

COVER SHEET

| File - KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | | | |
|--|--|----------|----------|----------|
| DATE | DETAIL NAME | DRG_REF | REVISION | APPROVED |
| 09.10.23 | COVER SHEET | RW_HS_01 | - | JS |
| 09.10.23 | PANEL DIMENSIONS | RW_HS_02 | - | JS |
| 09.10.23 | PRIMARY FIXING LOCATIONS | RW_HS_03 | - | JS |
| 09.10.23 | BASE DETAILS_1 | RW_HS_04 | - | JS |
| 09.10.23 | BASE DETAILS_2 | RW_HS_05 | - | JS |
| 09.10.23 | BASE DETAILS_3 | RW_HS_06 | - | JS |
| 09.10.23 | BASE DETAILS_4 | RW_HS_07 | - | JS |
| 09.10.23 | BASE DETAILS_5 | RW_HS_08 | - | JS |
| 09.10.23 | BASE DETAILS ON PRECAST WALL_1 | RW_HS_09 | - | JS |
| 09.10.23 | BASE DETAILS ON PRECAST WALL_2 | RW_HS_10 | - | JS |
| 09.10.23 | BASE DETAILS ON PRECAST_3 | RW_HS_11 | - | JS |
| 09.10.23 | EXTERNAL CORNER - DETAIL_1 | RW_HS_12 | - | JS |
| 09.10.23 | EXTERNAL CORNER - DETAIL_2 | RW_HS_13 | - | JS |
| 09.10.23 | INTERNAL CORNER DETAIL_2 | RW_HS_14 | - | JS |
| 09.10.23 | INTERNAL CORNER DETAIL_2 | RW_HS_15 | - | JS |
| 09.10.23 | ABUTMENTS TO CONCRETE | RW_HS_16 | - | JS |
| 09.10.23 | ABUTMENTS TO CONCRETE | RW_HS_17 | - | JS |
| 09.10.23 | TOPHAT JOIN DETAIL_1 | RW_HS_18 | - | JS |
| 09.10.23 | TOPHAT JOIN DETAIL_2 | RW_HS_19 | - | JS |
| 09.10.23 | INTERNAL PARTITION WALL ABUTS PANEL | RW_HS_20 | - | JS |
| 09.10.23 | RW HORIZONTAL TO VERTICAL BREAK DETAIL | RW_HS_21 | - | JS |
| 09.10.23 | HORIZONTAL WINDOW DETAIL | RW_HS_22 | - | JS |
| 09.10.23 | PERSONNEL DOOR DETAIL | RW_HS_23 | - | JS |
| 09.10.23 | OVERHEAD DOOR DETAIL | RW_HS_24 | - | JS |
| 09.10.23 | LOUVRE DETAIL | RW_HS_25 | - | JS |
| 09.10.23 | EAVES GUTTER DETAIL | RW_HS_26 | - | JS |
| 09.10.23 | EAVES GUTTER DETAIL - RAB BOARD | RW_HS_27 | - | JS |
| 09.10.23 | EAVES GUTTER DETAIL - BUILDING WRAP | RW_HS_28 | - | JS |
| 09.10.23 | KS1000 CS GUTTER, KS1000 RW ROOF & HORIZONTAL PARAPET WALL | RW_HS_29 | - | JS |
| 09.10.23 | VERGE OVERHANG | RW_HS_30 | - | JS |
| 09.10.23 | PRECAST WALL - EXTERNAL CORNER_1 | RW_HS_31 | - | JS |
| 09.10.23 | PRECAST WALL - EXTERNAL CORNER_2 | RW_HS_32 | - | JS |
| 09.10.23 | PIPE PENETRATION DETAIL | RW_HS_33 | - | JS |
| 09.10.23 | PIPE PENETRATION DETAIL | RW_HS_34 | - | JS |
| 09.10.23 | PIPE SUPPORT DETAIL HORIZ. SECTION | RW_HS_35 | - | JS |
| 09.10.23 | SIGNAGE SUPPORT DETAILS VERT. SECTION | RW_HS_36 | - | 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
KS1000 RW_STD WALL_HORIZONTAL Q4_2023

DESCRIPTION
COVER SHEET

| | | |
|-------------------|------------------|---------------|
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
|-------------------|------------------|---------------|

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| DRG REF: RW_HS_01 | SCALE 1:1 | PAPER SIZE A4 |
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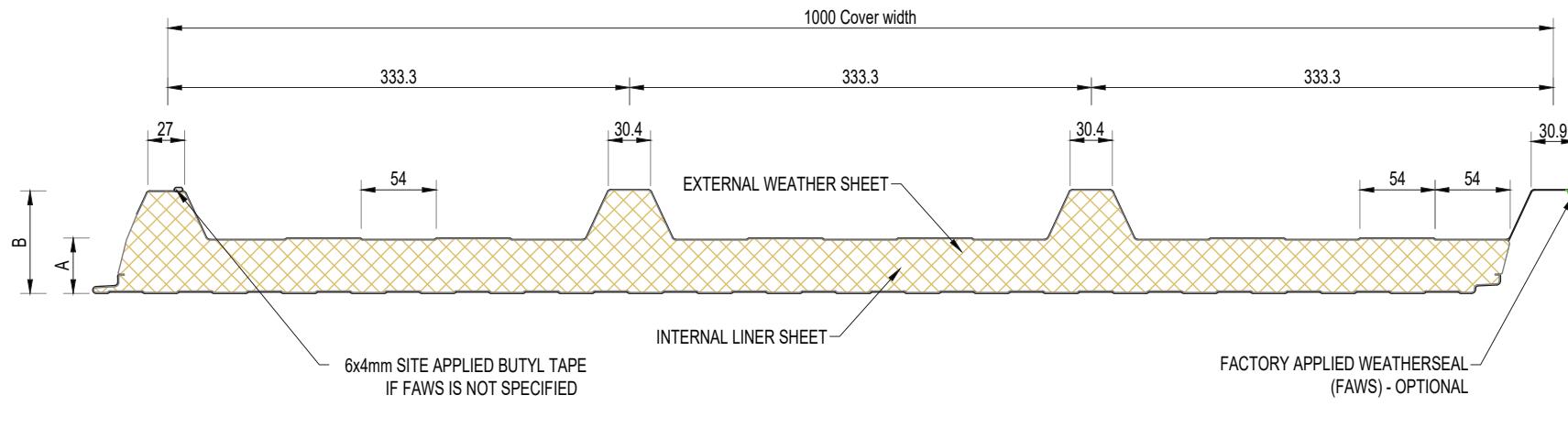
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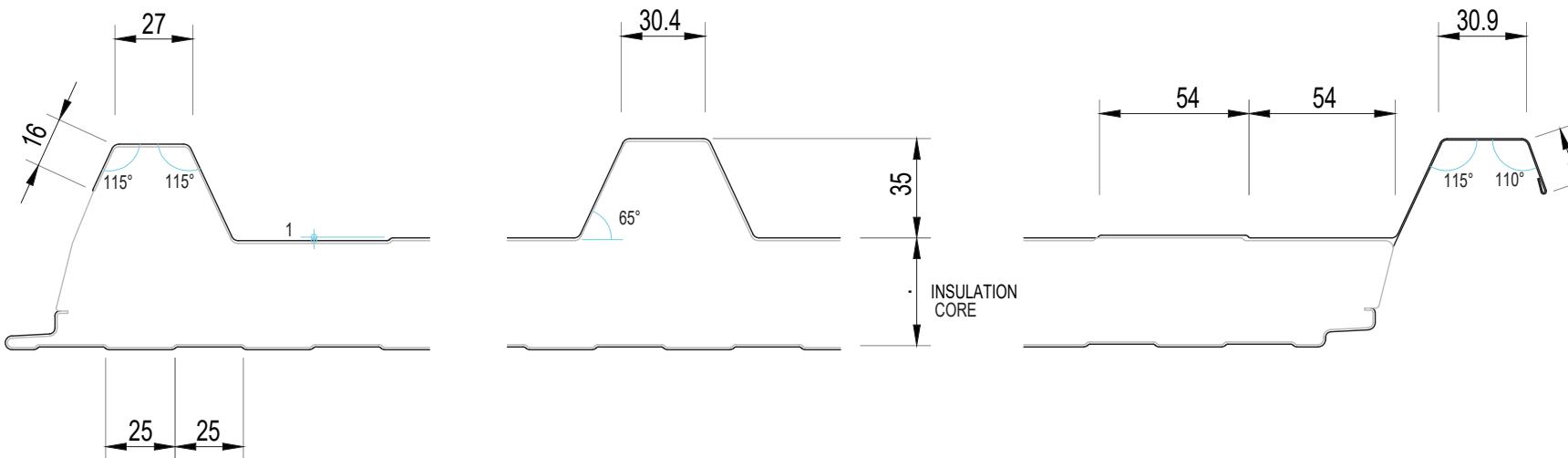


PANEL DIMENSIONS

NOTE: ABOVE DIMENSIONS ARE NOMINAL,
ACTUAL DIMENSIONS WILL VARY DUE TO
MANUFACTURING TOLERANCES. EXACTLY
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 |



| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PANEL DIMENSIONS | | |
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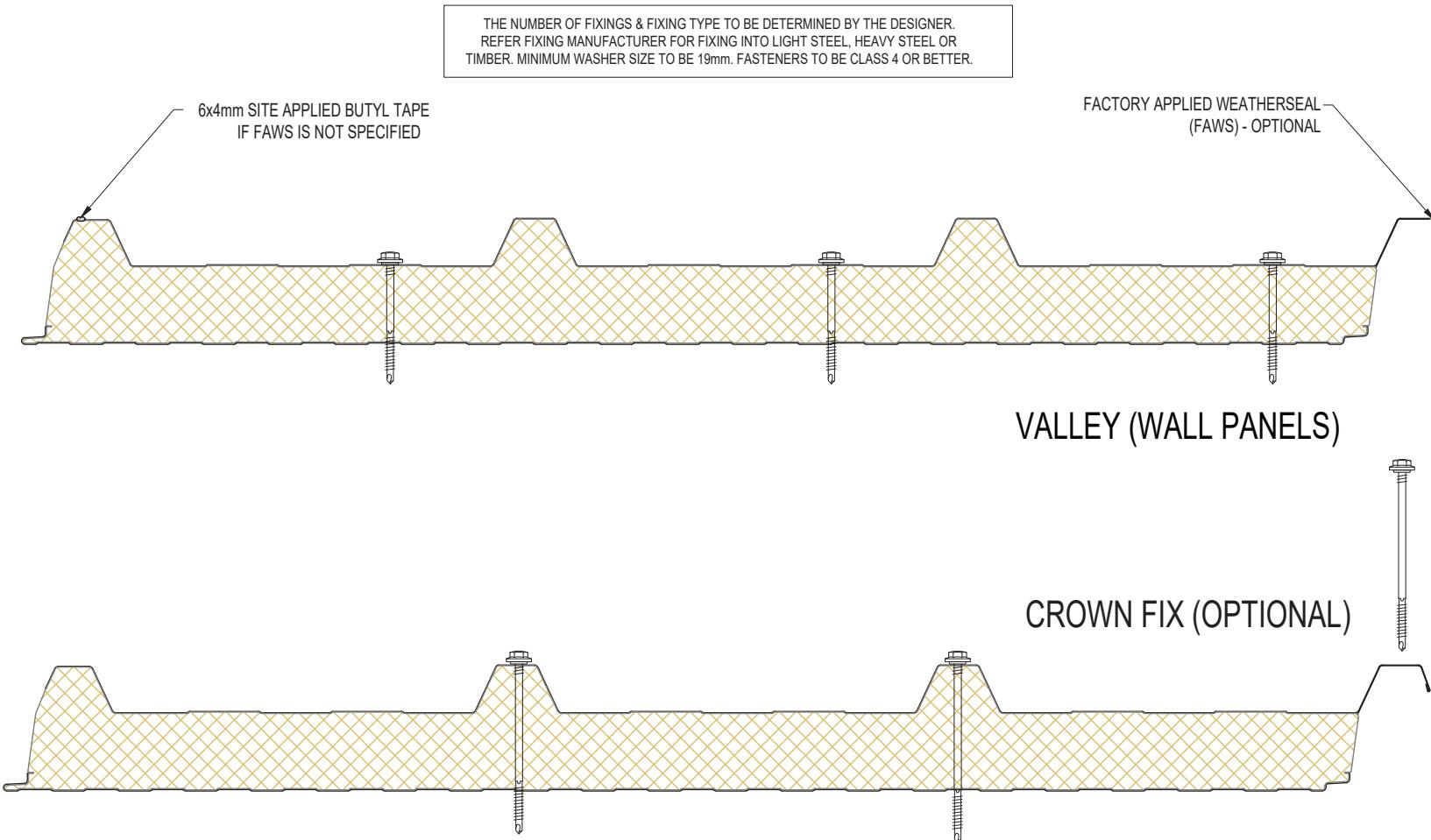
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| AVAILABLE PANEL THICKNESSES | | | | | | |
|-----------------------------|-------|-------|--------|--------|--------|--------|
| A- Core Thickness (mm) | 40.00 | 60.00 | 70.00 | 100.00 | 120.00 | 140.00 |
| B- Overall Dimension (mm) | 75.00 | 95.00 | 105.00 | 135.00 | 155.00 | 175.00 |

PRIMARY FIXING LOCATIONS



KS1000 RW WALL PANEL PRIMARY FIXING LOCATIONS.
HORIZONTALLY OR VERTICALLY LAID

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.

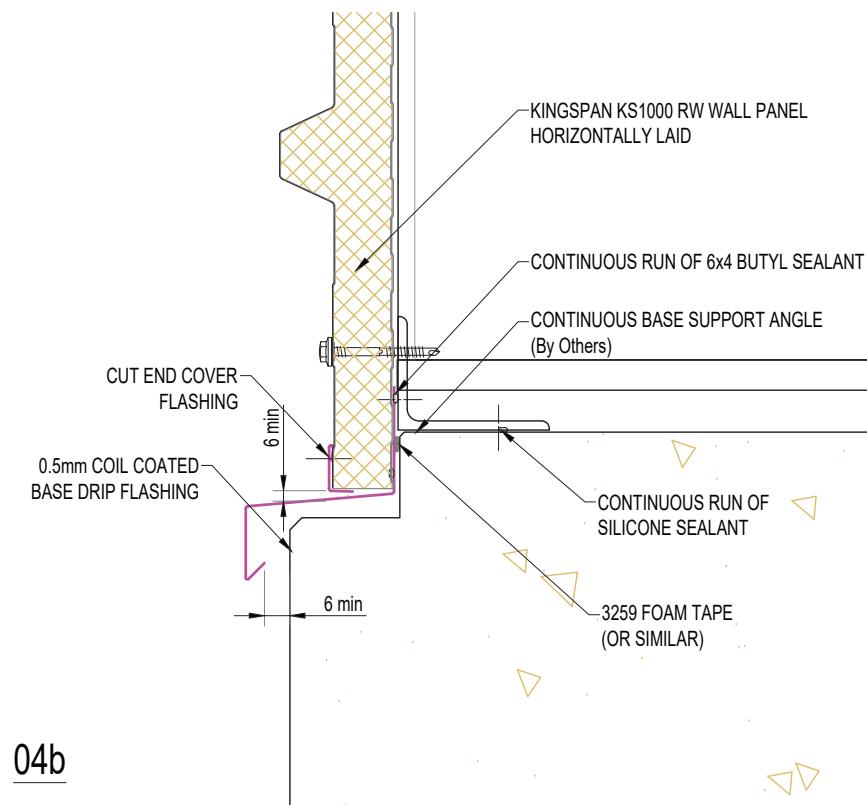
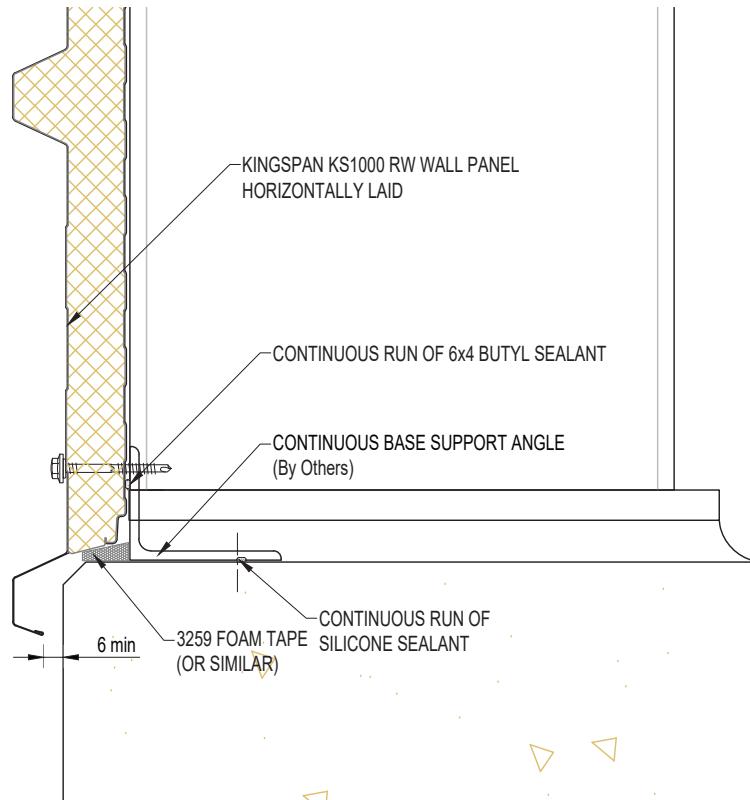
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| DESCRIPTION PRIMARY FIXING LOCATIONS | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
| DRG REF: RW_HS_03 | SCALE 1:5 | PAPER SIZE A4 |

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BASE DETAILS_1



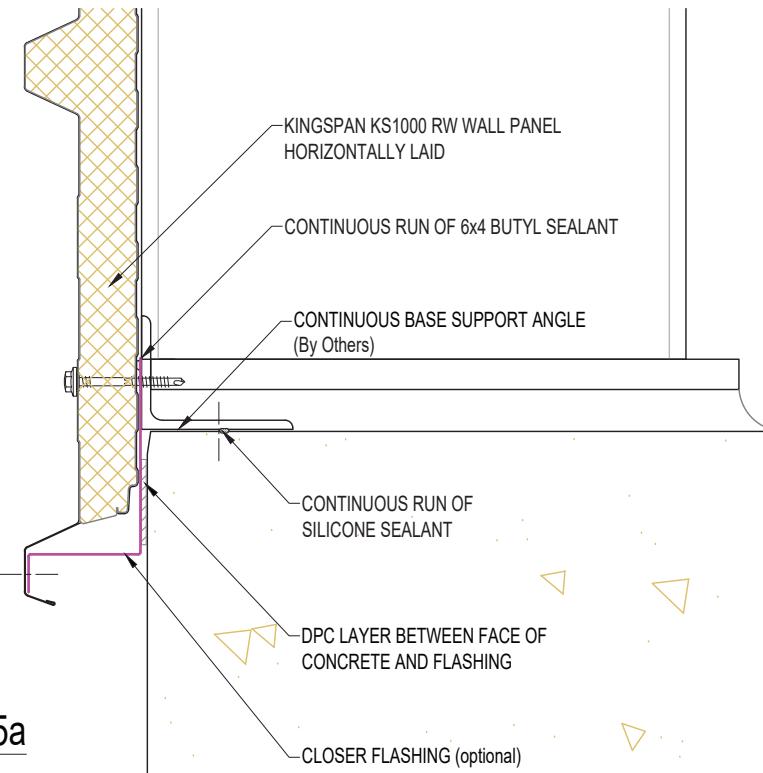
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| DESCRIPTION BASE DETAILS_1 | | |
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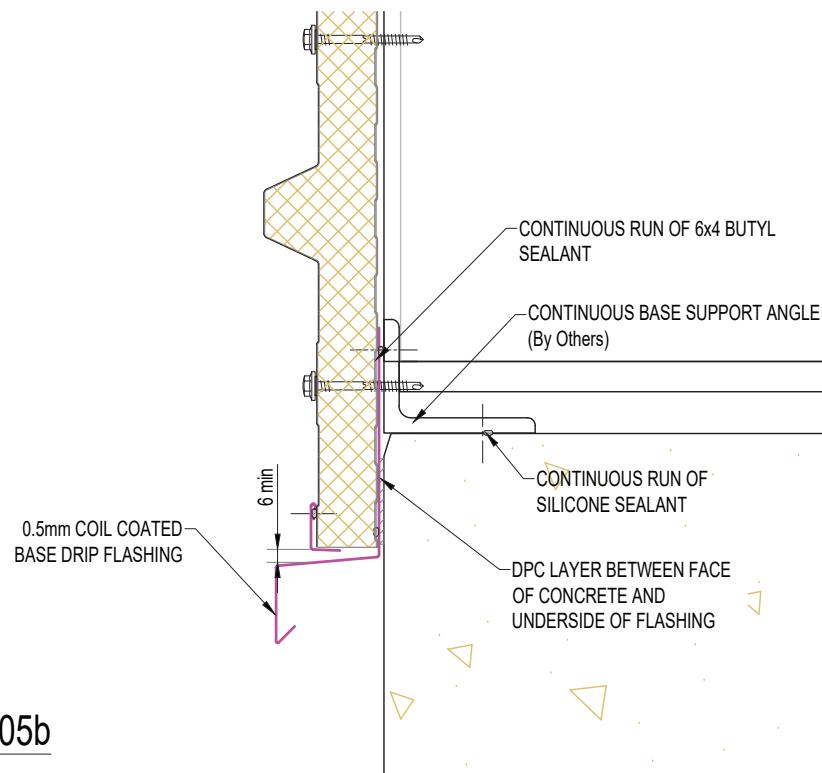
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BASE DETAILS_2



