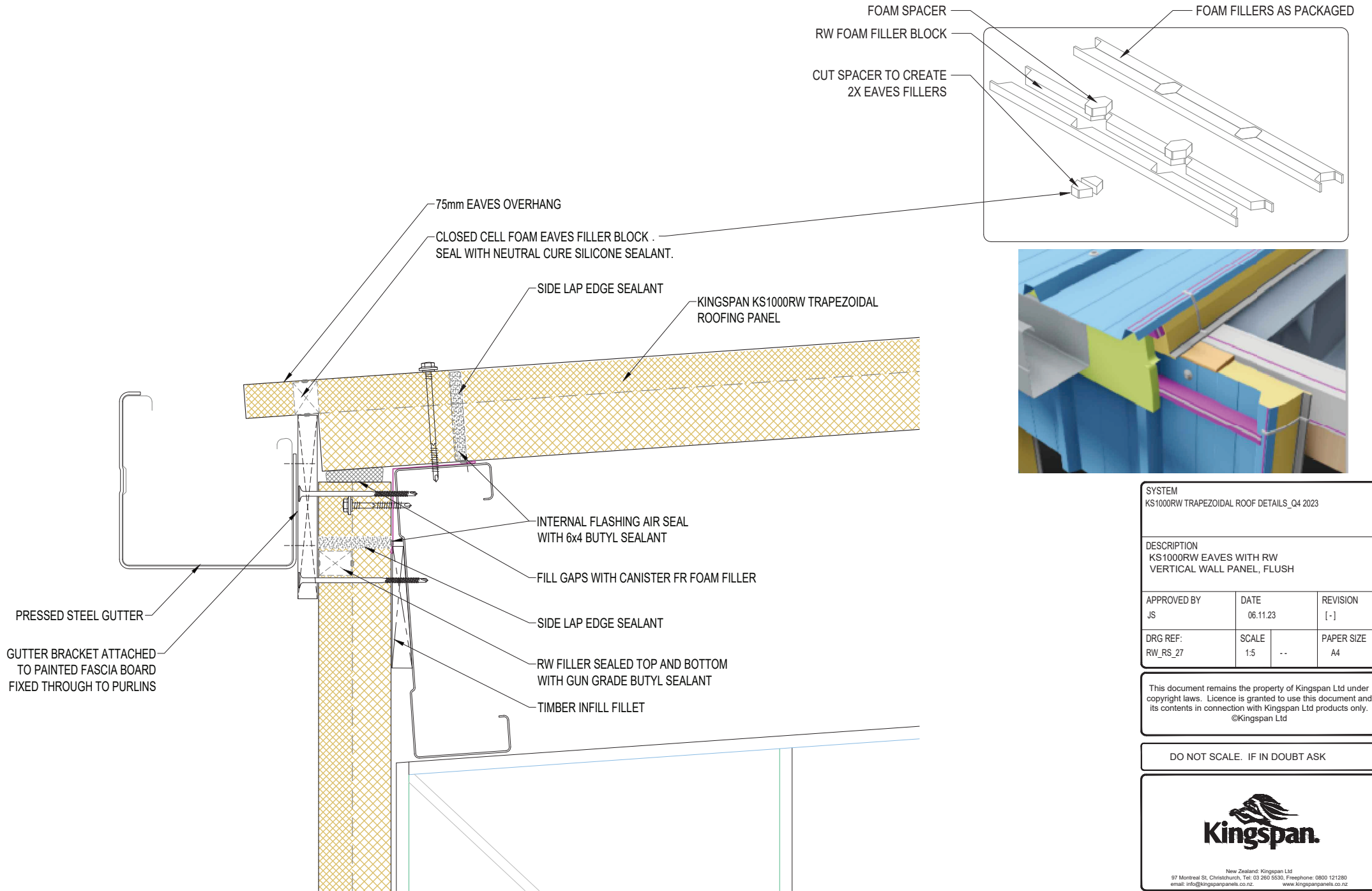
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KS1000RW EAVES WITH RW VERTICAL WALL PANEL, FLUSH



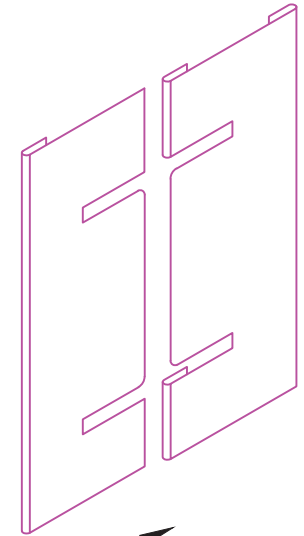
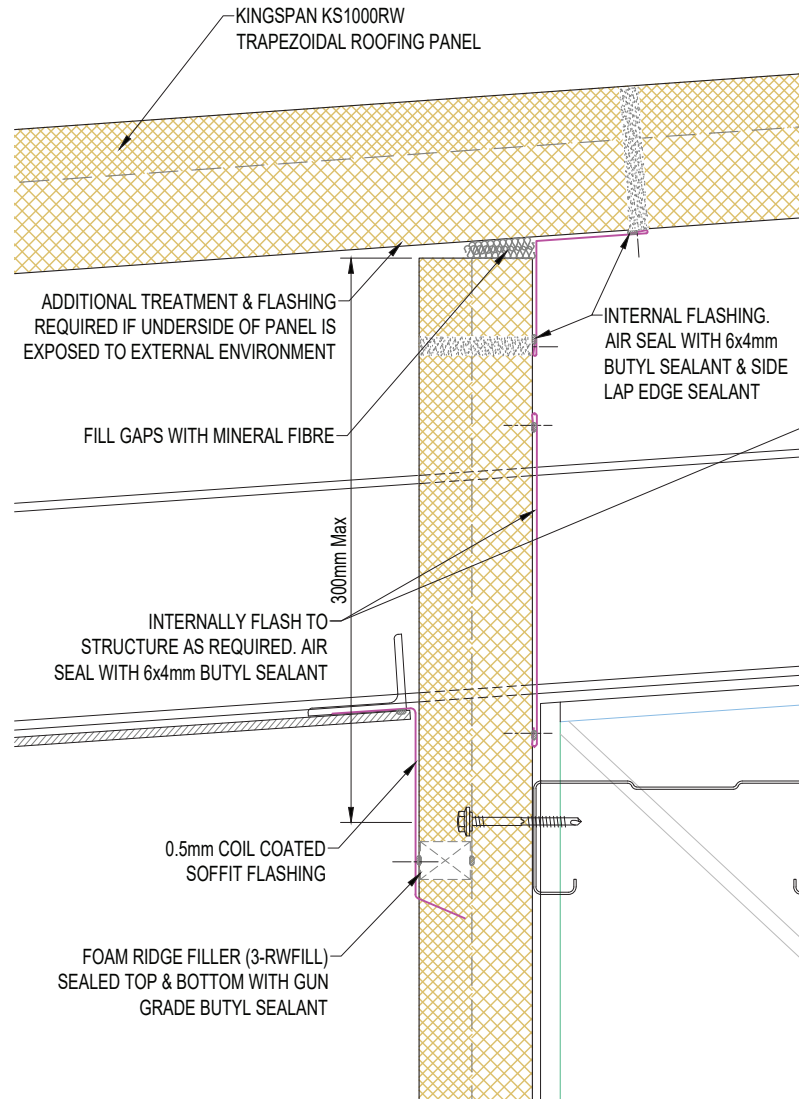
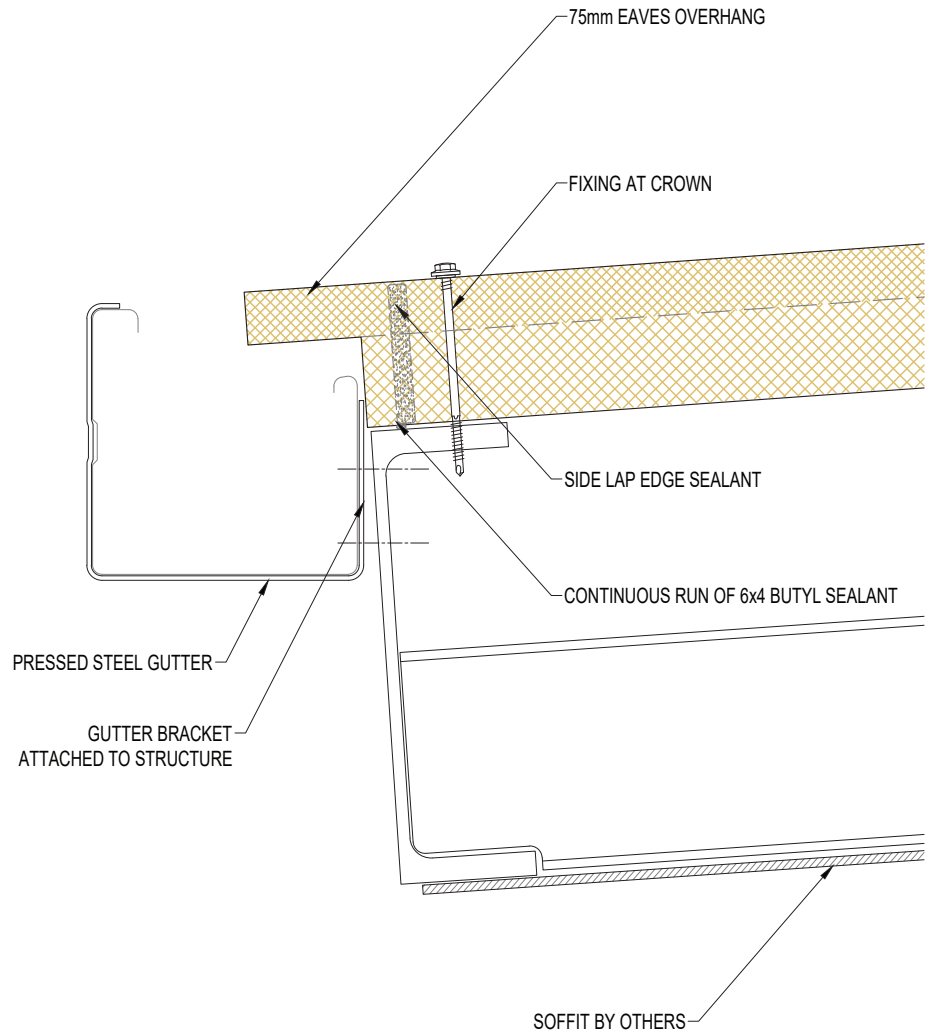
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW EAVES WITH RW VERTICAL WALL PANEL, FLUSH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW OVERHANGING EAVES WITH RW VERTICAL WALL



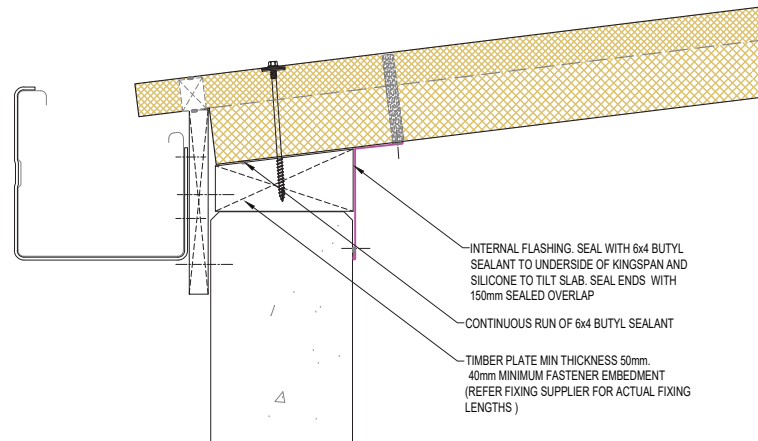
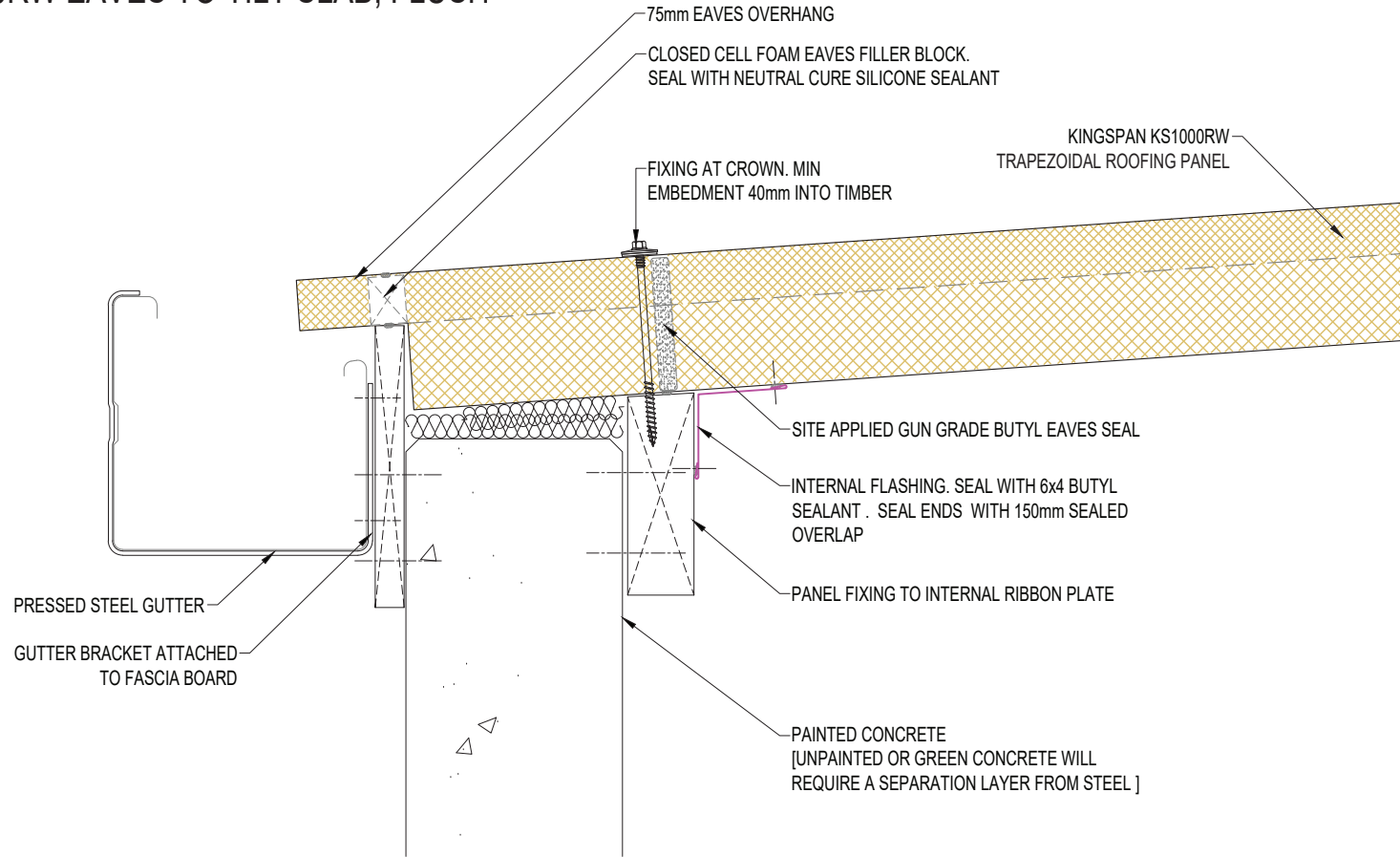
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW OVERHANGING EAVES WITH RW VERTICAL WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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KS1000RW EAVES TO TILT SLAB, FLUSH



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW EAVES TO TILT SLAB, FLUSH		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_29	SCALE 1:5	PAPER SIZE A4

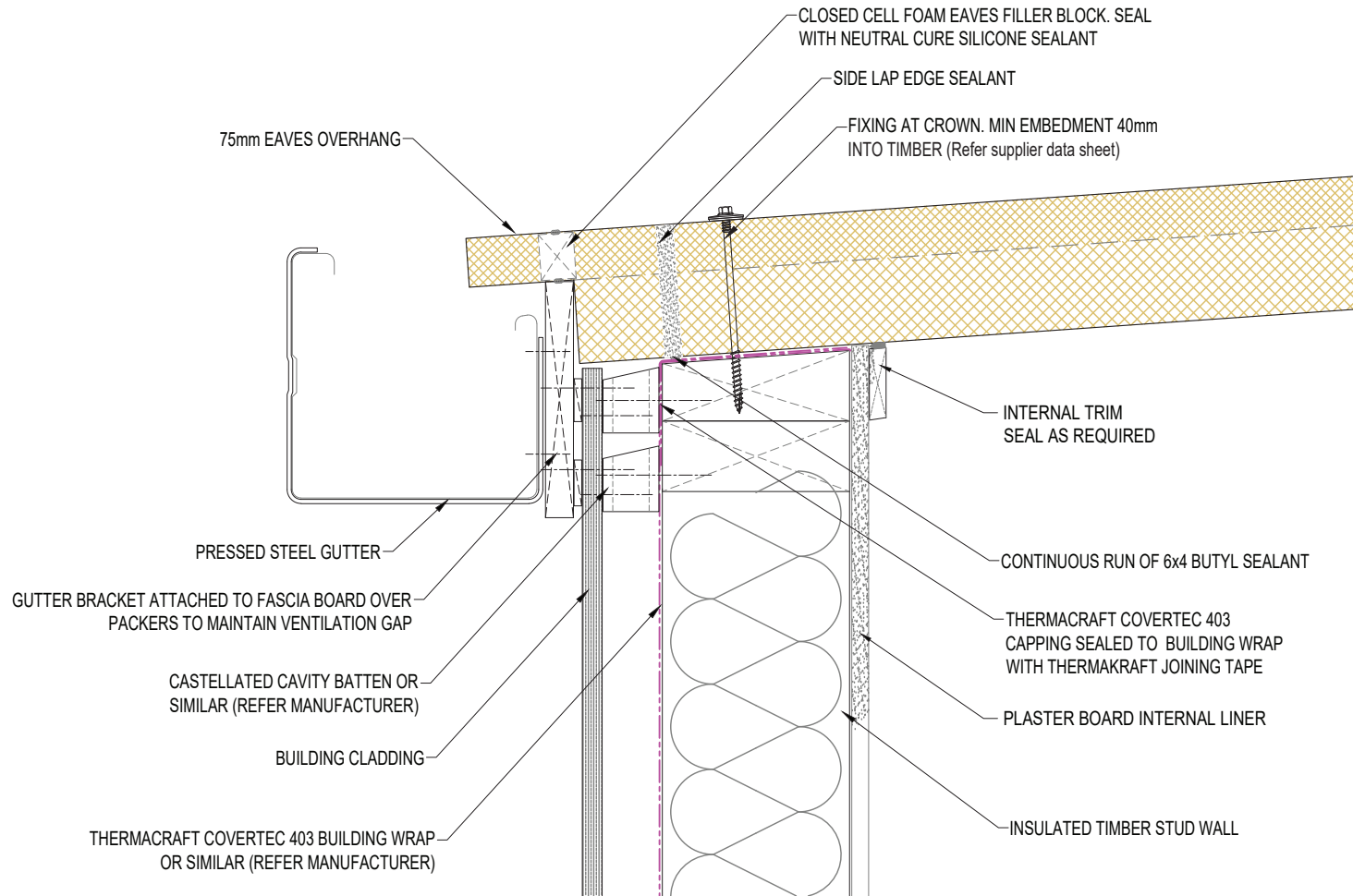
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KS1000RW - TIMBER ROOF STRUCTURE / CAVITY WALL - FLEXIBLE UNDERLAY



