

Total System Depth (mm)	Bracket / insulation Thickness (mm)	Thermal Performance (W/m ² K)	Acoustic Performance RW (db)	System Weight (Kg/m ²)
140	120	0.37	43	12.6
160	140	0.32	45	12.8
180	160	0.28	47	13.1
200	180	0.25	49	13.3
220	200	0.23	50	13.6

N14/3 SINUS EXTERNAL WALL PROFILE
GAUGE - 0.7mm
COATING - PROTEX APPROVED
END LAP - 150mm

PROTEX APPROVED - EXTERNAL MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS
INTERMEDIATE SUPPORTS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS

PROTEX APPROVED - EXTERNAL STITCHER FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
SIDE LAP TROUGH - 450mm CENTRES

PROTEX APPROVED - END LAP SEALANT
9mm * 3mm BUTYL TAPE / 4mm BEAD
LOCATION
1-NO. CONTINUOUS RUN. POSITIONED IN COMPRESSION ZONE AND 15mm FROM SHEET END

PROTEX APPROVED - SPACER SYSTEM
BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm
PATTERN
MAX CLADDING RAIL CENTRE'S 1800mm
VERTICAL BAR CENTRE'S TYPICALLY 1600mm
VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - GLASS FIBRE INSULATION
THICKNESS TO SUIT U-VALUE REQUIREMENT
MINIMUM THICKNESS - 120mm
FIRE CLASS A1 RATED TO EN 13501-1
MANUFACTURED IN ACCORDANCE WITH BS EN 13162
(SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

PROTEX APPROVED - BRACKET FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
AS PER LAYOUT CALCULATION

PROTEX APPROVED - LINER MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY TROUGH - 6 NO. FIXINGS
INTERMEDIATE SUPPORTS - ALTERNATE TROUGH - 4 NO. FIXINGS

PROTEX APPROVED - LINER SIDE LAP SEALANT
50mm * 1mm BUTYL TAPE
LOCATION
1-NO. CONTINUOUS RUN. POSITIONED CENTRAL OVER JOIN

N1000L+ INTERNAL LINER PROFILE
GAUGE - 0.4mm
COATING - BRIGHT WHITE LINER



- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION

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LPS 1181 Cert.LPCB ref. 1611a

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Drawing Name
Protex-WS04-1 End Lap Detail

Drawn by
KP

Checked by
TO

Date
24/09/2024

Project Title
PRX-WS-04

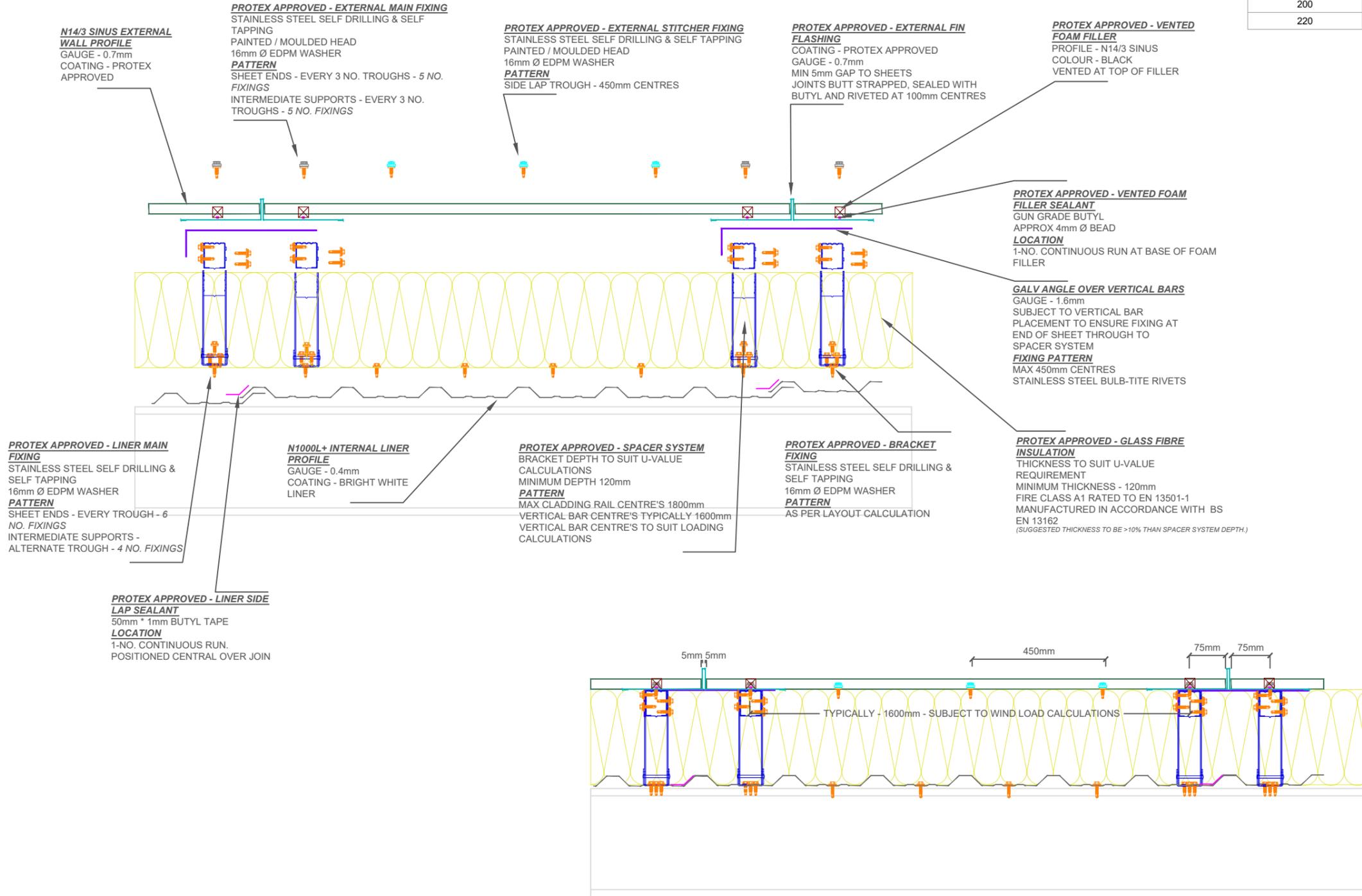
Size
A3

Revision
A

<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:

Total System Depth (mm)	Bracket / insulation Thickness (mm)	Thermal Performance (W/m ² K)	Acoustic Performance RW (db)	System Weight (Kg/m ²)
140	120	0.37	43	12.6
160	140	0.32	45	12.8
180	160	0.28	47	13.1
200	180	0.25	49	13.3
220	200	0.23	50	13.6



- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION

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ISO 9001 ISO 14001 ISO 45001 UKAS

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PROTEX

UKCA LPCB UKAS

LPS 1181 Cert/LPCB ref: 1611a

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Drawing Name
Protex-WS04-1.1 Fin Feature Detail