05b



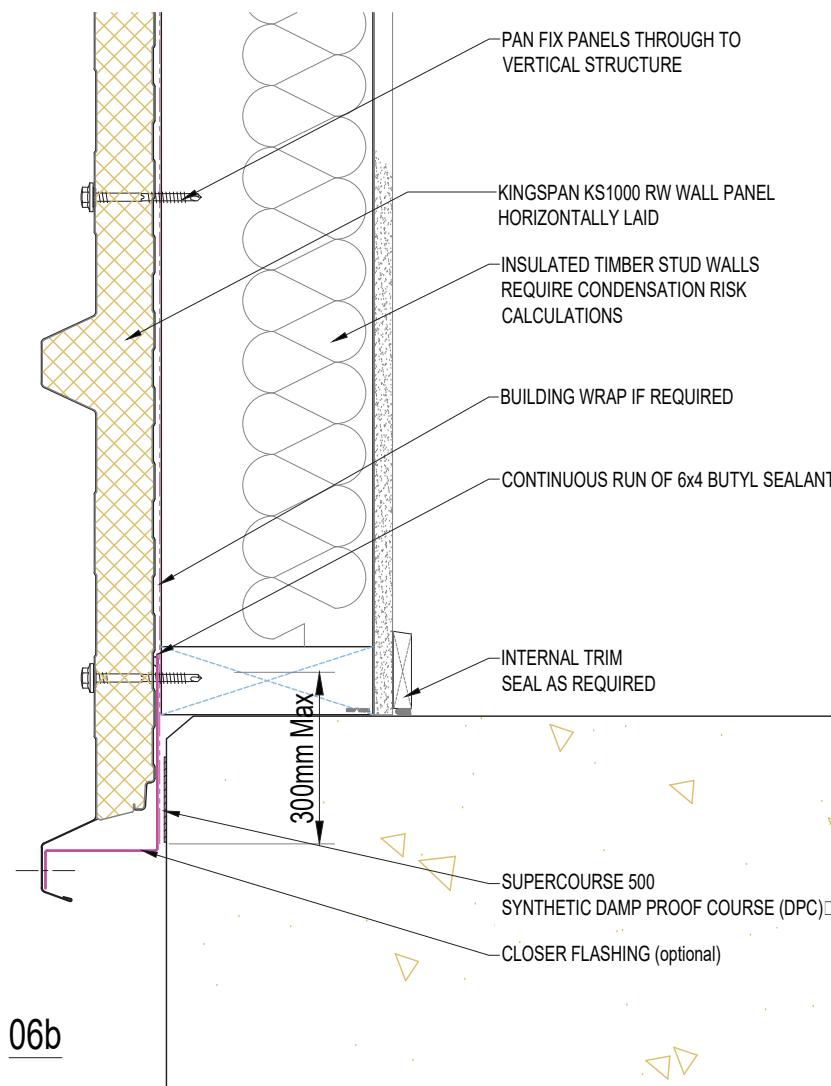
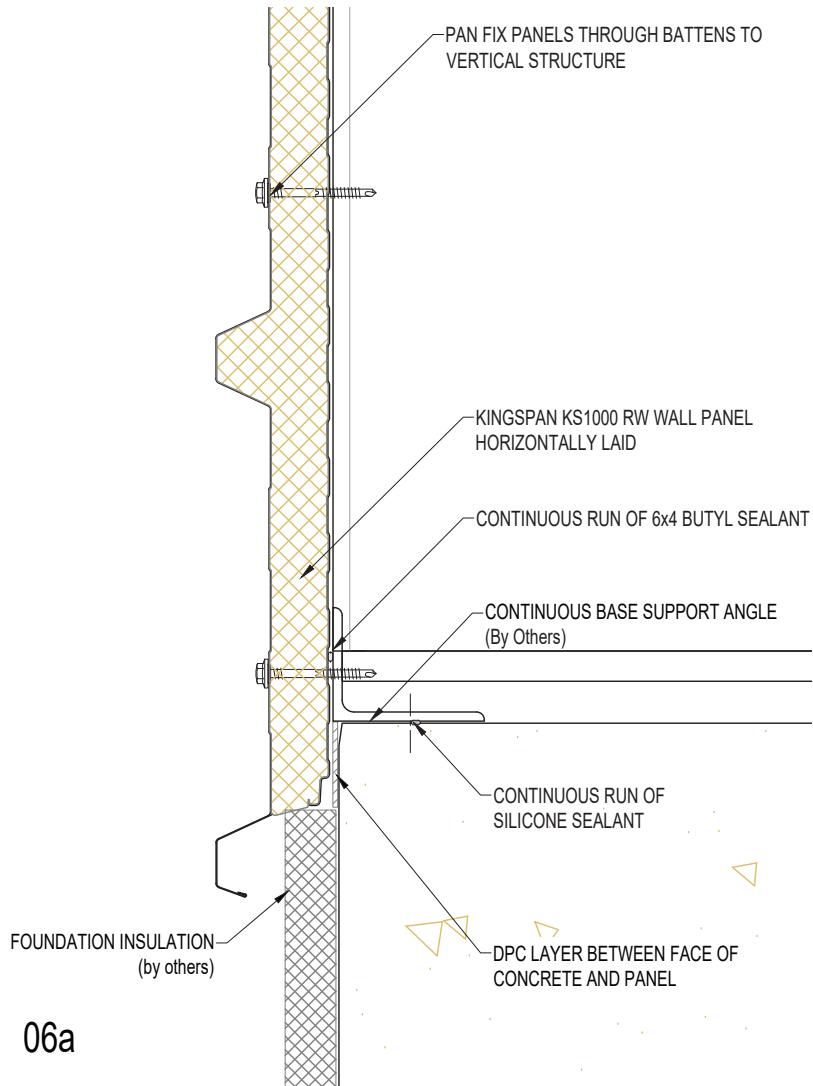
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BASE DETAILS_3



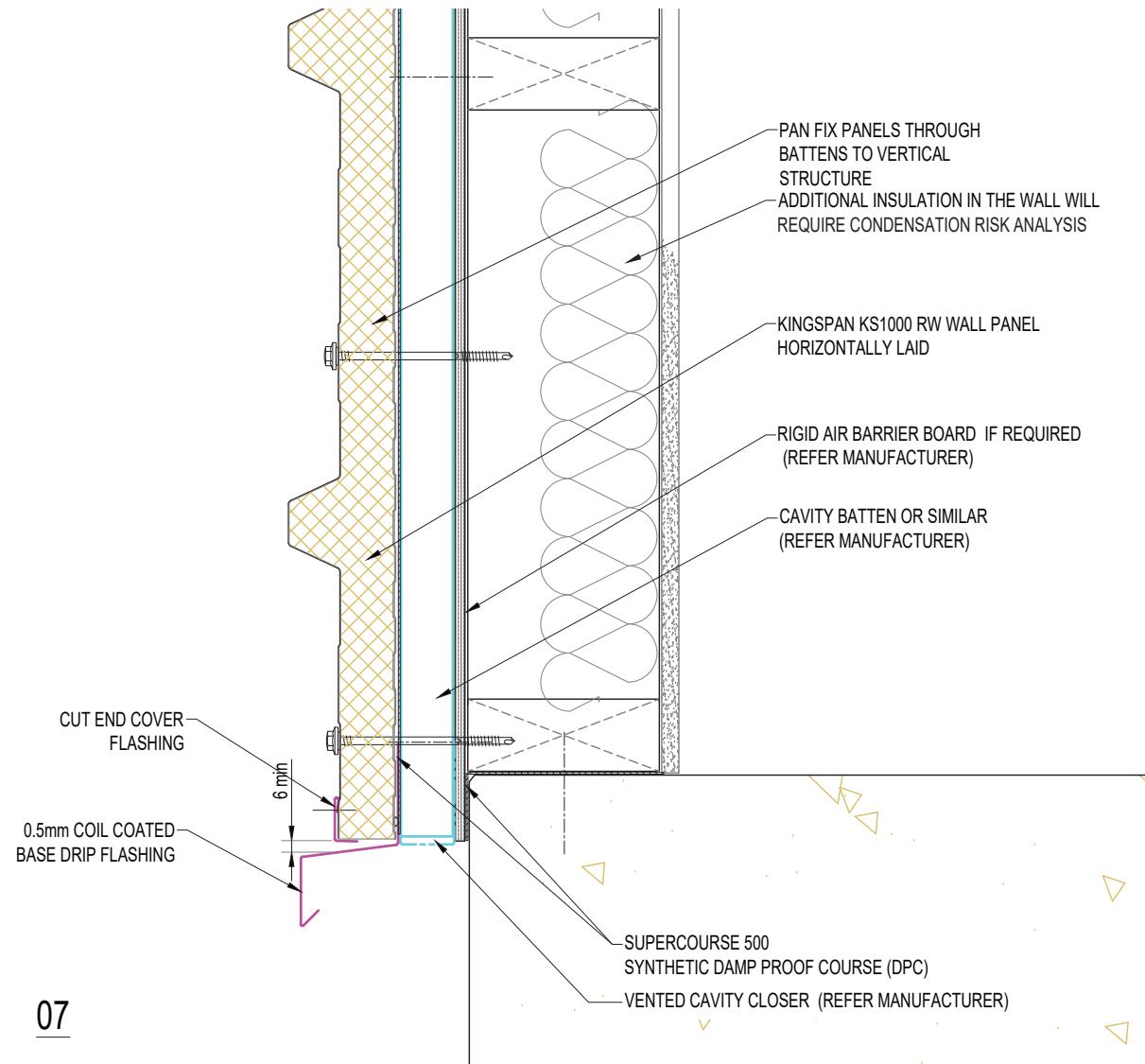
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| DESCRIPTION BASE DETAILS_3 | | |
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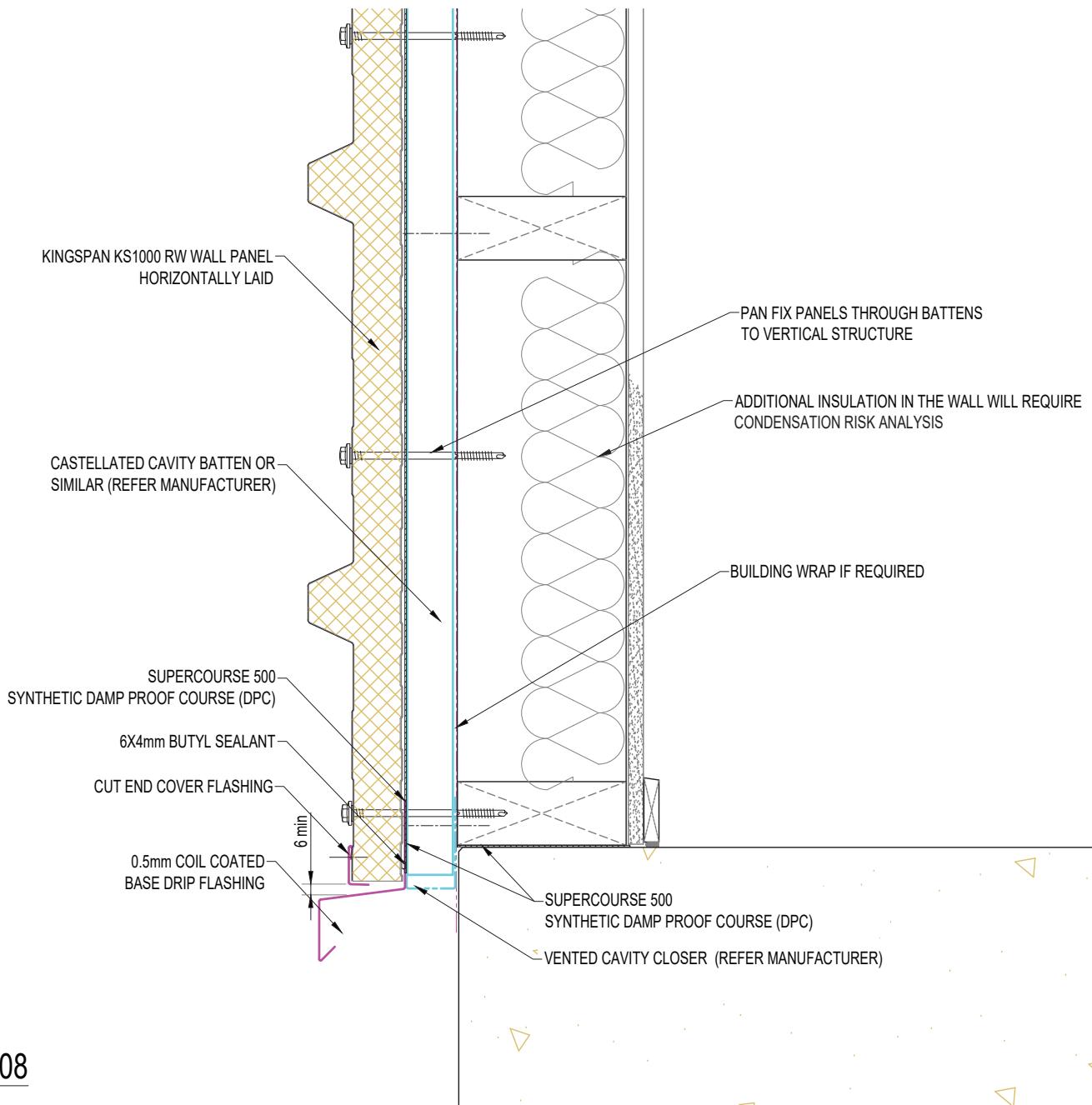


BASE DETAILS_4



| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION BASE DETAILS_4 | | |
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BASE DETAILS_5



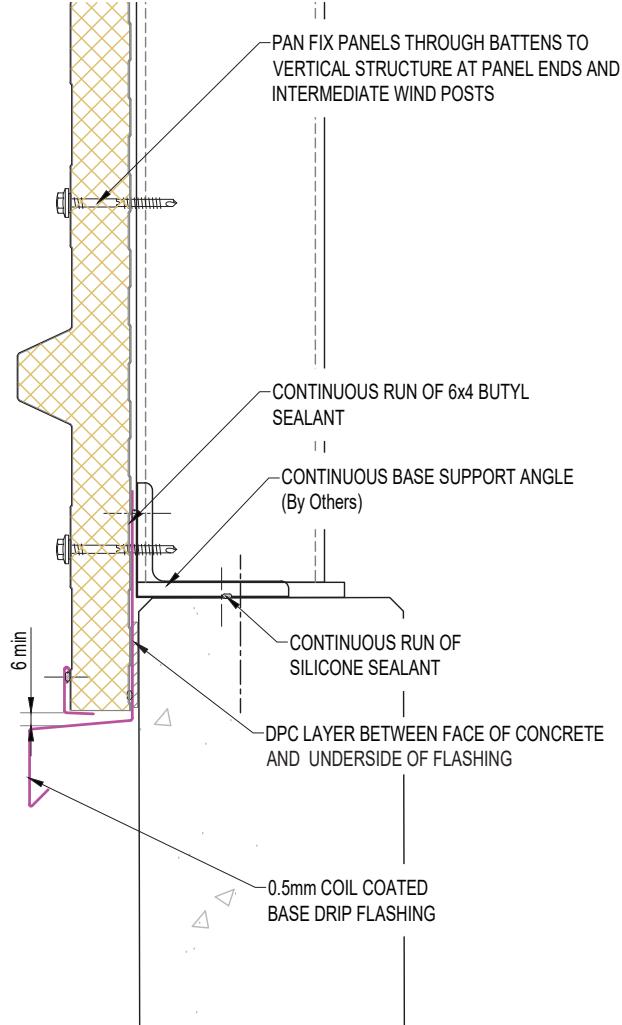
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| DESCRIPTION BASE DETAILS_5 | | |
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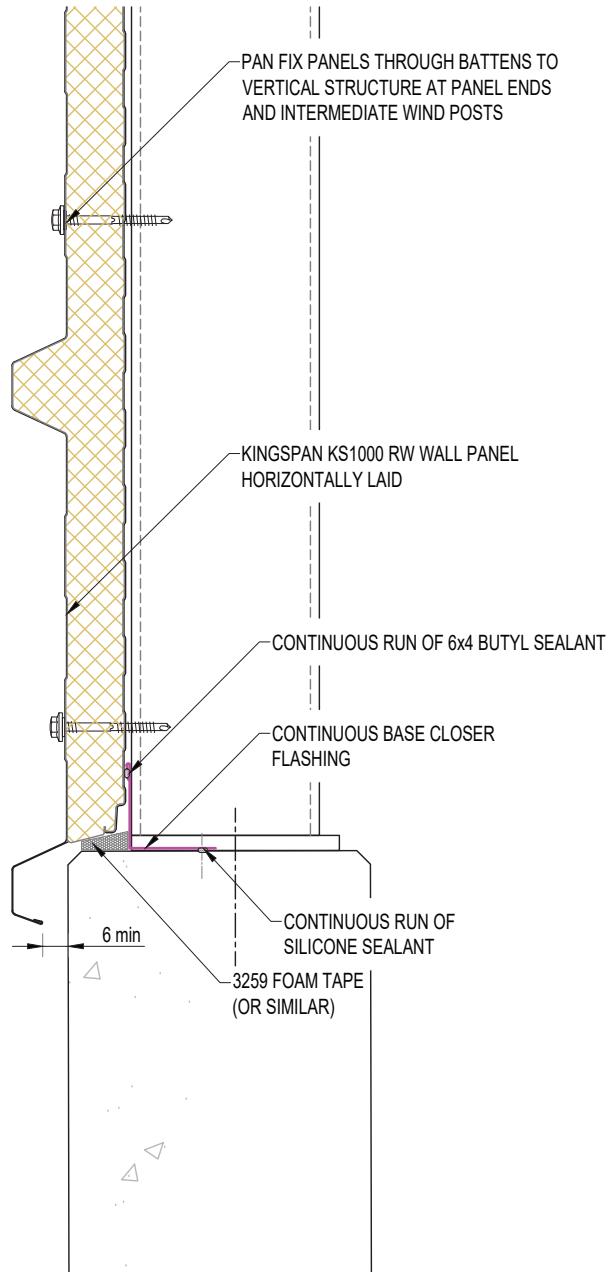