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW - TIMBER ROOF STRUCTURE / CAVITY WALL - FLEXIBLE UNDERLAY			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_30	SCALE 1:5	--	PAPER SIZE A4

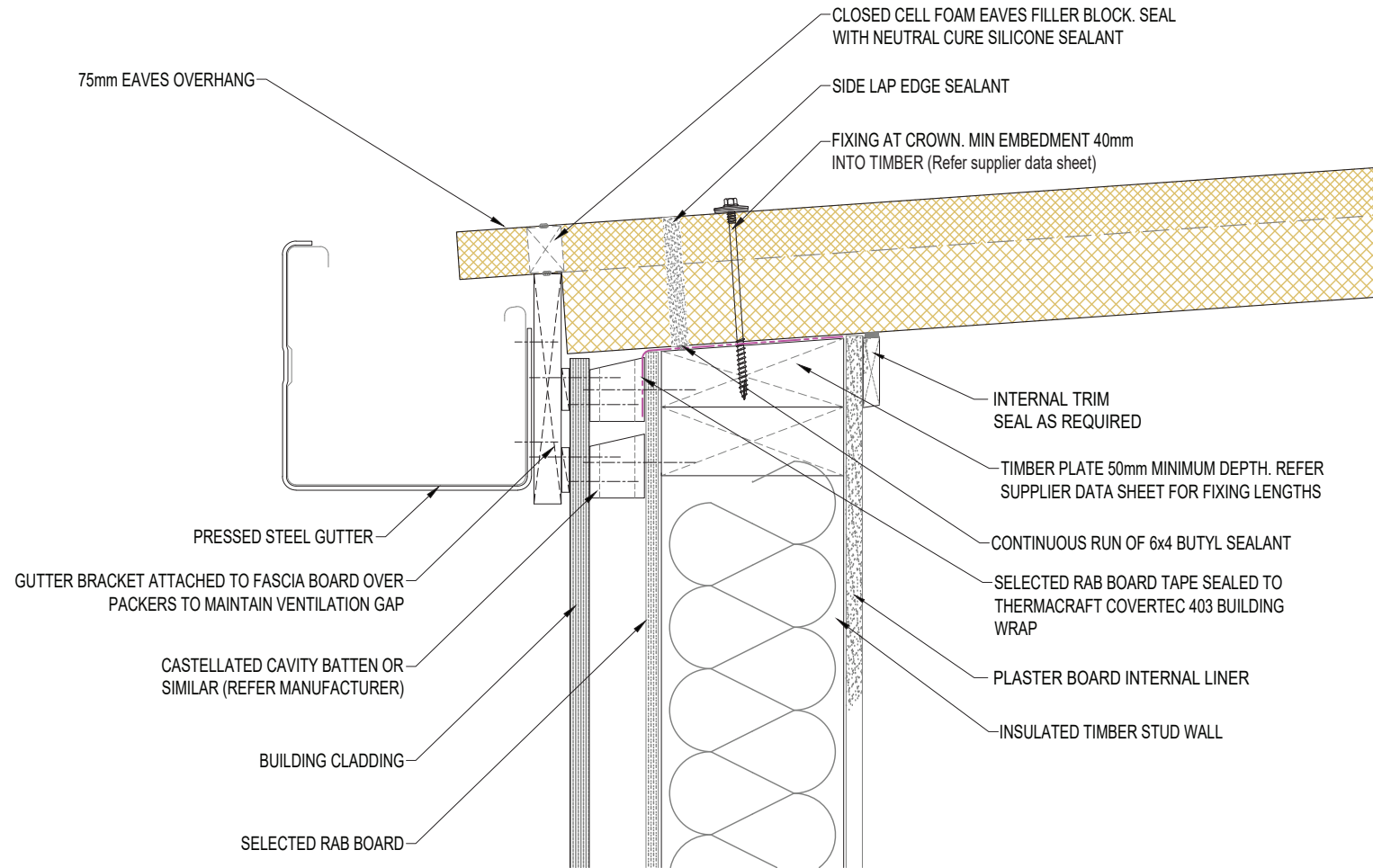
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KS1000RW - TIMBER ROOF STRUCTURE / CAVITY WALL - RIGID UNDERLAY



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW - TIMBER ROOF STRUCTURE / CAVITY WALL - RIGID UNDERLAY			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_31	SCALE 1:5	--	PAPER SIZE A4

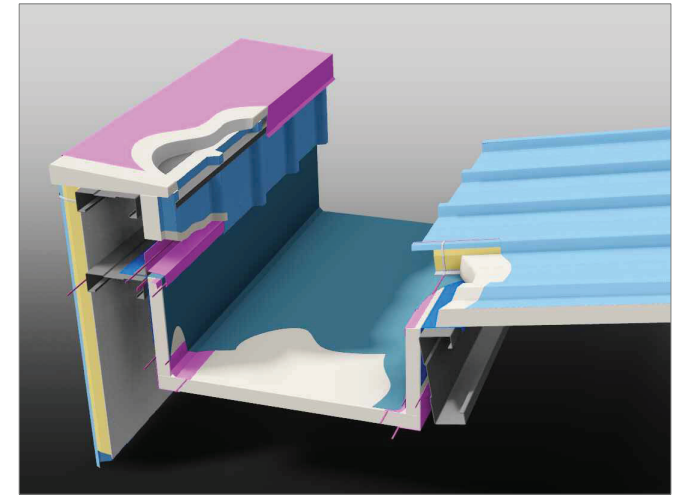
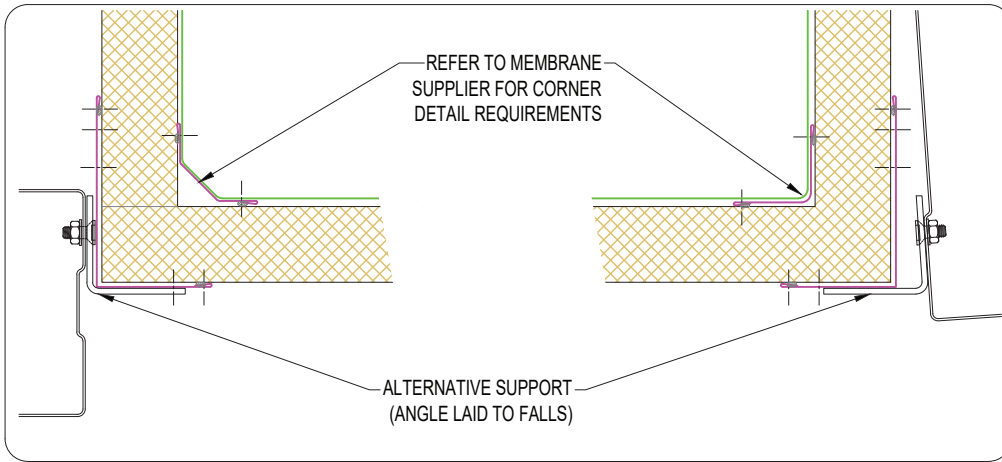
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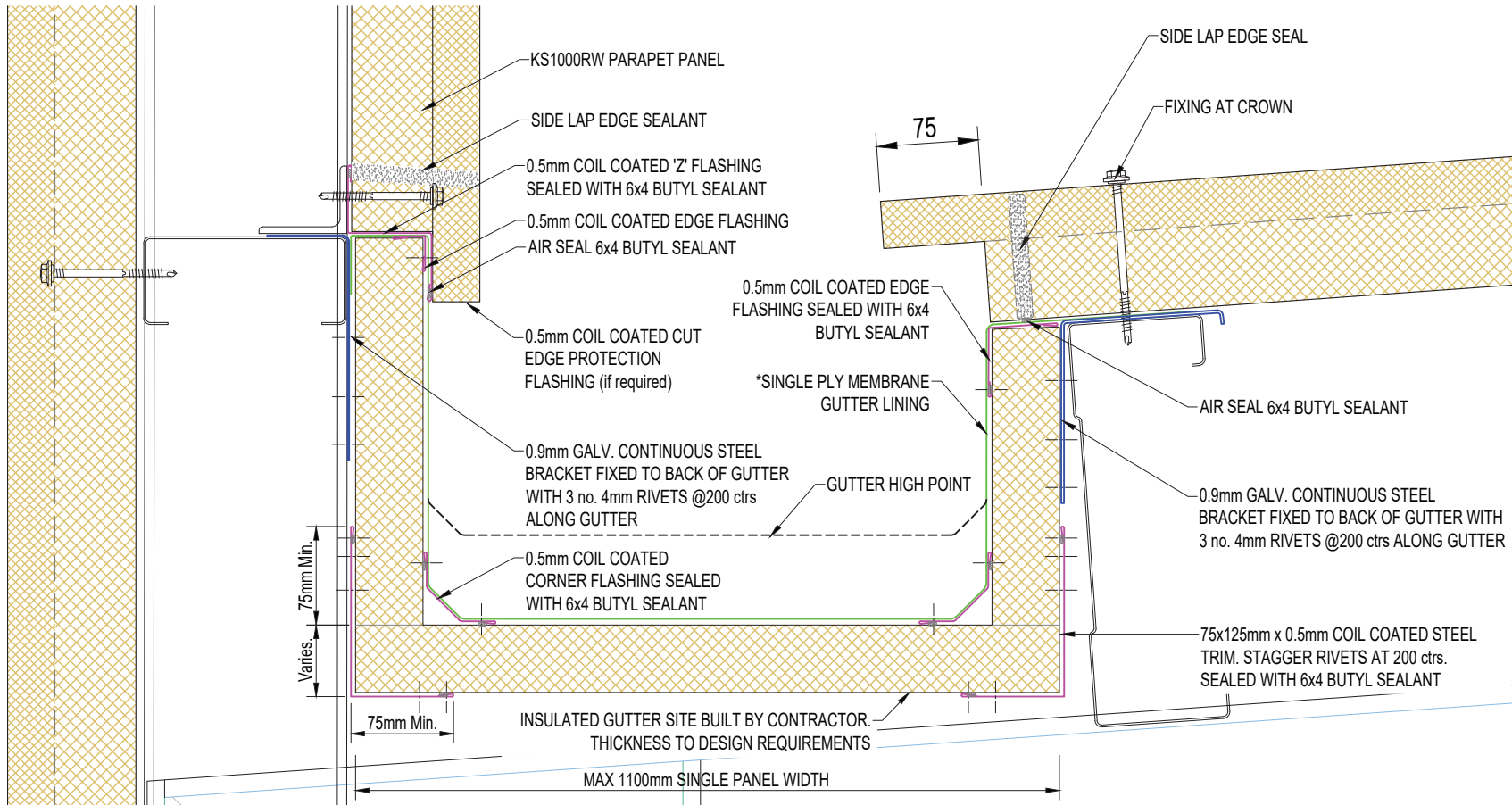


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KS1100CS GUTTER, KS1000RW ROOF & PARAPET WALL



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



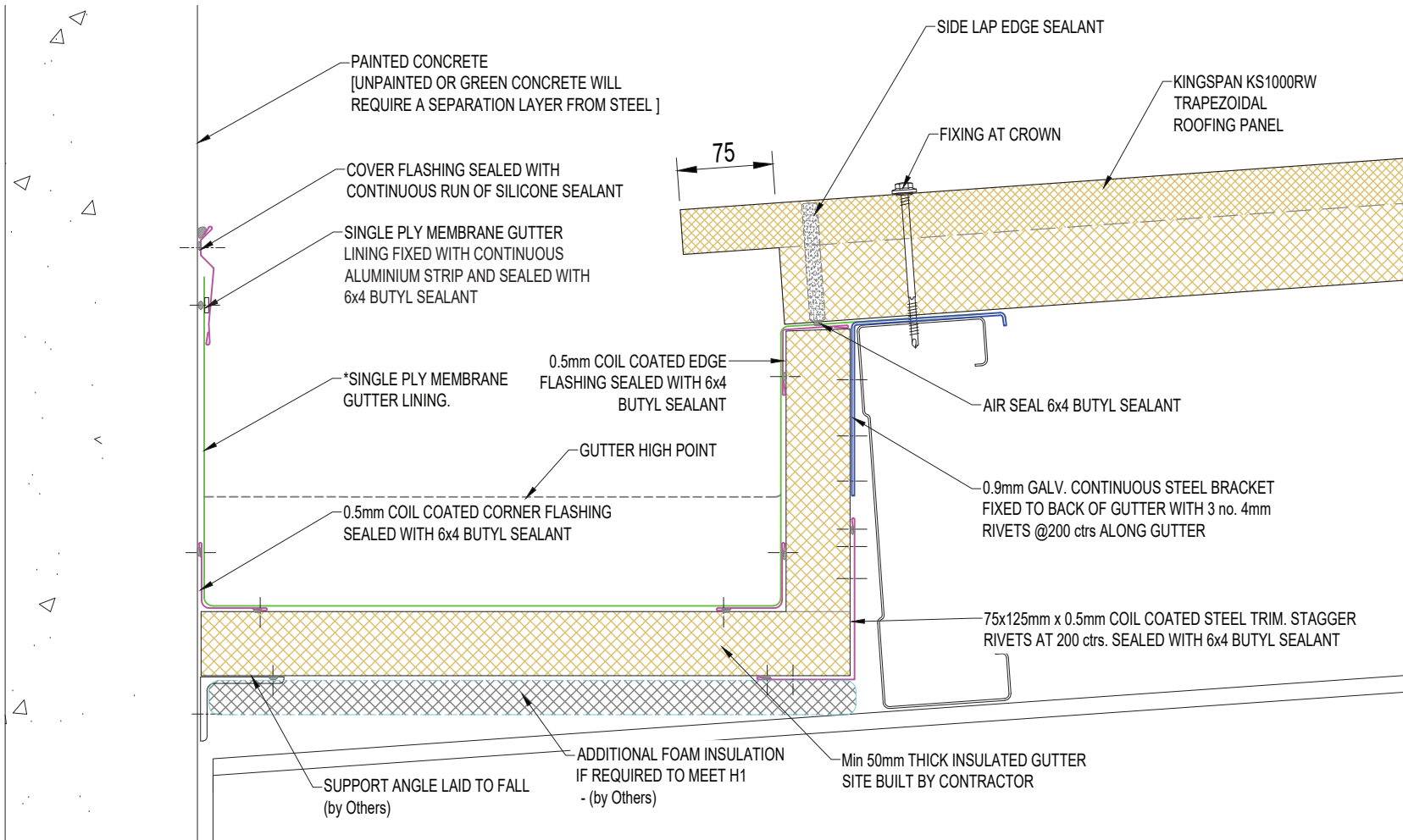
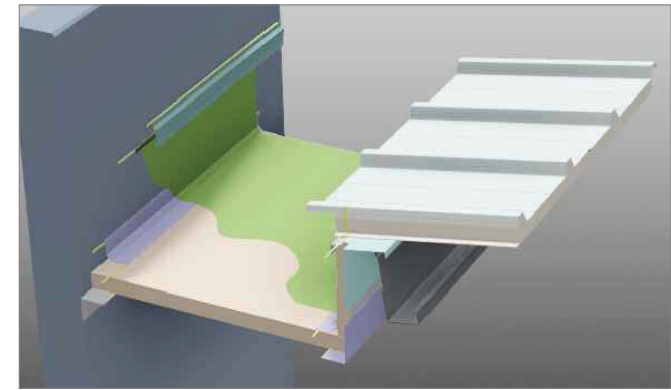
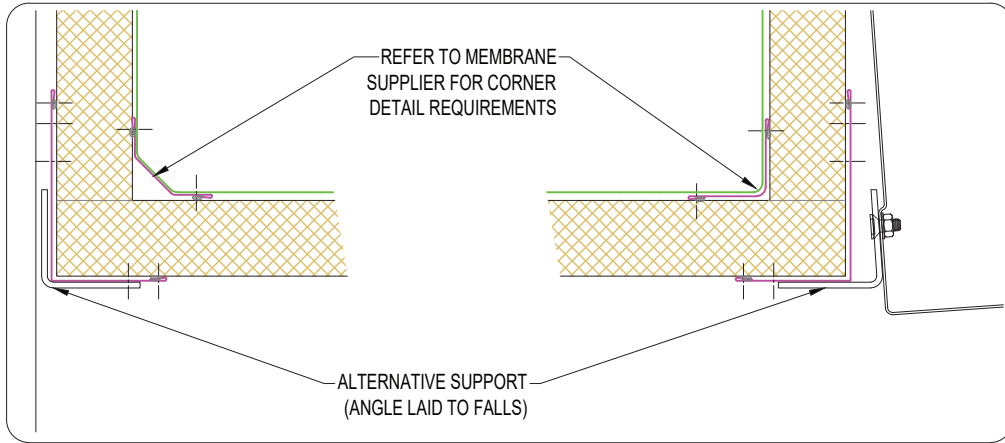
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1100CS GUTTER, KS1000RW ROOF & PARAPET WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_32	SCALE 1:5	PAPER SIZE A4

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KS1100CS GUTTER KS1000RW ROOF & PRECAST WALL