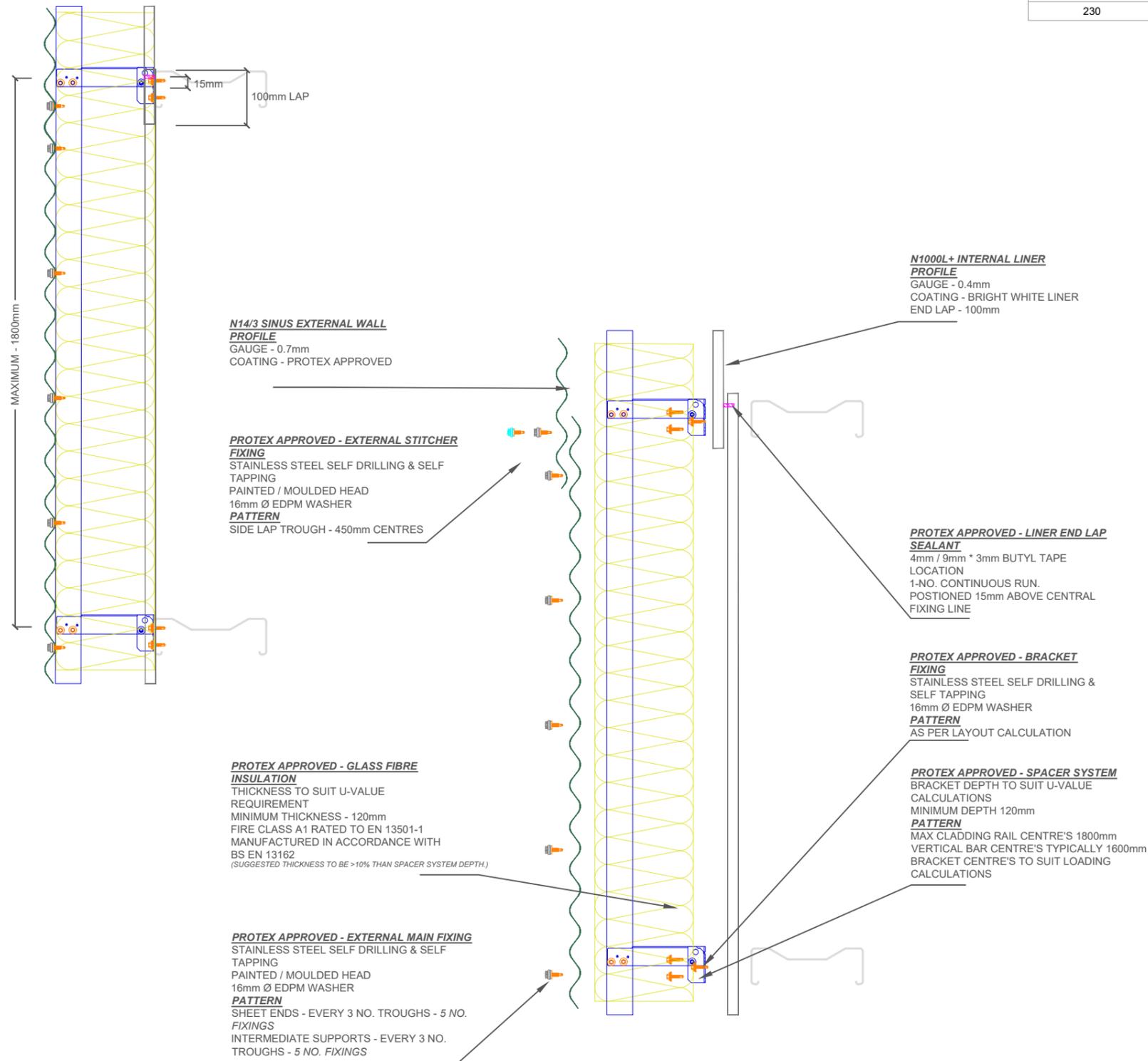
Drawn by: KP
Checked by: TO
Date: 24/09/2024

Project Title: PRX-WS-04
Size: A3
Revision: A

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Unique ID:

Total System Depth (mm)	Bracket / insulation Thickness (mm)	Thermal Performance (W/m ² K)	Acoustic Performance RW (db)	System Weight (Kg/m ²)
150	120	0.37	41	12.6
170	140	0.32	42	12.8
190	160	0.28	44	13.1
210	180	0.25	45	13.3
230	200	0.22	47	13.6



- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION
B	27/03/2026	N14/3 Sinus Profile Orientation Change



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Drawing Name
Protex-WS04-2 Side Lap Detail

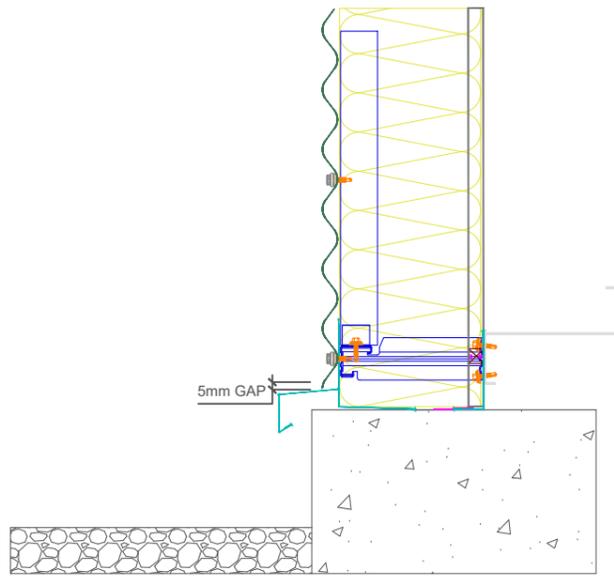
Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision B
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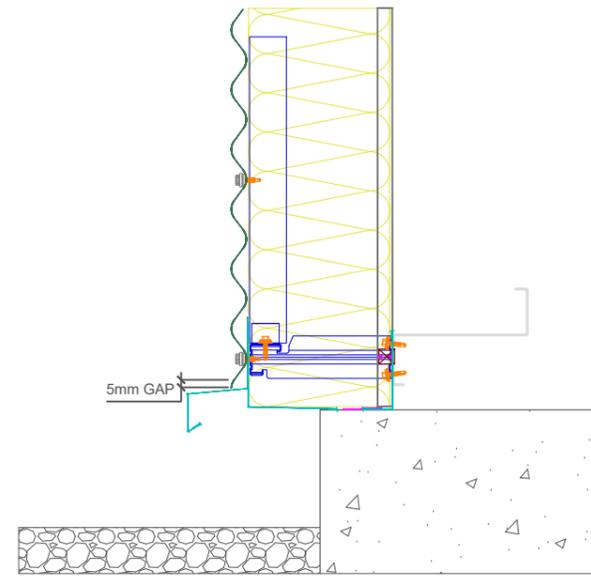
<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:

INLINE BASE DETAIL



OVERHANGING BASE DETAIL



PROTEX APPROVED - SPACER SYSTEM

BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm

PATTERN

MAX CLADDING RAIL CENTRE'S 1800mm
VERTICAL BAR CENTRE'S TYPICALLY 1600mm
BRACKET CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - SPACER SYSTEM (HORIZONTAL BASE BAR)

BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm

PATTERN

MAX CLADDING RAIL CENTRE'S 1800mm
MAX BRACKET CENTRE'S 1000mm
BRACKET CENTRE'S TO SUIT LOADING CALCULATIONS

HORIZONTAL BAR AT THE BASE DETAIL WITH AFT CONNECTIONS TO CONNECT TO THE VERTICAL BARS

BRACKET MUST BE PLACED WITHIN 100mm OF MALE END OF SPACER SYSTEM JOINT

PROTEX APPROVED - EXTERNAL DRIP FLASHING

COATING - PROTEX APPROVED
GAUGE - 0.7mm

JOINTS BUTT STRAPPED AND FULLY SEALED WITH BUTYL TAPE AND FRONT FACE RIVETED AT 100mm CENTRES

N14/3 SINUS EXTERNAL WALL PROFILE

GAUGE - 0.7mm
COATING - PROTEX APPROVED

N1000L+ INTERNAL LINER PROFILE

GAUGE - 0.4mm
COATING - BRIGHT WHITE LINER

PROTEX APPROVED - BRACKET FIXING

STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER

PATTERN AS PER LAYOUT CALCULATION

PROTEX APPROVED - INTERNAL CLOSURE FLASHING

COATING - BRIGHT WHITE LINER
GAUGE - 0.7mm

PROTEX APPROVED - FLASHING SEALANT

50mm * 1mm BUTYL TAPE
LOCATION 1-NO. CONTINUOUS RUN.