BASE DETAILS ON PRECAST WALL_1



09a

09b



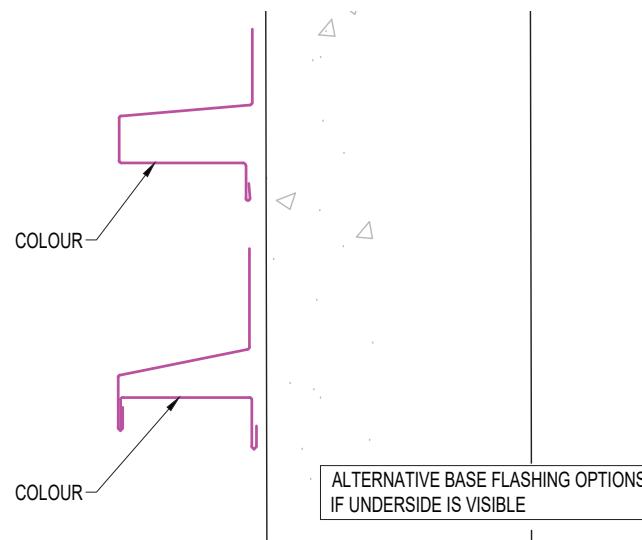
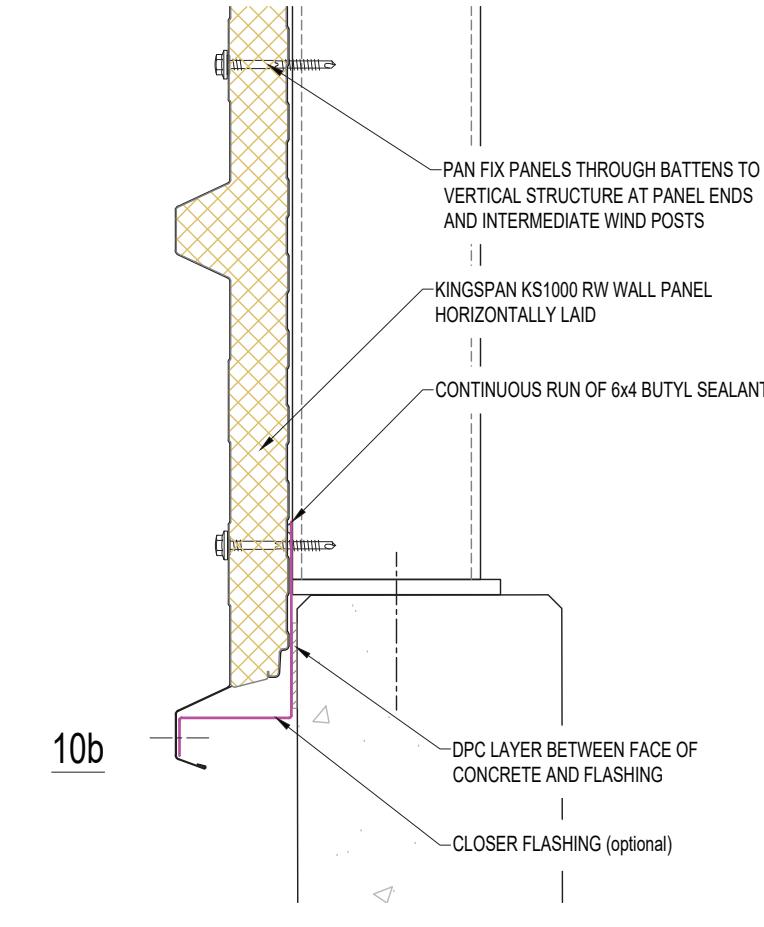
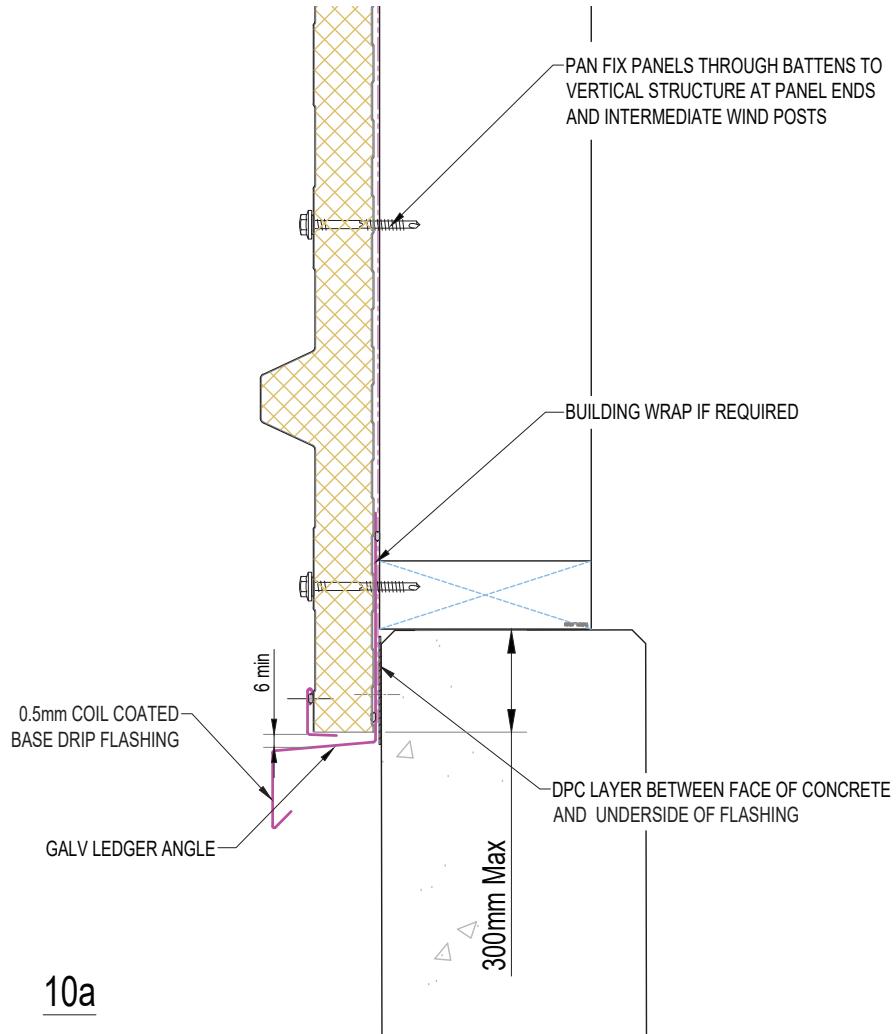
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION BASE DETAILS ON PRECAST WALL_1 | | |
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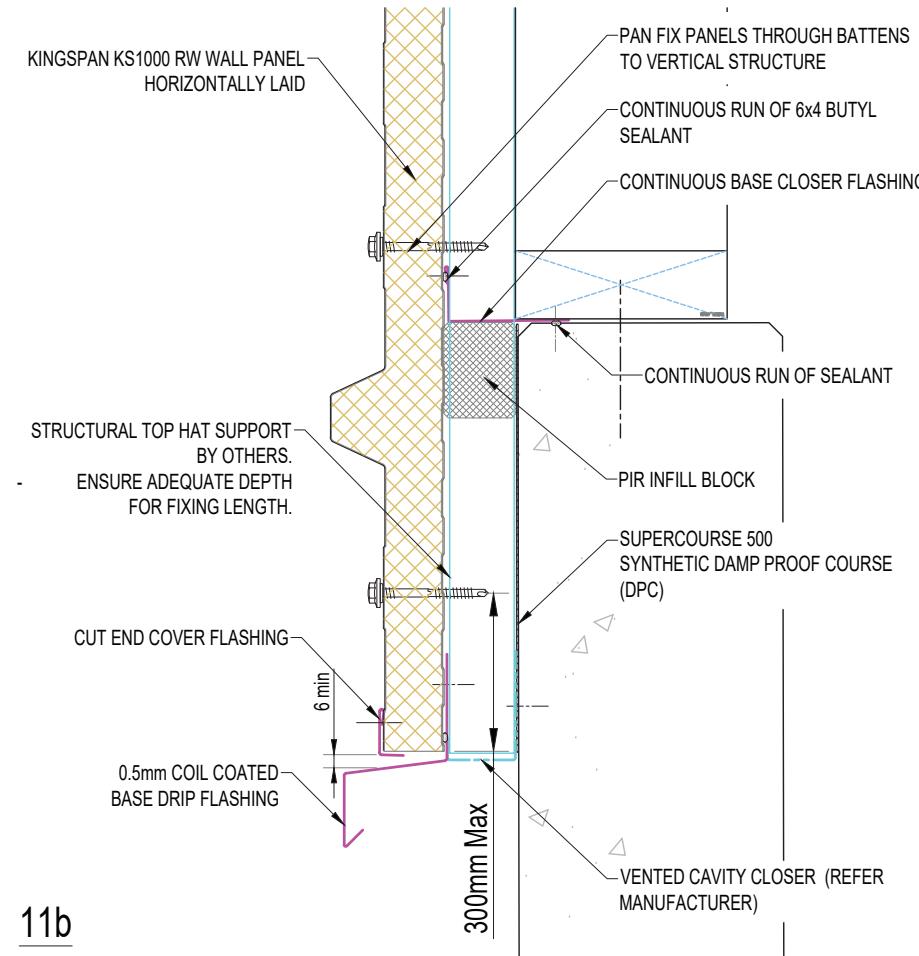
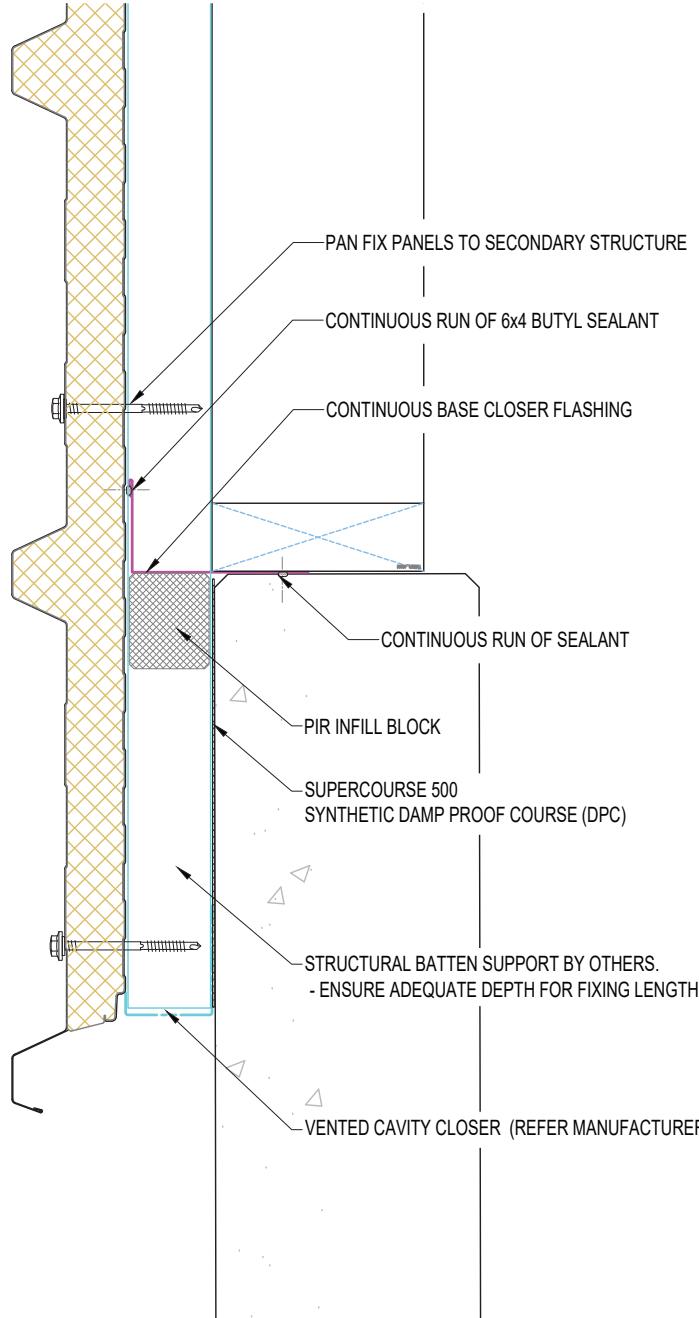


BASE DETAILS ON PRECAST WALL_2

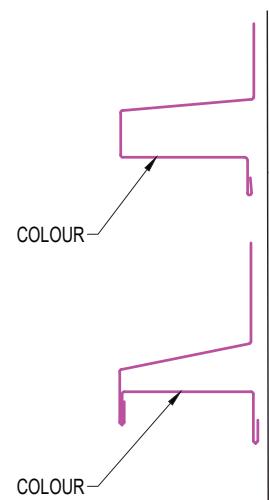


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| DESCRIPTION BASE DETAILS ON PRECAST WALL_2 | | |
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BASE DETAILS ON PRECAST_3



11b



ALTERNATIVE BASE FLASHING OPTIONS
IF UNDERSIDE IS VISIBLE

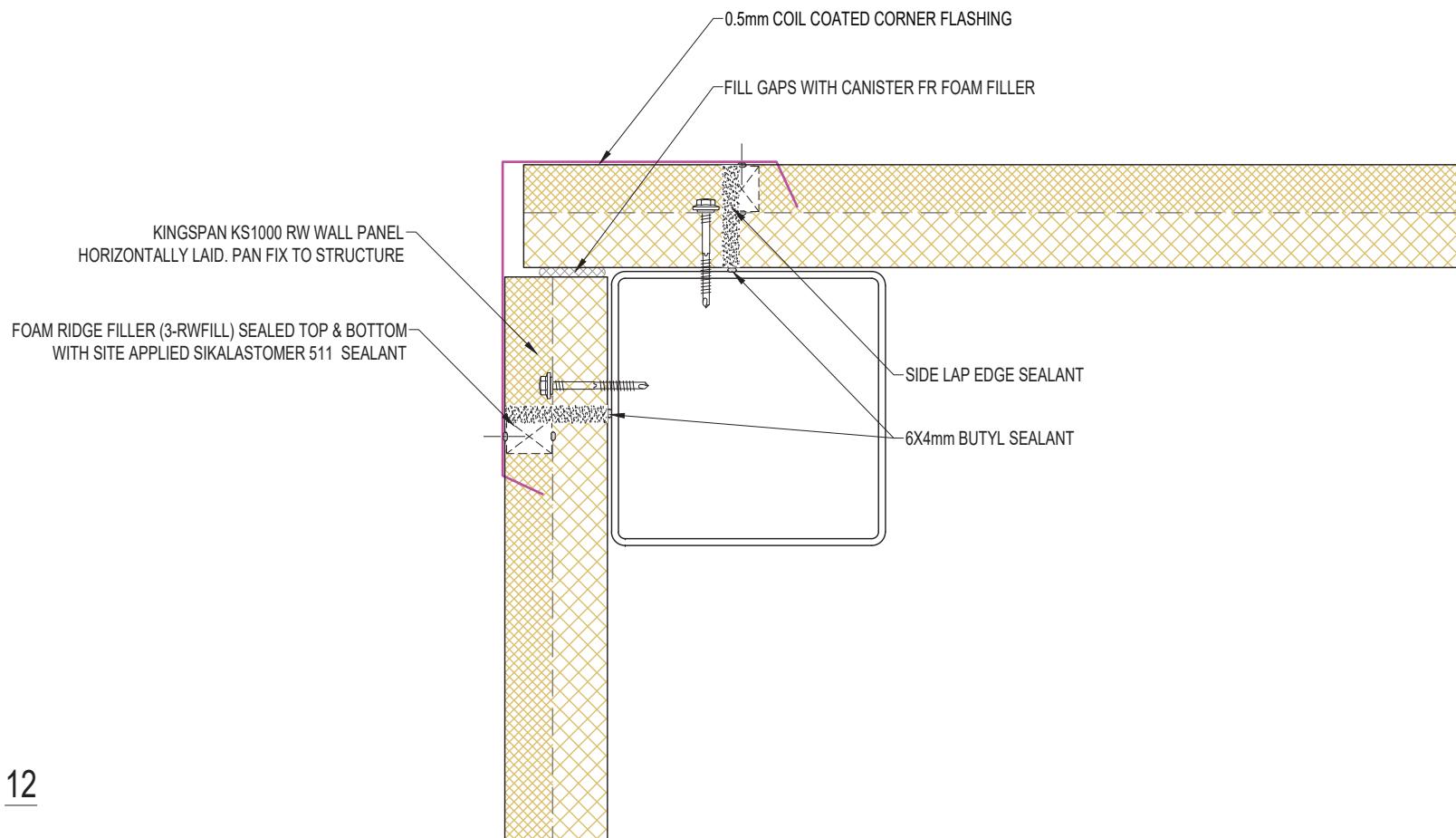
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| DESCRIPTION BASE DETAILS ON PRECAST_3 | | |
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EXTERNAL CORNER - DETAIL_1



12

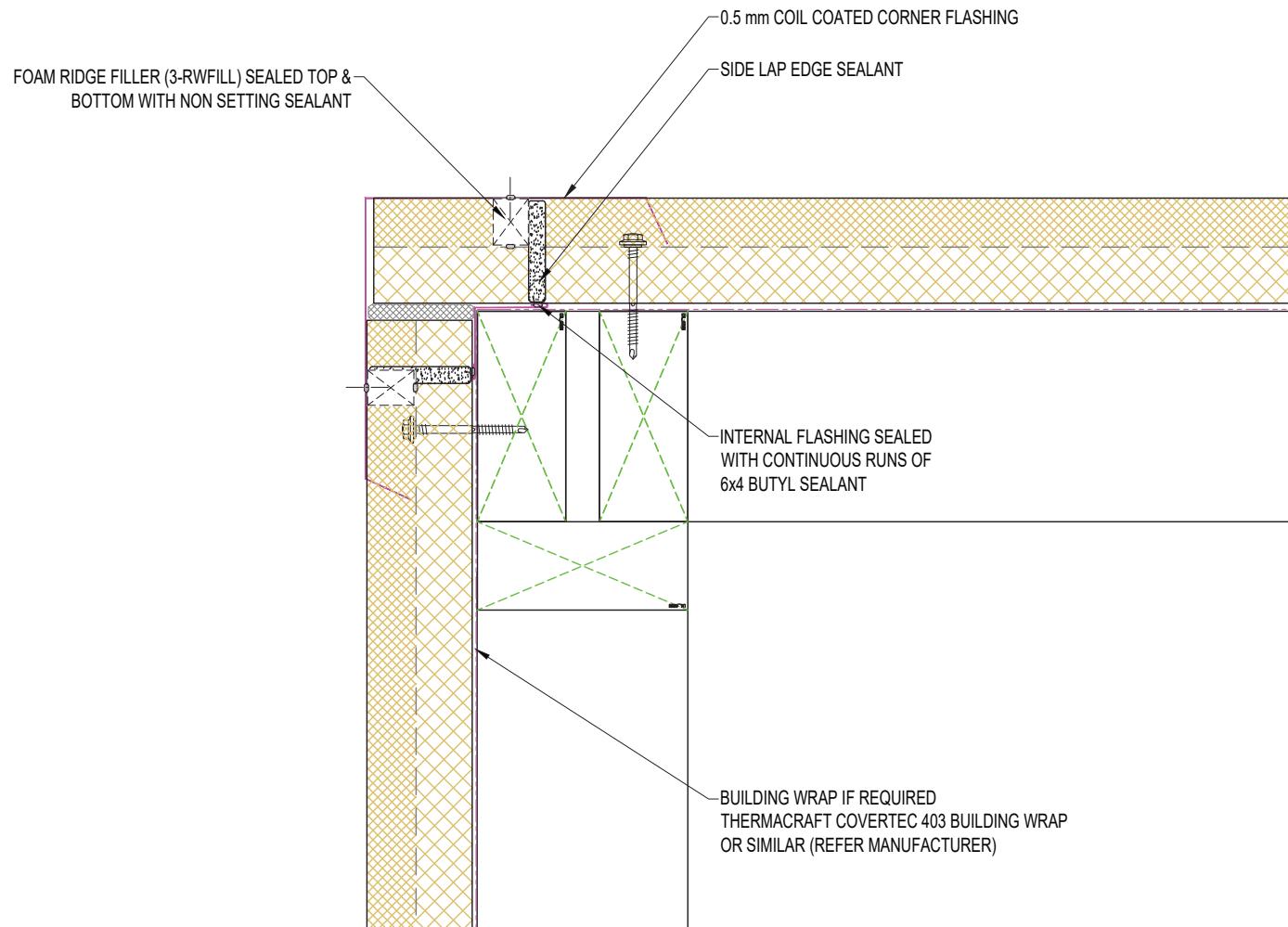
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION EXTERNAL CORNER - DETAIL_1 | | |
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EXTERNAL CORNER - DETAIL_2



13

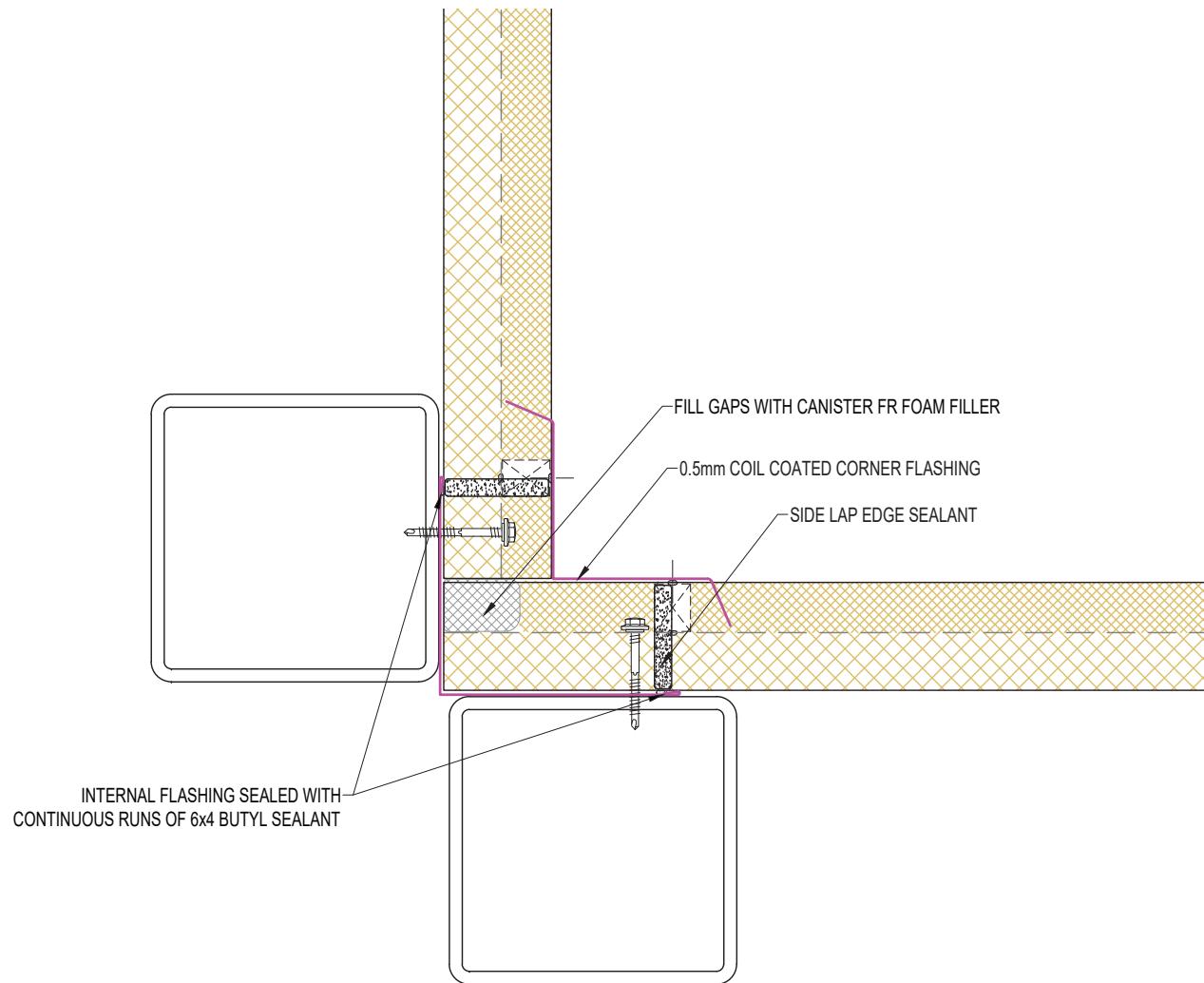
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION EXTERNAL CORNER - DETAIL_2 | | |
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INTERNAL CORNER DETAIL_2