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

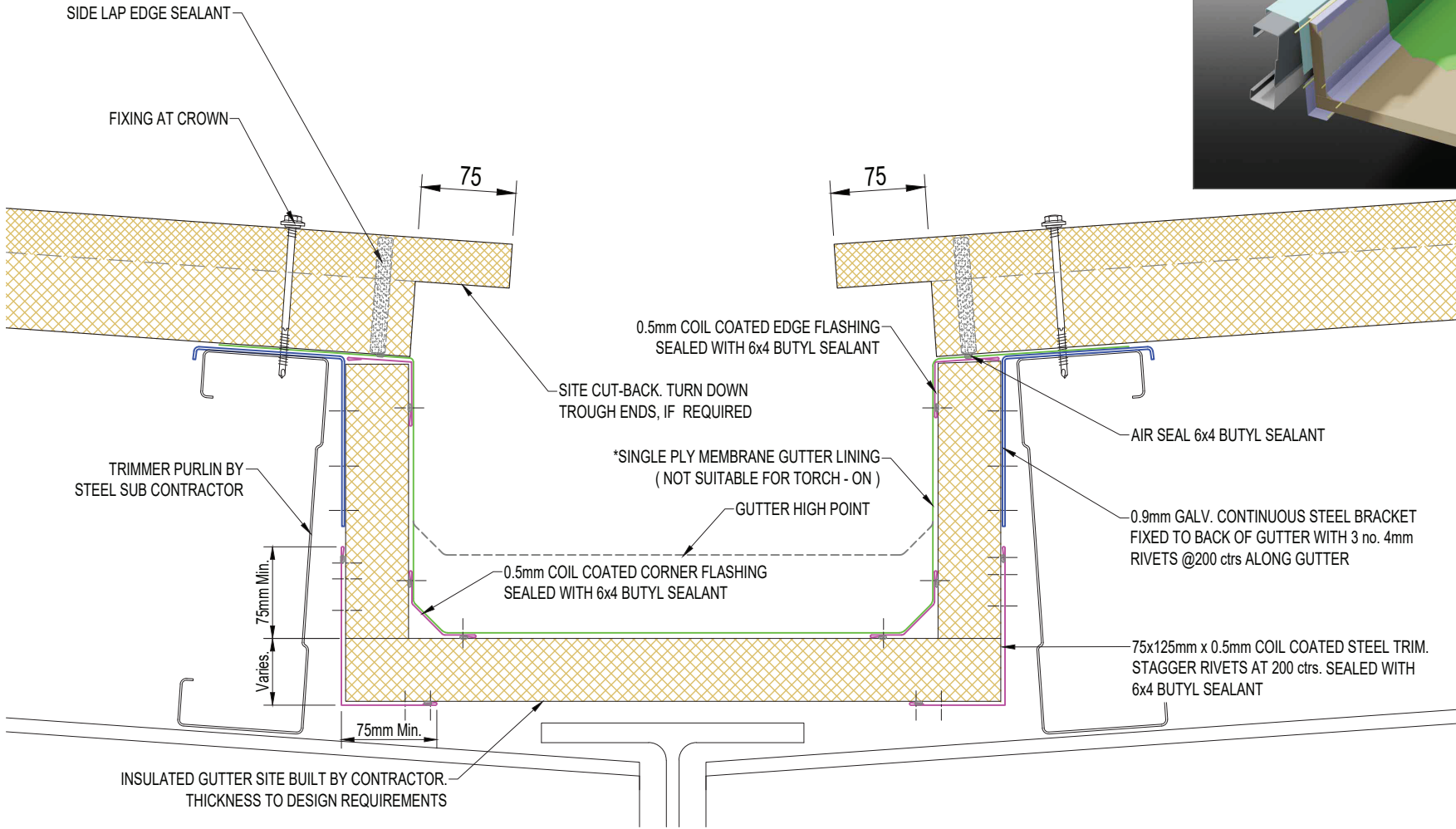
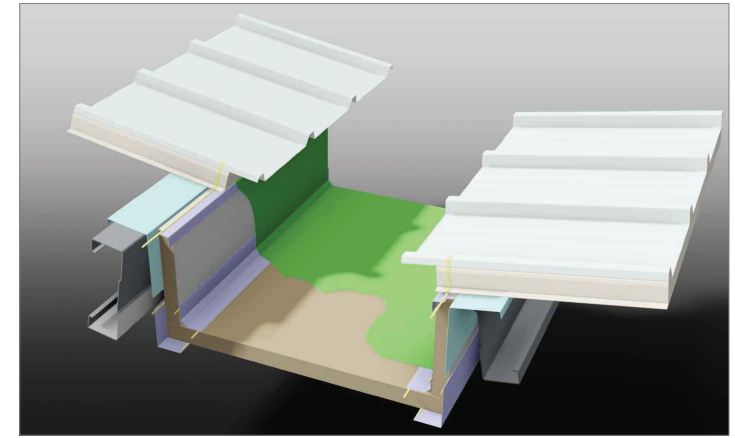
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1100CS GUTTER KS1000RW ROOF & PRECAST WALL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_33	SCALE 1:5	PAPER SIZE A4

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KS1100CS INTERNAL OR VALLEY GUTTER - KS1000RW ROOF



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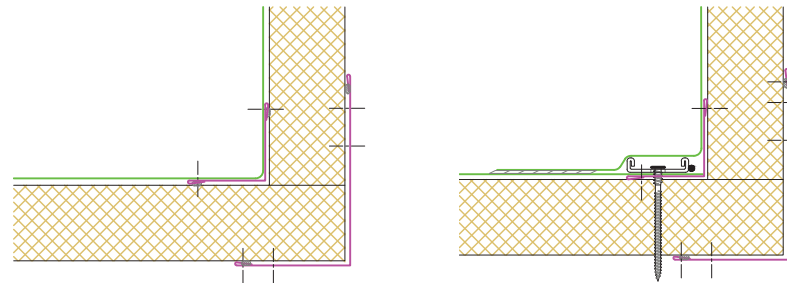
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1100CS INTERNAL OR VALLEY GUTTER - KS1000RW ROOF		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_34	SCALE 1:5	PAPER SIZE A4

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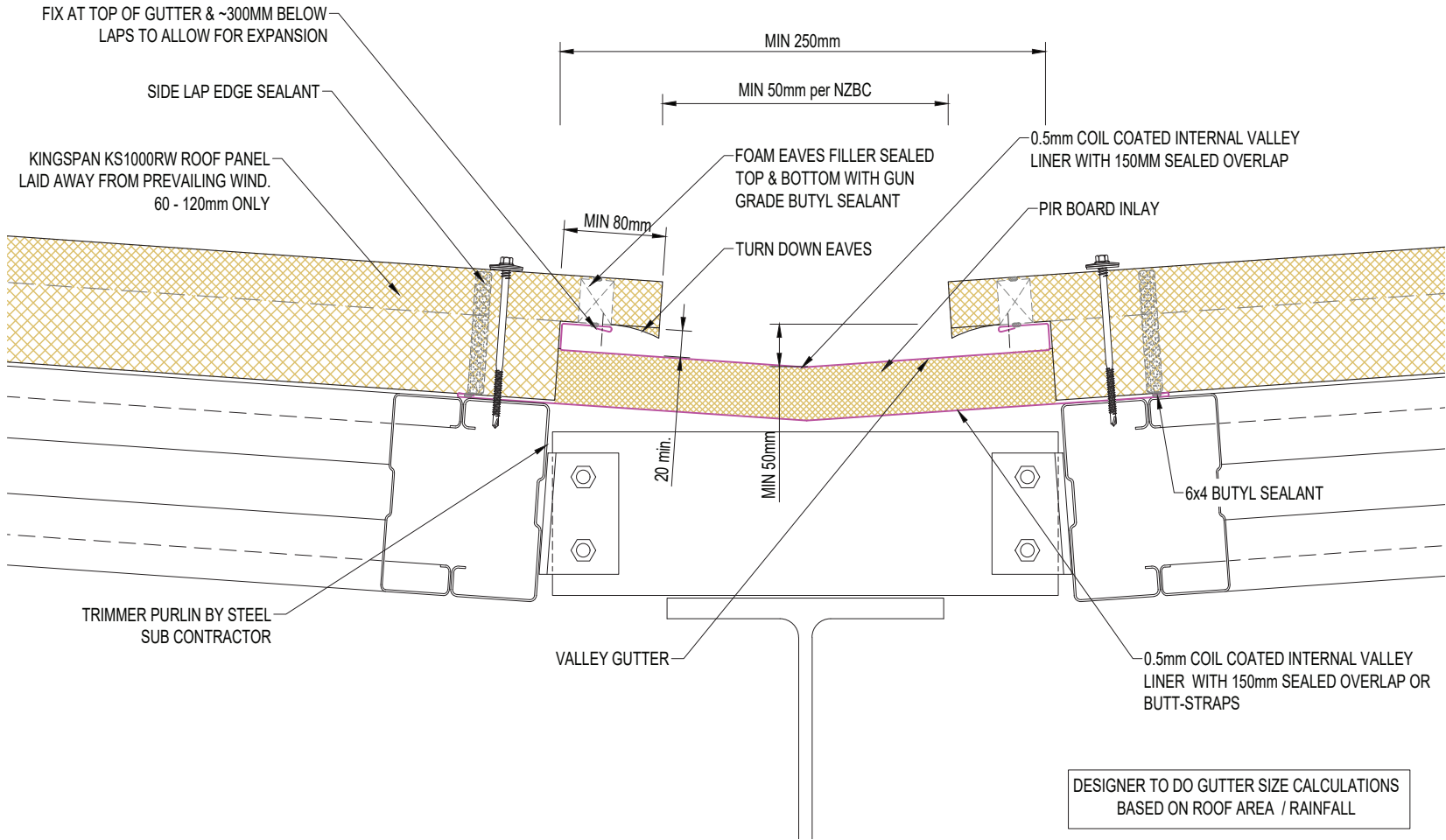
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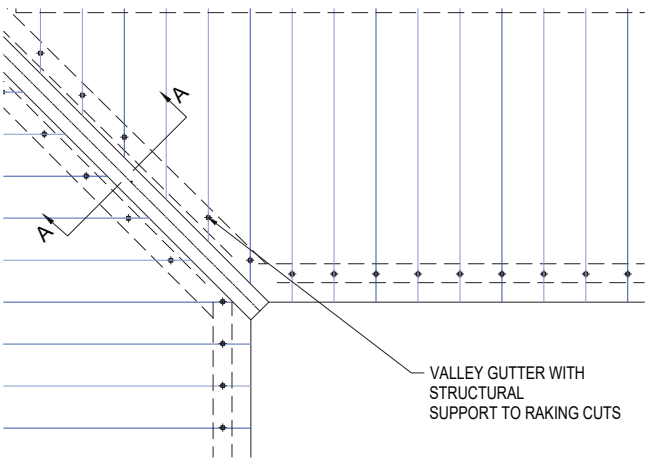
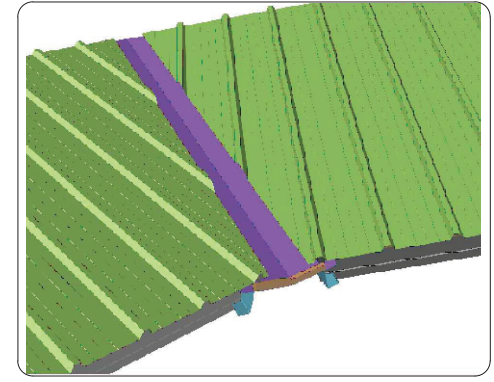
REFER MEMBRANE SUPPLIER FOR PRODUCT SPECIFIC DETAILING



KS1000RW VALLEY DETAIL_2



DESIGNER TO DO GUTTER SIZE CALCULATIONS BASED ON ROOF AREA / RAINFALL



A

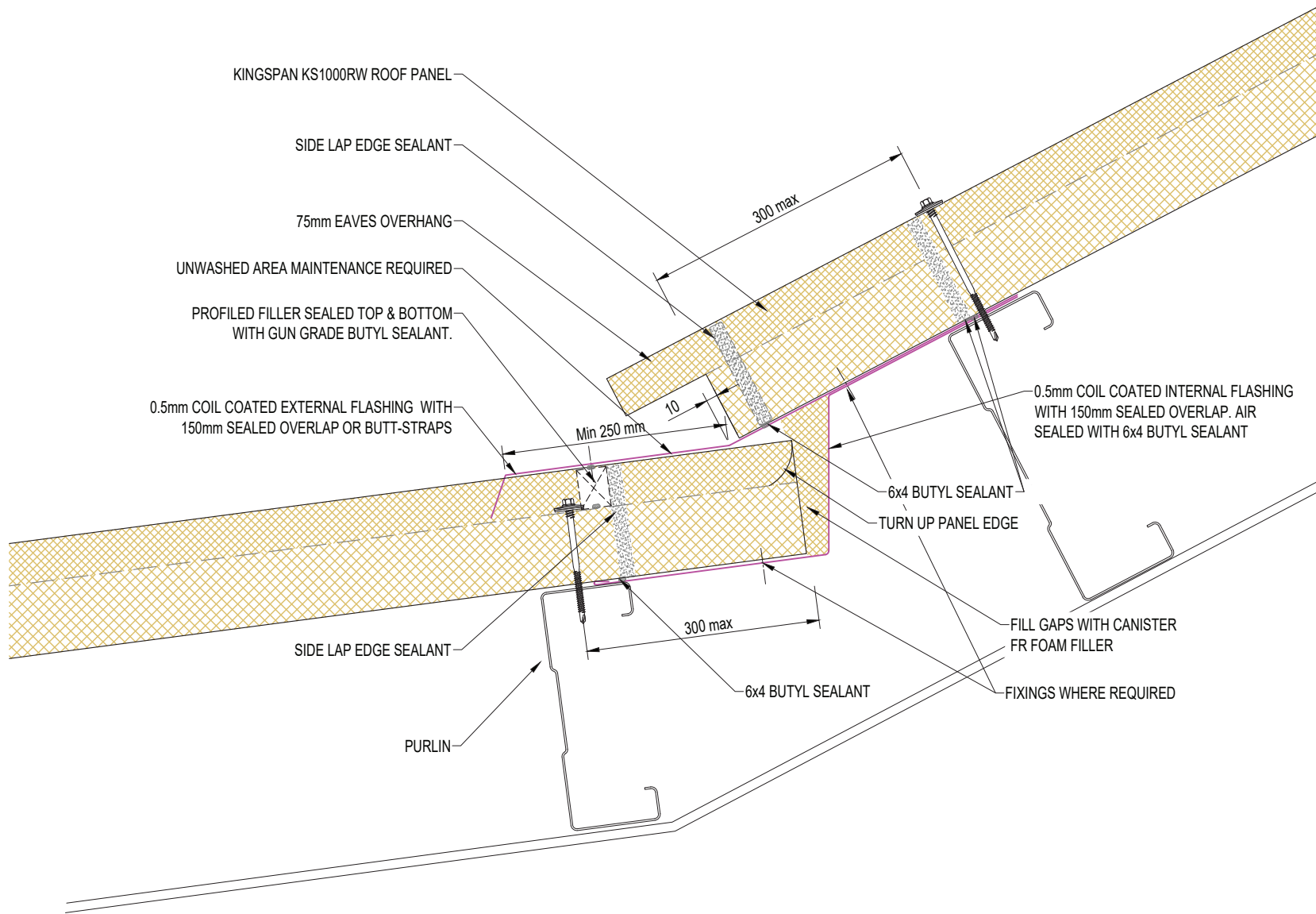
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW VALLEY DETAIL_2		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_35	SCALE 1:5	PAPER SIZE A4

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KS1000RW - CHANGE IN ROOF SLOPE 1



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION KS1000RW - CHANGE IN ROOF SLOPE 1			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_36	SCALE 1:5	--	PAPER SIZE A4

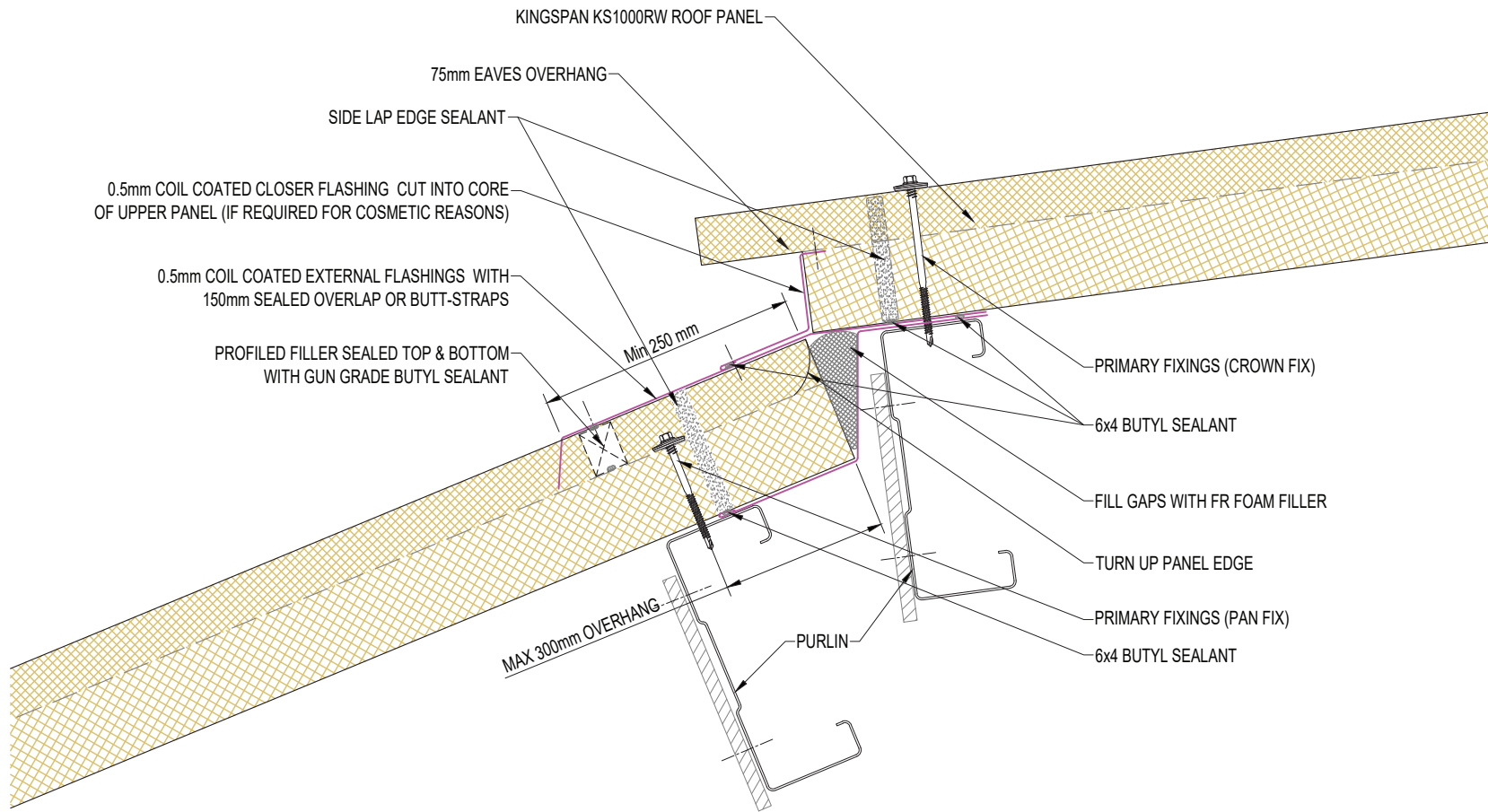
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KS1000RW - CHANGE OF ROOF SLOPE 2



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW - CHANGE OF ROOF SLOPE 2		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_37	SCALE 1:5	PAPER SIZE A4