PROTEX APPROVED - GLASS FIBRE INSULATION

THICKNESS TO SUIT U-VALUE REQUIREMENT
MINIMUM THICKNESS - 120mm
FIRE CLASS A1 RATED TO EN 13501-1
MANUFACTURED IN ACCORDANCE WITH BS EN 13162
(SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

AFT CONNECTORS

USED TO SECURE VERTICAL BARS TO HORIZONTAL SPACER SYSTEM

PROTEX APPROVED - EXTERNAL DRIP FLASHING STITCHER FIXINGS

STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD

16mm Ø EDPM WASHER
PATTERN 450mm CENTRES

PROTEX APPROVED - FOAM FILLER SEALANT

GUN GRADE BUTYL
APPROX 4mm Ø BEAD
LOCATION CONTINUOUS RUNS TOP & BOTTOM OF FOAM FILLER

PROTEX APPROVED - FOAM FILLER

PROFILE - N1000L+
COLOUR - WHITE

INSTALLATION NOTES

- FLASHING JOINTS SEALED WITH BUTYL
- FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
- FLASHINGS FIXED AT 450mm CENTRES
- BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
- NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
- NO CARBON FIXINGS

REV	DATE	DESCRIPTION
B	27/03/2026	N14/3 Sinus Profile Orientation Change

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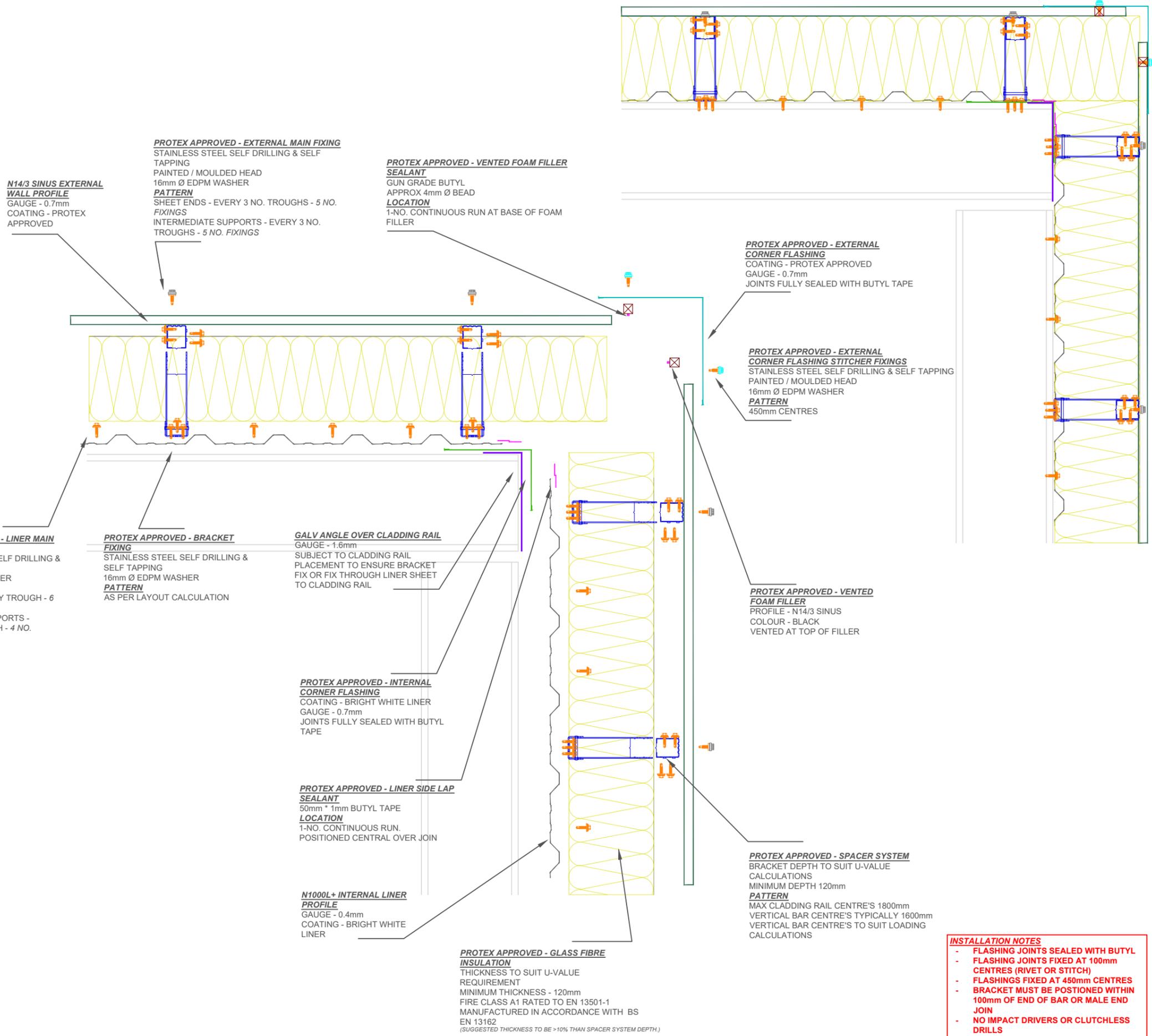
Drawing Name
Protex-WS04-3 Drip Detail

Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision B
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<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:



N14/3 SINUS EXTERNAL WALL PROFILE
GAUGE - 0.7mm
COATING - PROTEX APPROVED

PROTEX APPROVED - EXTERNAL MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS
INTERMEDIATE SUPPORTS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS

PROTEX APPROVED - VENTED FOAM FILLER SEALANT
GUN GRADE BUTYL
APPROX 4mm Ø BEAD
LOCATION
1-NO. CONTINUOUS RUN AT BASE OF FOAM FILLER

PROTEX APPROVED - EXTERNAL CORNER FLASHING
COATING - PROTEX APPROVED
GAUGE - 0.7mm
JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - EXTERNAL CORNER FLASHING STITCHER FIXINGS
STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
450mm CENTRES

PROTEX APPROVED - VENTED FOAM FILLER
PROFILE - N14/3 SINUS
COLOUR - BLACK
VENTED AT TOP OF FILLER

PROTEX APPROVED - LINER MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY TROUGH - 6 NO. FIXINGS
INTERMEDIATE SUPPORTS - ALTERNATE TROUGH - 4 NO. FIXINGS

PROTEX APPROVED - BRACKET FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
AS PER LAYOUT CALCULATION

GALV ANGLE OVER CLADDING RAIL
GAUGE - 1.6mm
SUBJECT TO CLADDING RAIL PLACEMENT TO ENSURE BRACKET FIX OR FIX THROUGH LINER SHEET TO CLADDING RAIL

PROTEX APPROVED - INTERNAL CORNER FLASHING
COATING - BRIGHT WHITE LINER
GAUGE - 0.7mm
JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - LINER SIDE LAP SEALANT
50mm * 1mm BUTYL TAPE
LOCATION
1-NO. CONTINUOUS RUN. POSITIONED CENTRAL OVER JOIN

N1000L+ INTERNAL LINER PROFILE
GAUGE - 0.4mm
COATING - BRIGHT WHITE LINER

PROTEX APPROVED - GLASS FIBRE INSULATION
THICKNESS TO SUIT U-VALUE REQUIREMENT
MINIMUM THICKNESS - 120mm
FIRE CLASS A1 RATED TO EN 13501-1
MANUFACTURED IN ACCORDANCE WITH BS EN 13162
(SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

PROTEX APPROVED - SPACER SYSTEM
BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm
PATTERN
MAX CLADDING RAIL CENTRE'S 1800mm
VERTICAL BAR CENTRE'S TYPICALLY 1600mm
VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