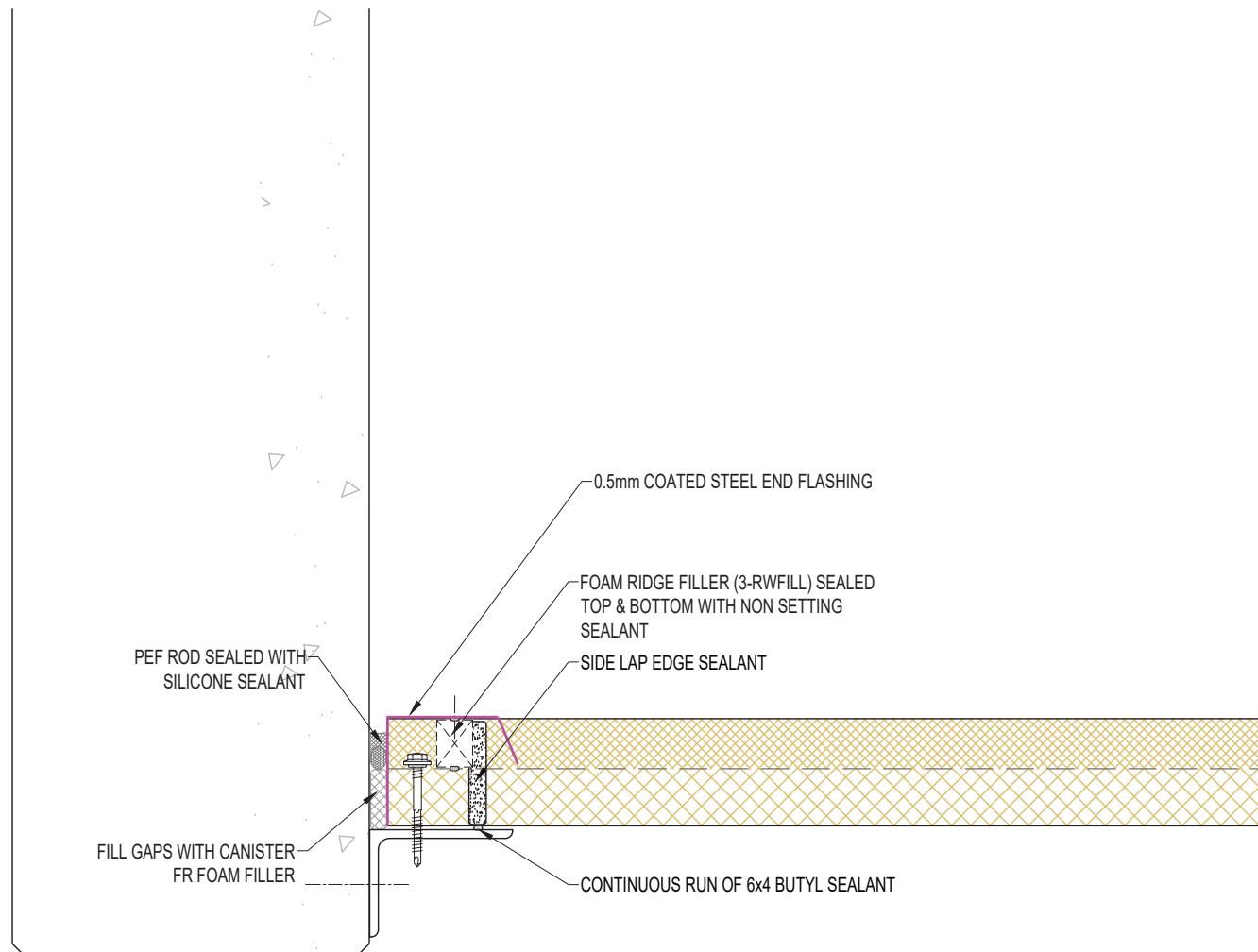
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| DESCRIPTION INTERNAL CORNER DETAIL_2 | | |
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INTERNAL CORNER DETAIL_2



| | | |
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| DESCRIPTION INTERNAL CORNER DETAIL_2 | | |
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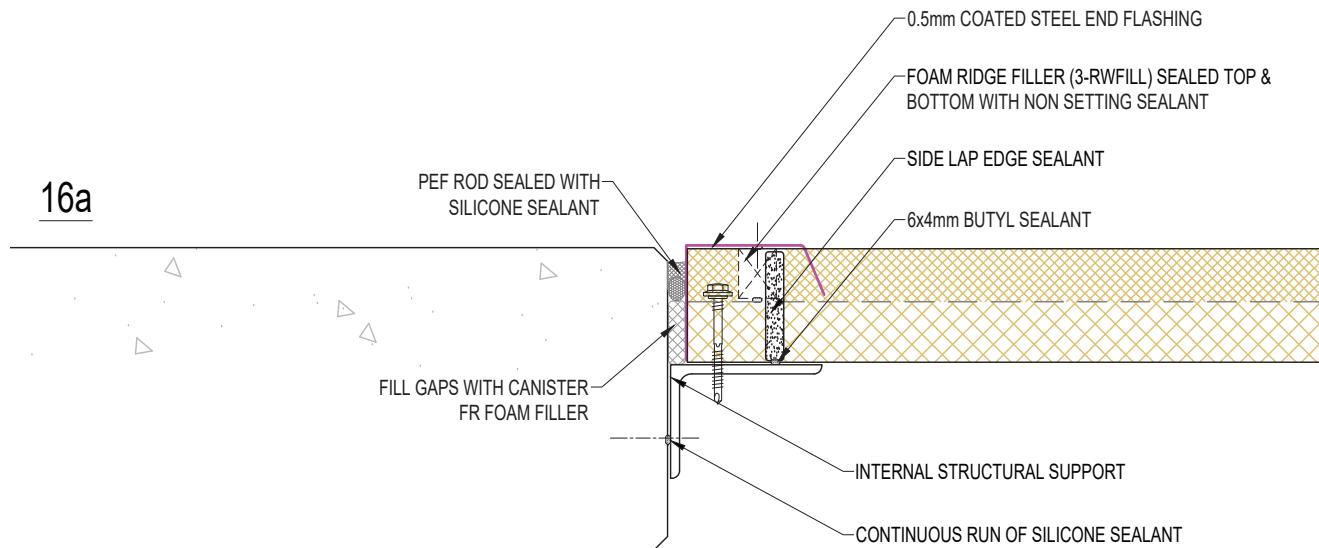
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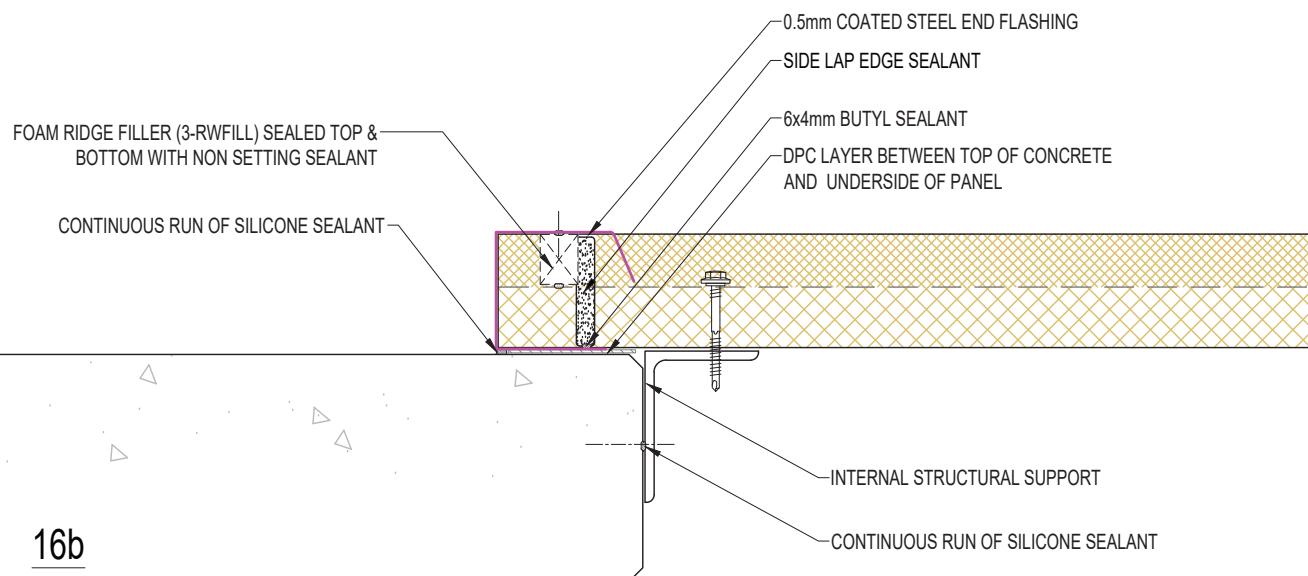


ABUTMENTS TO CONCRETE

16a

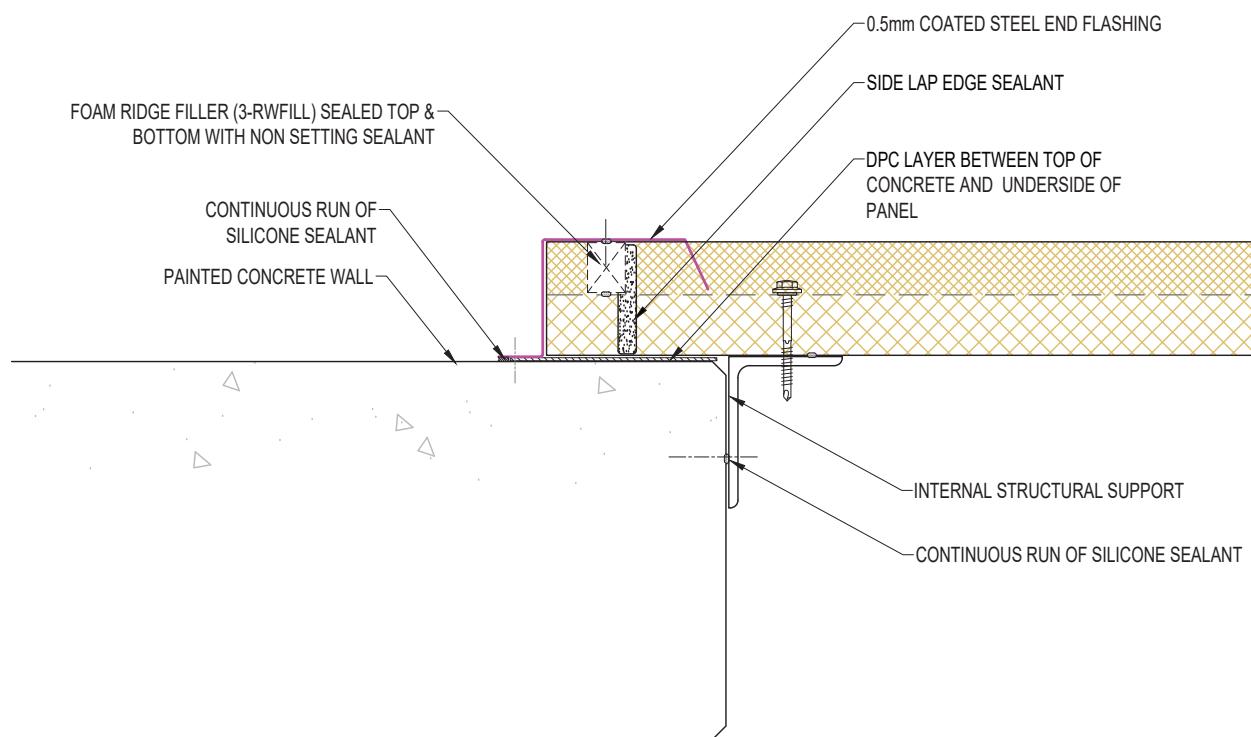


16b



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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION ABUTMENTS TO CONCRETE | | |
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ABUTMENTS TO CONCRETE



| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION ABUTMENTS TO CONCRETE | | |
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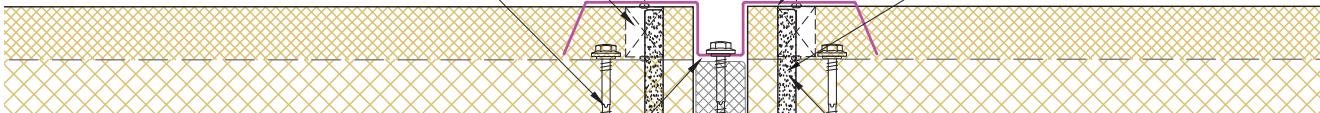
TOPHAT JOIN DETAIL_1

FOAM RIDGE FILLER (3-RWFILL) SEALED TOP & BOTTOM WITH SITE APPLIED SIKALASTOMER 511 SEALANT

PAN FIX WALL PANEL TO STRUCTURE

0.5mm COIL COATED TOP HAT FLASHING

CONTINUOUS RUN OF SITE APPLIED SIKALASTOMER 511 SEALANT ACROSS JOINT



FILL GAPS WITH CANISTER FR FOAM FILLER

SIDE LAP EDGE SEALANT

CONTINUOUS RUN OF BUBBLE GASKET (TH-BUBBLE) BETWEEN STRUCTURE AND INTERNAL FACE OF PANEL.

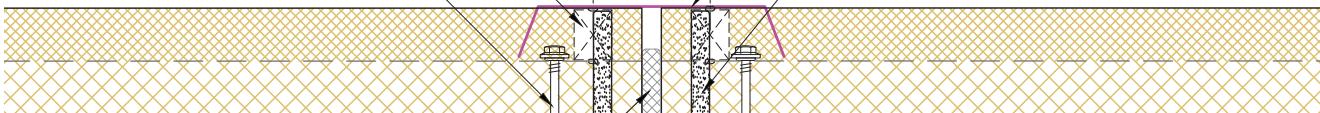
18a

FOAM RIDGE FILLER (3-RWFILL) SEALED TOP & BOTTOM WITH NON SETTING SEALANT

PAN FIX WALL PANEL TO STRUCTURE

0.5mm COIL COATED COVER FLASHING SEALED WITH SILICONE SEALANT

SIDE LAP EDGE SEALANT

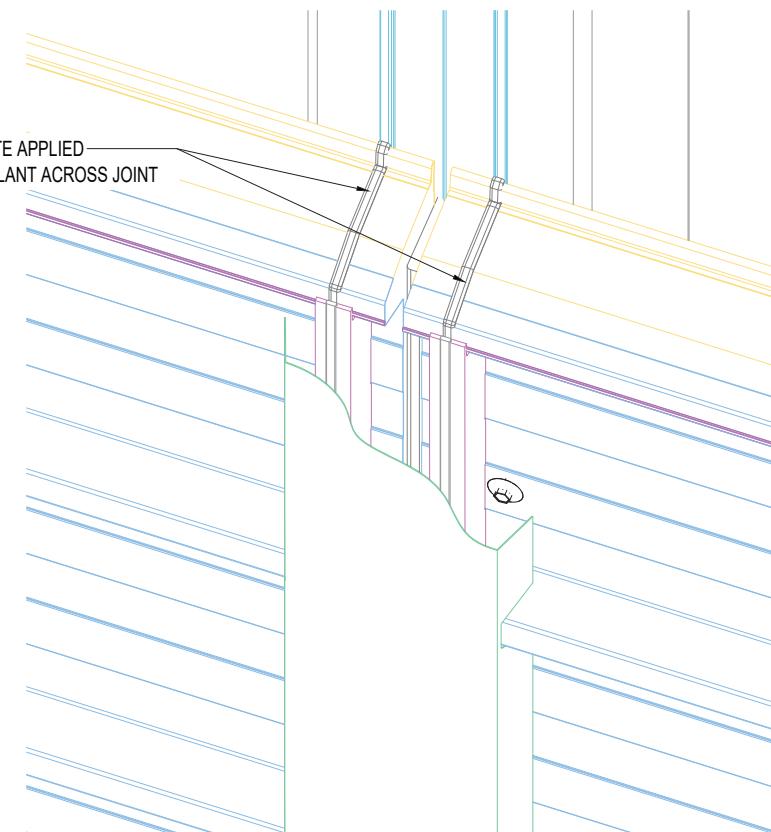


FILL GAPS WITH CANISTER FR FOAM FILLER

Min 120mm Bearing Surface

CONTINUOUS RUN OF BUBBLE GASKET (TH-BUBBLE) BETWEEN STRUCTURE AND INTERNAL FACE OF PANEL

18b



SYSTEM
KS1000 RW_STD WALL_HORIZONTAL Q4_2023

DESCRIPTION
TOPHAT JOIN DETAIL_1

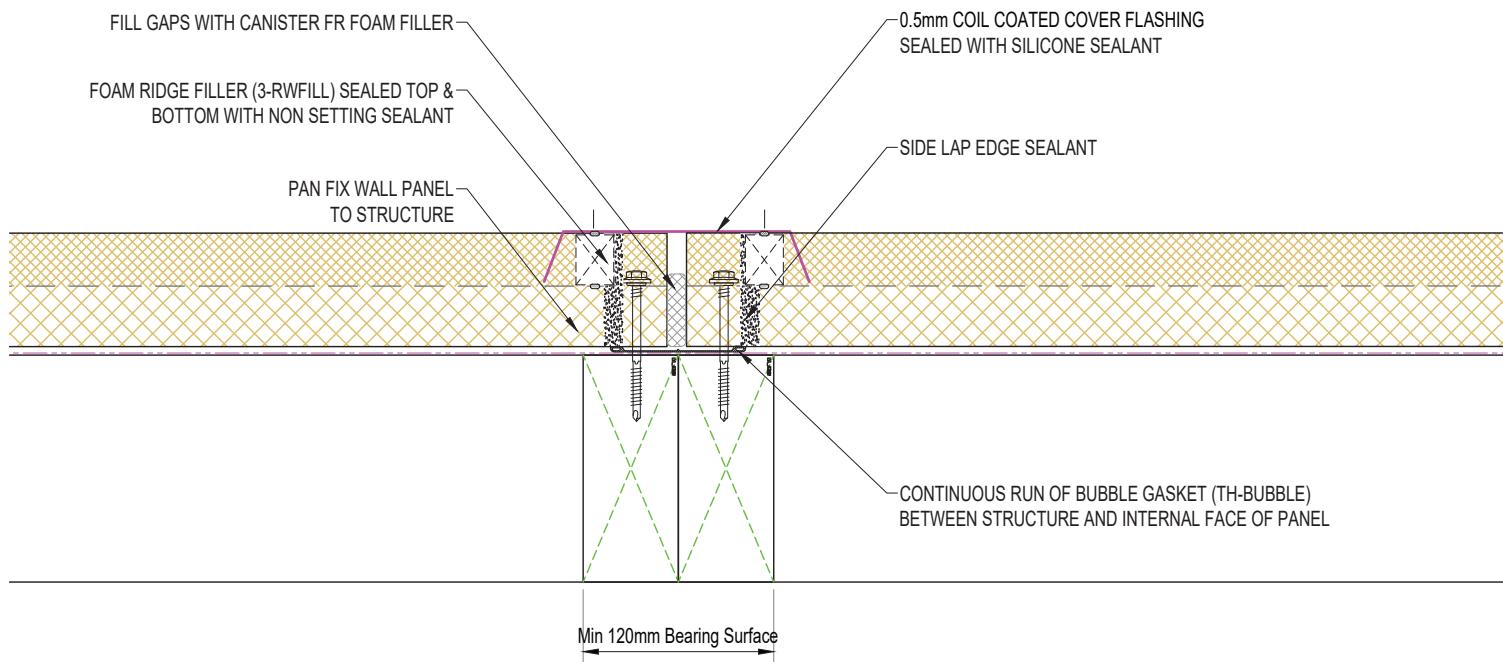
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| JS | 09.10.23 | - |
| DRG REF: RW_HS_18 | SCALE 1:5 | PAPER SIZE A4 |