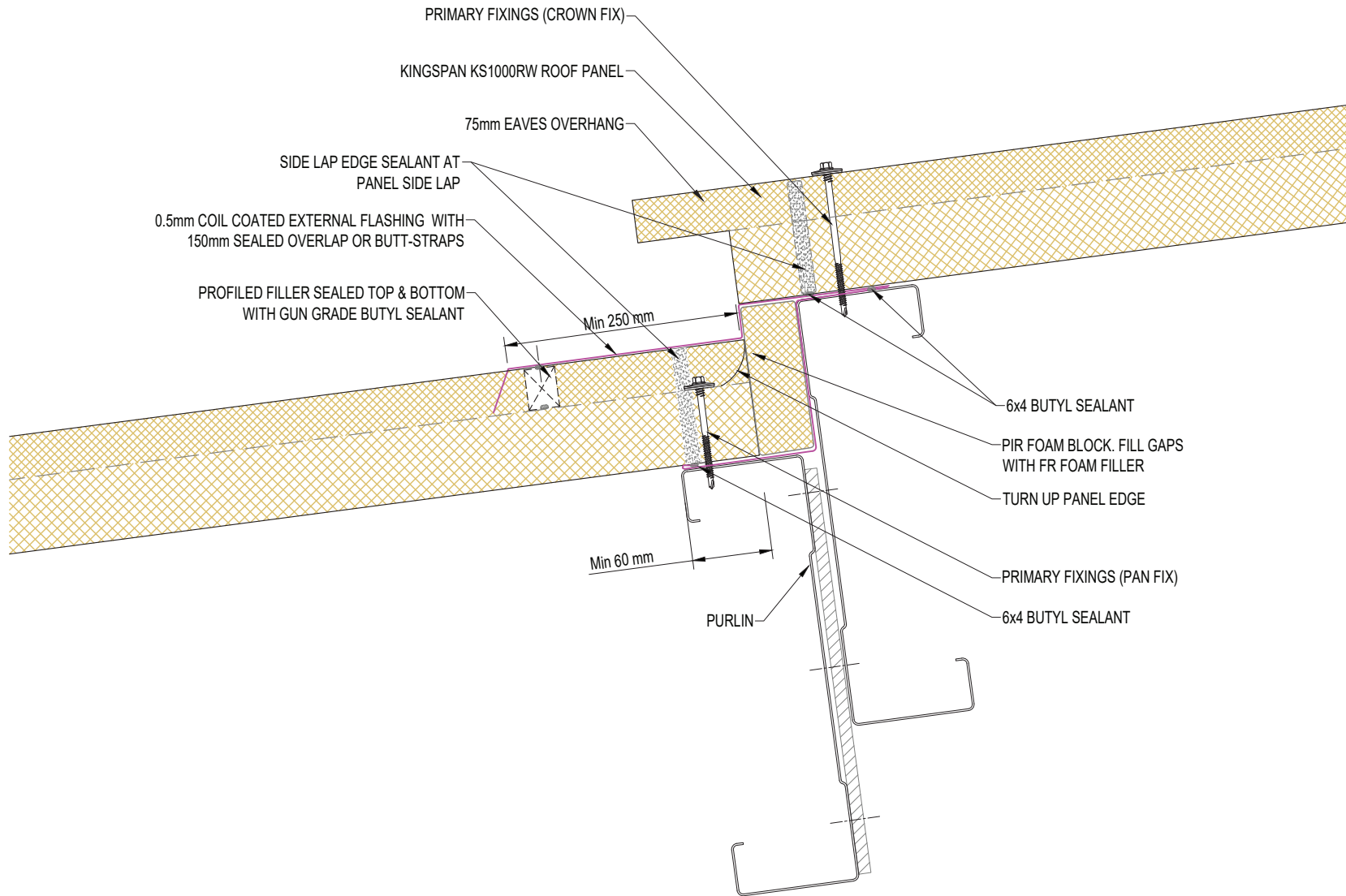
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KS1000RW - ROOF STEP DETAIL



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW - ROOF STEP DETAIL		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_38	SCALE 1:5	PAPER SIZE A4

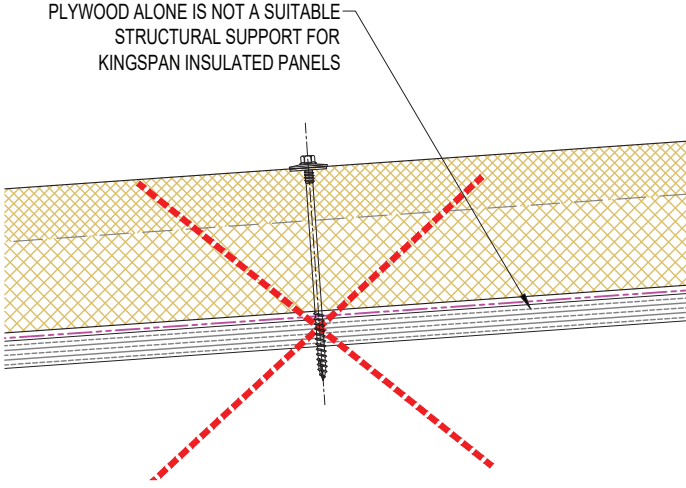
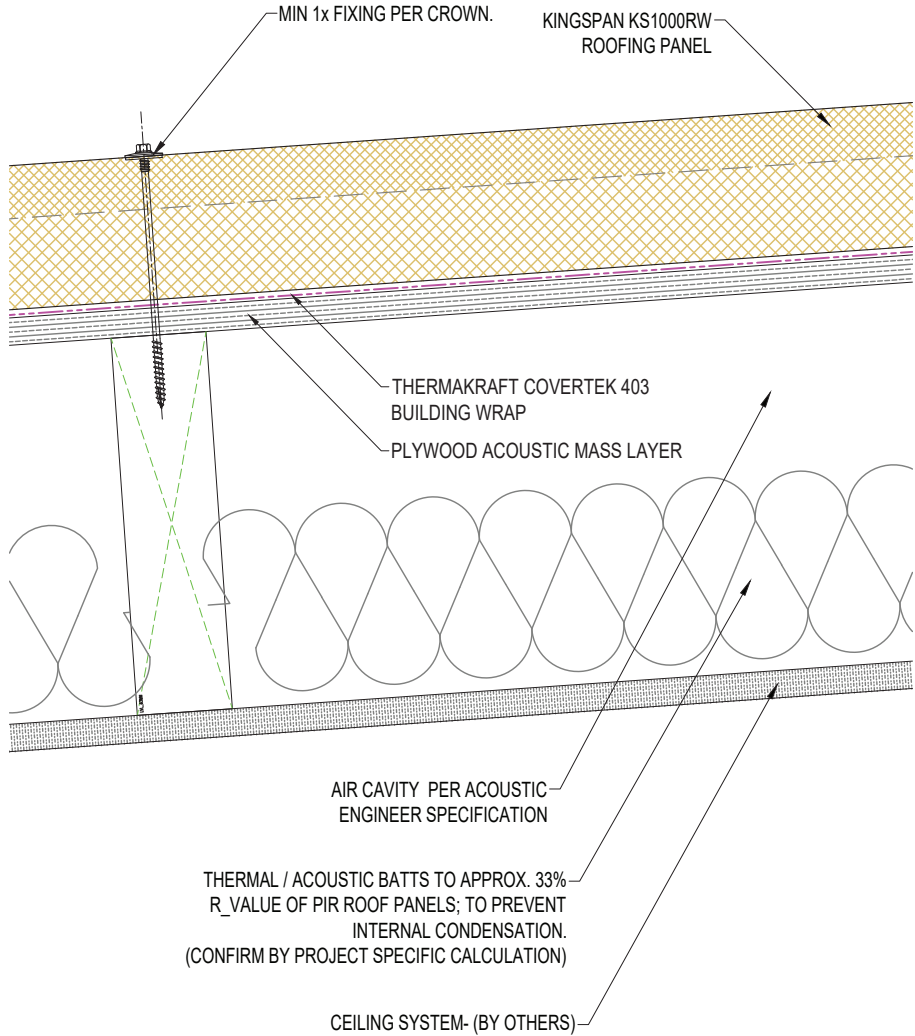
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KS1000RW - ACOUSTIC SKILLION ROOF



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION KS1000RW - ACOUSTIC SKILLION ROOF		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_39	SCALE 1:5	PAPER SIZE A4

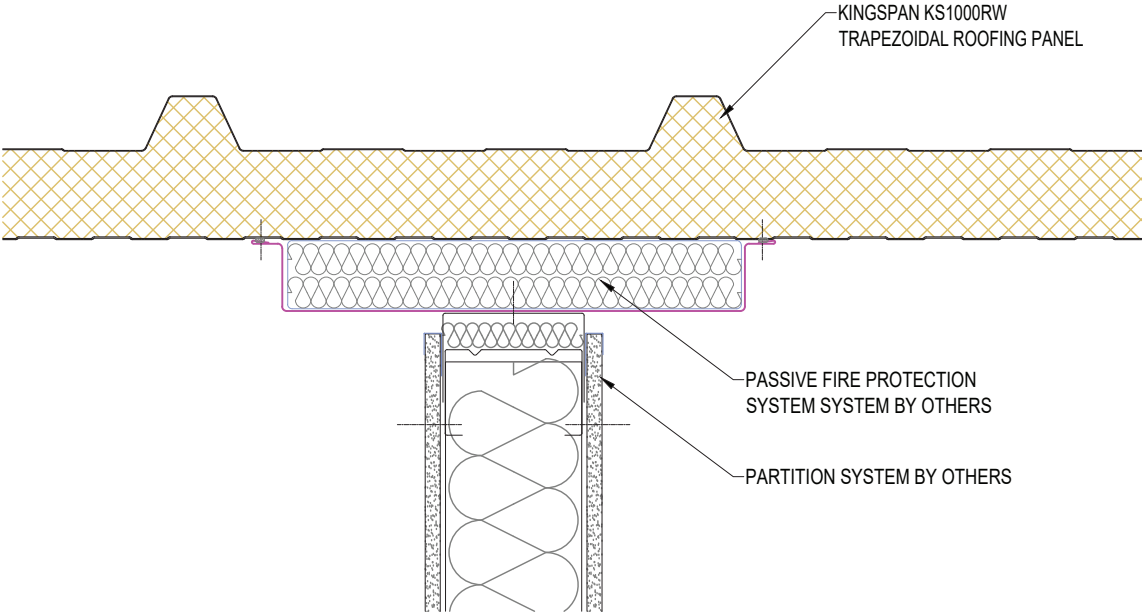
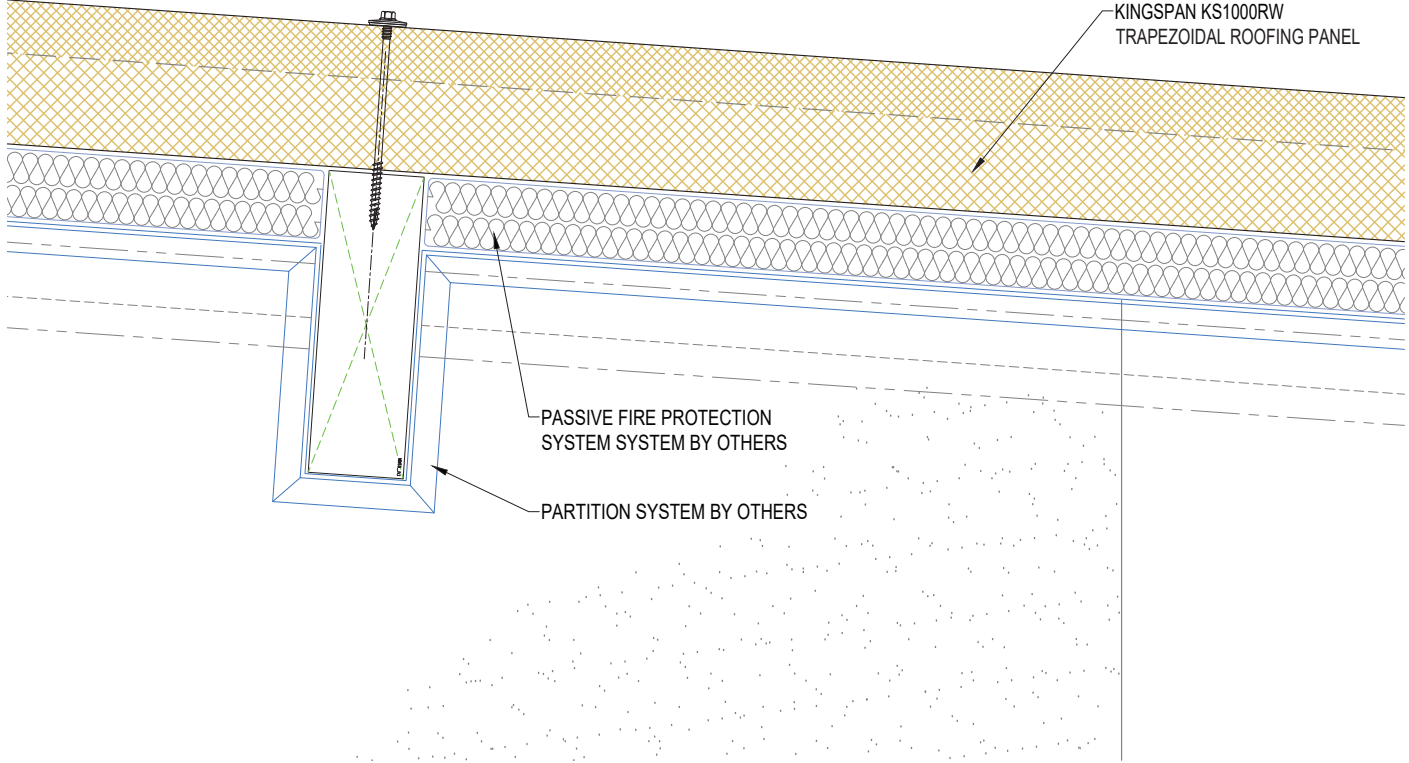
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PLASTERBOARD DEFLECTION HEAD DETAIL ALONG PANEL RUN



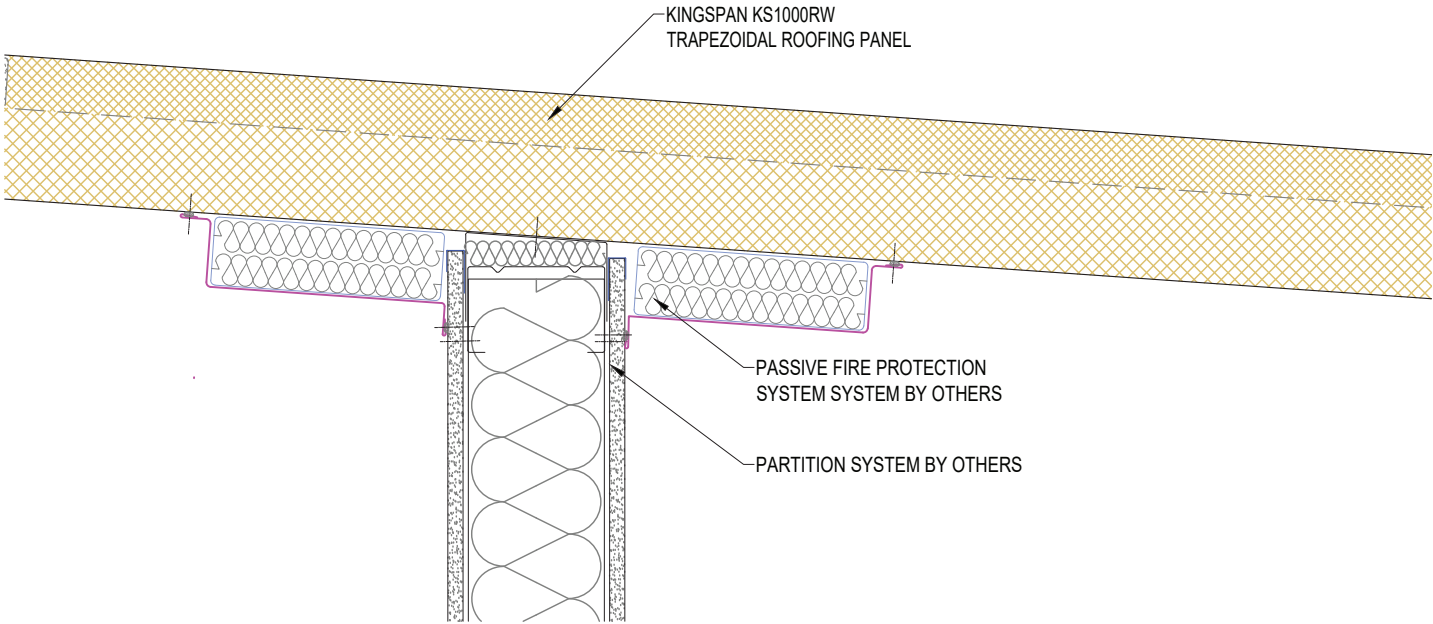
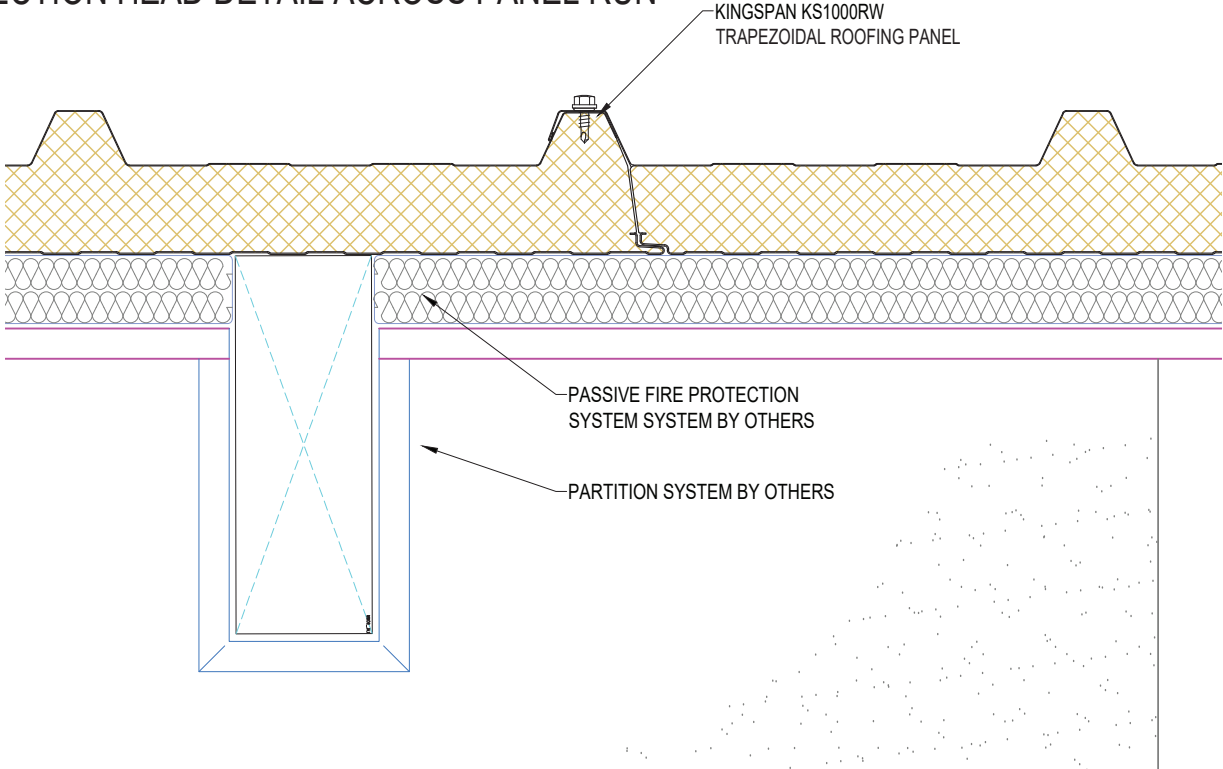
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION PLASTERBOARD DEFLECTION HEAD DETAIL ALONG PANEL RUN		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RS_40	SCALE 1:5	PAPER SIZE A4