MAX 300mm

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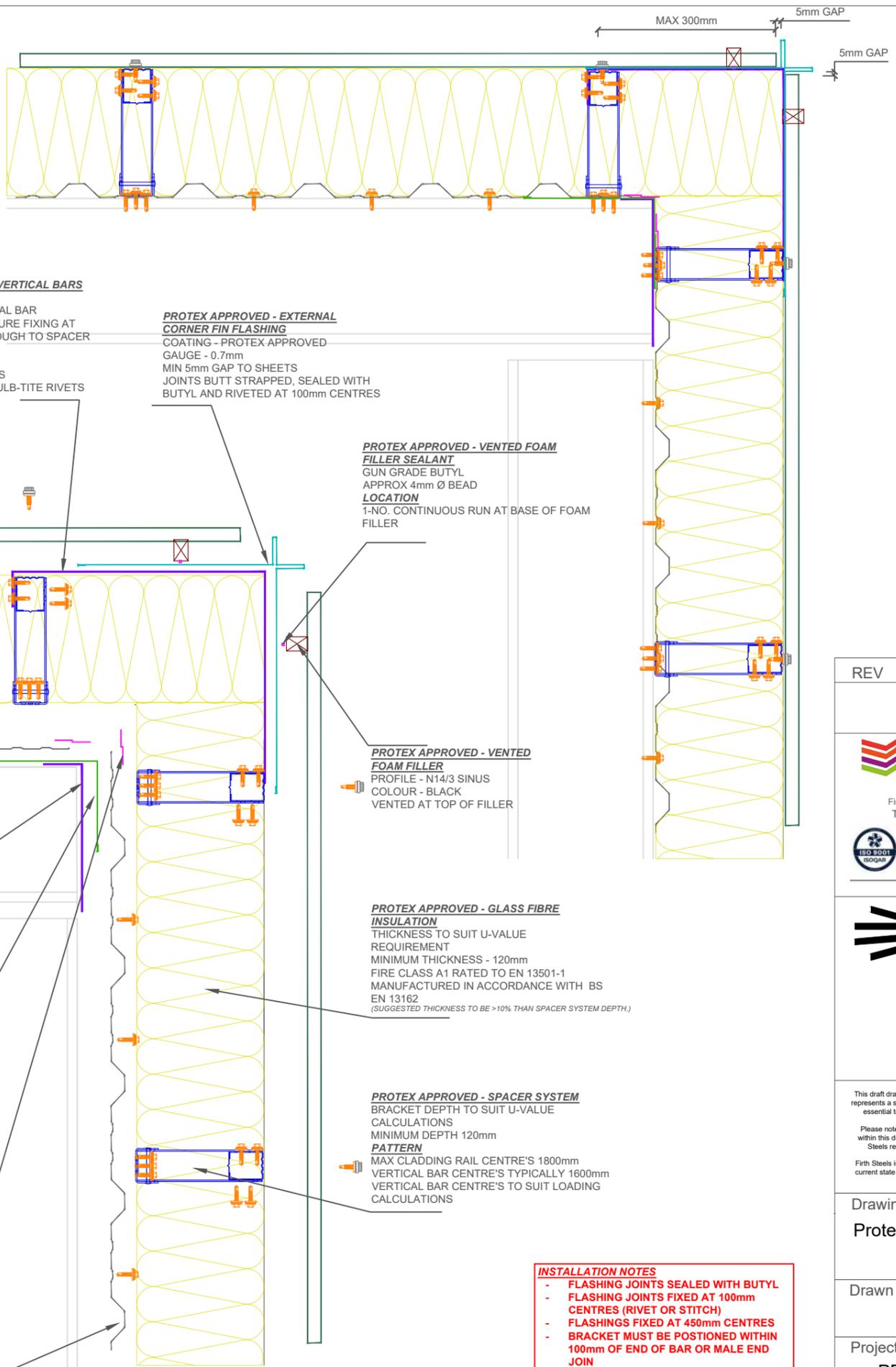
Drawing Name
Protex-WS04-4 Standard External Corner

Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision A
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<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:



N14/3 SINUS EXTERNAL WALL PROFILE
GAUGE - 0.7mm
COATING - PROTEX APPROVED

PROTEX APPROVED - EXTERNAL MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS
INTERMEDIATE SUPPORTS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS

GALV ANGLE OVER VERTICAL BARS
GAUGE - 1.6mm
SUBJECT TO VERTICAL BAR PLACEMENT TO ENSURE FIXING AT END OF SHEET THROUGH TO SPACER SYSTEM
FIXING PATTERN
MAX 450mm CENTRES
STAINLESS STEEL BULB-TITE RIVETS

PROTEX APPROVED - EXTERNAL CORNER FIN FLASHING
COATING - PROTEX APPROVED
GAUGE - 0.7mm
MIN 5mm GAP TO SHEETS
JOINTS BUTT STRAPPED, SEALED WITH BUTYL AND RIVETED AT 100mm CENTRES

PROTEX APPROVED - VENTED FOAM FILLER SEALANT
GUN GRADE BUTYL
APPROX 4mm Ø BEAD
LOCATION
1-NO. CONTINUOUS RUN AT BASE OF FOAM FILLER

PROTEX APPROVED - VENTED FOAM FILLER
PROFILE - N14/3 SINUS
COLOUR - BLACK
VENTED AT TOP OF FILLER

PROTEX APPROVED - GLASS FIBRE INSULATION
THICKNESS TO SUIT U-VALUE REQUIREMENT
MINIMUM THICKNESS - 120mm
FIRE CLASS A1 RATED TO EN 13501-1
MANUFACTURED IN ACCORDANCE WITH BS EN 13162
(SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH)

PROTEX APPROVED - SPACER SYSTEM
BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm
PATTERN
MAX CLADDING RAIL CENTRE'S 1800mm
VERTICAL BAR CENTRE'S TYPICALLY 1600mm
VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - LINER MAIN FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
SHEET ENDS - EVERY TROUGH - 6 NO. FIXINGS
INTERMEDIATE SUPPORTS - ALTERNATE TROUGH - 4 NO. FIXINGS

PROTEX APPROVED - BRACKET FIXING
STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
AS PER LAYOUT CALCULATION

GALV ANGLE OVER CLADDING RAIL
GAUGE - 1.6mm
SUBJECT TO CLADDING RAIL PLACEMENT TO ENSURE BRACKET FIX OR FIX THROUGH LINER SHEET TO CLADDING RAIL

PROTEX APPROVED - INTERNAL CORNER FLASHING
COATING - BRIGHT WHITE LINER
GAUGE - 0.7mm
JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - LINER SIDE LAP SEALANT
50mm * 1mm BUTYL TAPE
LOCATION
1-NO. CONTINUOUS RUN.
POSITIONED CENTRAL OVER JOIN

N1000L+ INTERNAL LINER PROFILE
GAUGE - 0.4mm
COATING - BRIGHT WHITE LINER

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

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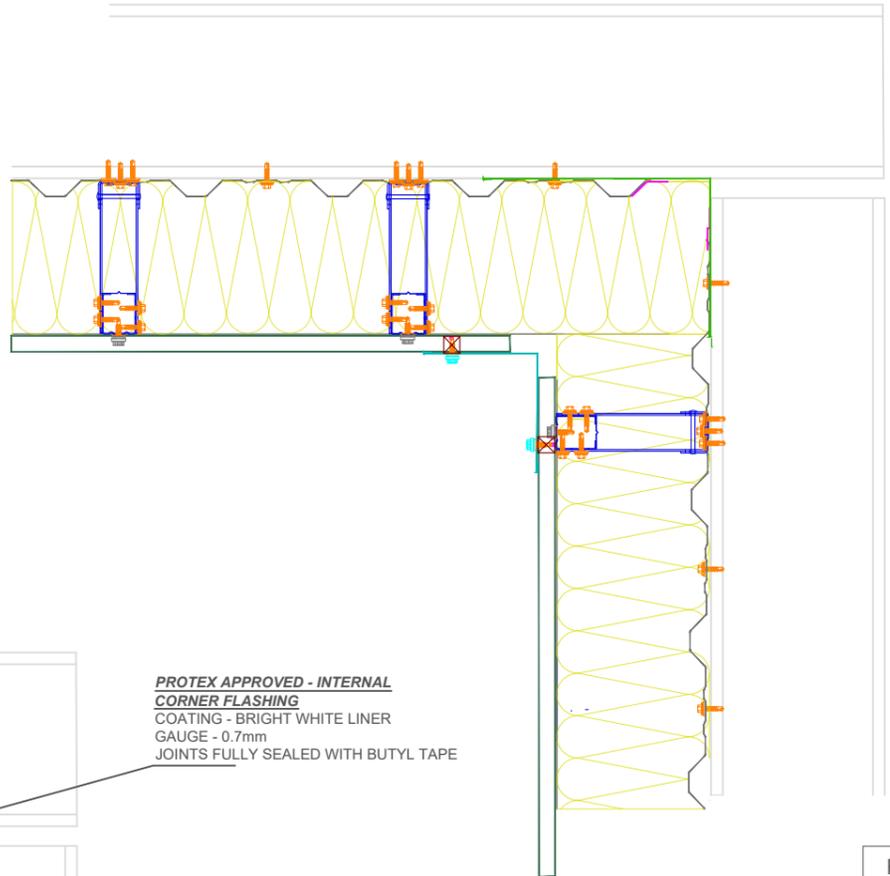
Drawing Name
Protex-WS04-4.1 External Corner Fin Flashing

Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision A
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<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:



PROTEX APPROVED - BRACKET FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 16mm Ø EDPM WASHER
PATTERN
 AS PER LAYOUT CALCULATION

PROTEX APPROVED - LINER MAIN FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 16mm Ø EDPM WASHER
PATTERN
 SHEET ENDS - EVERY TROUGH - 6 NO. FIXINGS
 INTERMEDIATE SUPPORTS - ALTERNATE TROUGH - 4 NO. FIXINGS

PROTEX APPROVED - INTERNAL CORNER FLASHING
 COATING - BRIGHT WHITE LINER
 GAUGE - 0.7mm
 JOINTS FULLY SEALED WITH BUTYL TAPE

N1000L+ INTERNAL LINER PROFILE
 GAUGE - 0.4mm
 COATING - BRIGHT WHITE LINER

N14/3 SINUS EXTERNAL WALL PROFILE
 GAUGE - 0.7mm
 COATING - PROTEX APPROVED

PROTEX APPROVED - LINER SIDE LAP SEALANT
 50mm * 1mm BUTYL TAPE
LOCATION
 1-NO. CONTINUOUS RUN. POSITIONED CENTRAL OVER JOIN

PROTEX APPROVED - EXTERNAL MAIN FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS
 INTERMEDIATE SUPPORTS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS

PROTEX APPROVED - EXTERNAL CORNER FLASHING
 COATING - PROTEX APPROVED
 GAUGE - 0.7mm
 JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - SPACER SYSTEM
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 VERTICAL BAR CENTRE'S TYPICALLY 1600mm
 VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - EXTERNAL CORNER FLASHING STITCHER FIXINGS
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 450mm CENTRES

PROTEX APPROVED - GLASS FIBRE INSULATION
 THICKNESS TO SUIT U-VALUE REQUIREMENT
 MINIMUM THICKNESS - 120mm
 FIRE CLASS A1 RATED TO EN 13501-1
 MANUFACTURED IN ACCORDANCE WITH BS EN 13162
 (SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

PROTEX APPROVED - VENTED FOAM FILLER SEALANT
 GUN GRADE BUTYL
 APPROX 4mm Ø BEAD
LOCATION
 1-NO. CONTINUOUS RUN AT BASE OF FOAM FILLER

PROTEX APPROVED - VENTED FOAM FILLER
 PROFILE - N14/3 SINUS
 COLOUR - BLACK
 VENTED AT TOP OF FILLER

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION

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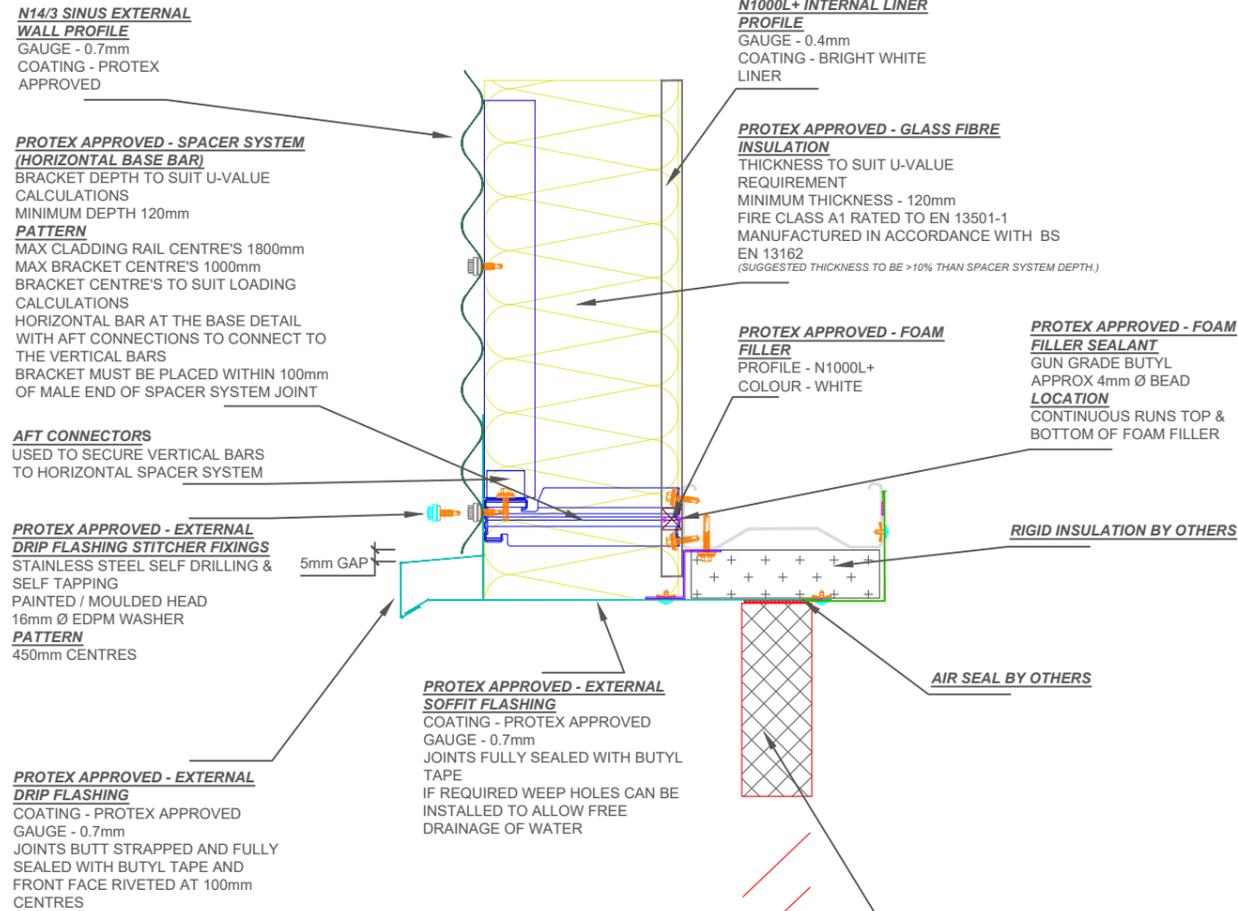
PROTEX