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TOPHAT JOIN DETAIL_2



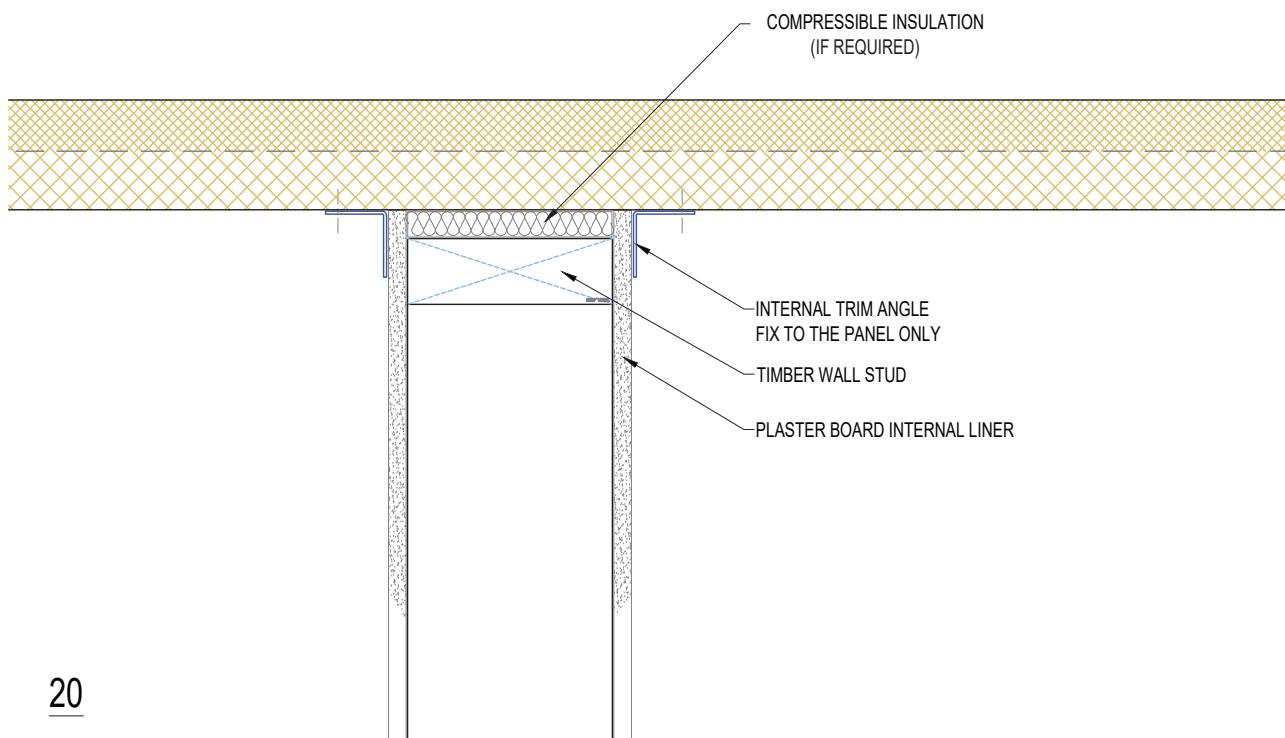
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION TOPHAT JOIN DETAIL_2 | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
| DRG REF: RW_HS_19 | SCALE 1:5 | PAPER SIZE A4 |

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INTERNAL PARTITION WALL ABUTS PANEL



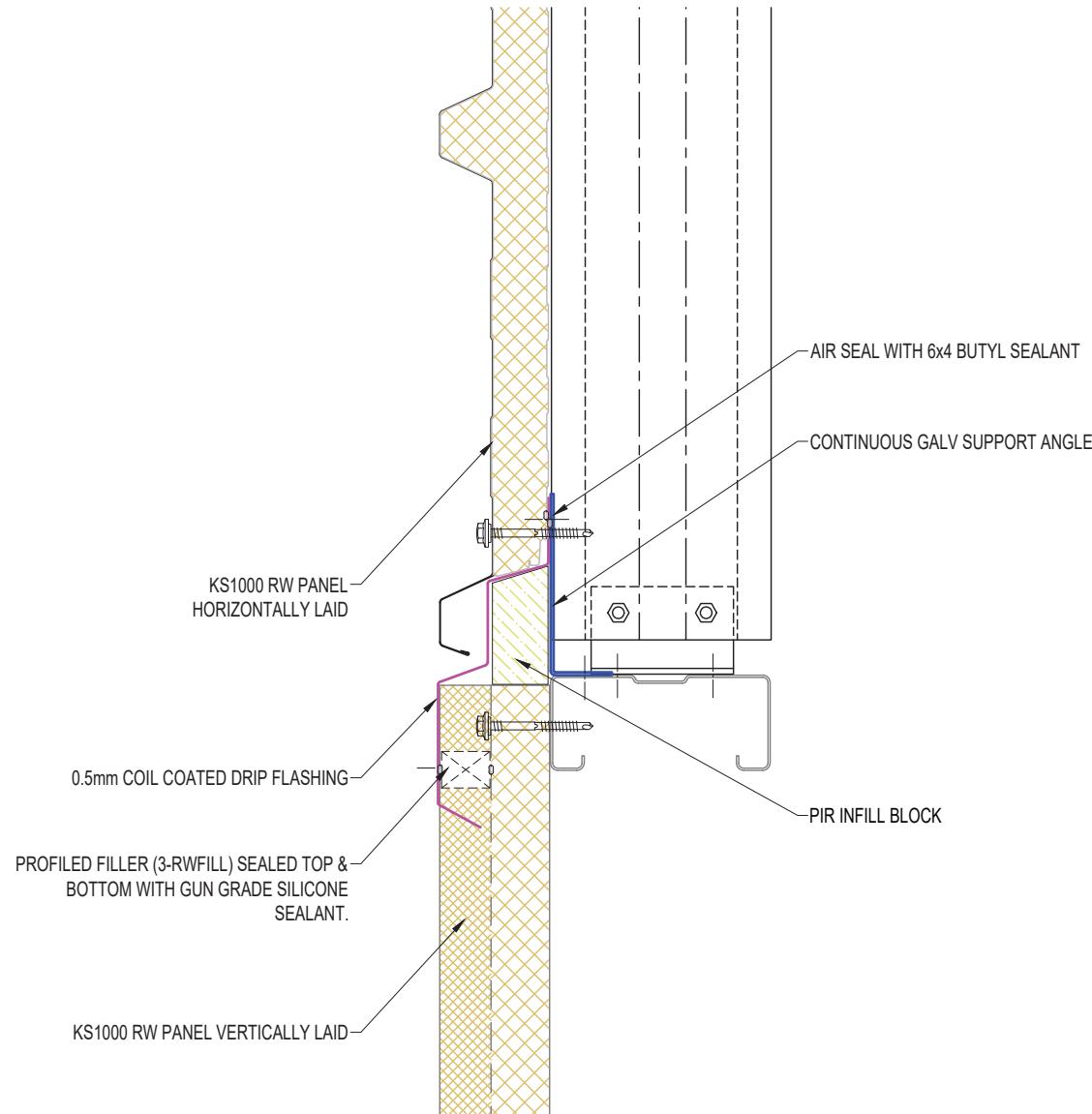
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION INTERNAL PARTITION WALL ABUTS PANEL | | |
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RW HORIZONTAL TO VERTICAL BREAK DETAIL



| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION RW HORIZONTAL TO VERTICAL BREAK DETAIL | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
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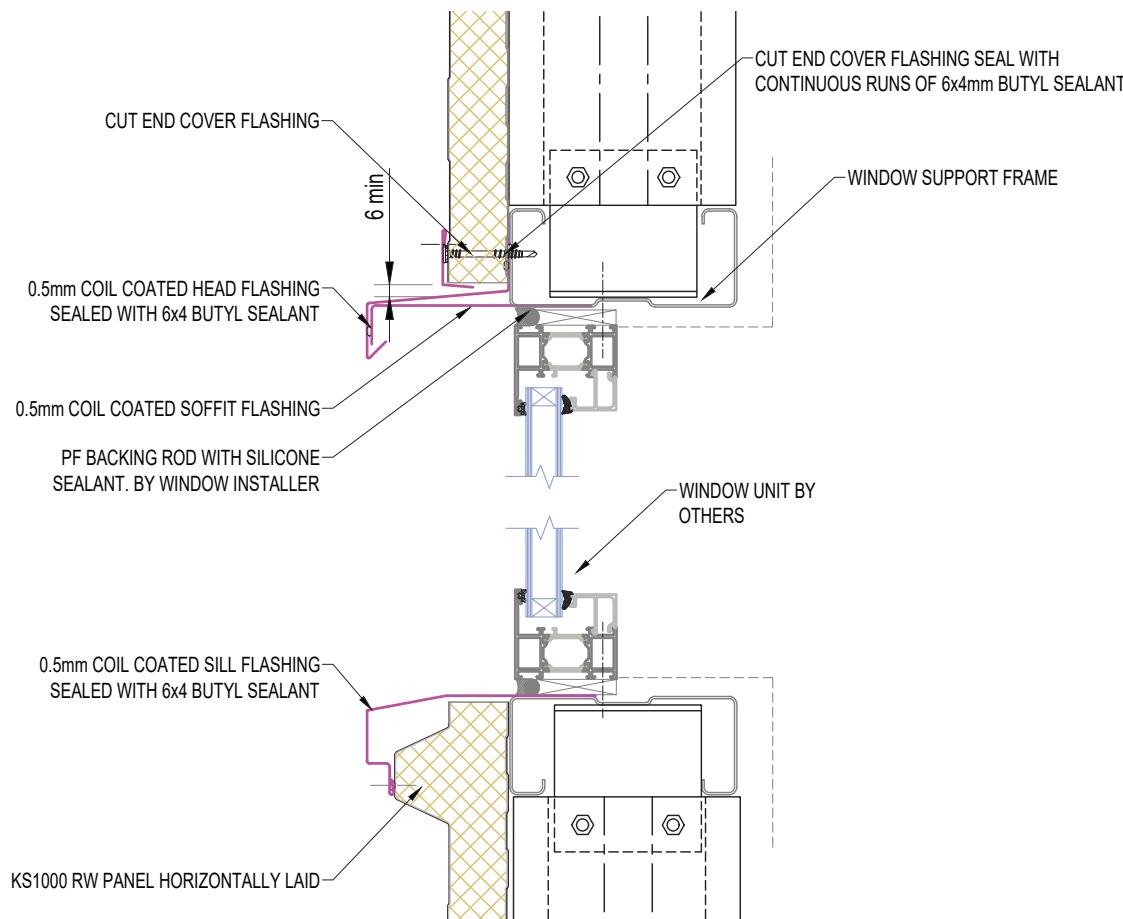
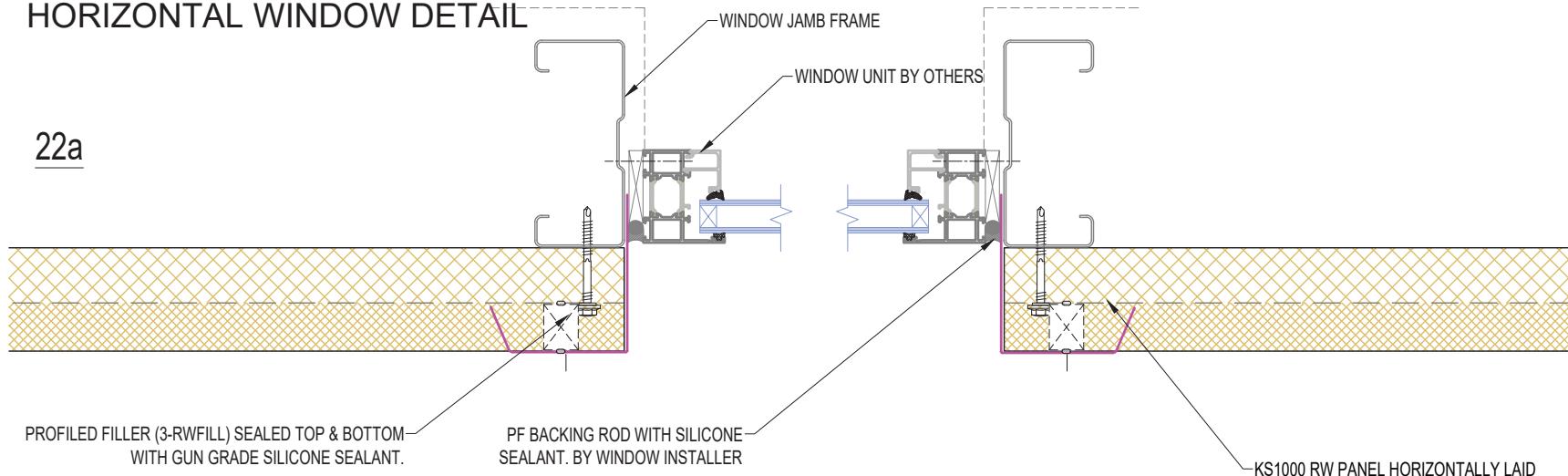
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HORIZONTAL WINDOW DETAIL

22a



| | | |
|---|------------------|------------------|
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| DESCRIPTION HORIZONTAL WINDOW DETAIL | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
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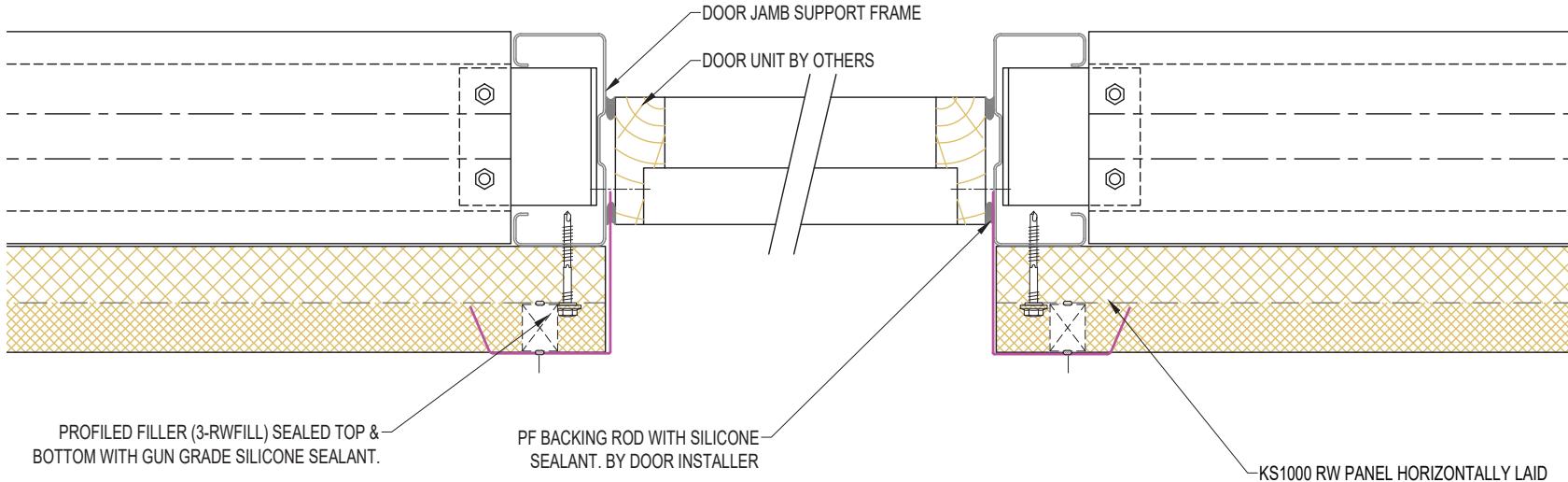
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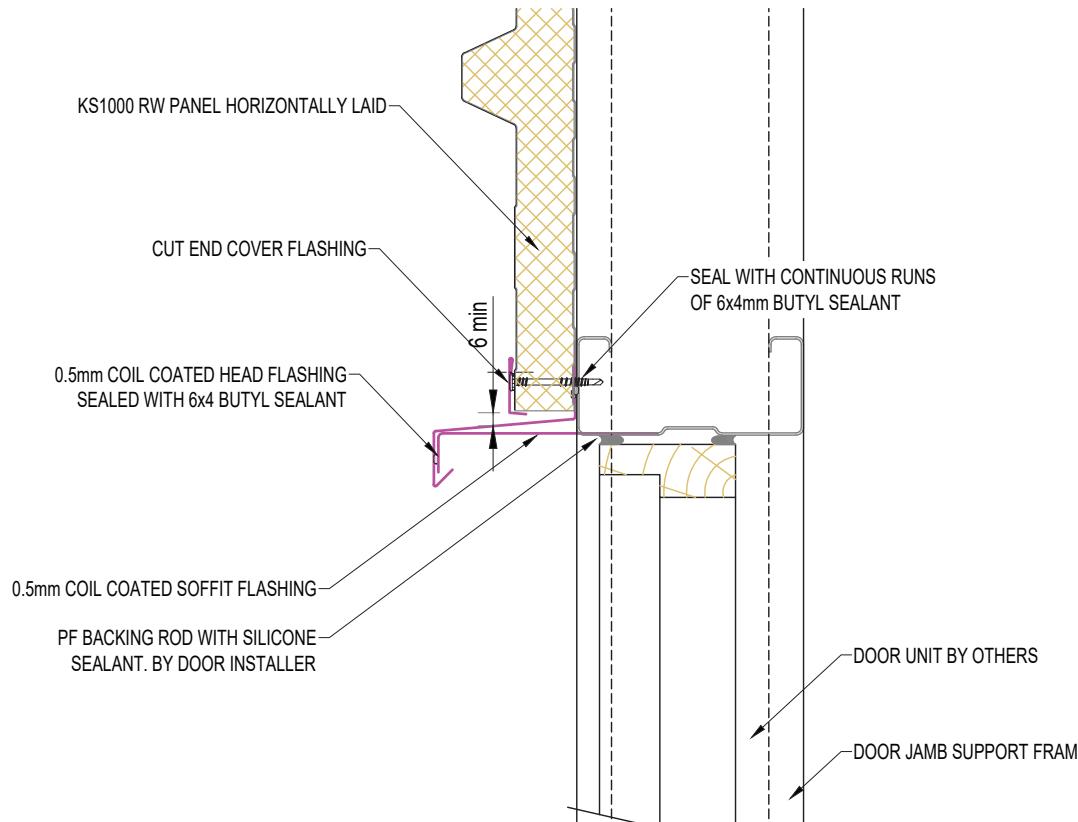