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PLASTERBOARD DEFLECTION HEAD DETAIL ACROSS PANEL RUN



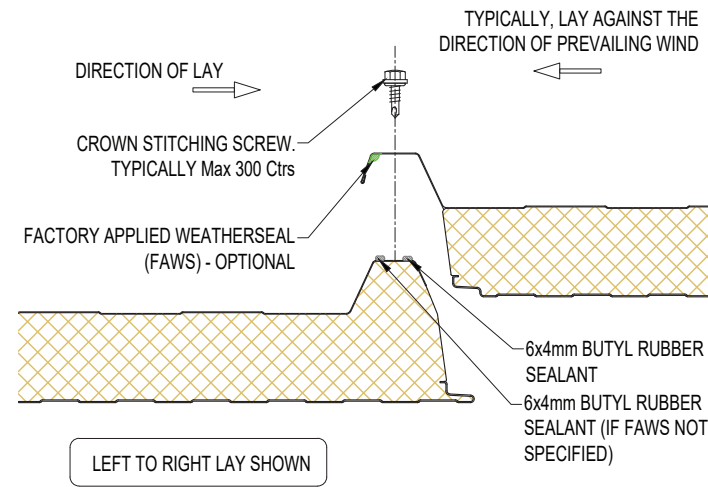
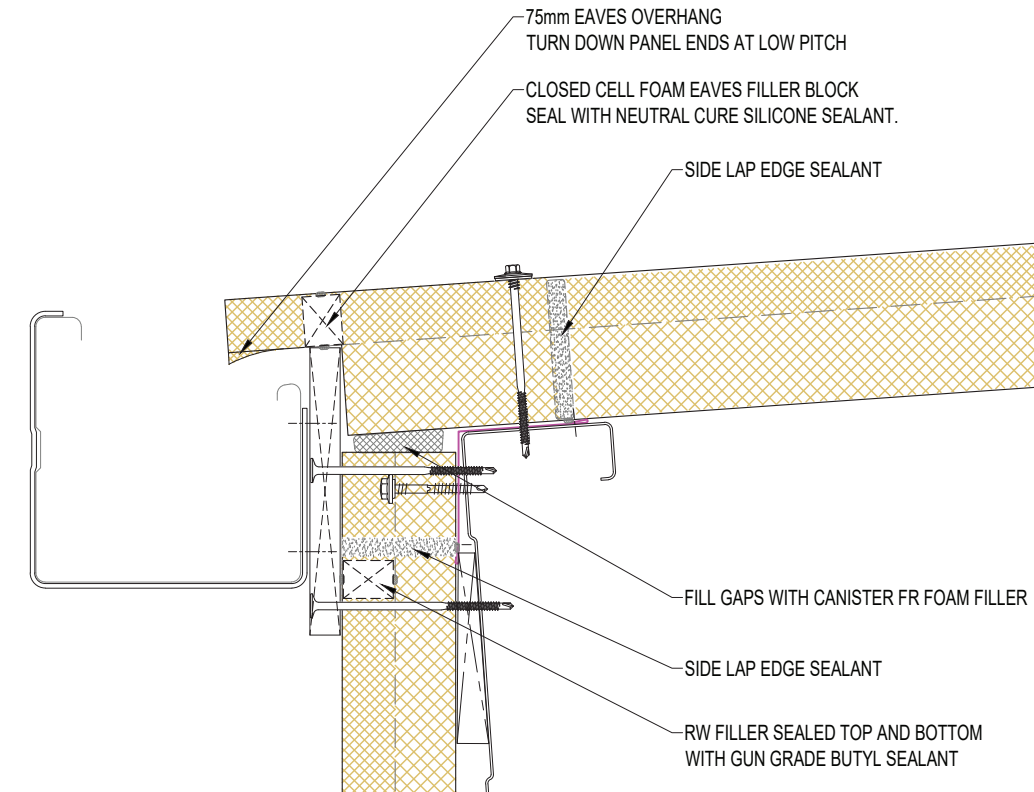
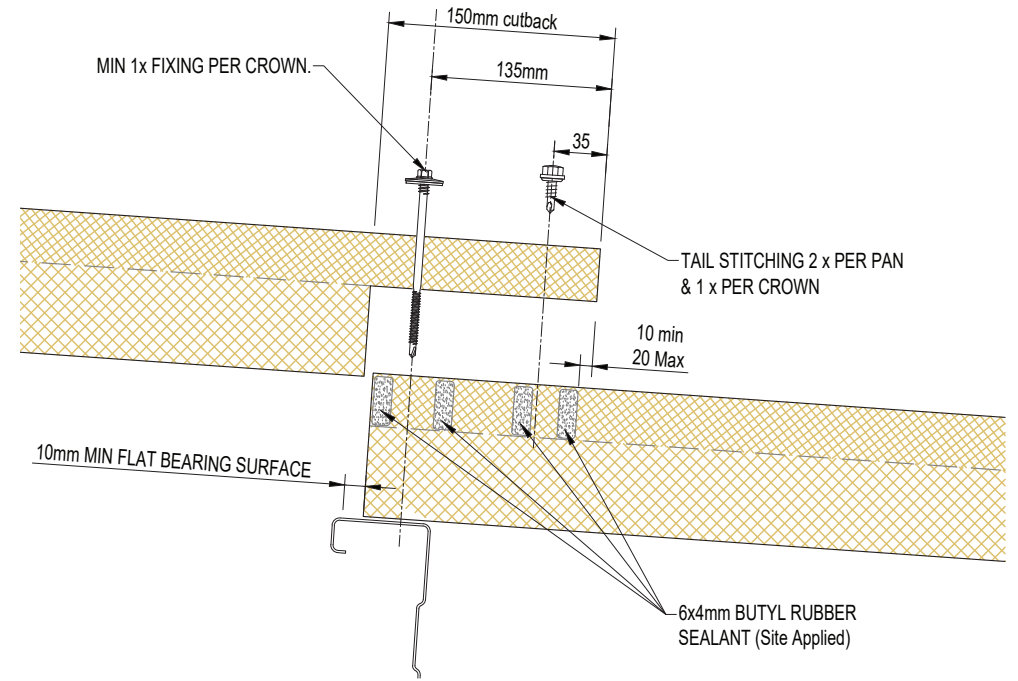
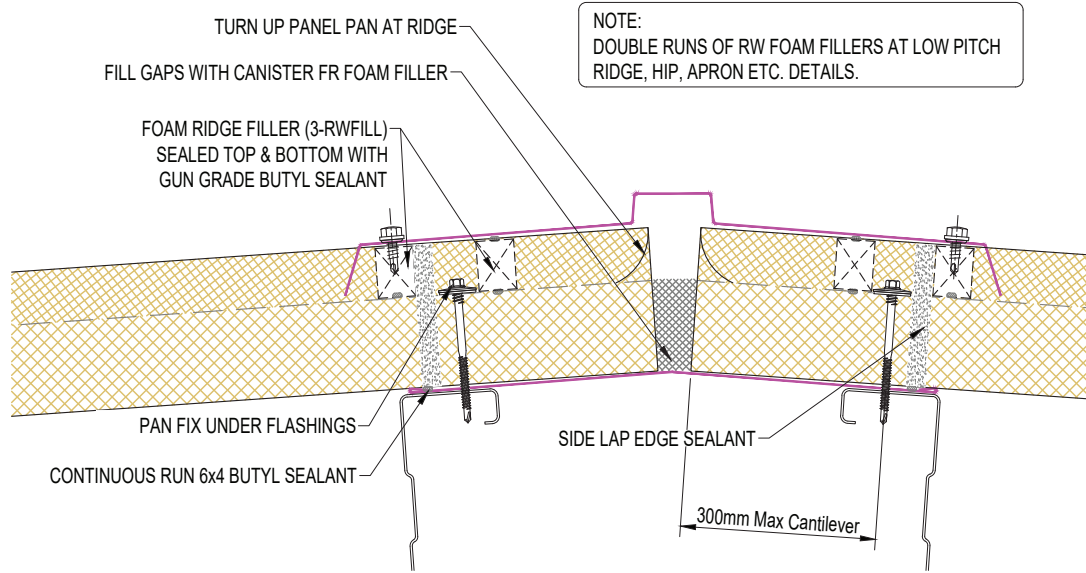
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION PLASTERBOARD DEFLECTION HEAD DETAIL ACROSS PANEL RUN			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RS_41	SCALE 1:5	--	PAPER SIZE A4

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LOW PITCH DETAILS - 3° MINIMUM PITCH (AFTER DEFLECTION)



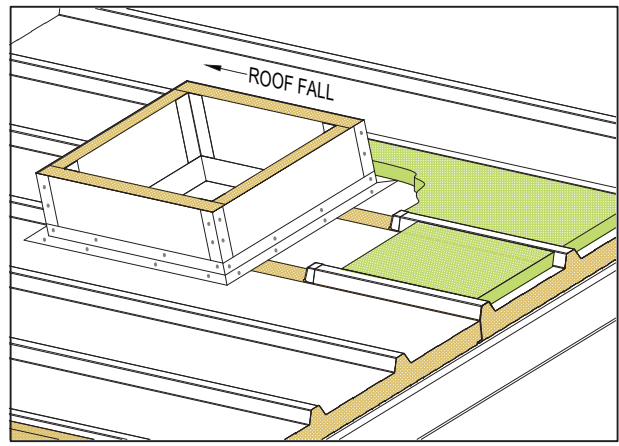
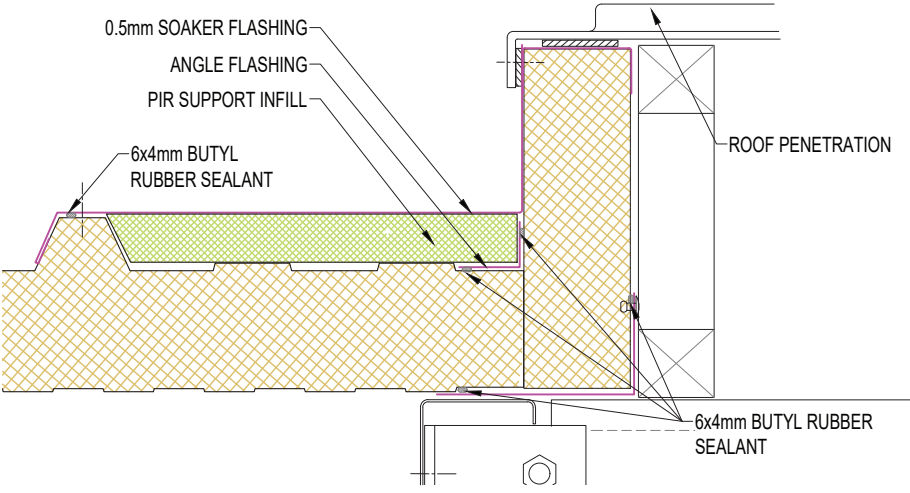
SYSTEM KS 1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION LOW PITCH DETAILS - 3° MINIMUM PITCH (AFTER DEFLECTION)		
APPROVED BY JS	DATE 15.11.23	REVISION [-]
DRG REF: RW_RS_42	SCALE 1:5	PAPER SIZE A4

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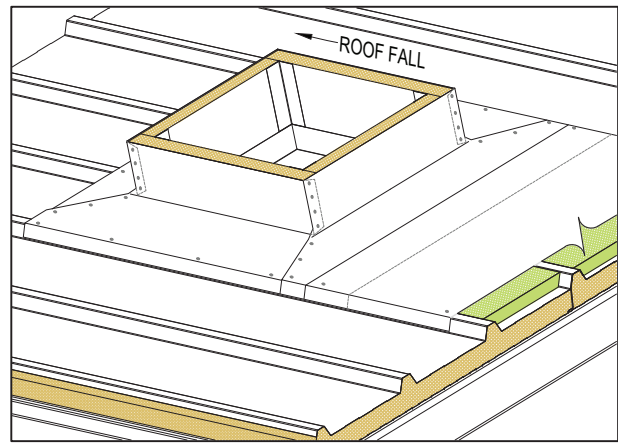
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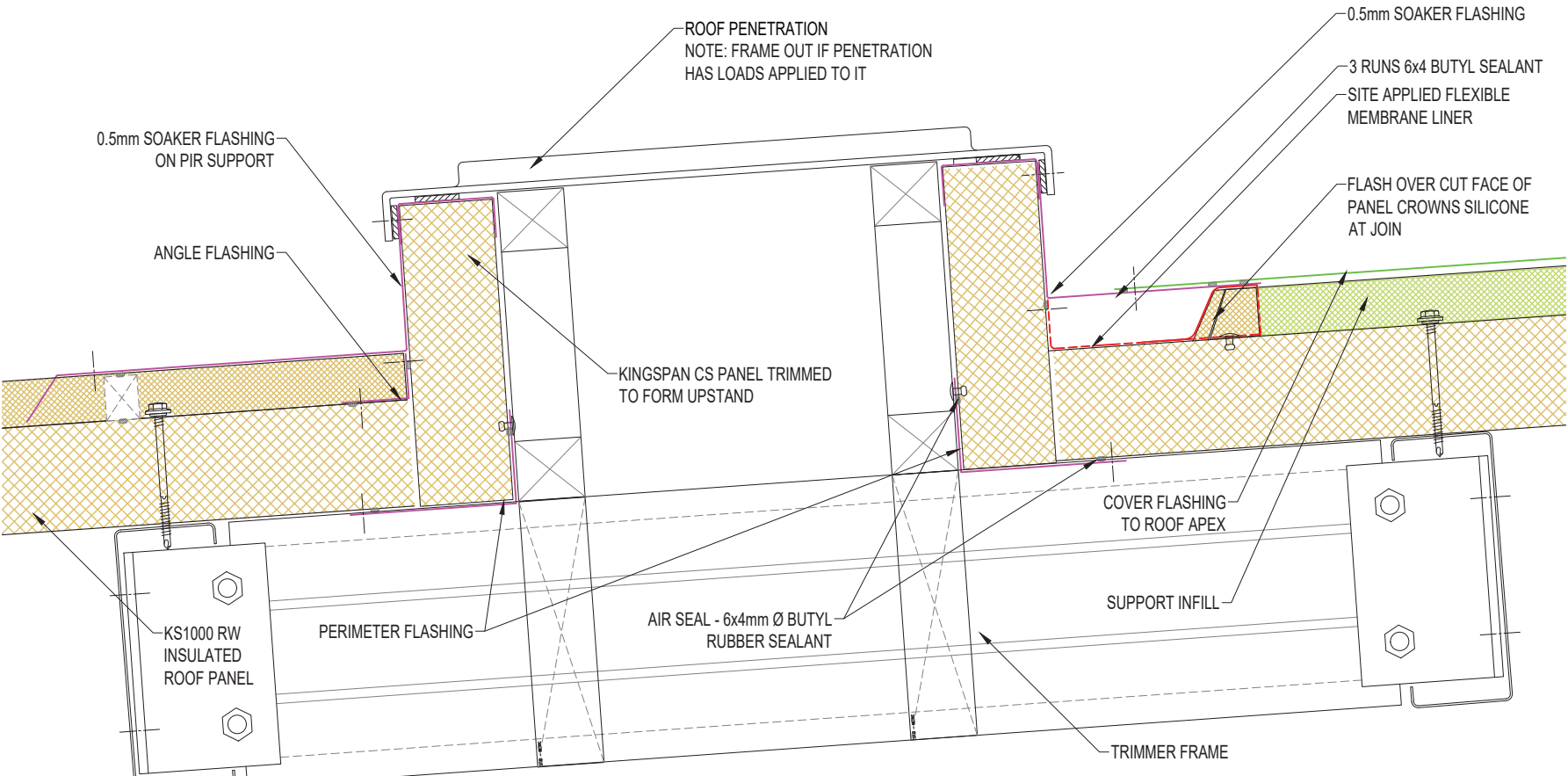
FLAT SOAKER FLASHING PIR SUPPORT



PENETRATIONS SEALED ON ALL FOUR SIDES PRIOR TO INSTALLATION OF BACK TRAY



PERIMETER SEAL AROUND THE ENTIRE OPENING



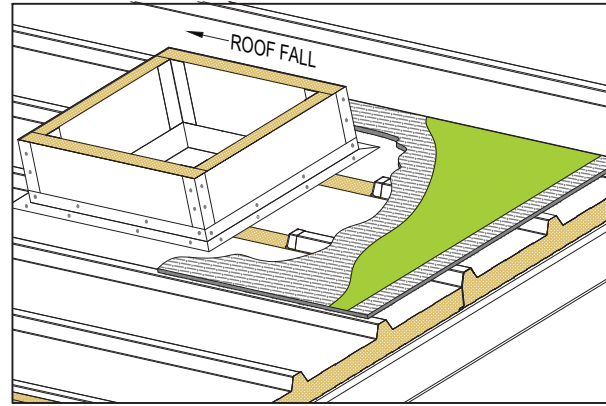
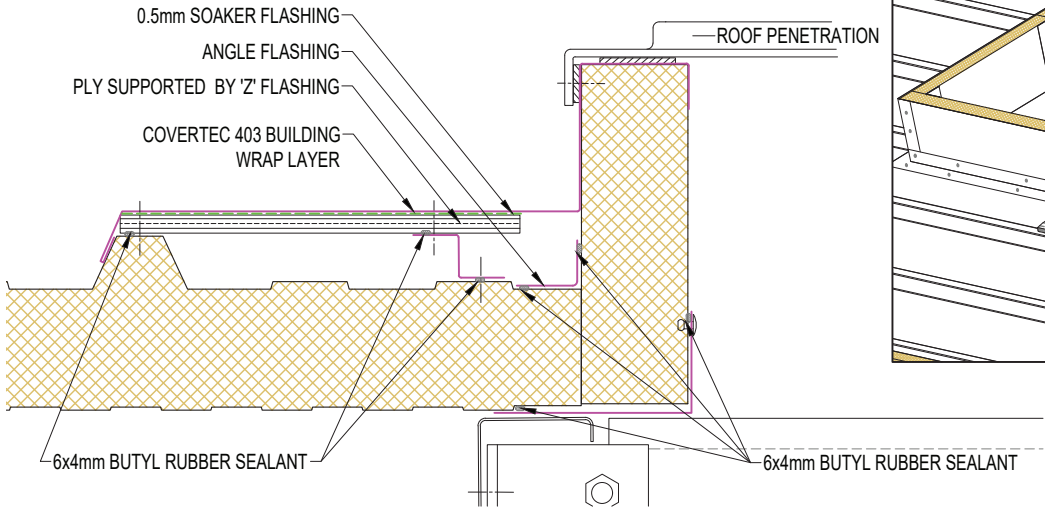
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION FLAT SOAKER FLASHING PIR SUPPORT		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RP_01	SCALE 1:5	PAPER SIZE A4