LPS 1181 Cert/LPCB ref: 1611a

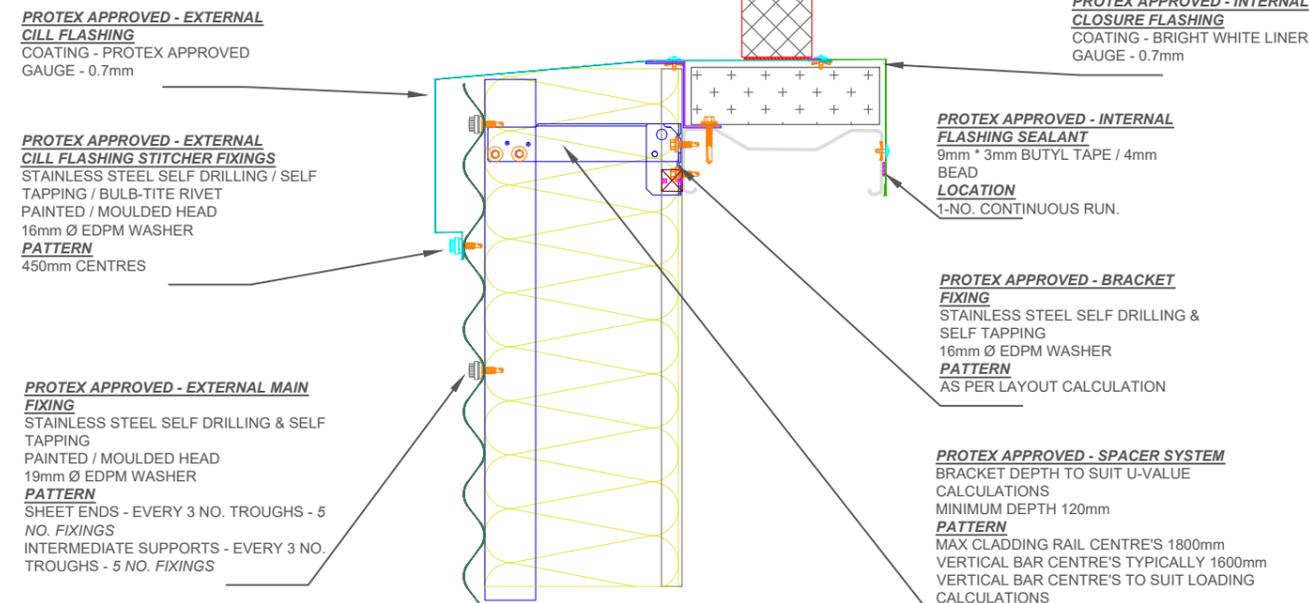
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Drawing Name Protex-WS04-5 Internal Corner			
Drawn by KP	Checked by TO	Date 24/09/2024	
Project Title PRX-WS-04		Size A3	Revision A
<<< DO NOT SCALE FROM THIS DRAWING >>>			
Unique ID:			

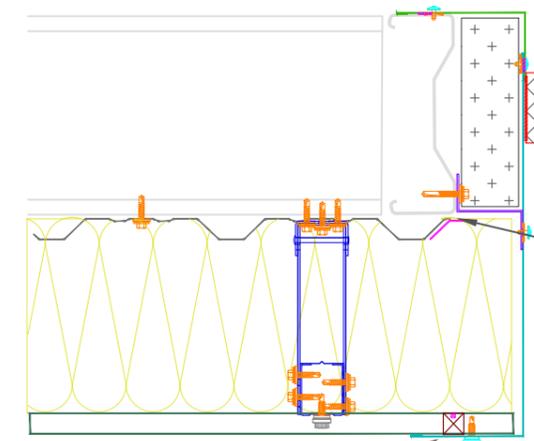
DOOR / WINDOW HEADER DETAIL



WINDOW CILL DETAIL



DOOR / WINDOW JAMB DETAIL



PROTEX APPROVED - INTERNAL FLASHING STITCHER FIXINGS
STAINLESS STEEL SELF DRILLING / SELF TAPPING / BULB-TITE RIVET
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
450mm CENTRES

PROTEX APPROVED - LINER SIDE LAP SEALANT
50mm * 1mm BUTYL TAPE
LOCATION
1-NO. CONTINUOUS RUN.
POSITIONED CENTRAL OVER JOIN

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOINT
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION
B	27/03/2026	N14/3 Sinus Profile Orientation Change

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PROTEX

UK CA

LPCB UKAS

LPS 1181 Cert.LPCB ref. 1811a

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Drawing Name
Protex-WS04-6 Window / Personnel Door

Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision B
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<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:

SHUTTER DOOR HEADER DETAIL

**PROTEX APPROVED - SPACER SYSTEM
(HORIZONTAL BASE BAR)**

BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm
PATTERN
MAX CLADDING RAIL CENTRE'S 1800mm
MAX BRACKET CENTRE'S 1000mm
BRACKET CENTRE'S TO SUIT LOADING CALCULATIONS
HORIZONTAL BAR AT THE BASE DETAIL WITH AFT CONNECTIONS TO CONNECT TO THE VERTICAL BARS
BRACKET MUST BE PLACED WITHIN 100mm OF MALE END OF SPACER SYSTEM JOINT

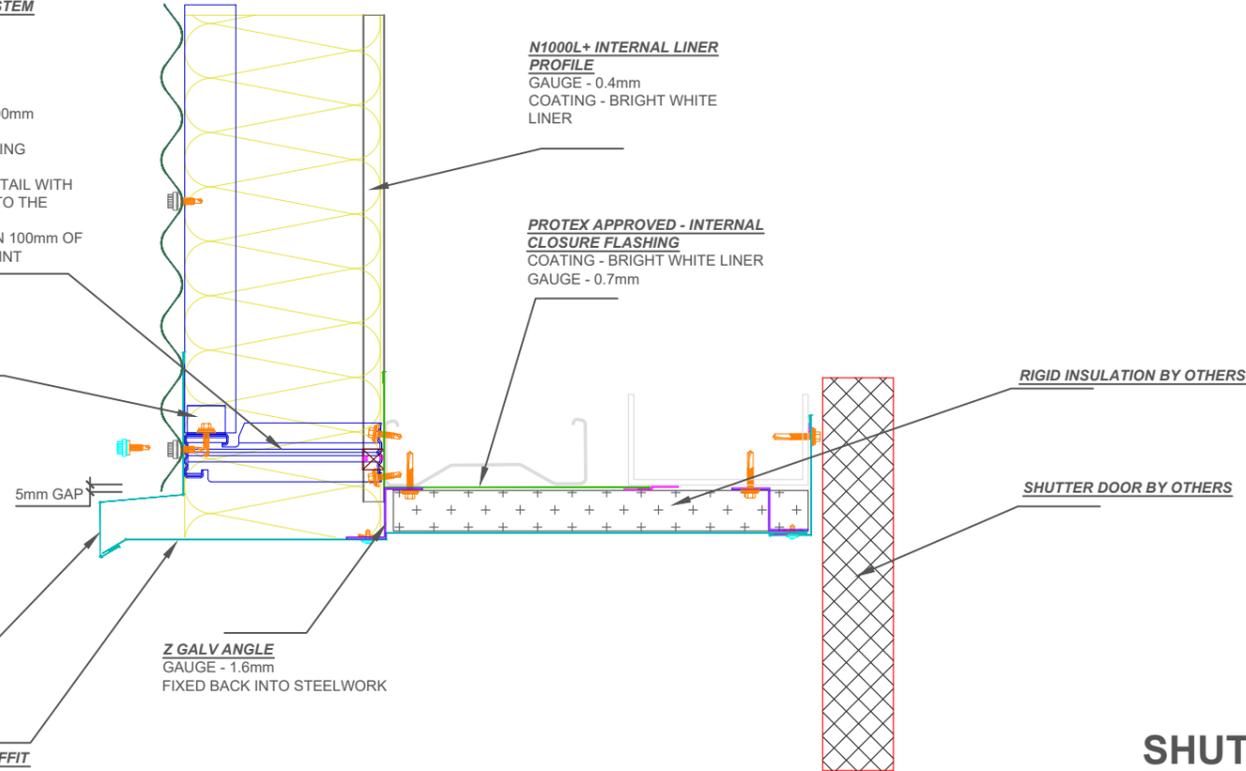
AFT CONNECTORS
USED TO SECURE VERTICAL BARS TO HORIZONTAL SPACER SYSTEM

PROTEX APPROVED - EXTERNAL DRIP FLASHING

COATING - PROTEX APPROVED
GAUGE - 0.7mm
JOINTS BUTT STRAPPED AND FULLY SEALED WITH BUTYL TAPE AND FRONT FACE RIVETED AT 100mm CENTRES

PROTEX APPROVED - EXTERNAL SOFFIT FLASHING

COATING - PROTEX APPROVED
GAUGE - 0.7mm
JOINTS FULLY SEALED WITH BUTYL TAPE
IF REQUIRED WEEP HOLES CAN BE INSTALLED TO ALLOW FREE DRAINAGE OF WATER