22b

PERSONNEL DOOR DETAIL



23a



23b

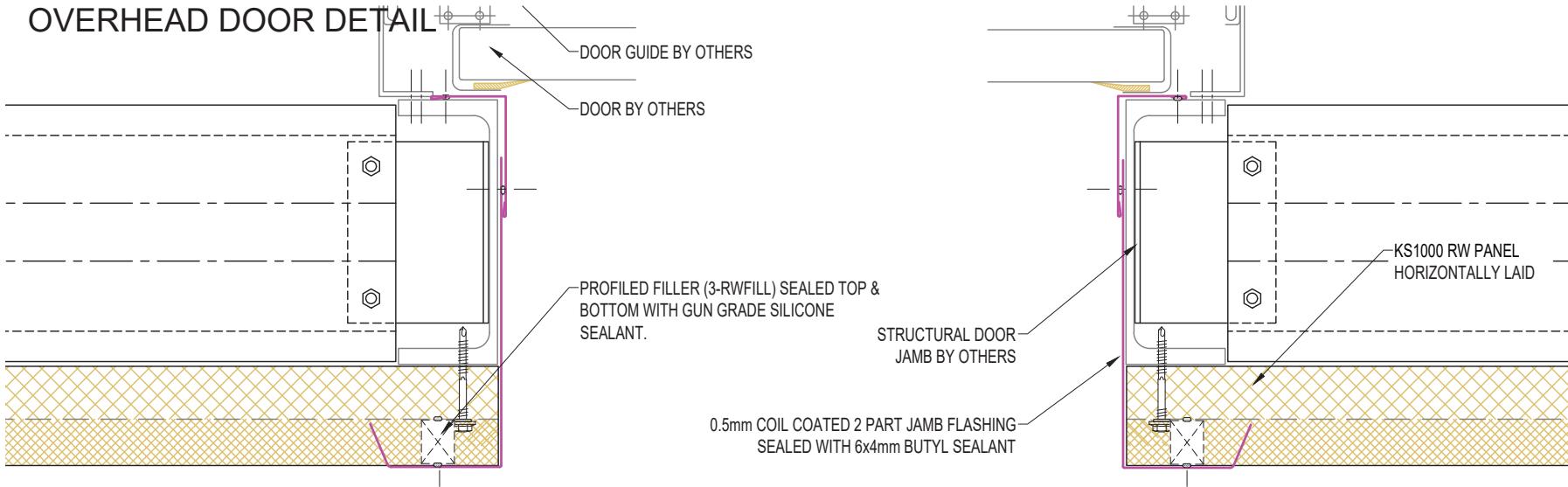
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PERSONNEL DOOR DETAIL | | |
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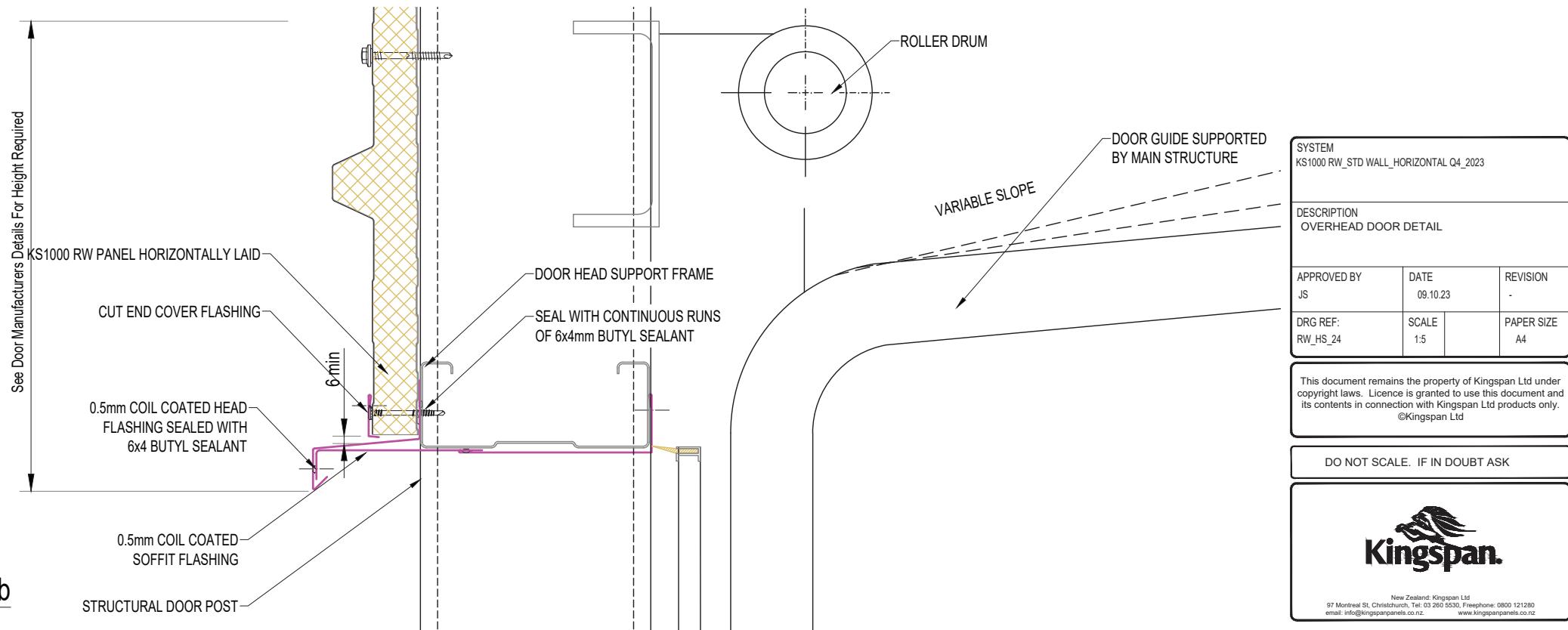
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OVERHEAD DOOR DETAIL

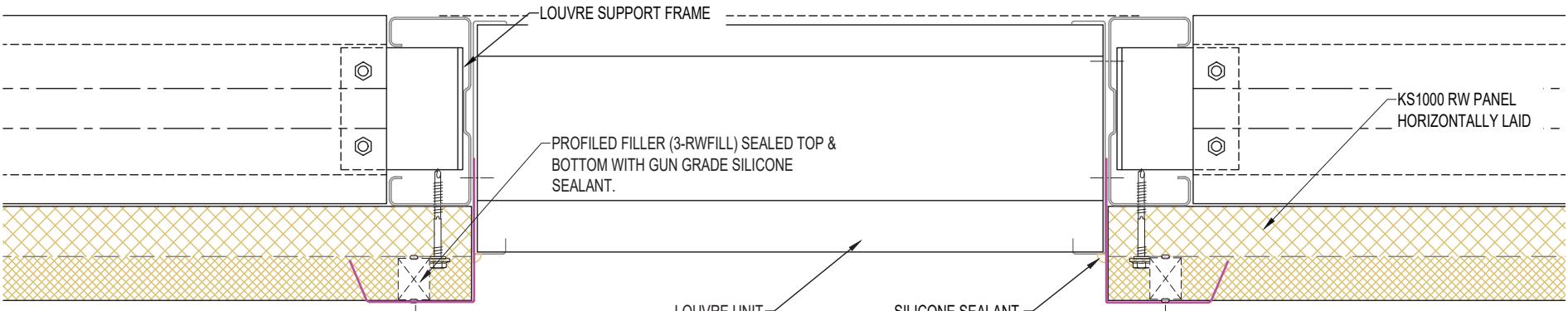


24a

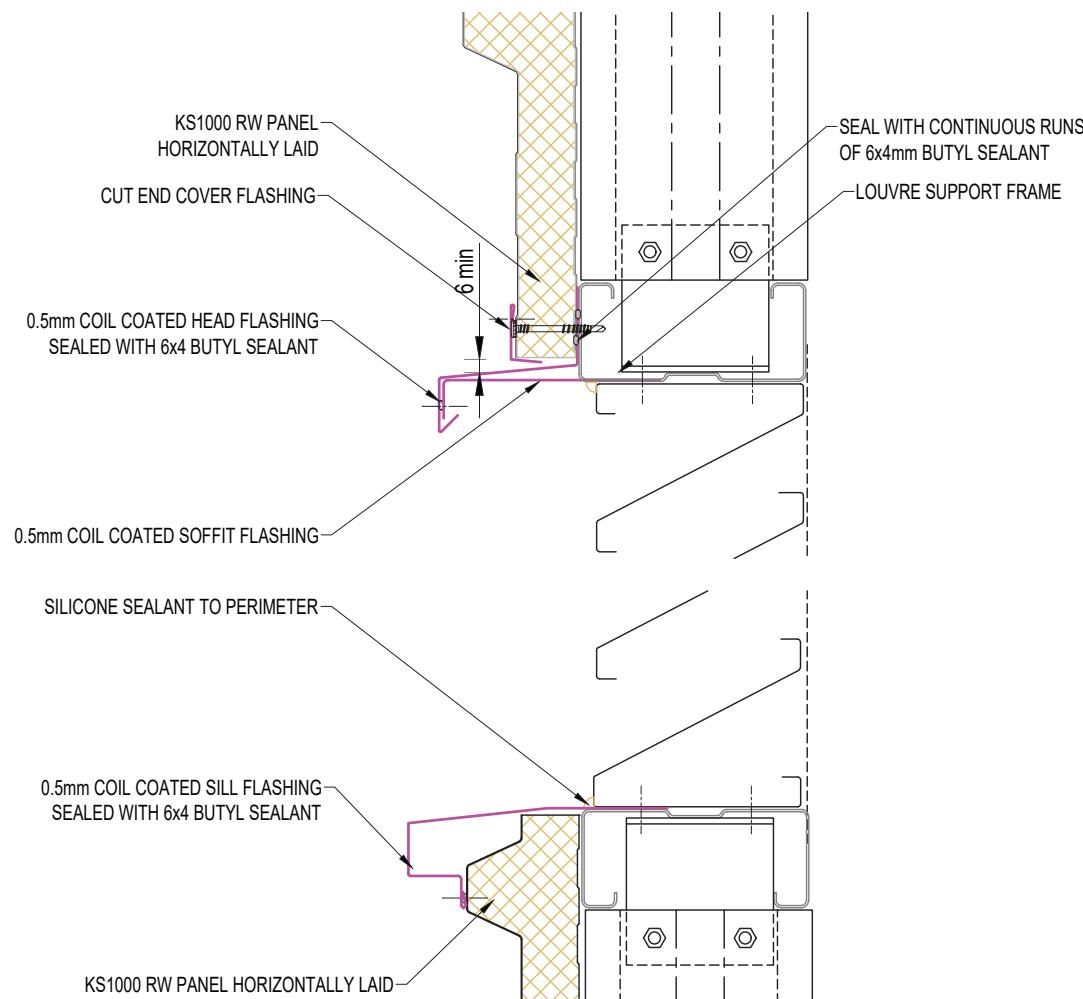


24b

LOUVRE DETAIL



25a



25b

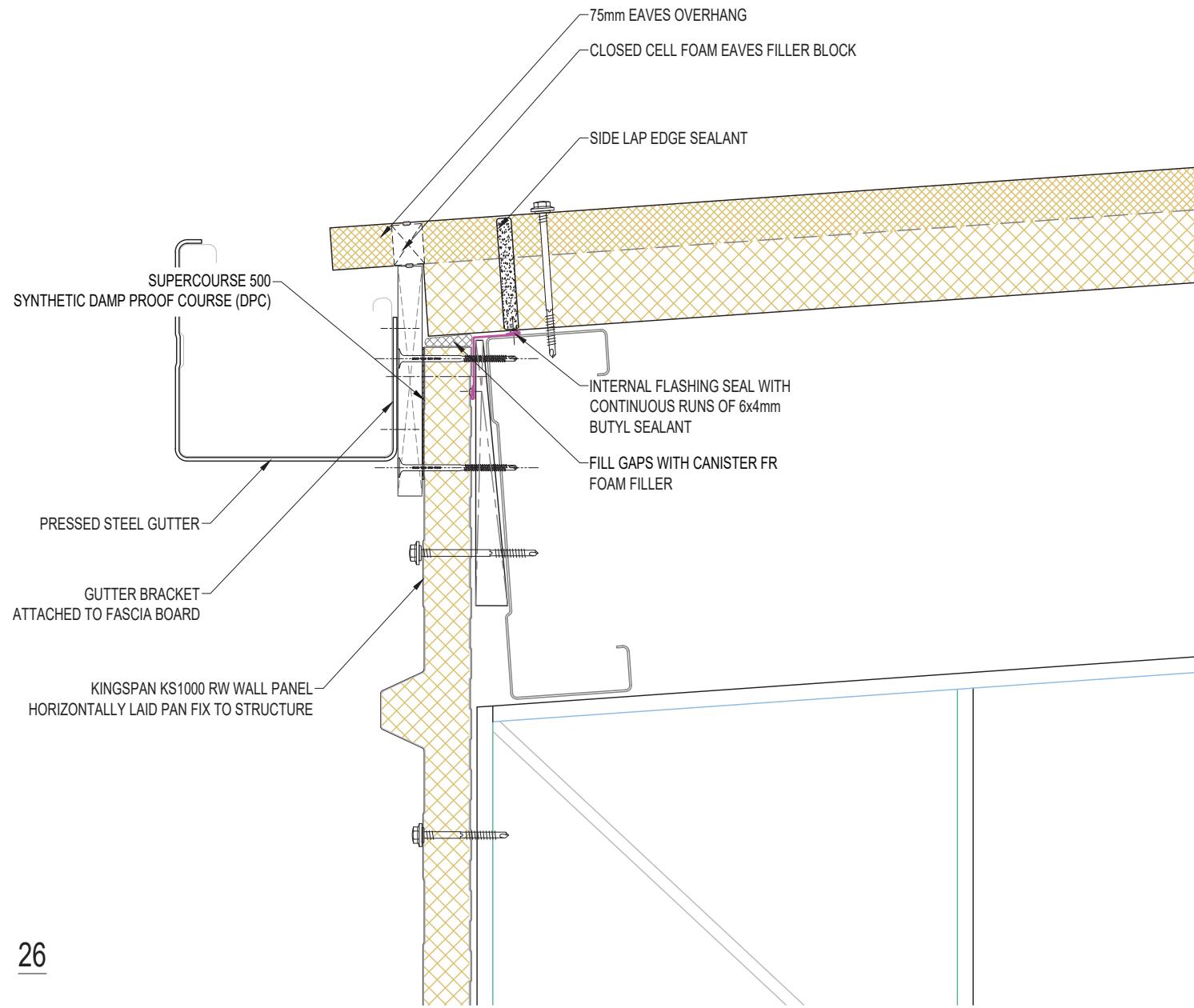
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION LOUVRE DETAIL | | |
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EAVES GUTTER DETAIL



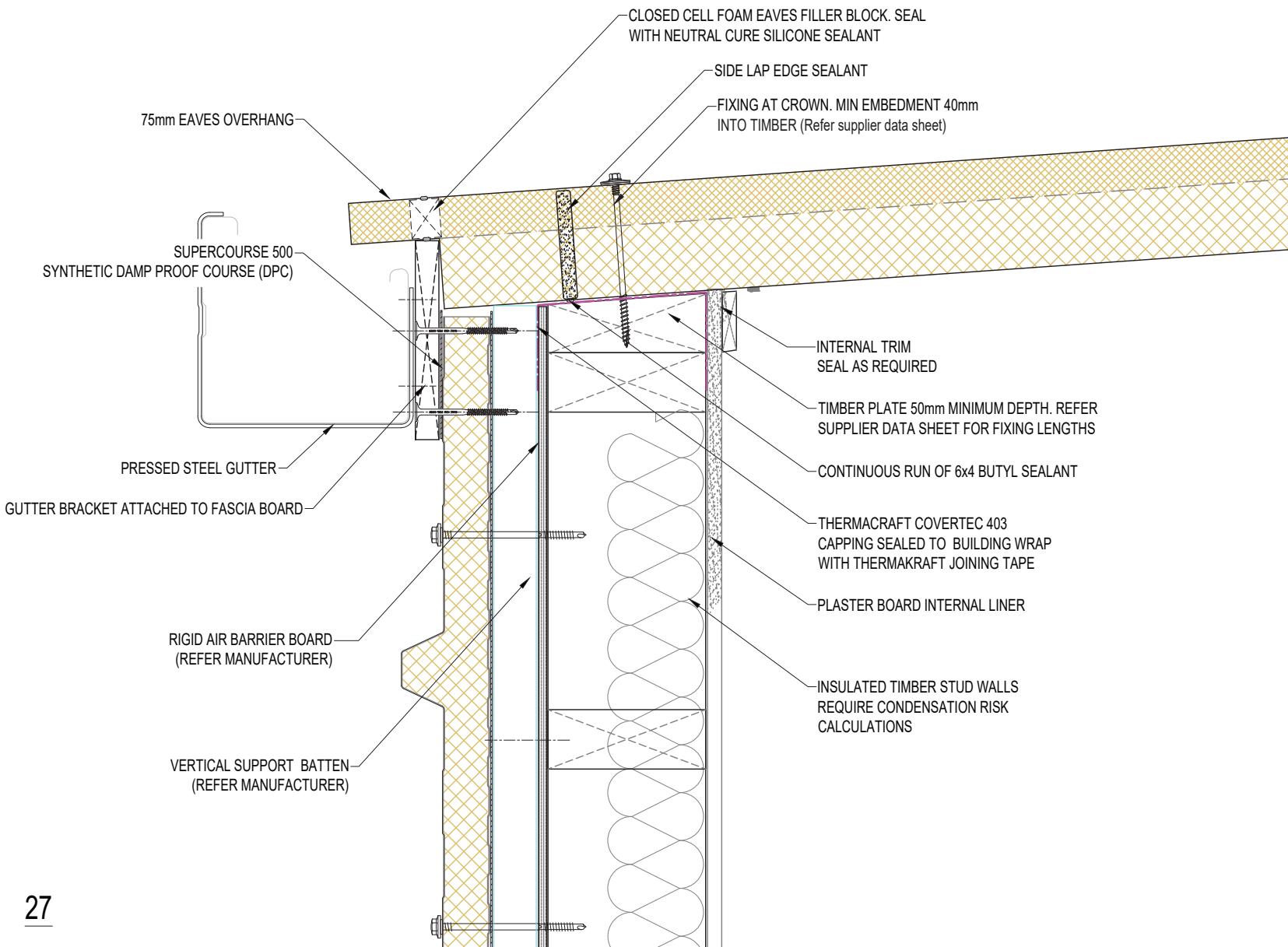
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION EAVES GUTTER DETAIL | | |
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EAVES GUTTER DETAIL - RAB BOARD



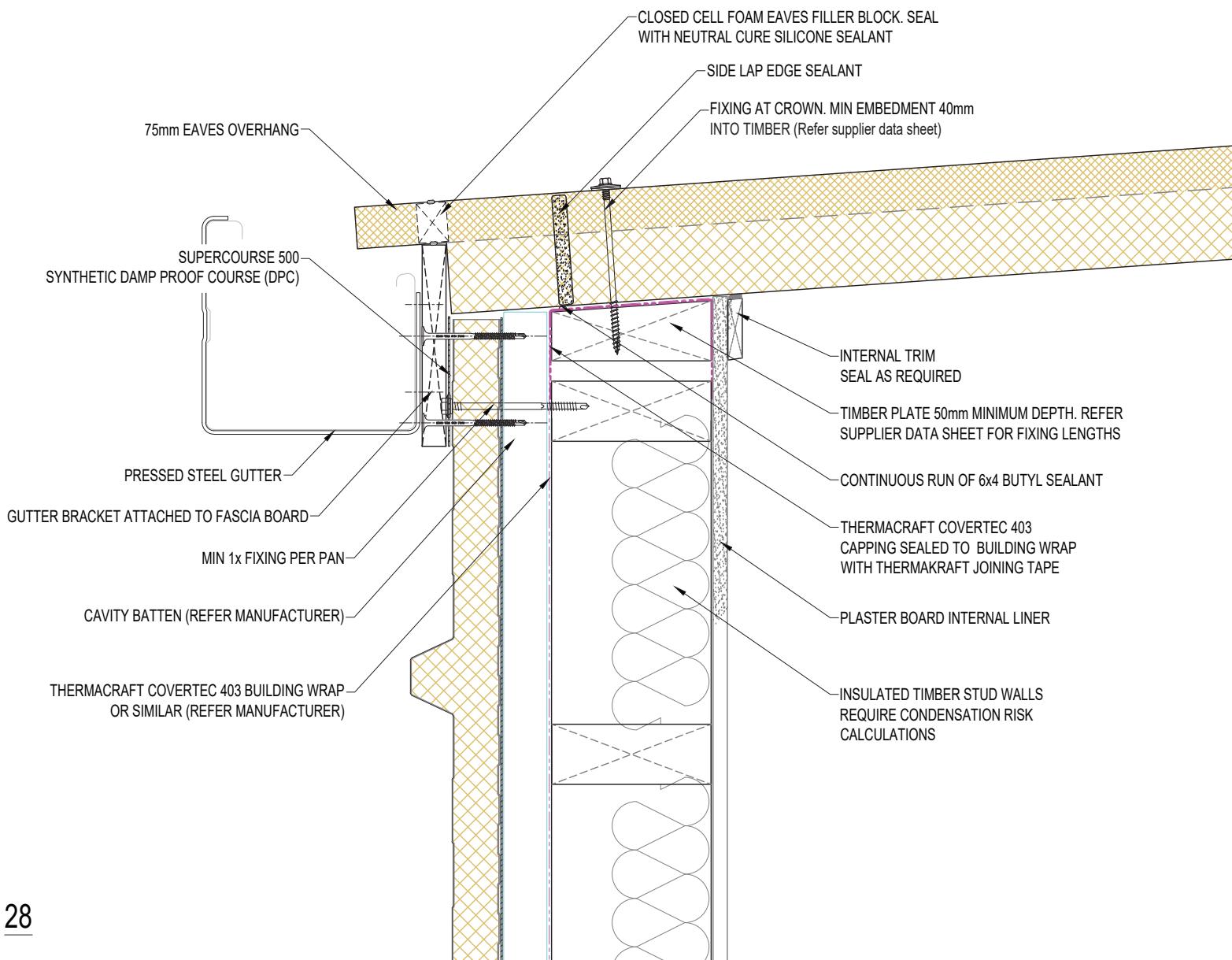
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION EAVES GUTTER DETAIL - RAB BOARD | | |
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EAVES GUTTER DETAIL - BUILDING WRAP