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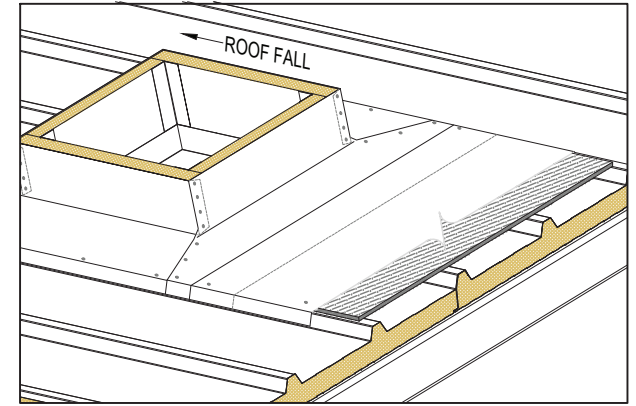
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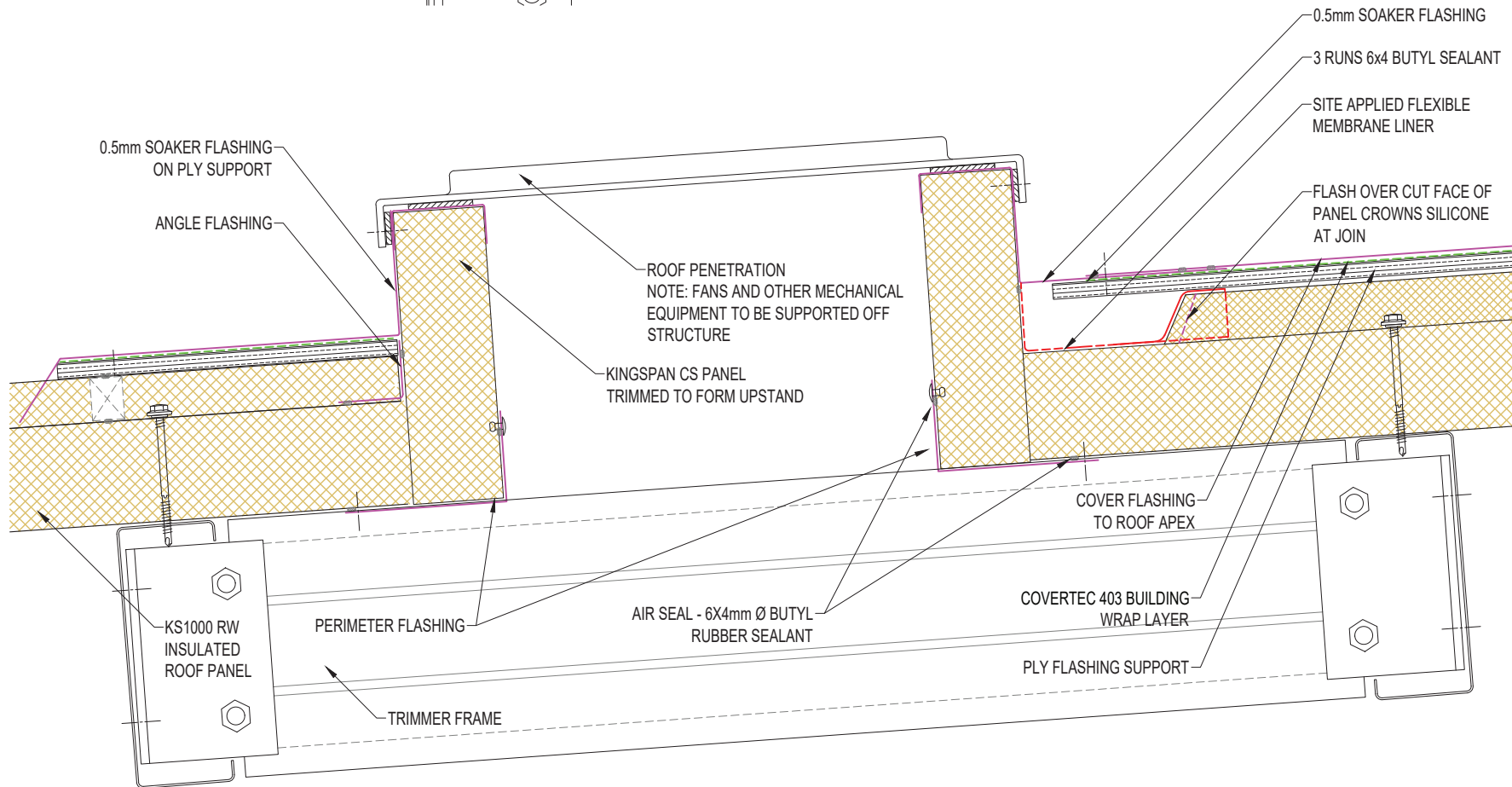
FLAT SOAKER FLASHING PLY SUPPORT



BUILDING WRAP ON PLY PRIOR TO INSTALLATION OF BACK TRAY



BACK TRAY FLASHING OVER BUILDING WRAP ON PLY.



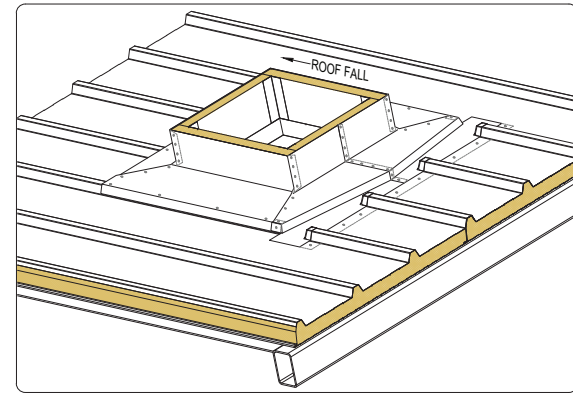
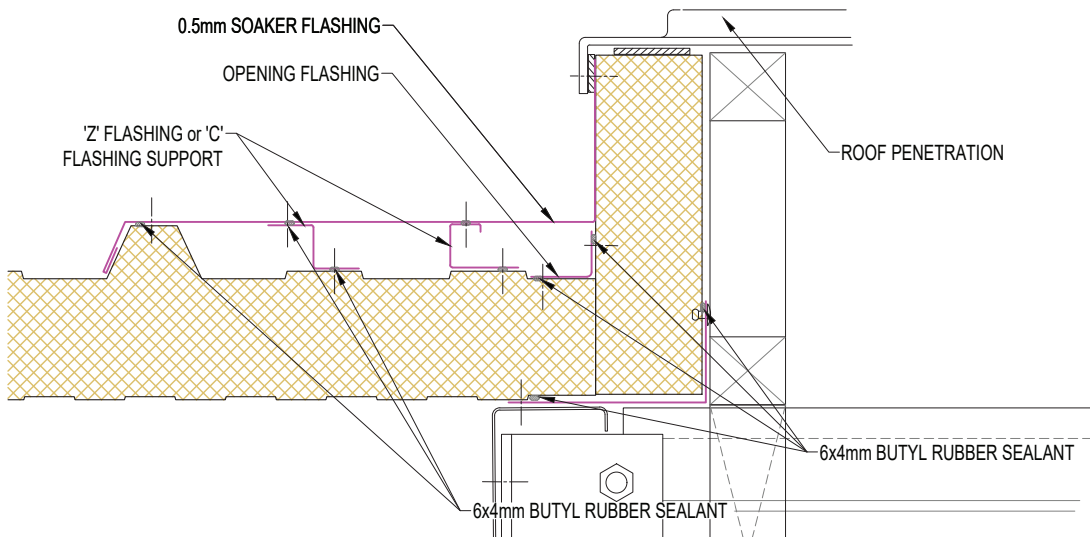
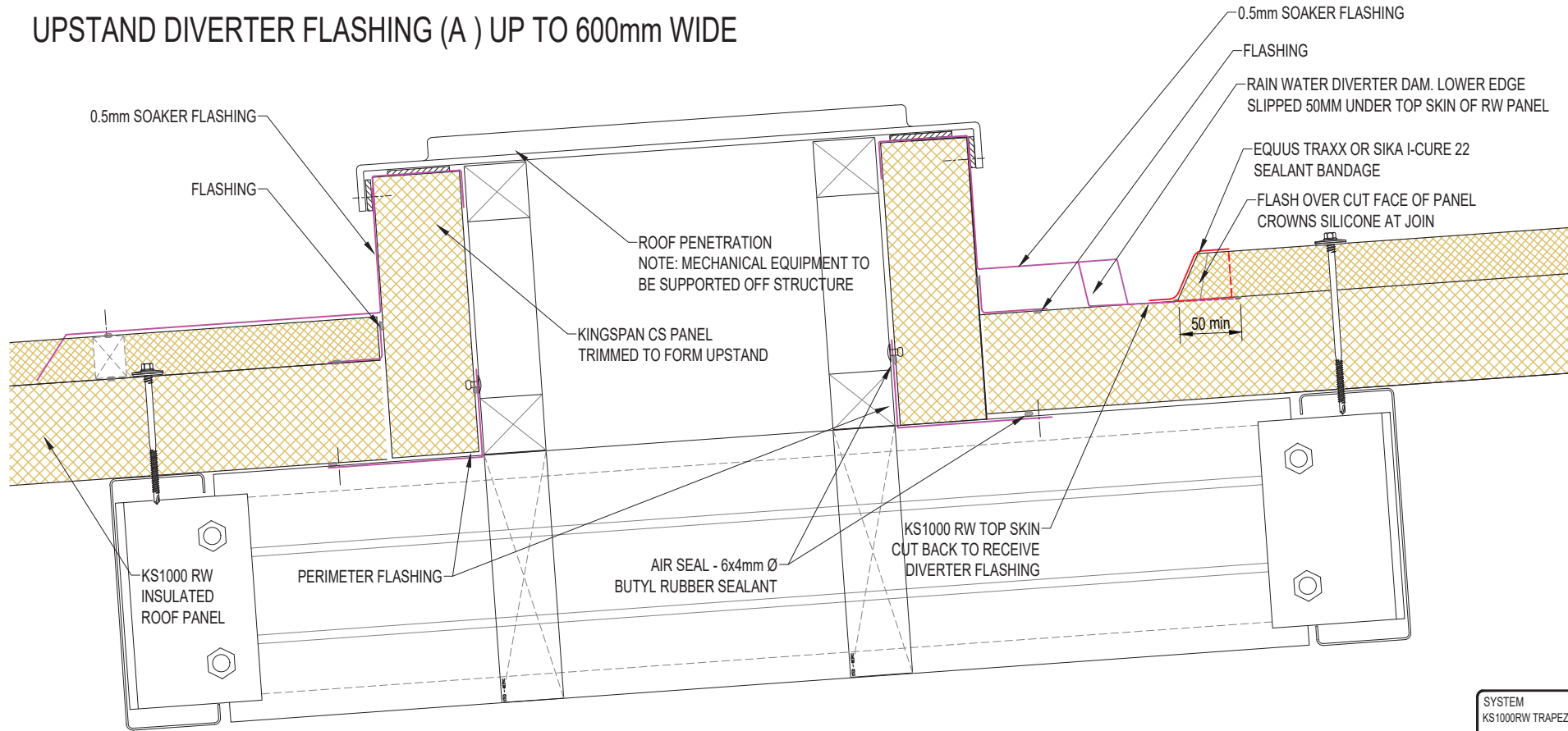
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023			
DESCRIPTION FLAT SOAKER FLASHING PLY SUPPORT			
APPROVED BY JS	DATE 06.11.23	REVISION [-]	
DRG REF: RW_RP_02	SCALE 1:5	--	PAPER SIZE A4

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UPSTAND DIVERTER FLASHING (A) UP TO 600mm WIDE



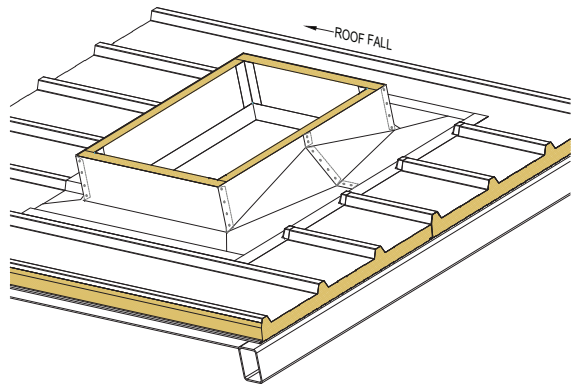
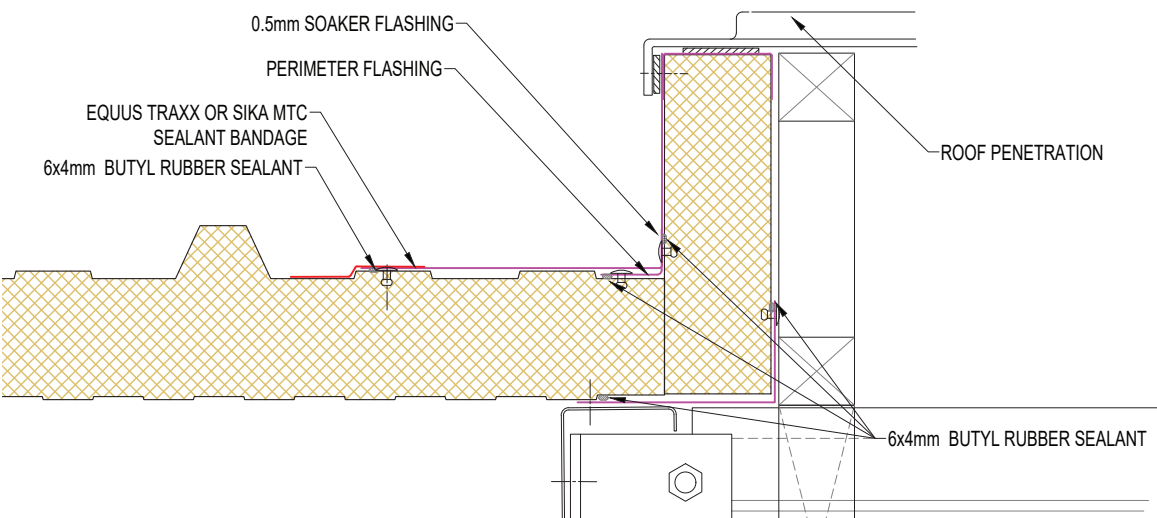
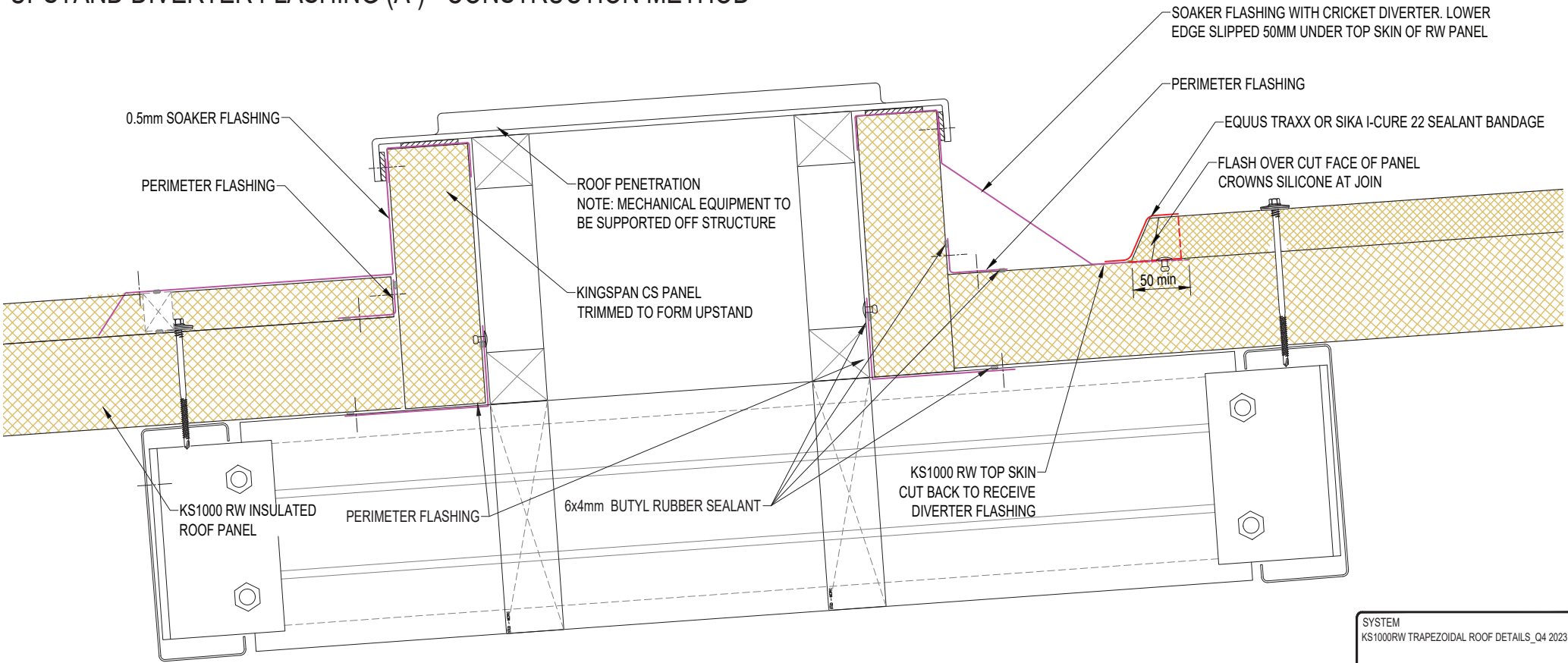
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION UPSTAND DIVERTER FLASHING (A)		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RP_03	SCALE 1:5	PAPER SIZE A4

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UPSTAND DIVERTER FLASHING (A) - CONSTRUCTION METHOD



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION UPSTAND DIVERTER FLASHING (A) - CONSTRUCTION METHOD		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
DRG REF: RW_RP_04	SCALE 1:5	PAPER SIZE A4

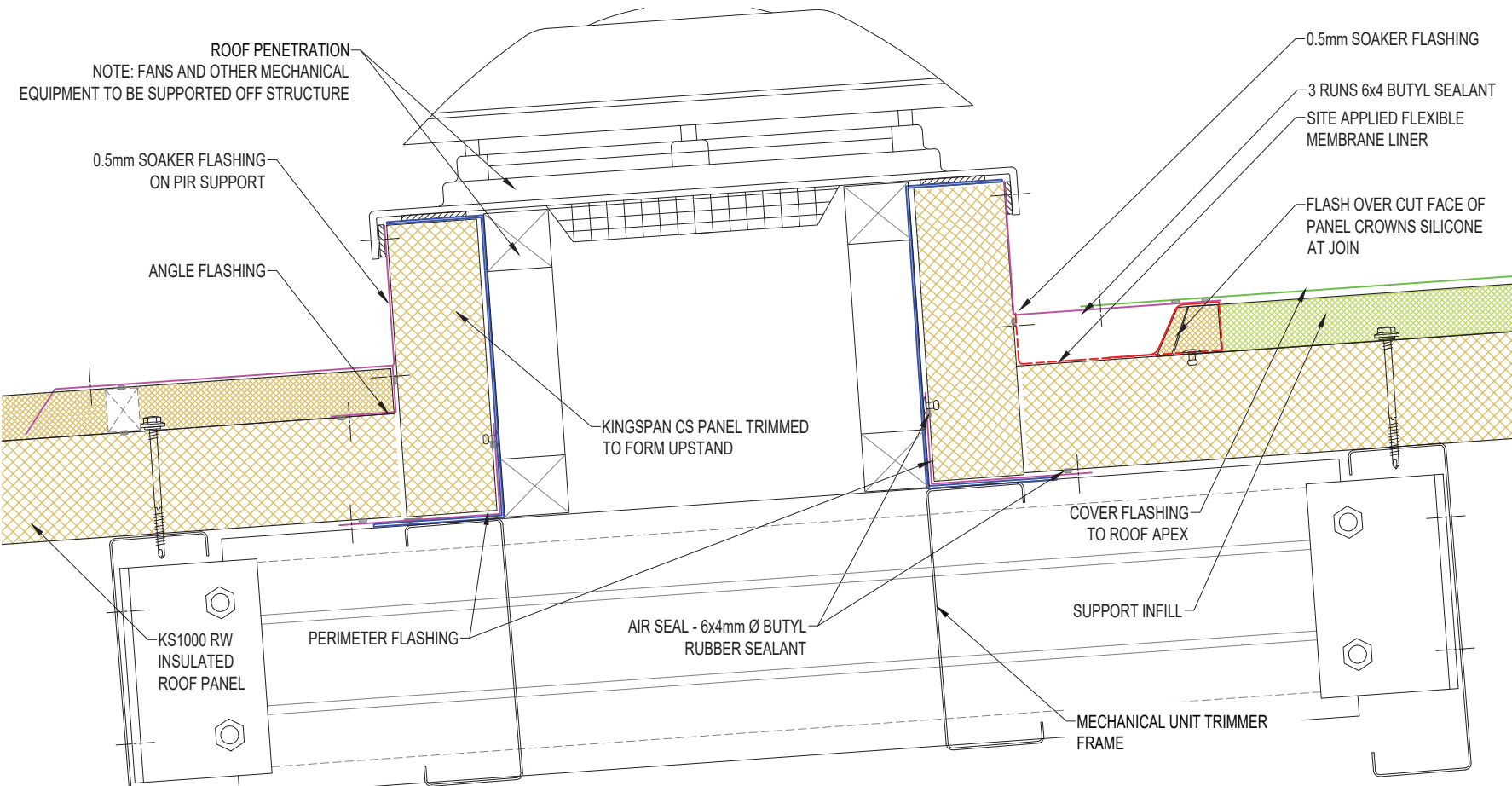
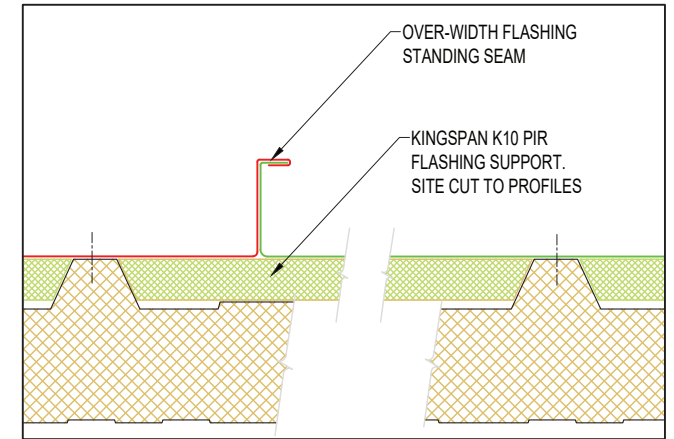
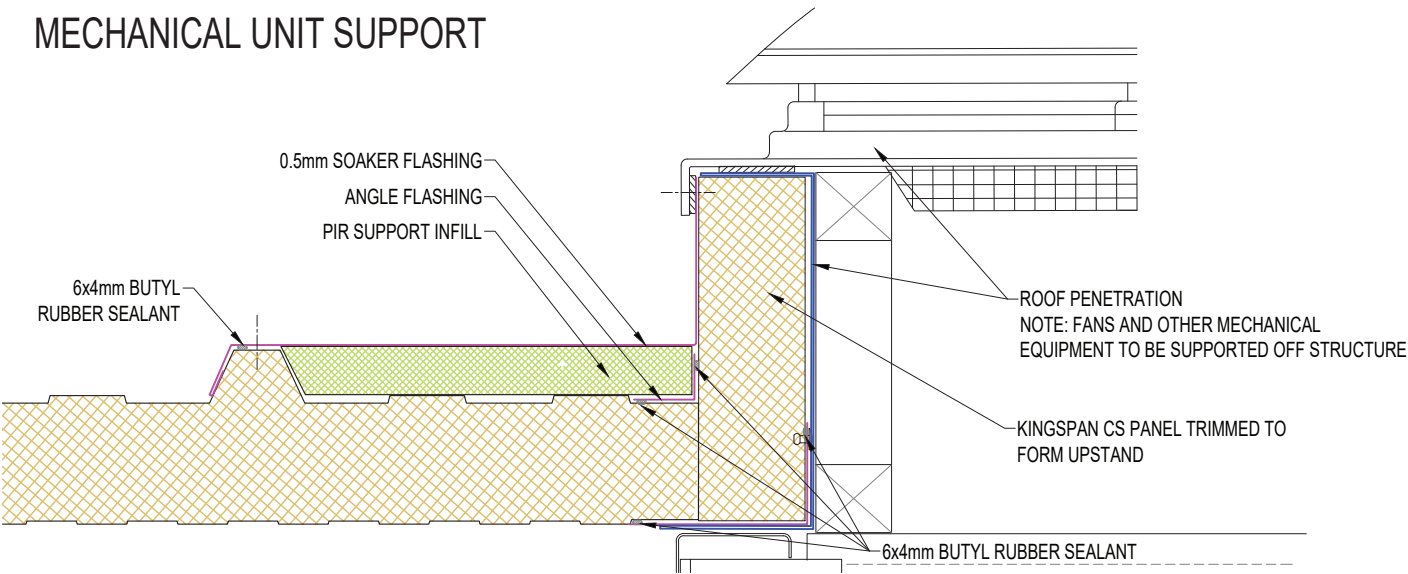
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MECHANICAL UNIT SUPPORT



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION MECHANICAL UNIT SUPPORT		
APPROVED BY JS	DATE 06.11.23	REVISION [-]
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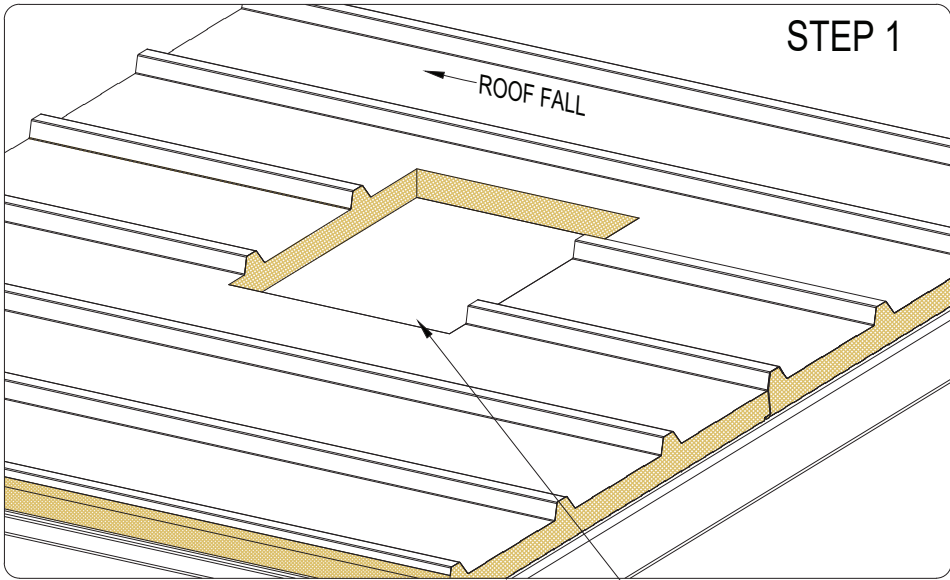
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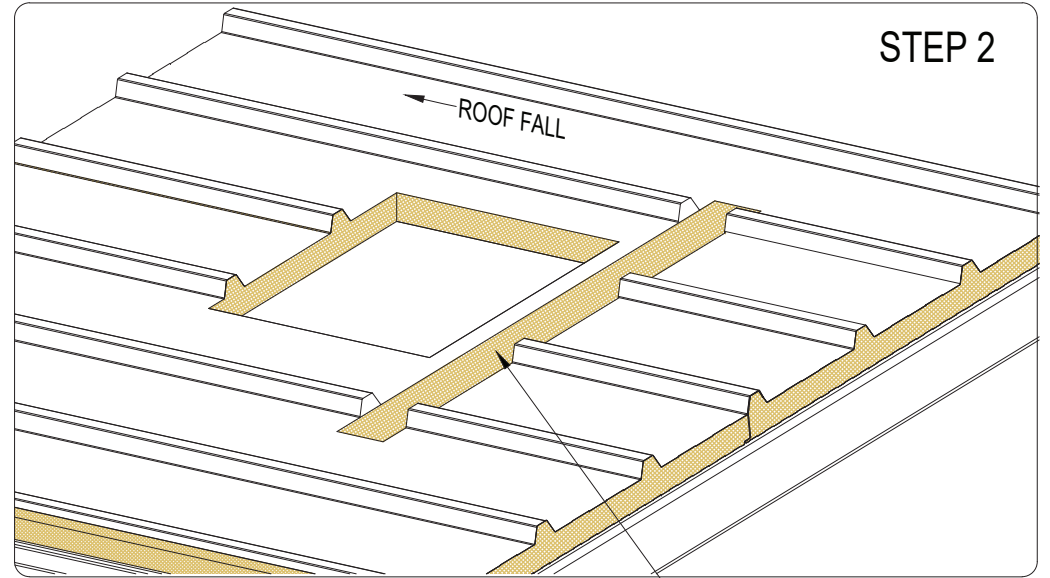
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UPSTAND DIVERTER FLASHING (A) - CONSTRUCTION METHOD



STEP 1

FRAME OUT BELOW AND KINGSPAN PANEL PENETRATION TO SIZE

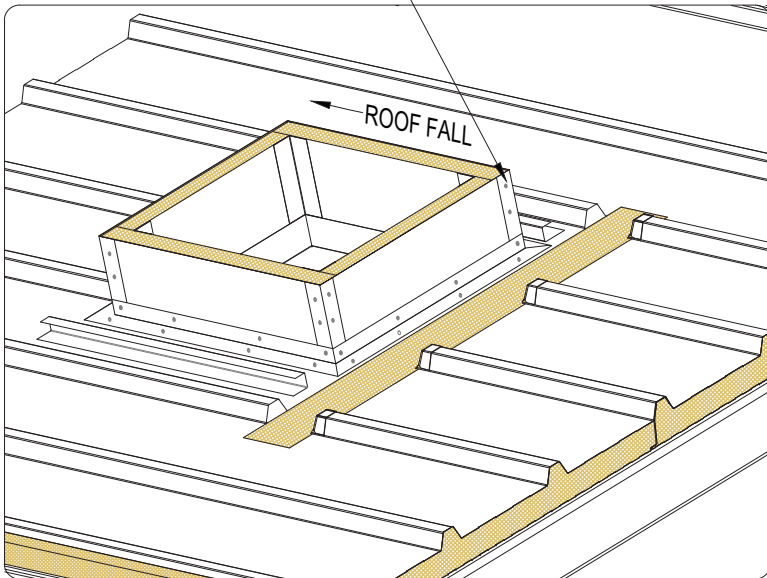


STEP 2

TRIM BACK PANEL CROWNS AND REMOVE STRIP OF SKIN TO FIT DIVERTER FLASHING

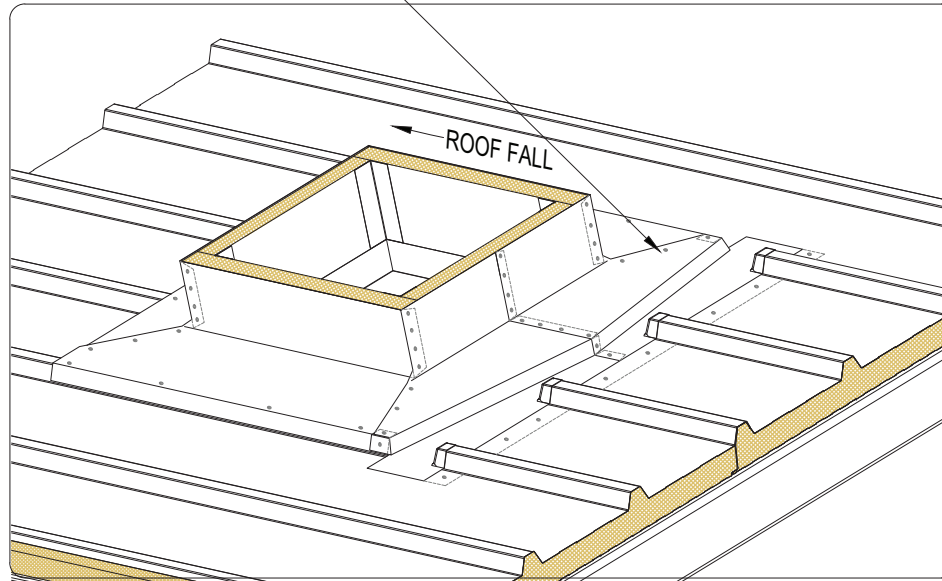
FORM CS PANEL UPSTAND TO REQUIRED SIZE. FLASH AND SEAL WITH 0.5mm COIL COATED STEEL ANGLES.

STEP 3



FIX AND SEAL AND SEAL WEATHER-TIGHT FLASHINGS

STEP 4



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION UPSTAND DIVERTER FLASHING (A) - CONSTRUCTION METHOD		
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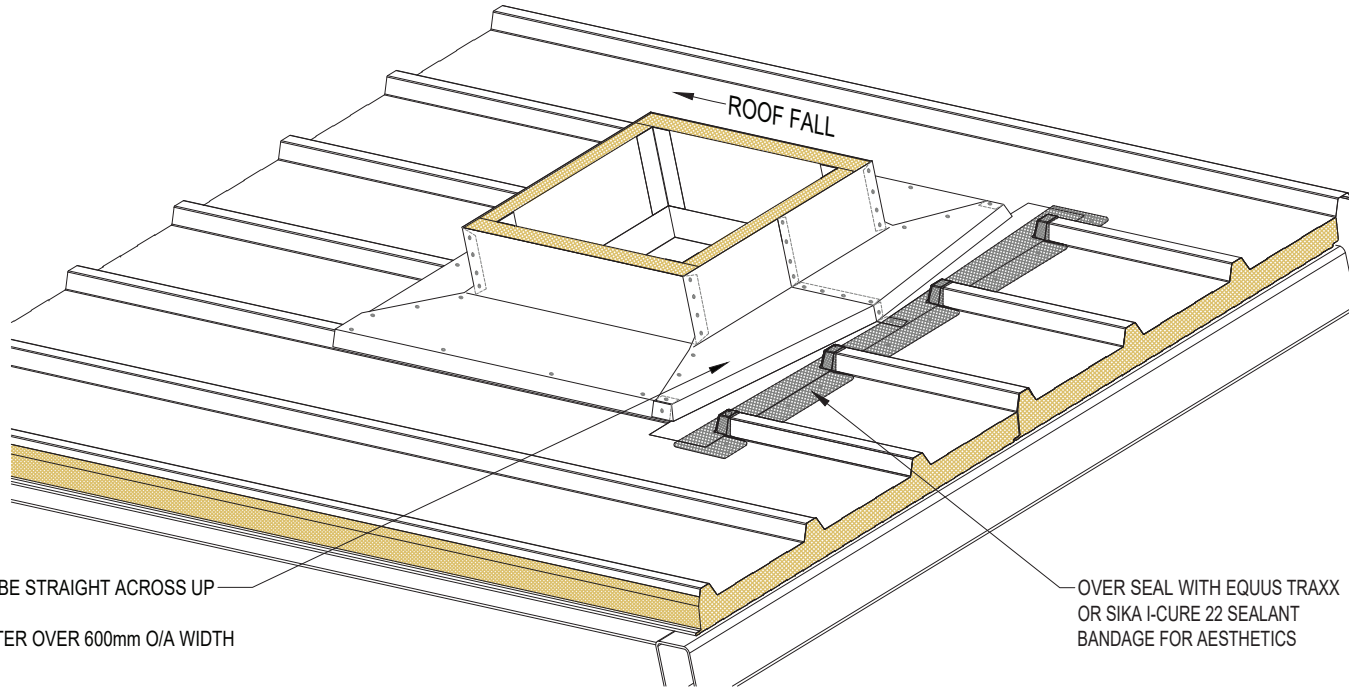
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UPSTAND DIVERTER FLASHINGS (A & B) - COMPLETED

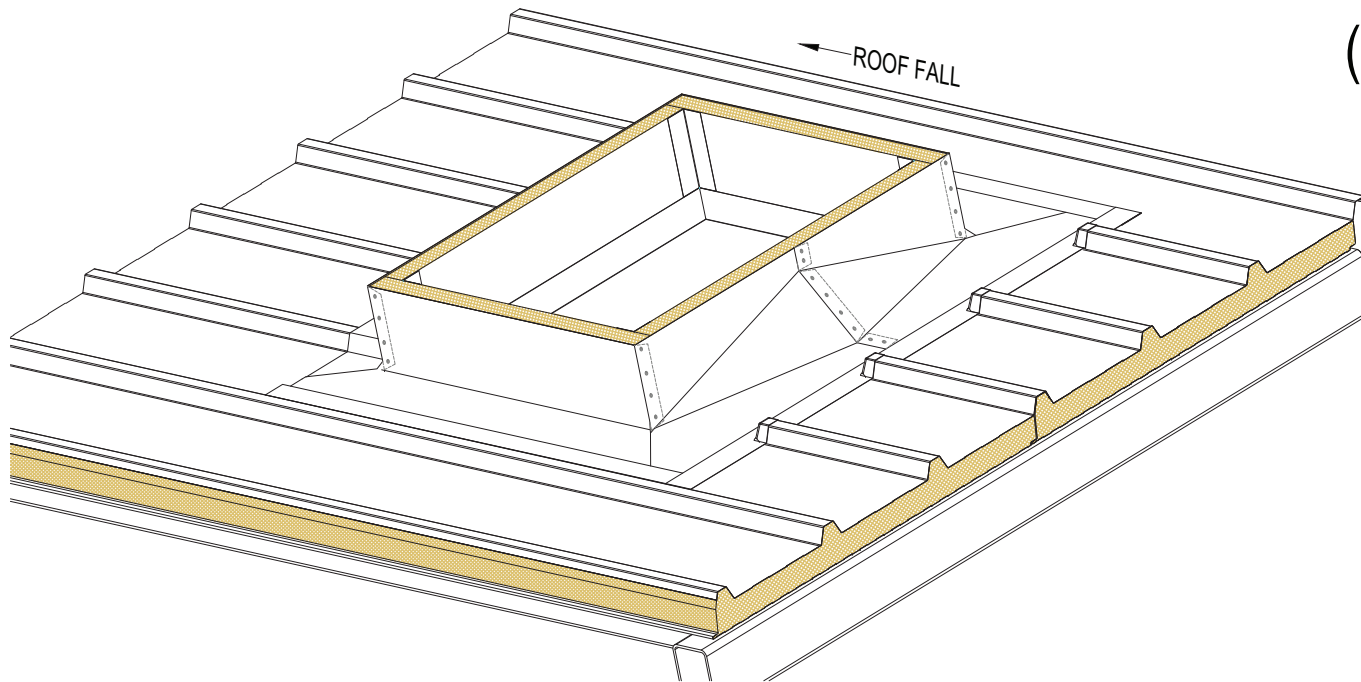
(A)



DIVERTER MAY BE STRAIGHT ACROSS UP TO 600mm.
ANGLED DIVERTER OVER 600mm O/A WIDTH

OVER SEAL WITH EQUUS TRAXX OR SIKA I-CURE 22 SEALANT BANDAGE FOR AESTHETICS

(B)



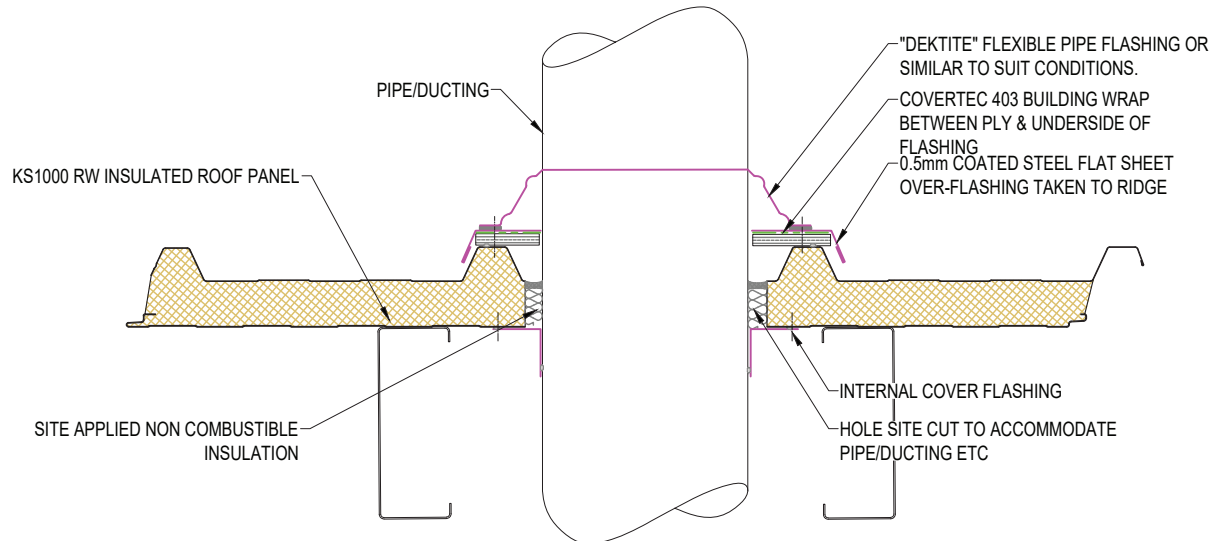
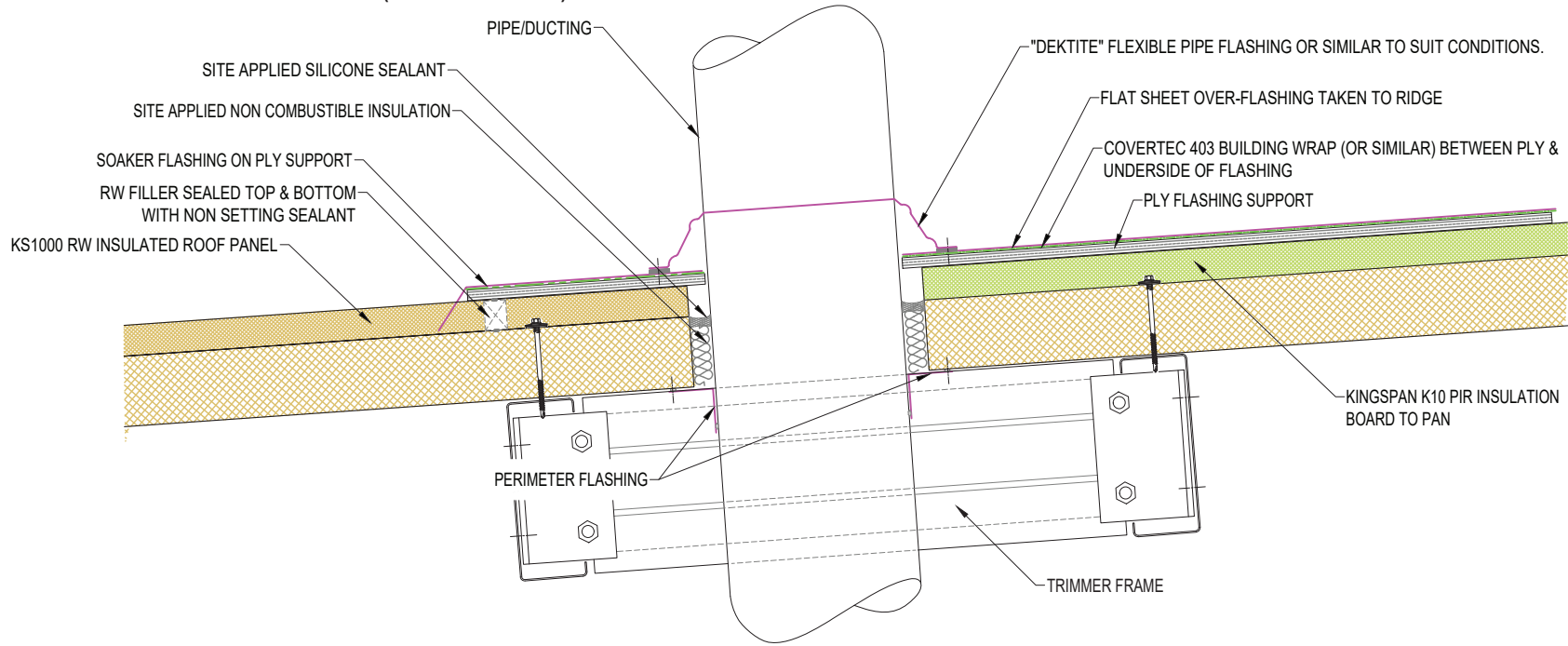
SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
DESCRIPTION UPSTAND DIVERTER FLASHINGS (A & B) - COMPLETED		
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CIRCULAR PENETRATION (Over 300mm)



ROOF PENETRATION: FLAT FLASHING TO APEX
DETAIL SUITABLE FOR SHORT RUNS

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

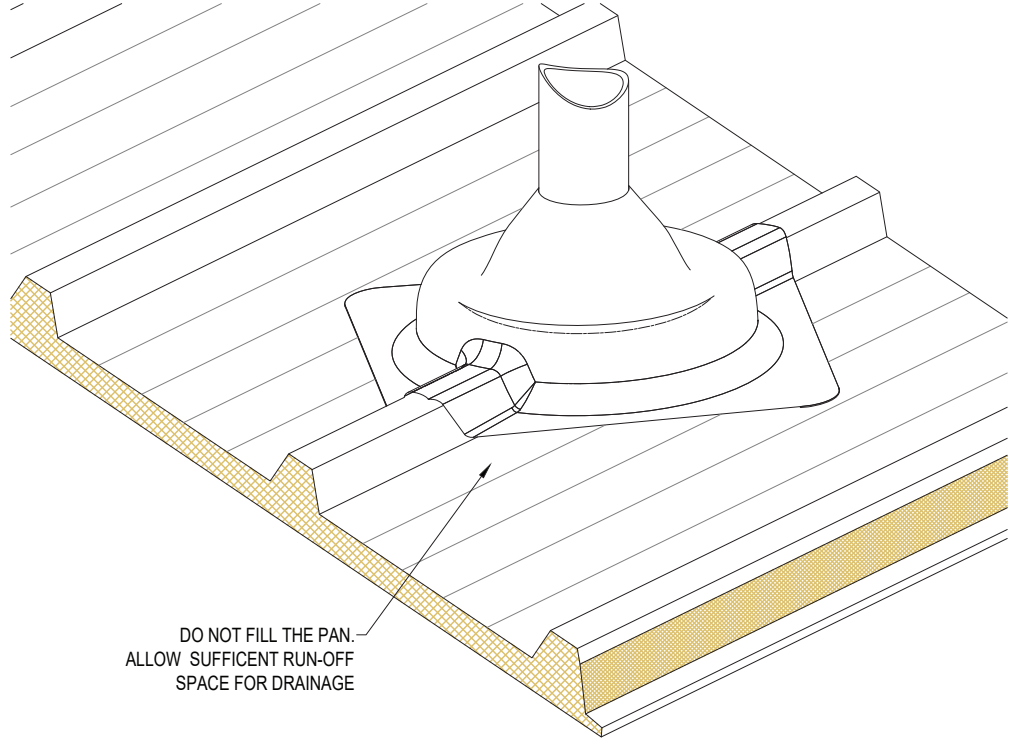
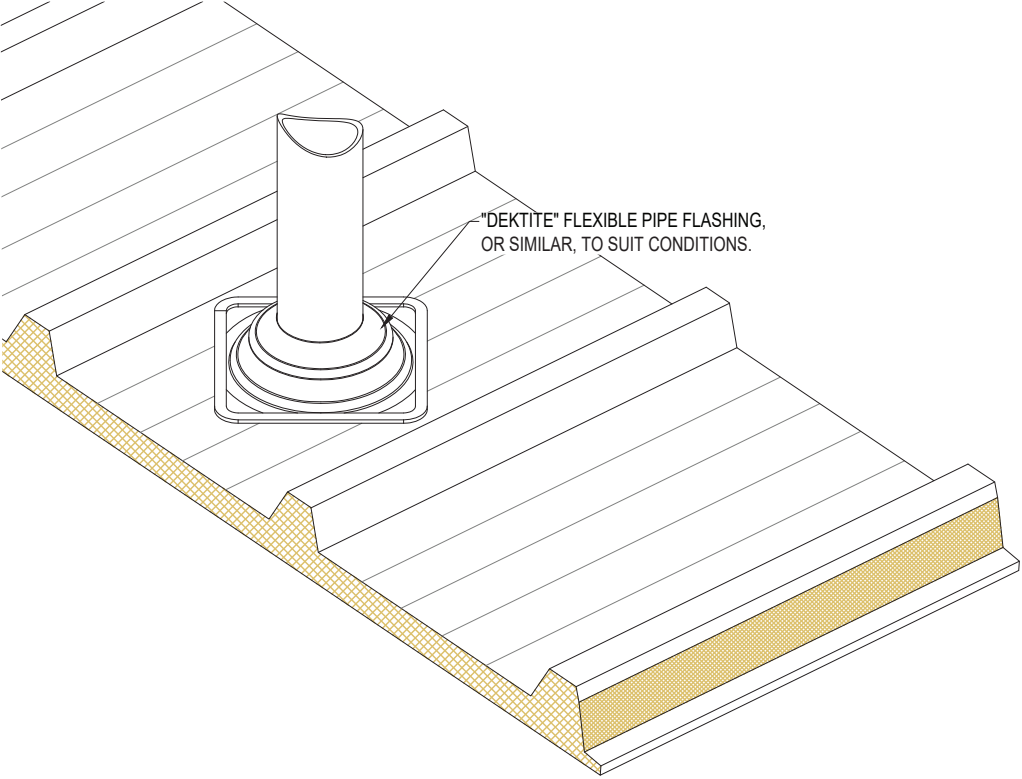
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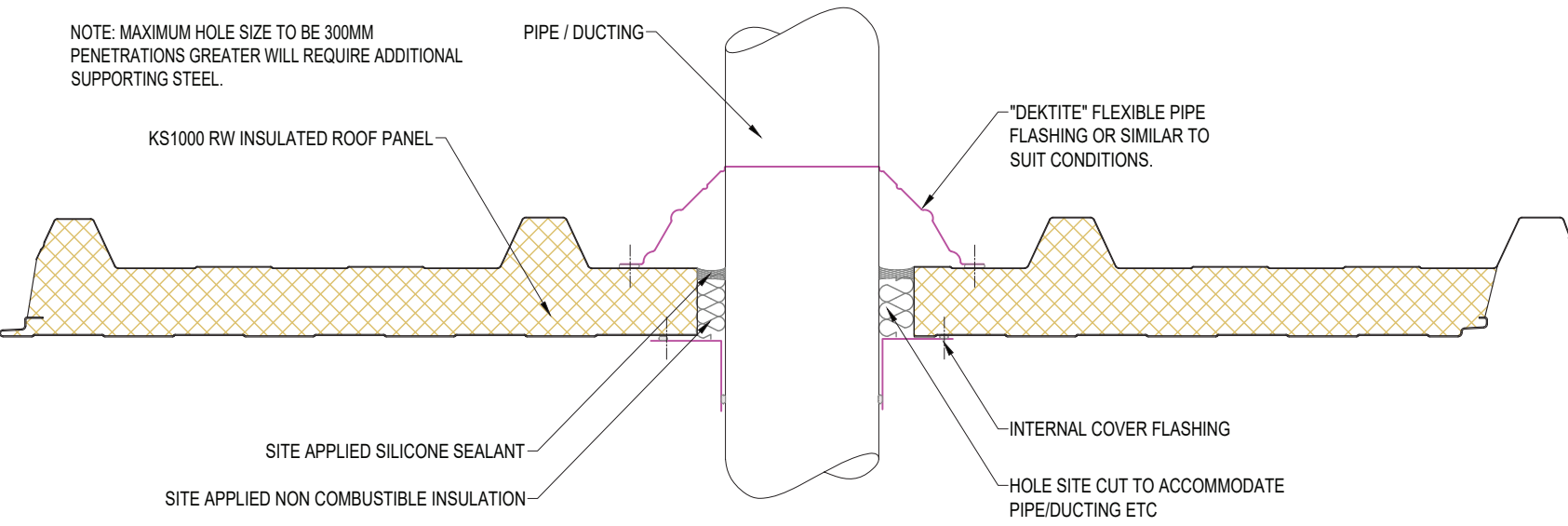
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CIRCULAR PENETRATION (Up to 300mm)



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



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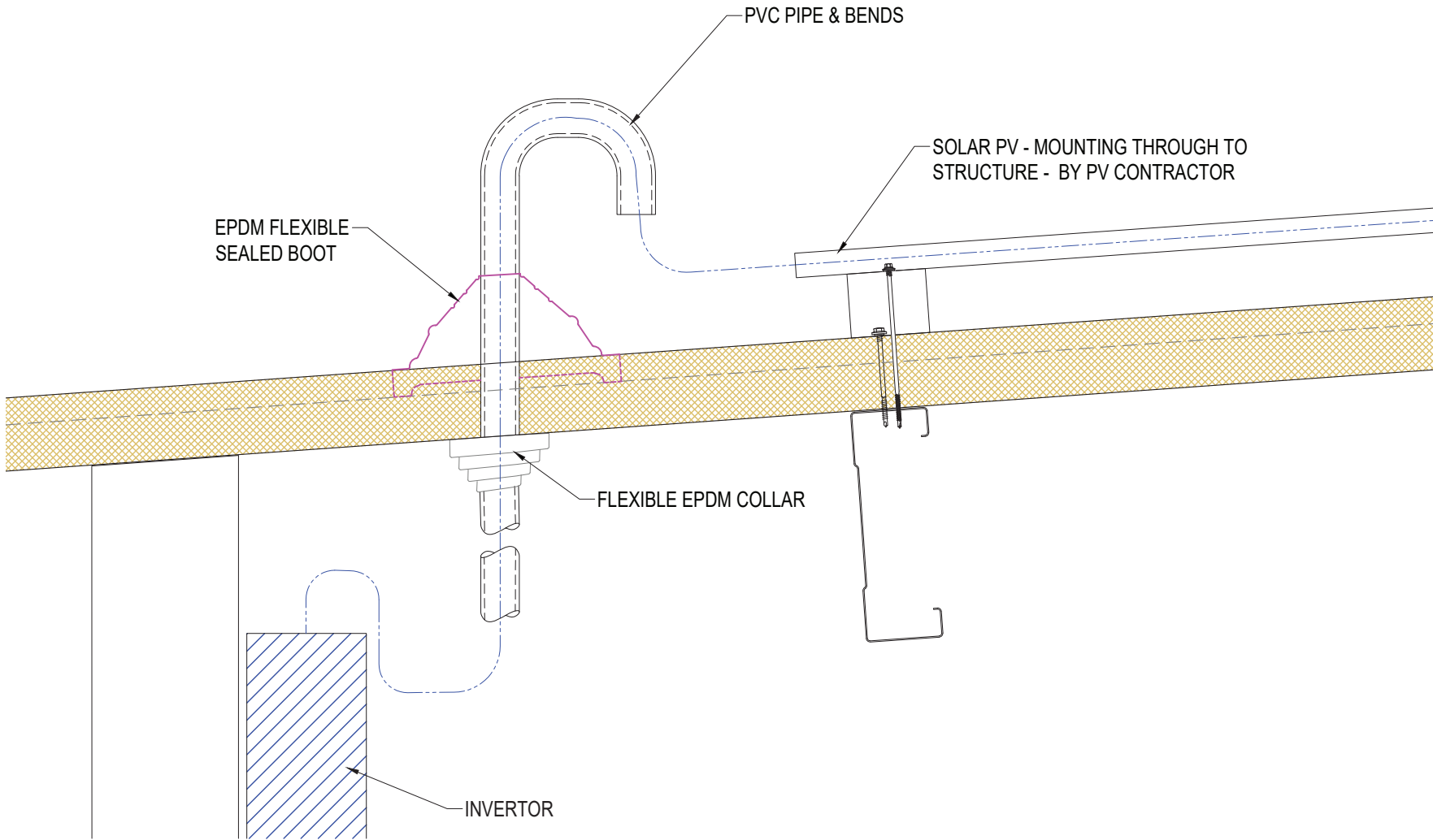
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INDICATIVE PHOTOVOLTAIC WIRING PENETRATION

ENSURE ALL PV SYSTEMS ARE PROPERLY EARTHED.
CHECK ALL MATERIALS ARE COMPATIBLE WITH THE ROOF.

ALLOW SPACE FOR MECHANICAL WASHING BENEATH THE ARRAY. MIN 75mm ABOVE PANEL CROWN PER STEEL SUPPLIER GUIDELINES.
(REQUIRED AS THIS IS AN UNWASHED AREA)

SOLAR PV ARRAY SUPPLIER TO CALCULATE WIND UPLIFT LOADS AND SUITABLE FIXINGS. ANY CONNECTION TO THE PANELS WILL REQUIRE SPECIFIC PANEL CAPACITY CALCULATIONS BY THE PV DESIGNER.



SYSTEM KS1000RW TRAPEZOIDAL ROOF DETAILS_Q4 2023		
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