SHUTTER DOOR JAMB DETAIL

PROTEX APPROVED - SPACER SYSTEM

BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
MINIMUM DEPTH 120mm
PATTERN
MAX CLADDING RAIL CENTRE'S 1800mm
VERTICAL BAR CENTRE'S TYPICALLY 1600mm
VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - BRACKET FIXING

STAINLESS STEEL SELF DRILLING & SELF TAPPING
16mm Ø EDPM WASHER
PATTERN
AS PER LAYOUT CALCULATION

PROTEX APPROVED - LINER SIDE LAP SEALANT

50mm * 1mm BUTYL TAPE
LOCATION
1-NO. CONTINUOUS RUN, POSITIONED CENTRAL OVER JOINT

PROTEX APPROVED - GLASS FIBRE INSULATION

THICKNESS TO SUIT U-VALUE REQUIREMENT
MINIMUM THICKNESS - 120mm
FIRE CLASS A1 RATED TO EN 13501-1
MANUFACTURED IN ACCORDANCE WITH BS EN 13162
(SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

N14/3 SINUS EXTERNAL WALL PROFILE

GAUGE - 0.7mm
COATING - PROTEX APPROVED

PROTEX APPROVED - EXTERNAL JAMB FLASHING STITCHER FIXINGS

STAINLESS STEEL SELF DRILLING / SELF TAPPING / BULB-TITE RIVET
PAINTED / MOULDED HEAD
16mm Ø EDPM WASHER
PATTERN
450mm CENTRES

PROTEX APPROVED - EXTERNAL JAMB FLASHING

COATING - PROTEX APPROVED
GAUGE - 0.7mm

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOINT
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION
B	27/03/2026	N14/3 Sinus Profile Orientation Change

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LPS 1181 Cert/LPCB ref: 1611a

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Drawing Name
Protex-WS04-7 Shutter Door Detail

Drawn by KP	Checked by TO	Date 24/09/2024
Project Title PRX-WS-04	Size A3	Revision B

<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:

LOUVRE HEADER & CILL DETAIL

PROTEX APPROVED - SPACER SYSTEM (HORIZONTAL BASE BAR)
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 MAX BRACKET CENTRE'S 1000mm
 BRACKET CENTRE'S TO SUIT LOADING CALCULATIONS
 HORIZONTAL BAR AT THE BASE DETAIL WITH AFT CONNECTIONS TO CONNECT TO THE VERTICAL BARS
 BRACKET MUST BE PLACED WITHIN 100mm OF MALE END OF SPACER SYSTEM JOINT

PROTEX APPROVED - EXTERNAL DRIP FLASHING
 COATING - PROTEX APPROVED
 GAUGE - 0.7mm
 JOINTS BUTT STRAPPED AND FULLY SEALED WITH BUTYL TAPE AND FRONT FACE RIVETED AT 100mm CENTRES

PROTEX APPROVED - SPACER SYSTEM
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 VERTICAL BAR CENTRE'S TYPICALLY 1600mm
 VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - EXTERNAL FLASHING STITCHER FIXINGS
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 450mm CENTRES

N14/3 SINUS EXTERNAL WALL PROFILE
 GAUGE - 0.7mm
 COATING - PROTEX APPROVED

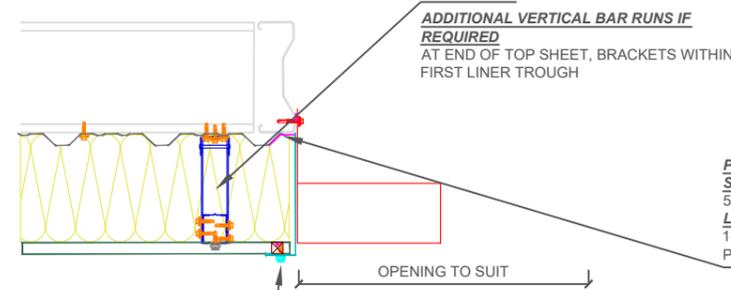
N1000L+ INTERNAL LINER PROFILE
 GAUGE - 0.4mm
 COATING - BRIGHT WHITE LINER

AFT CONNECTORS
 USED TO SECURE VERTICAL BARS TO HORIZONTAL SPACER SYSTEM

LOUVRE BY OTHERS
 FIXED BACK INTO STEELWORK AND SEALED TRIMMING STEEL IF REQUIRED

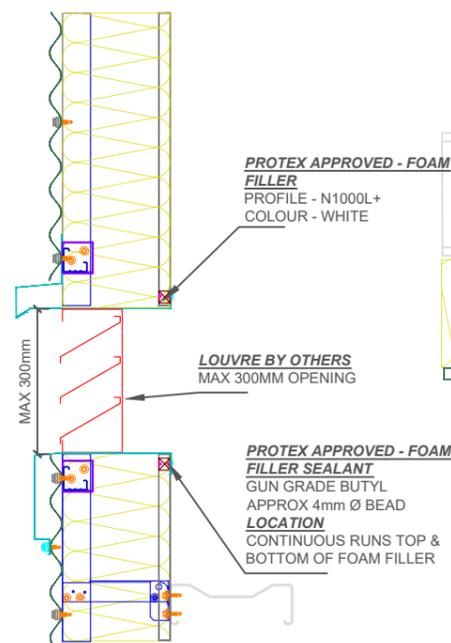
PROTEX APPROVED - GLASS FIBRE INSULATION
 THICKNESS TO SUIT U-VALUE REQUIREMENT
 MINIMUM THICKNESS - 120mm
 FIRE CLASS A1 RATED TO EN 13501-1
 MANUFACTURED IN ACCORDANCE WITH BS EN 13162
 (SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

LOUVRE JAMB DETAIL



PROTEX APPROVED - LINER SIDE LAP SEALANT
 50mm * 1mm BUTYL TAPE
LOCATION
 1-NO. CONTINUOUS RUN. POSITIONED CENTRAL OVER JOINT

LOUVRE HEADER & CILL DETAIL OPENINGS <300mm



LOUVRE JAMB DETAIL OPENINGS <300MM



PROTEX APPROVED - INTERNAL FLASHING STITCHER FIXINGS
 STAINLESS STEEL SELF DRILLING / SELF TAPPING / BULB-TITE RIVET
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 450mm CENTRES

PROTEX APPROVED - SPACER SYSTEM
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 VERTICAL BAR CENTRE'S TYPICALLY 1600mm
 VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

ADDITIONAL VERTICAL BAR RUNS IF REQUIRED
 AT END OF TOP SHEET, BRACKETS WITHIN FIRST LINER TROUGH

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOINT
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION
B	27/03/2026	N14/3 Sinus Profile Orientation Change

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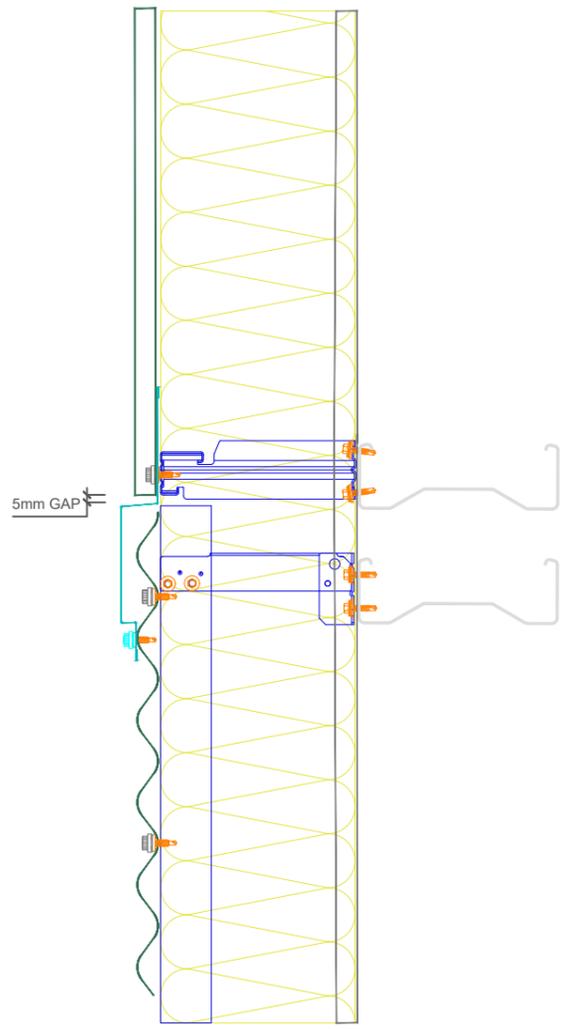
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Drawing Name
Protex-WS04-8 Louvre