| | | |
|--|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION EAVES GUTTER DETAIL - BUILDING WRAP | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
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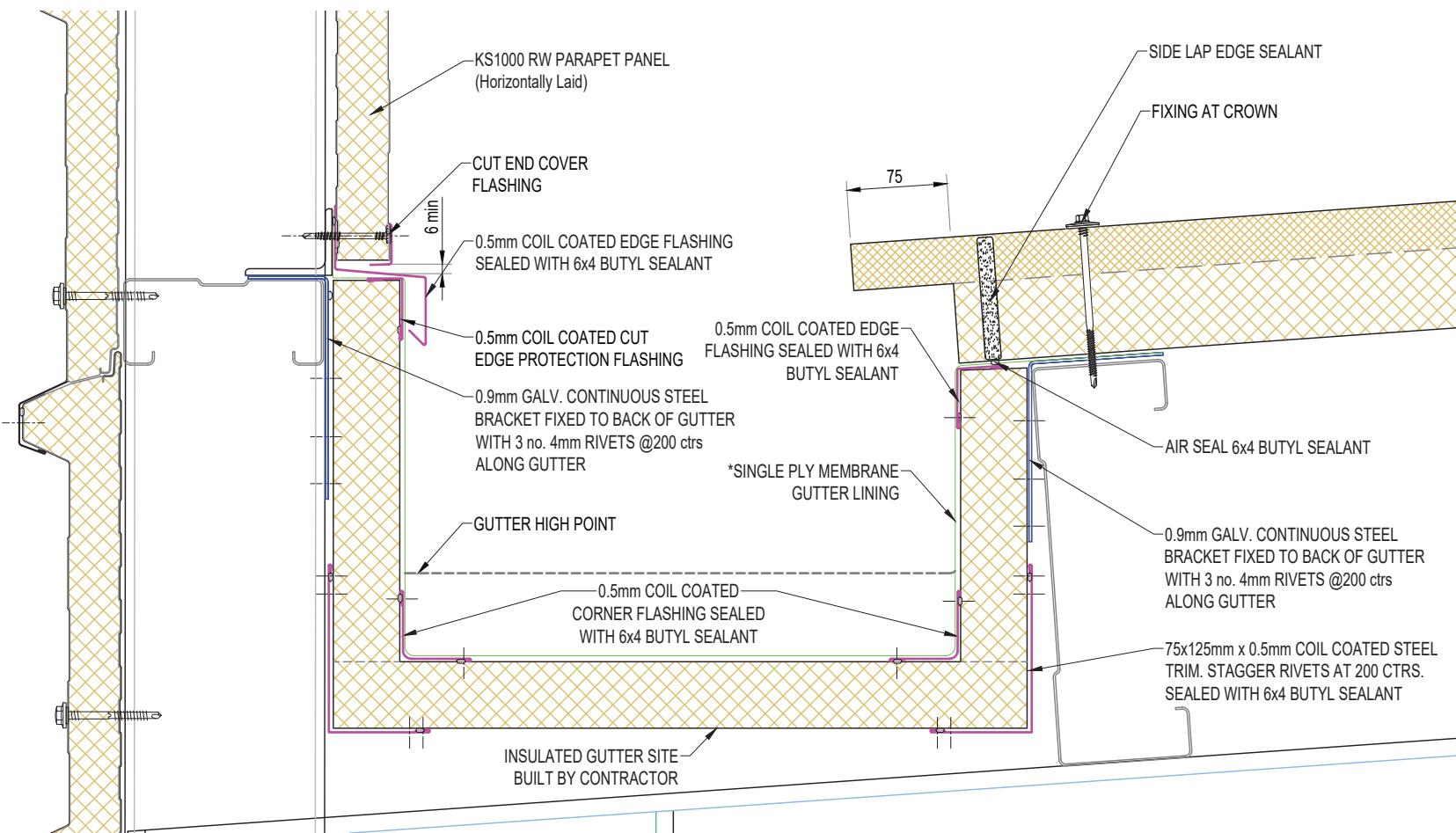
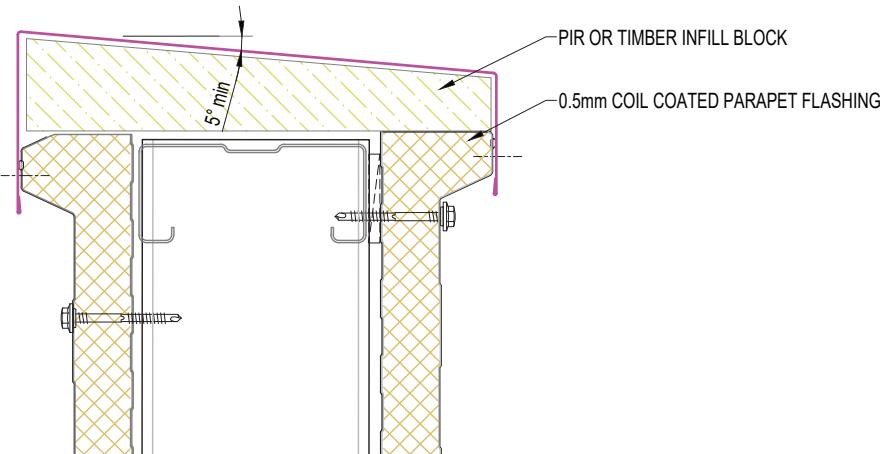
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KS1100 CS GUTTER, KS1000 RW ROOF & HORIZONTAL PARAPET WALL

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



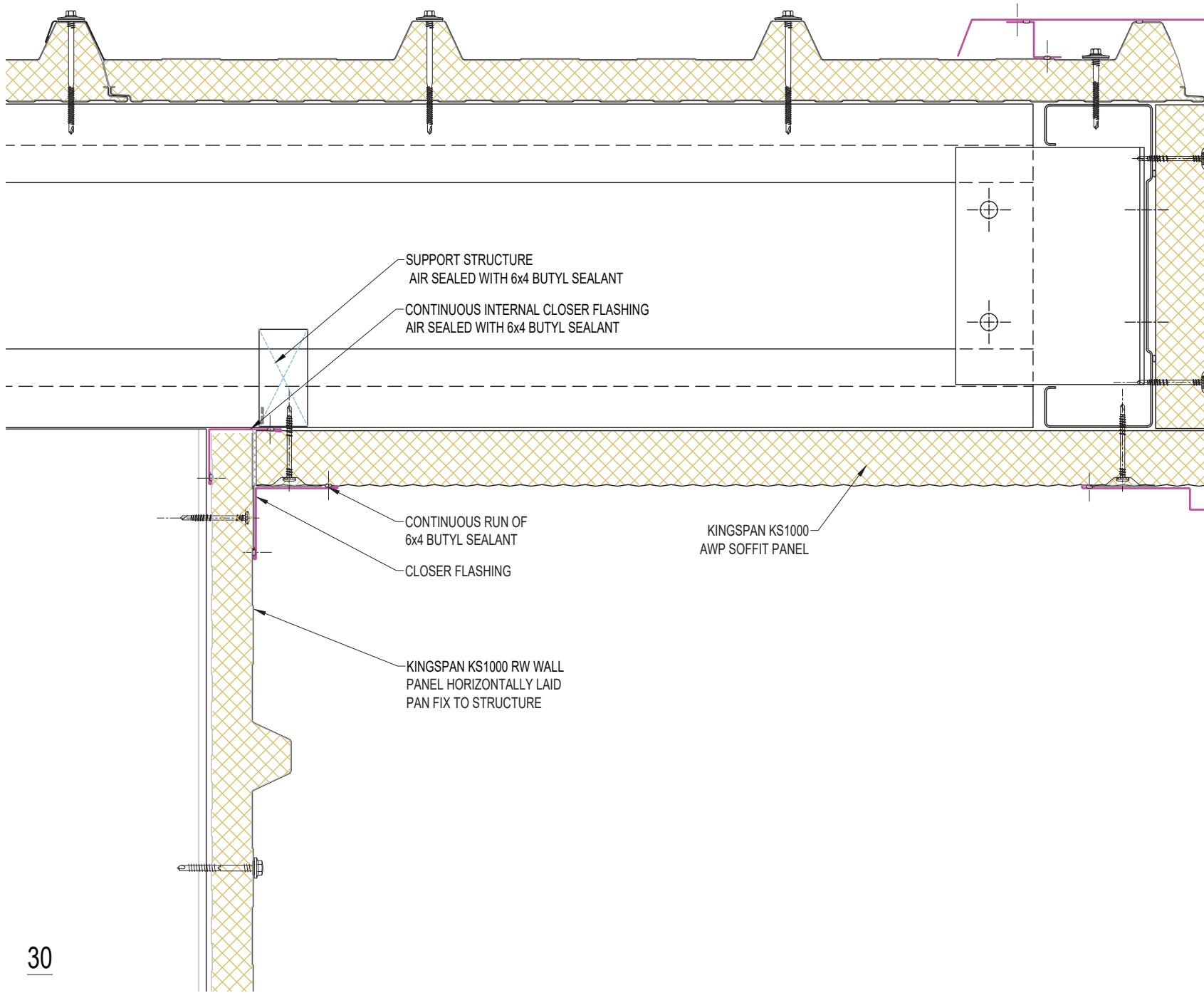
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION KS1100 CS GUTTER, KS1000 RW ROOF & HORIZONTAL PARAPET WALL | | |
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VERGE OVERHANG



SYSTEM
KS1000 RW_STD WALL_HORIZONTAL Q4_2023

DESCRIPTION
VERGE OVERHANG

| | | |
|-------------------|------------------|---------------|
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
|-------------------|------------------|---------------|

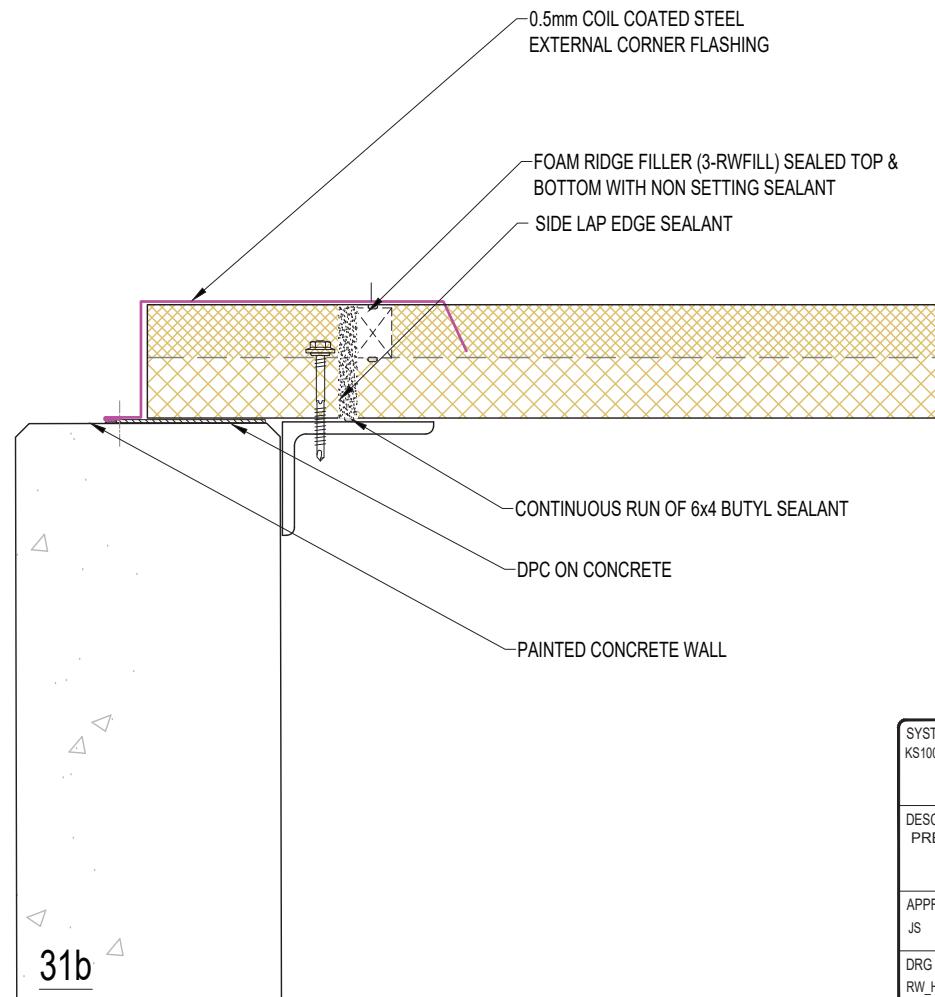
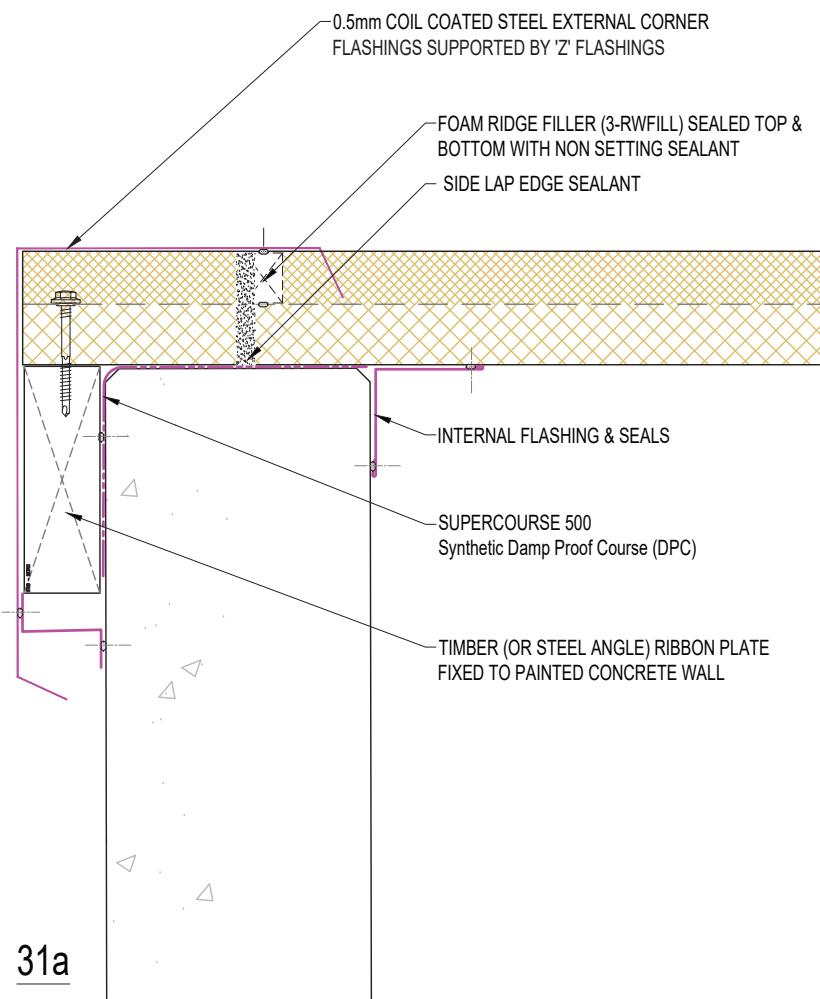
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PRECAST WALL - EXTERNAL CORNER_1



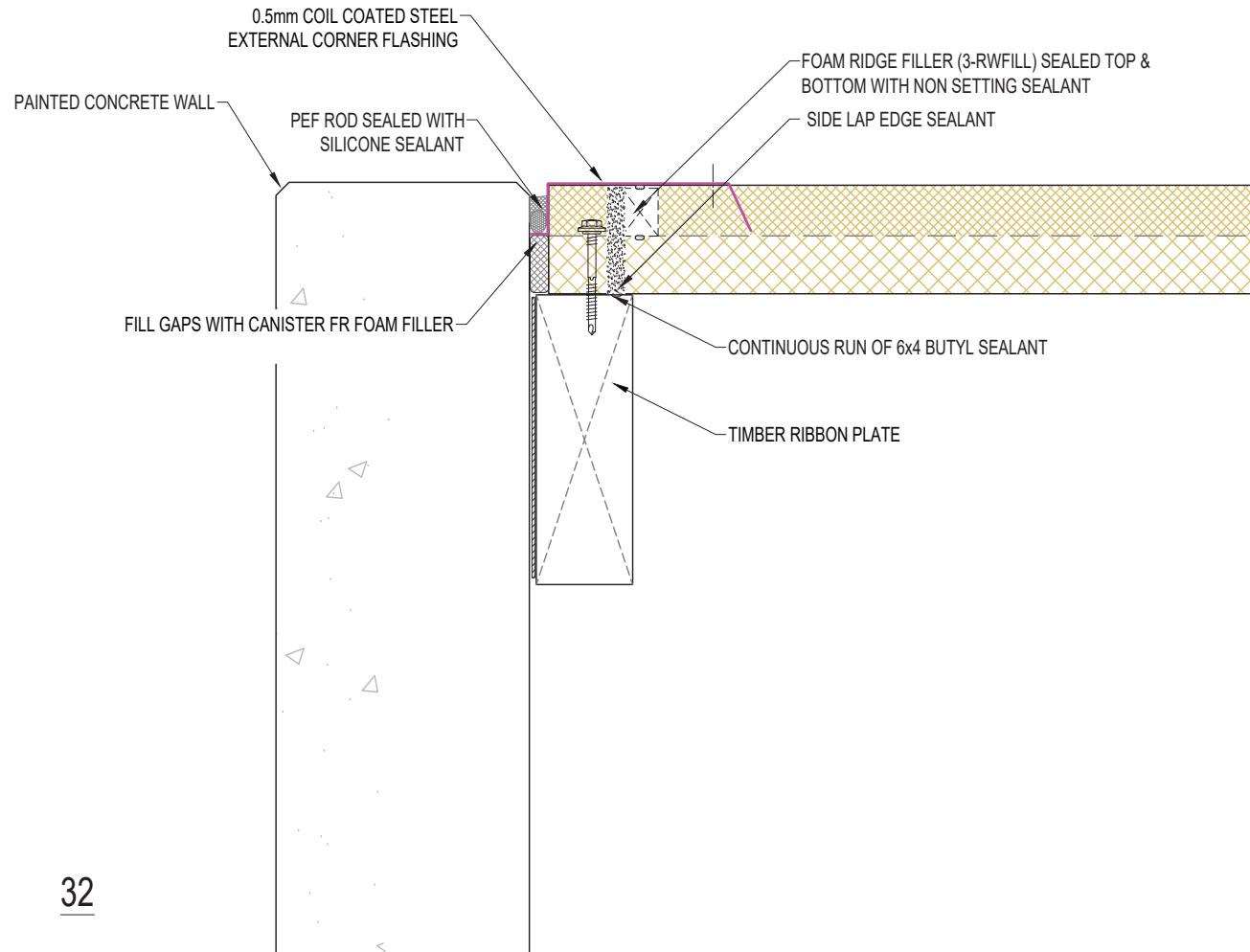
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PRECAST WALL - EXTERNAL CORNER_1 | | |
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PRECAST WALL - EXTERNAL CORNER_2



| | | |
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| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PRECAST WALL - EXTERNAL CORNER_2 | | |
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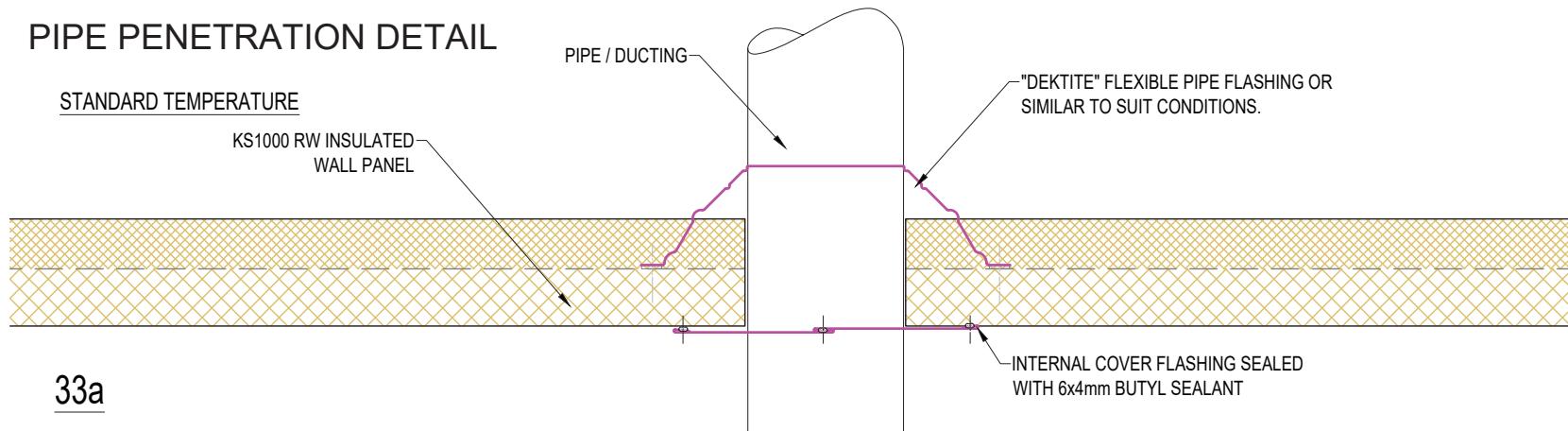
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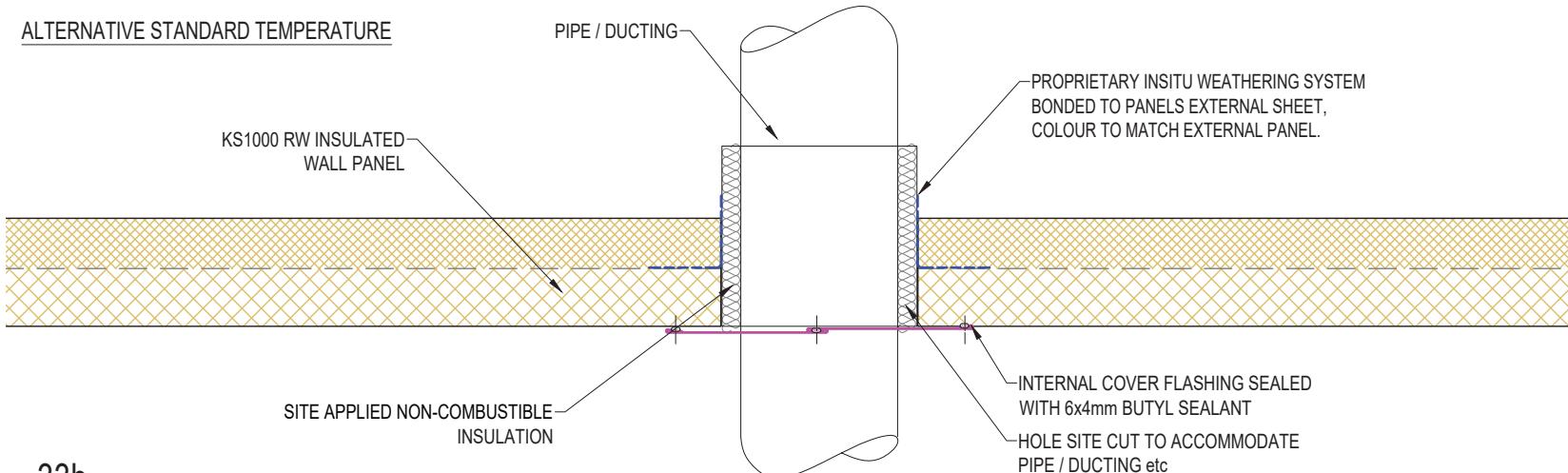
PIPE PENETRATION DETAIL

STANDARD TEMPERATURE



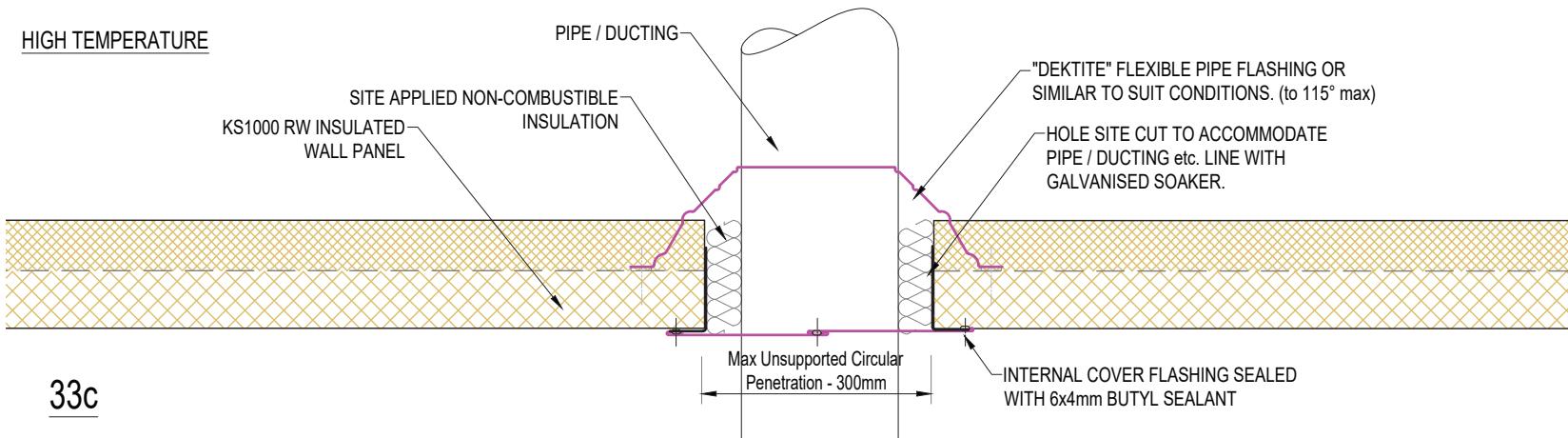
33a

ALTERNATIVE STANDARD TEMPERATURE



33b

HIGH TEMPERATURE



33c

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

| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PIPE PENETRATION DETAIL | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
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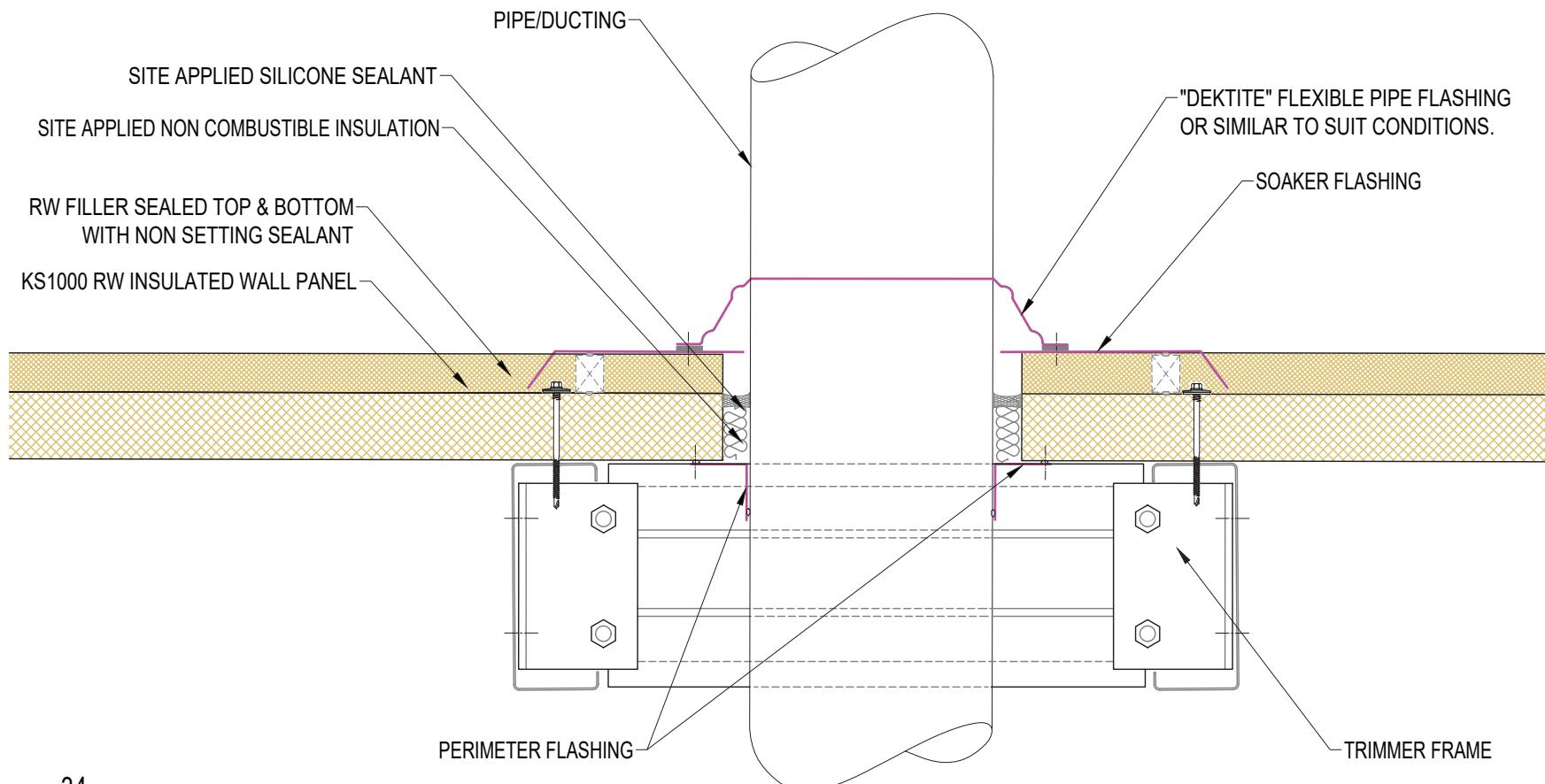
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PIPE PENETRATION DETAIL

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



34

| | | |
|---|------------------|------------------|
| SYSTEM KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PIPE PENETRATION DETAIL | | |
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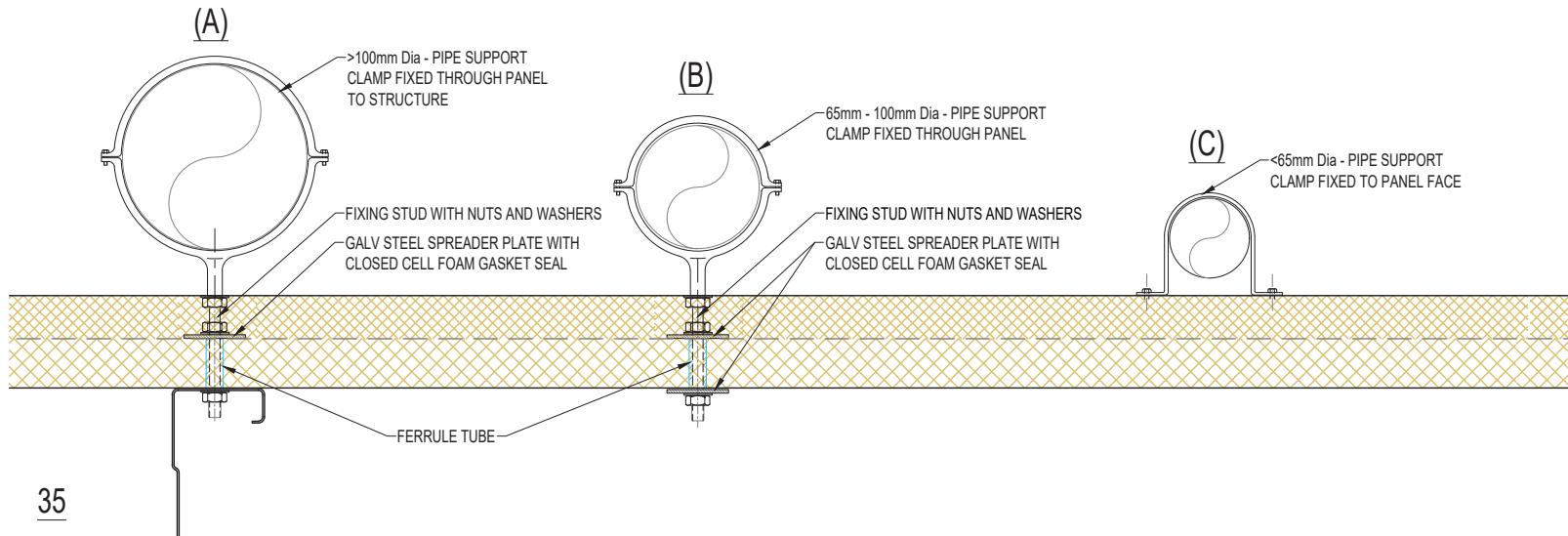
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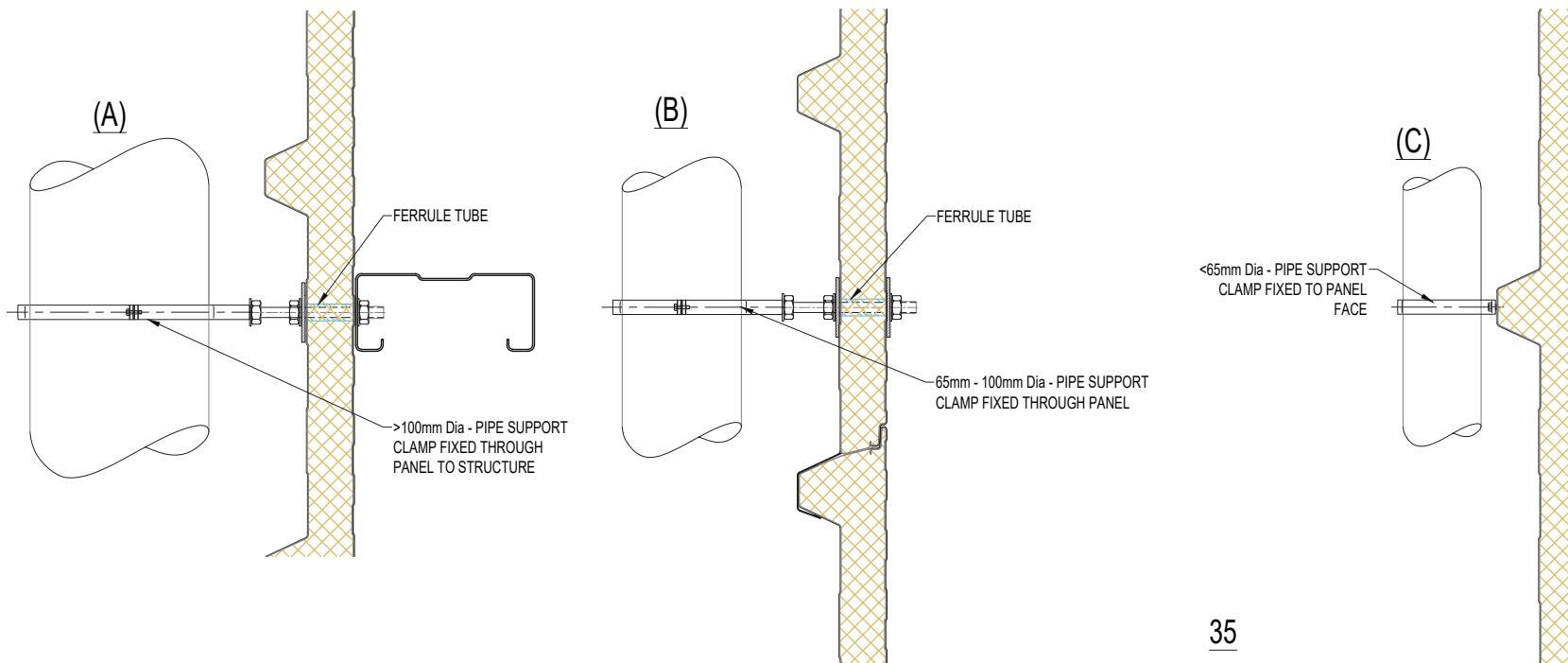
New Zealand: Kingspan Ltd
97 Montreal St, Christchurch, Tel: 03 260 5530, Freephone: 0800 121280
email: info@kingspanpanels.co.nz
www.kingspanpanels.co.nz

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 KS1000 RW_STD WALL_HORIZONTAL Q4_2023 | | |
| DESCRIPTION PIPE SUPPORT DETAIL HORIZONTAL SECTION | | |
| APPROVED BY JS | DATE 09.10.23 | REVISION - |
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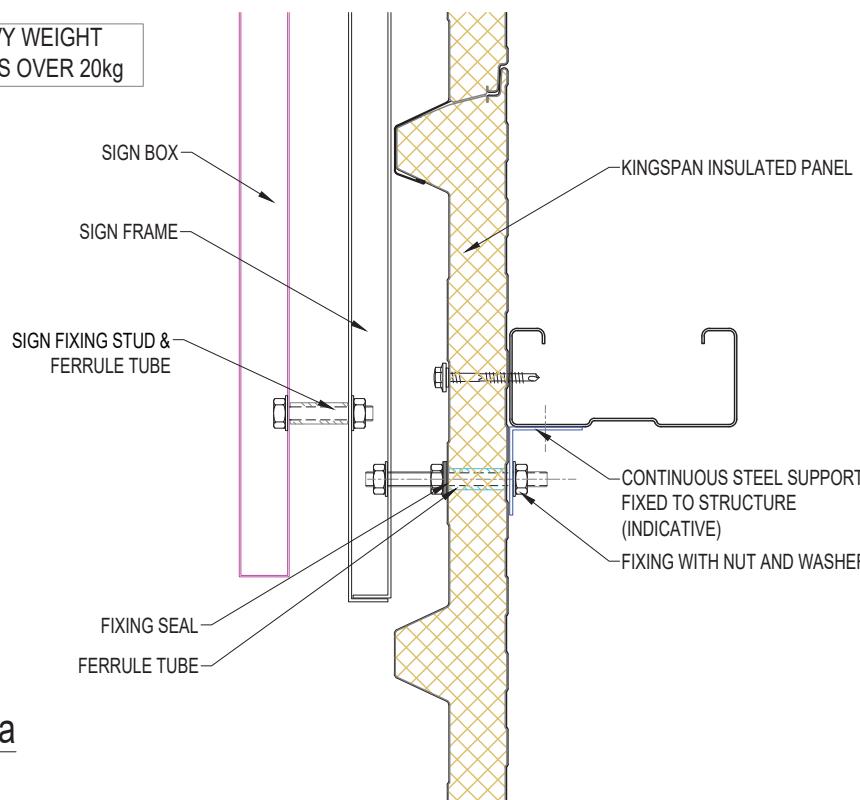
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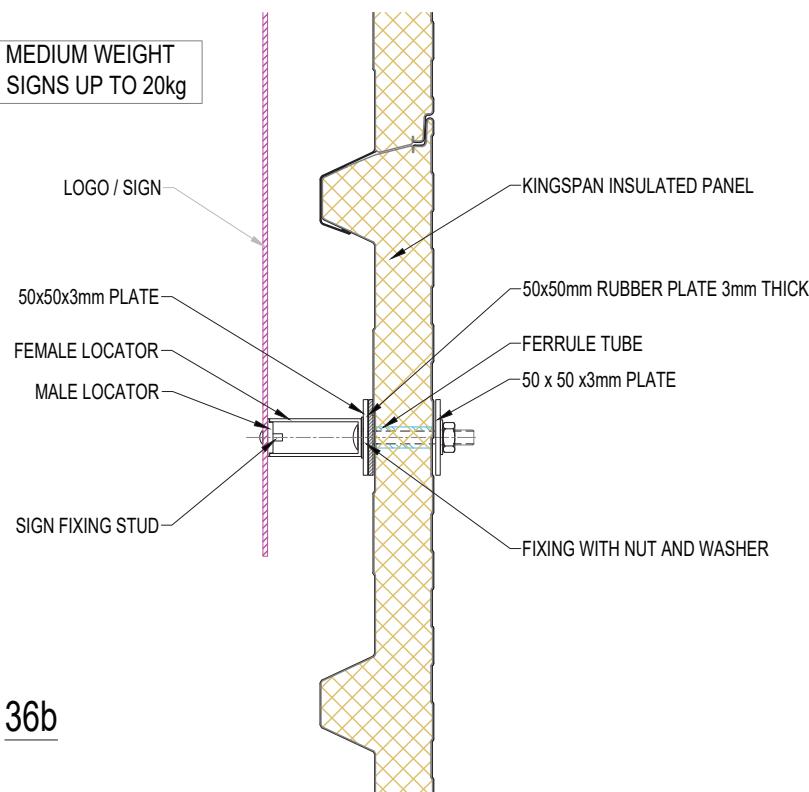
SIGNAGE SUPPORT DETAILS VERT. SECTION

**HEAVY WEIGHT
SIGNS OVER 20kg**



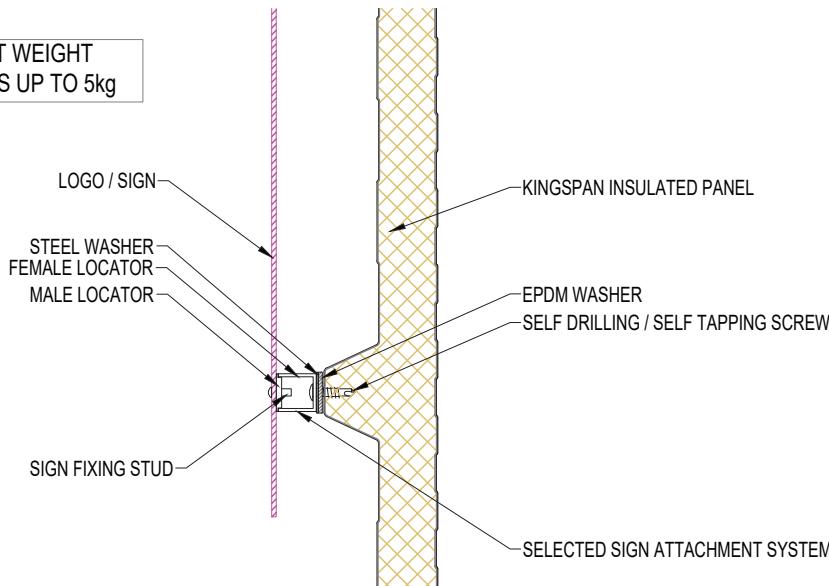
36a

**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
KS1000 RW_STD WALL_HORIZONTAL Q4_2023**

**DESCRIPTION
SIGNAGE SUPPORT DETAILS VERT. SECTION**

| APPROVED BY | DATE | REVISION |
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