Drawn by KP	Checked by TO	Date 24/09/2024
Project Title PRX-WS-04	Size A3	Revision B

<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:



PRX-WS-03 WALL SYSTEM

PROTEX APPROVED - SPACER SYSTEM
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 VERTICAL BAR CENTRE'S TYPICALLY 1600mm
 VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - BRACKET FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 16mm Ø EDPM WASHER
PATTERN
 AS PER LAYOUT CALCULATION

PROTEX APPROVED - EXTERNAL FLASHING
 COATING - PROTEX APPROVED
 GAUGE - 0.7mm
 JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - EXTERNAL FLASHING STITCHER FIXINGS
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 450mm CENTRES

PROTEX APPROVED - EXTERNAL MAIN FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 19mm Ø EDPM WASHER
PATTERN
 SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO.
FIXINGS
 INTERMEDIATE SUPPORTS - EVERY 3 NO.
 TROUGHS - 5 NO. **FIXINGS**

N14/3 SINUS EXTERNAL WALL PROFILE
 GAUGE - 0.7mm
 COATING - PROTEX APPROVED

N1000L+ INTERNAL LINER PROFILE
 GAUGE - 0.4mm
 COATING - BRIGHT WHITE LINER

PROTEX APPROVED - GLASS FIBRE INSULATION
 THICKNESS TO SUIT U-VALUE REQUIREMENT
 MINIMUM THICKNESS - 120mm
 FIRE CLASS A1 RATED TO EN 13501-1
 MANUFACTURED IN ACCORDANCE WITH BS EN 13162
 (SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION

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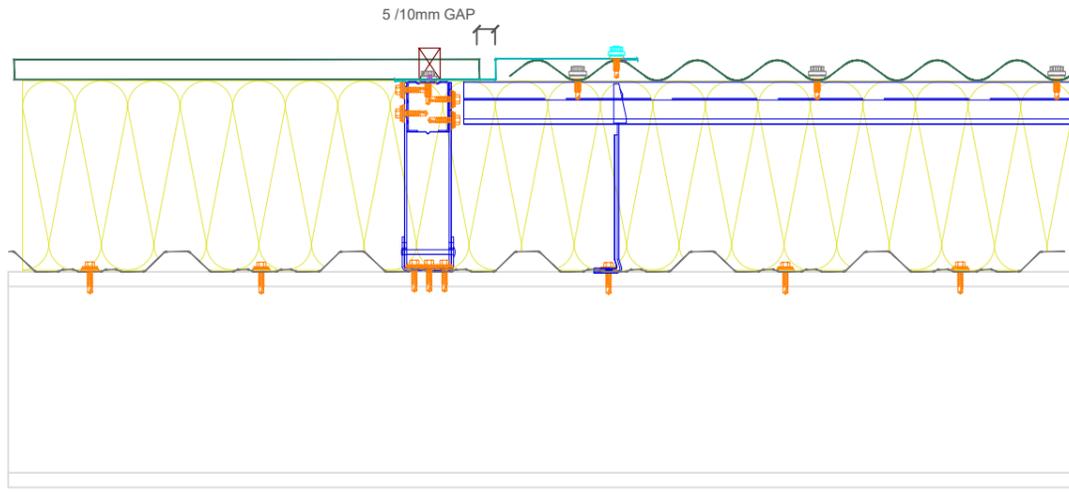
Drawing Name
Protex-WS04-9 Horizontal to Vertical Above

Drawn by **KP** Checked by **TO** Date **24/09/2024**

Project Title **PRX-WS-02** Size **A3** Revision **A**

<<< DO NOT SCALE FROM THIS DRAWING >>>

Unique ID:



PROTEX APPROVED - VENTED FOAM FILLER SEALANT
 GUN GRADE BUTYL
 APPROX 4mm Ø BEAD
LOCATION
 1-NO. CONTINUOUS RUN AT BASE OF FOAM FILLER

PROTEX APPROVED - VENTED FOAM FILLER
 PROFILE - N14/3 SINUS
 COLOUR - BLACK
 VENTED AT TOP OF FILLER

PROTEX APPROVED - EXTERNAL FLASHING
 COATING - PROTEX APPROVED
 GAUGE - 0.7mm
 JOINTS FULLY SEALED WITH BUTYL TAPE

PROTEX APPROVED - EXTERNAL FLASHING STITCHER FIXINGS
 STAINLESS STEEL SELF DRILLING / SELF TAPPING
 PAINTED / MOULDED HEAD
 16mm Ø EDPM WASHER
PATTERN
 450mm CENTRES

PROTEX APPROVED - FLASHING SEALANT
 9mm * 3mm BUTYL TAPE / 4mm BEAD
LOCATION
 1-NO. CONTINUOUS RUN POSITIONED WEATHER SIDE OF FIXING

PROTEX APPROVED - EXTERNAL MAIN FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 PAINTED / MOULDED HEAD
 19mm Ø EDPM WASHER
PATTERN
 SHEET ENDS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS
 INTERMEDIATE SUPPORTS - EVERY 3 NO. TROUGHS - 5 NO. FIXINGS

N14/3 SINUS EXTERNAL WALL PROFILE
 GAUGE - 0.7mm
 COATING - PROTEX APPROVED

PROTEX APPROVED - GLASS FIBRE INSULATION
 THICKNESS TO SUIT U-VALUE REQUIREMENT
 MINIMUM THICKNESS - 120mm
 FIRE CLASS A1 RATED TO EN 13501-1
 MANUFACTURED IN ACCORDANCE WITH BS EN 13162
 (SUGGESTED THICKNESS TO BE >10% THAN SPACER SYSTEM DEPTH.)

N1000L+ INTERNAL LINER PROFILE
 GAUGE - 0.4mm
 COATING - BRIGHT WHITE LINER

PROTEX APPROVED - SPACER SYSTEM
 BRACKET DEPTH TO SUIT U-VALUE CALCULATIONS
 MINIMUM DEPTH 120mm
PATTERN
 MAX CLADDING RAIL CENTRE'S 1800mm
 VERTICAL BAR CENTRE'S TYPICALLY 1600mm
 VERTICAL BAR CENTRE'S TO SUIT LOADING CALCULATIONS

PROTEX APPROVED - BRACKET FIXING
 STAINLESS STEEL SELF DRILLING & SELF TAPPING
 16mm Ø EDPM WASHER
PATTERN
 AS PER LAYOUT CALCULATION

PRX-WS-03 WALL SYSTEM

- INSTALLATION NOTES**
- FLASHING JOINTS SEALED WITH BUTYL
 - FLASHING JOINTS FIXED AT 100mm CENTRES (RIVET OR STITCH)
 - FLASHINGS FIXED AT 450mm CENTRES
 - BRACKET MUST BE POSITIONED WITHIN 100mm OF END OF BAR OR MALE END JOIN
 - NO IMPACT DRIVERS OR CLUTCHLESS DRILLS
 - NO CARBON FIXINGS

REV	DATE	DESCRIPTION

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PROTEX

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Drawing Name
Protex-WS04-10 Horizontal to Vertical Adjacent

Drawn by KP	Checked by TO	Date 24/09/2024
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Project Title PRX-WS-04	Size A3	Revision A
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Unique ID: