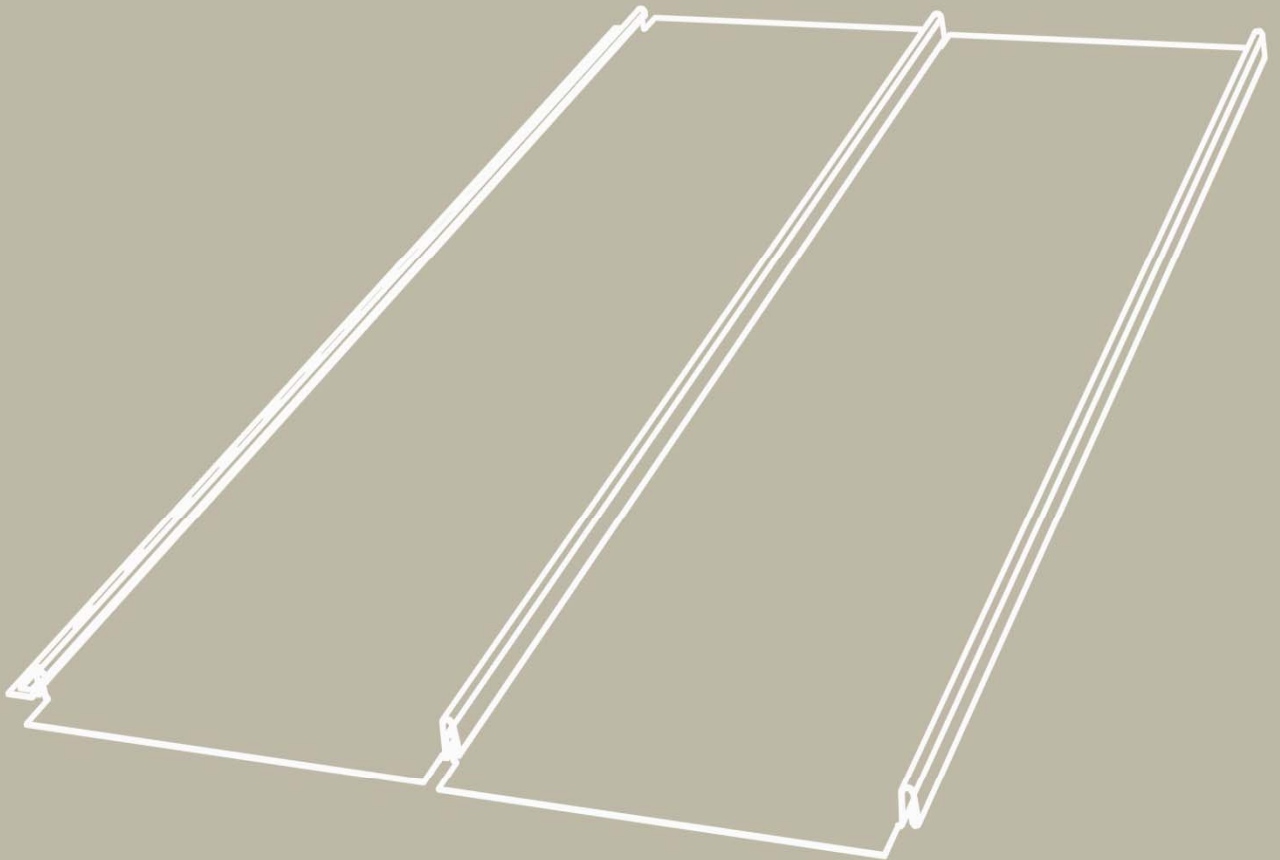




Colorcoat Urban®

Specification Guide

Tata Steel Colors



Introduction

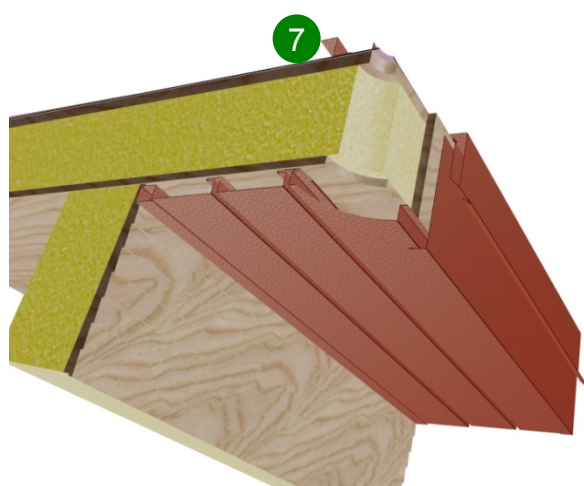
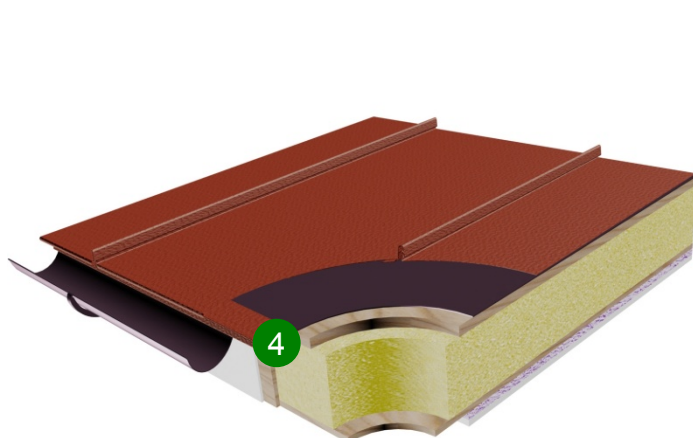
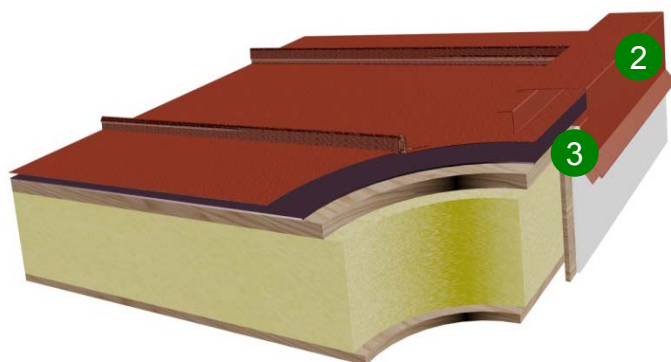
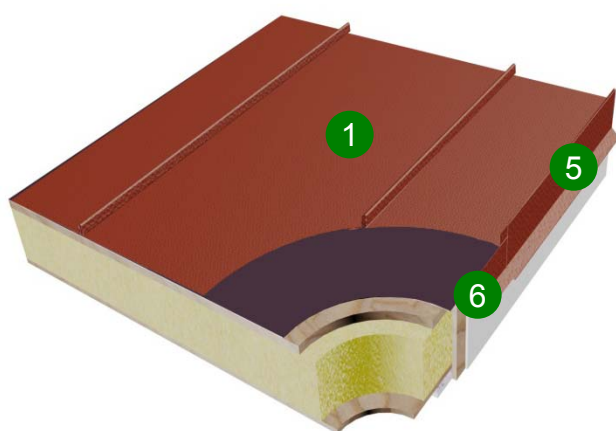
Tata Steel introduces a product that provides an innovative and sustainable solution for roofs and walls, specifically designed for the urban environment.

- Matt colour range specifically designed for the urban fabric.
- Stable colour ensures an aesthetic of consistent, even shade.
- Zero maintenance for up to 40 years.
- Can be laid to a minimum pitch of 5°.
- Eco-designed to remove environmentally harmful elements and deliver the lowest impact without reducing the performance.
- 100% recyclable and Carbon Neutral, via a government approved carbon measuring, reducing and offsetting scheme.
- Simple integration of renewable technologies, helping achieve forthcoming legislation.

The specification guide explains the standard range of details and components used to design a roof using the Colorcoat Urban® system.

Particular attention should be made of the panel widths for low pitch applications in high wind speed locations.

Product Selector





Product Selector

Product description	Reference code	Quantity	Detail No.
Urban Seam® profile			
514 mm width	CU051400	m²	1
305 mm width	CU030500	m²	
Ridge Profiles*			
Mono Ridge	CU002400	3m	2
Mono Ridge Backing Plate	CU002500	3m	3
Stepped Ridge	CU004500	3m	
Standard Duo Ridge	CU004600	3m	
Large Duo Ridge	CU004700	3m	
Mono Ridge End Caps			
Left Hand	CU012700	1	
Right Hand	CU022700	1	
Duo Pitch Ridge End Caps			
Stepped Ridge	CU014500	1	
Standard Duo Ridge	CU014600	1	
Large Duo Ridge	CU024700	1	
Eave Detail	CU003600	3m	4
Verge Detail			
Verge	CU002700	3m	5
Verge Backing Plate	CU002800	3m	6
Z bar	CU004000	3m	7
Notched Z bar	CU004105	3m	
Ventilated Z bar	CU004205	3m	

00 – last two figures denote colour code

* Contractor to specify roof pitch



Product Selector

Product description	Reference code	Quantity	Detail No.
Fixings			
3.5 x 38 mm ring pin nails	CU020100	1000	
M4 x 20 mm Pan Head	CU020200	1000	
Stainless Steel Screw			
Colour Matched Pot rivets, Aluminium / Stainless shaft 4.8 x 15 mm	CU020300	100	
Colour matched stainless steel low profile head 5.5 x 35 mm	CU020400	100	
Ancillary products			
Touch up paint with brush	CU030100	125ml	
Coloured Sealant Black	CU030201	300cc	
Coloured Sealant Grey	CU030202	300cc	
Filler Block 510 x 30 x 30 mm	CU030300	Pack of 10	

Colour choice

The naturally inspired colour range can blend with the urban landscape, ensuring the building harmoniously integrates with the local vernacular.



Winter Sky 01
RAL 7040



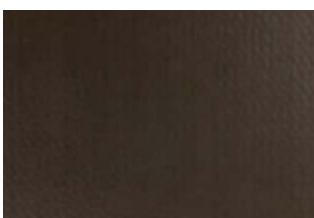
Alaska 02
RAL 7000



Merlin 03
BS 18B25



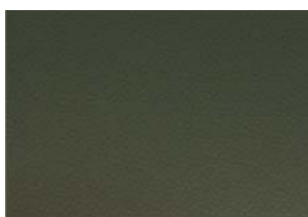
Anthracite 04
RAL 7016



Oxidised 07
RAL 8014 or 0502010



Terracotta 05
BS 04C39



Green Grey 06
RAL 6003 or 1504010



Patina 08
RAL 6027 or 1807025

Urban fabric

The Colorcoat Urban® colour range has been inspired by architects specifically for the urban environment.

As such they partner harmoniously with existing buildings and building envelope materials, including glass, wood, brick, stone and render.

Matt shades

The tonal colour range of the matt shades have been carefully selected. With the ability to achieve a stable colour ensures a consistency of even colour, which is unachievable from most other roofing materials.

Note:

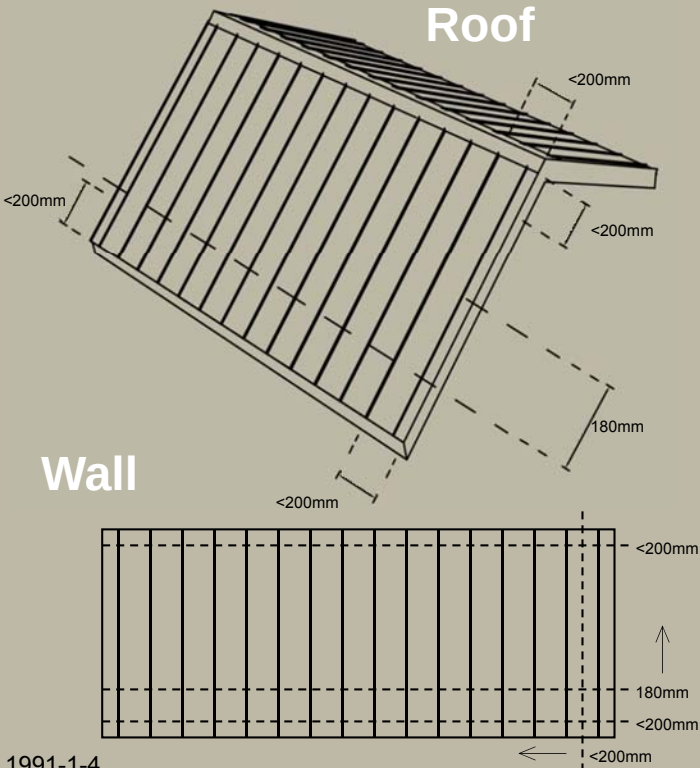
Hand sample requests are available online at www.colorcoaturban.com or via Colorcoat Connection® helpline on +44 (0) 1244 892434.



Wind Speed and Fixing Chart

Essential points

- For all buildings between 1 – 8 stores at a pitch 5° - 45°
- Please refer to the following specification



- In accordance with BS 6339-2 and BS5534 & BS EN 1991-1-4 Section 7.2.5
- Specification of the 514mm/305mm wide panel is dependant location, wall height, storey height and roof pitch.*A structural engineer should complete a wind uplift calculation for your specific area before making any final decision. Please note table below is for guidance only;

Roof Pitch (Degree) & Wall	No. Storeys	Wind Speed V _s	Panel Width 305mm	Panel Width 514mm
(5-9)	<3	≥ 25	✓	X
	4-8		✓	X
(5-9)	<3	<25	✓	✓
	4-8		✓	X
(≥10)	<3	≥ 25	✓	✓
	4-8		✓	X
(≥10)	<3	<25	✓	✓
	4-8		✓	✓

- When Building over 3 storey or in exposed locations the structural engineer should complete a wind uplift calculation and provide Tata Steel with details so the best fixing solutions can be developed.
- Please follow our recommendations for fixing the Urban Seam® profile as described.
- Fixings along the eaves, verge and Mono Ridge backing plates require fitting at 200mm fixing centres. Same principle applies to wall.
- Fixings into the panel nailing strip must be at 180mm centres.
- For detailed nailing patterns please refer to fixing of Urban Seam profile section in the installation guide.
- Urban Seam® profile is fixed to 18mm OSB 3, WBP or Marine Ply board. (15mm board is used for SIP panels) For other board types or dimensions please contact our technical advice line.
- For any advise and technical assistance in regards to wind speed or fixing positions please e-mail or contact our technical advise on Colourcoaturban@tatasteel.com

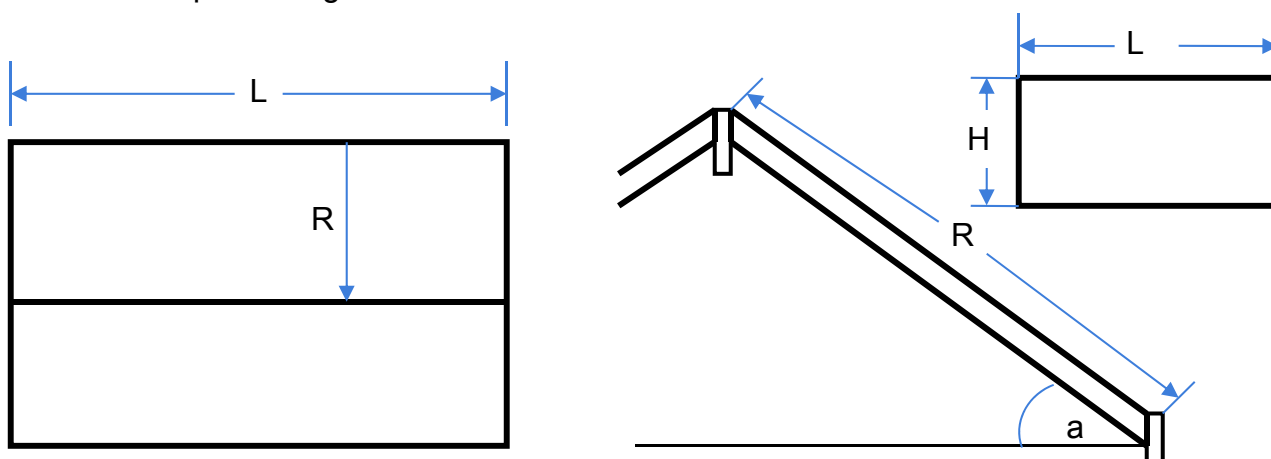
Ordering the Roof or Wall

Essential points

Tata Steel manufactures the roof or wall based on measurements provided by the customer.

These details can be found on the drawing produced by the roof truss or SIP panel manufacturer.

The maximum panel length is 12.5 metres



Estimating straight roofs or walls

For the straight roof we need four details: length (L), rafter length including fascia board (R), angle of pitch (a) and whether it is mono or duo pitch roof. For a wall we need length (L) and height (H) and any potential junctions or breaks.

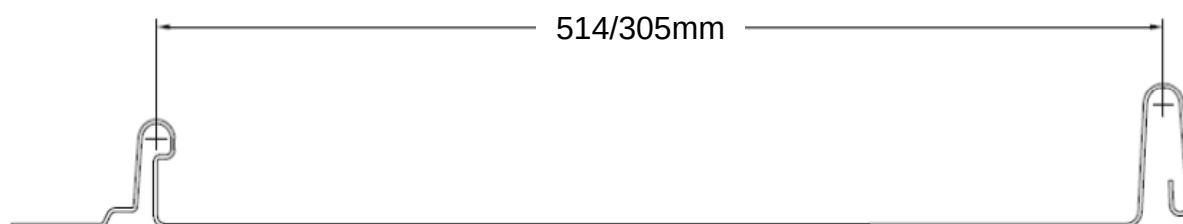
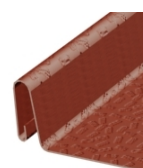
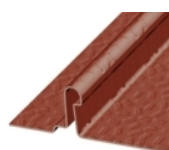
Estimating fixings

For the Urban Seam® profile at 514mm wide then you will need a minimum 6 fixings per square metre, and four fixings per linear metre along the eaves and verges, and at the ridge it will be 8 fixings per linear meter for the duo pitch and 4 for the mono pitch. If using screws for the ridge then the spacing is every 500mm halving the number of ridge fixings.

Panel Lengths

The panel maximum length (R) is 12.5 metres, this is due to the thermal expansion of the panel. How to deal with roof over 12.5 metres is to split the panels or create a change in fall in the roof, for example a mansard or join two panels.

Urban Profile



Technical Details

Urban Seam® Profile

Standard Details

- ASU01 – Duo Pitch Ridge
- ASU02 – Eave Detail
- ASU03 – Verge Detail
- ASU04 – Mono Ridge
- ASU05 – Top Abutment
- ASU06 – Side Abutment
- ASU07 – Valley
- ASU08 – Hip

Ventilation

- ASU010 – Ventilated Duo Ridge Detail
- ASU011 – Ventilated Eave Detail
- ASU012 – Ventilated Mono Detail
- ASU013 – Ventilated Duo Ridge Low Pitch
- ASU014 – Ventilated Top Abutment Low Pitch

Build Up Options

- ASU015 – Roof Build Up Options
- ASU016 – Cross Section Cold Roof
- ASU017 – SIP Panel Build Up

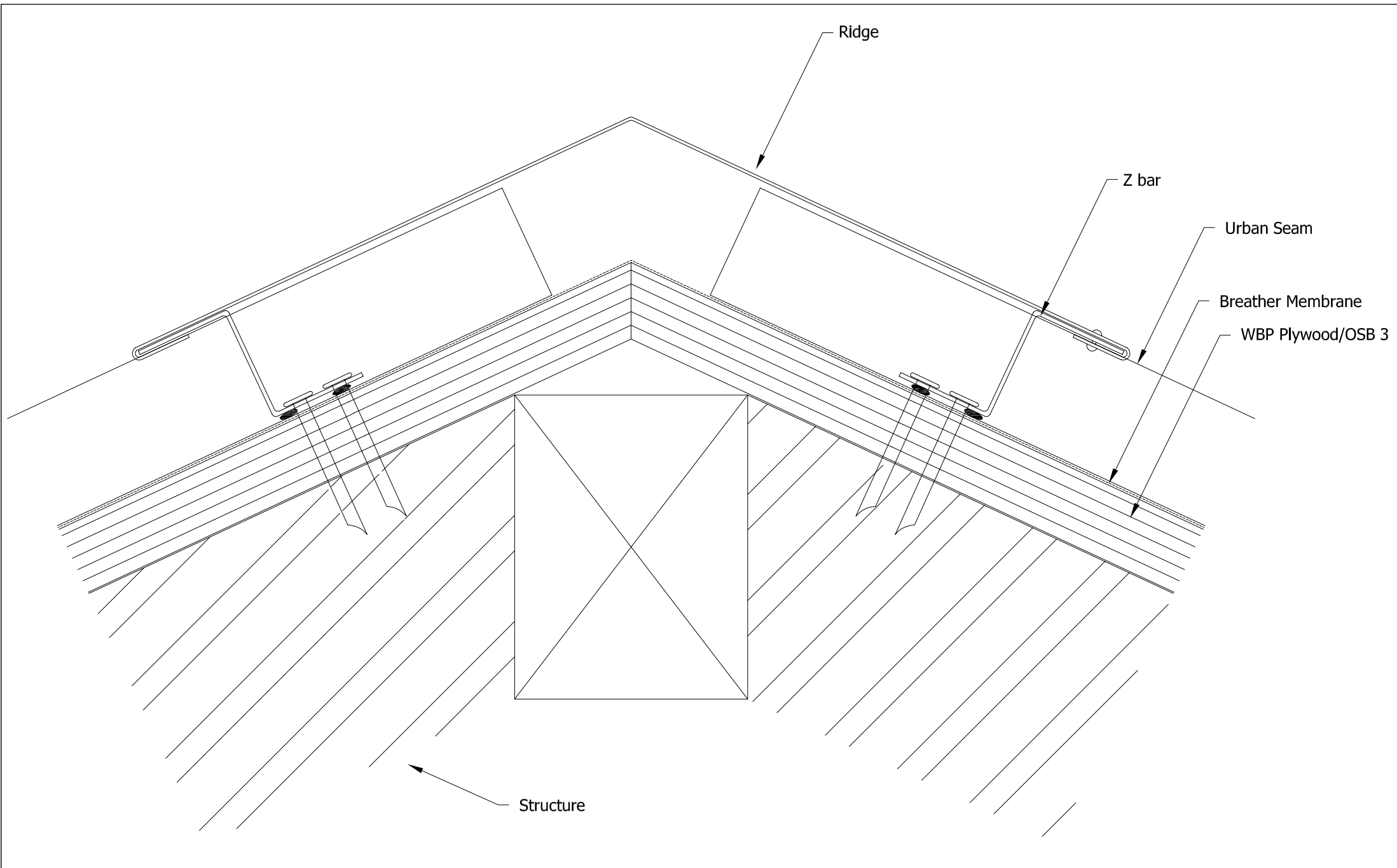
Additional Details

- ASU020 – Window detail (Roof lights)
- ASU021 – Mansard Detail
- ASU022 – Renewable fixing Clamp
- ASU022 02 – Renewable fixing Clamp Assembly
- ASU023 – Joining panels
- ASU024 – Square Penetration
- ASU025 – SVP or round Chimney
- ASU026 – Fascia , Soffit and internal gutter
- ASU027 – Weatherboard

Wall Details

- ASU030 – Wall Details
- ASU031 – Window detail
- ASU032 – External and Internal Corner
- ASU033 – Laying panels horizontally

For electronic versions of the technical drawings then please e-mail or contact our technical advise line on Colourcoaturban@tatasteel.com



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Title

Duo Pitch Ridge

Drawing No.

ASU01

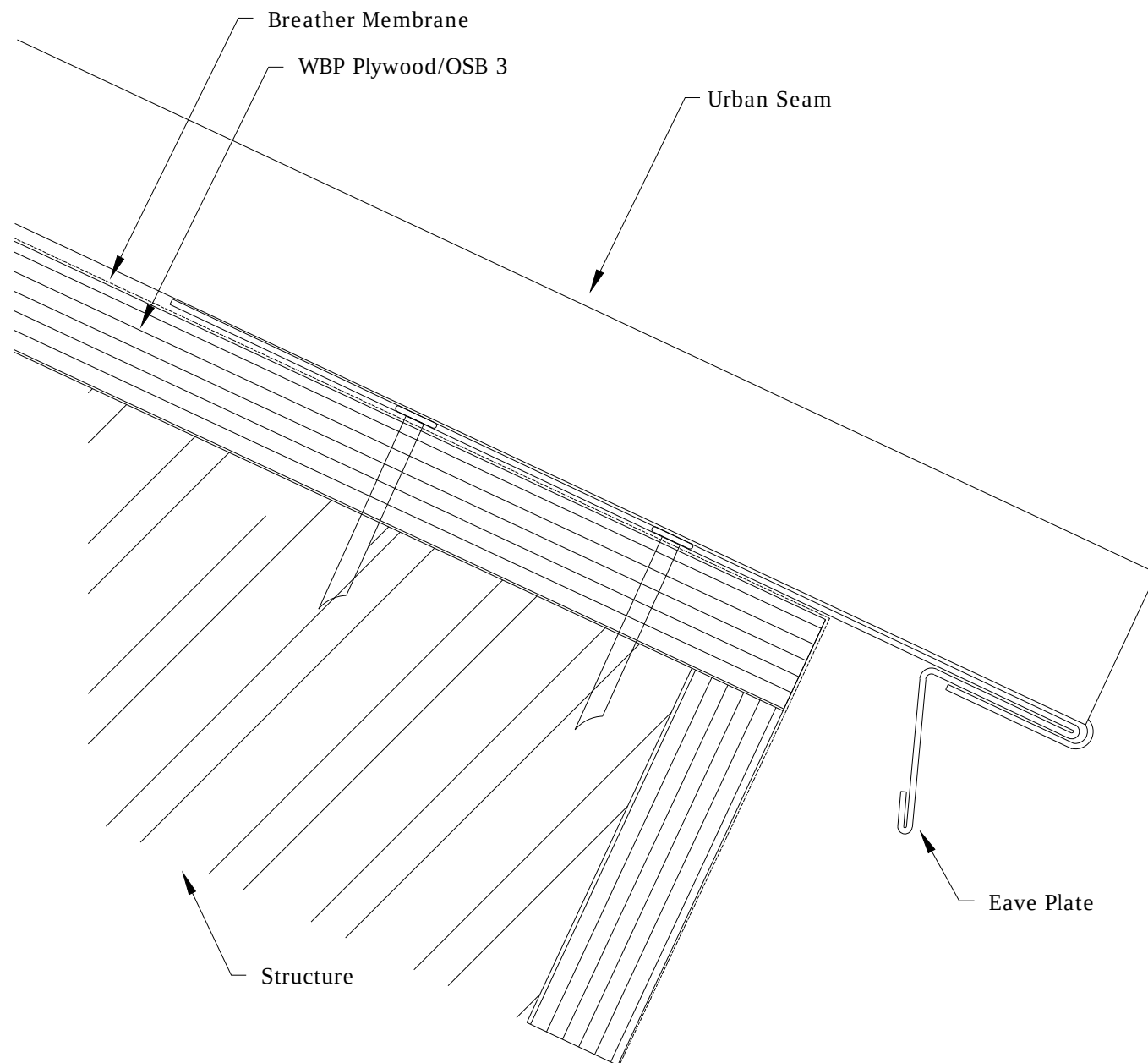
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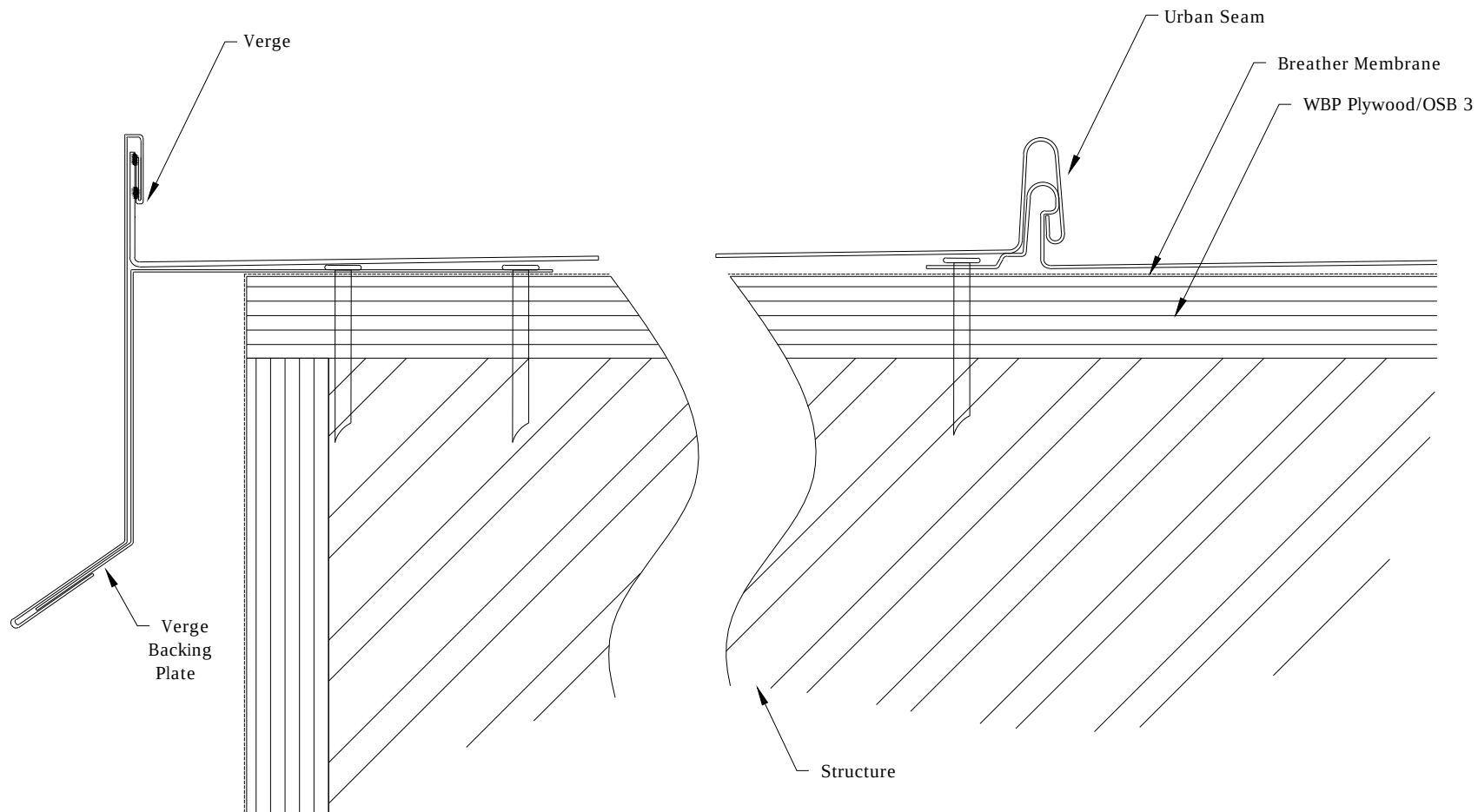
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Deeside
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Title	Eave Detail	Scale : N/A	Copyright - Tata Steel É 2012
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Title

Verge Detail

Drawing No.

ASU03

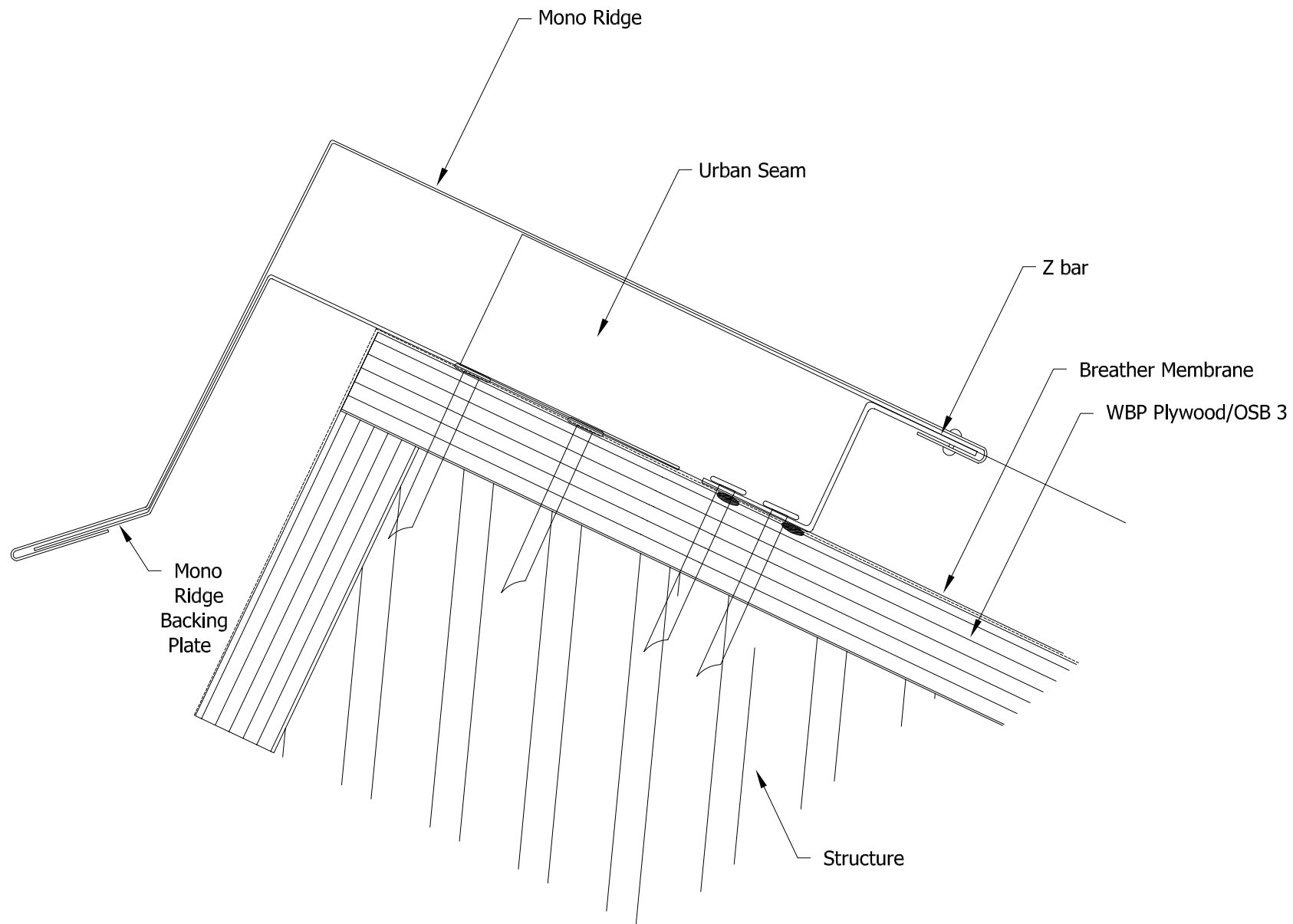
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Title

Mono Ridge

Drawing No.

ASU04

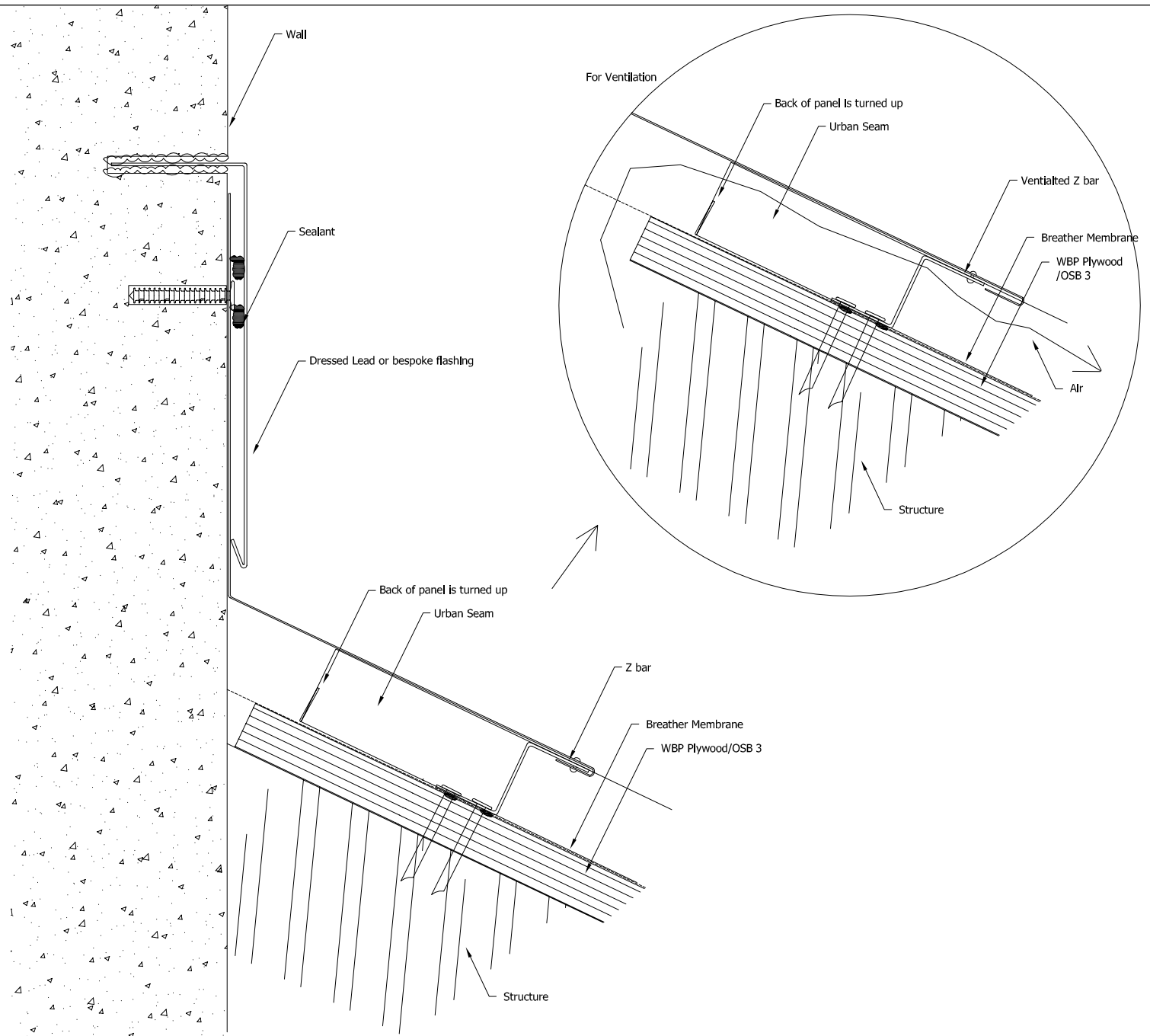
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Title

Top Abutment

Drawing No.

ASU05

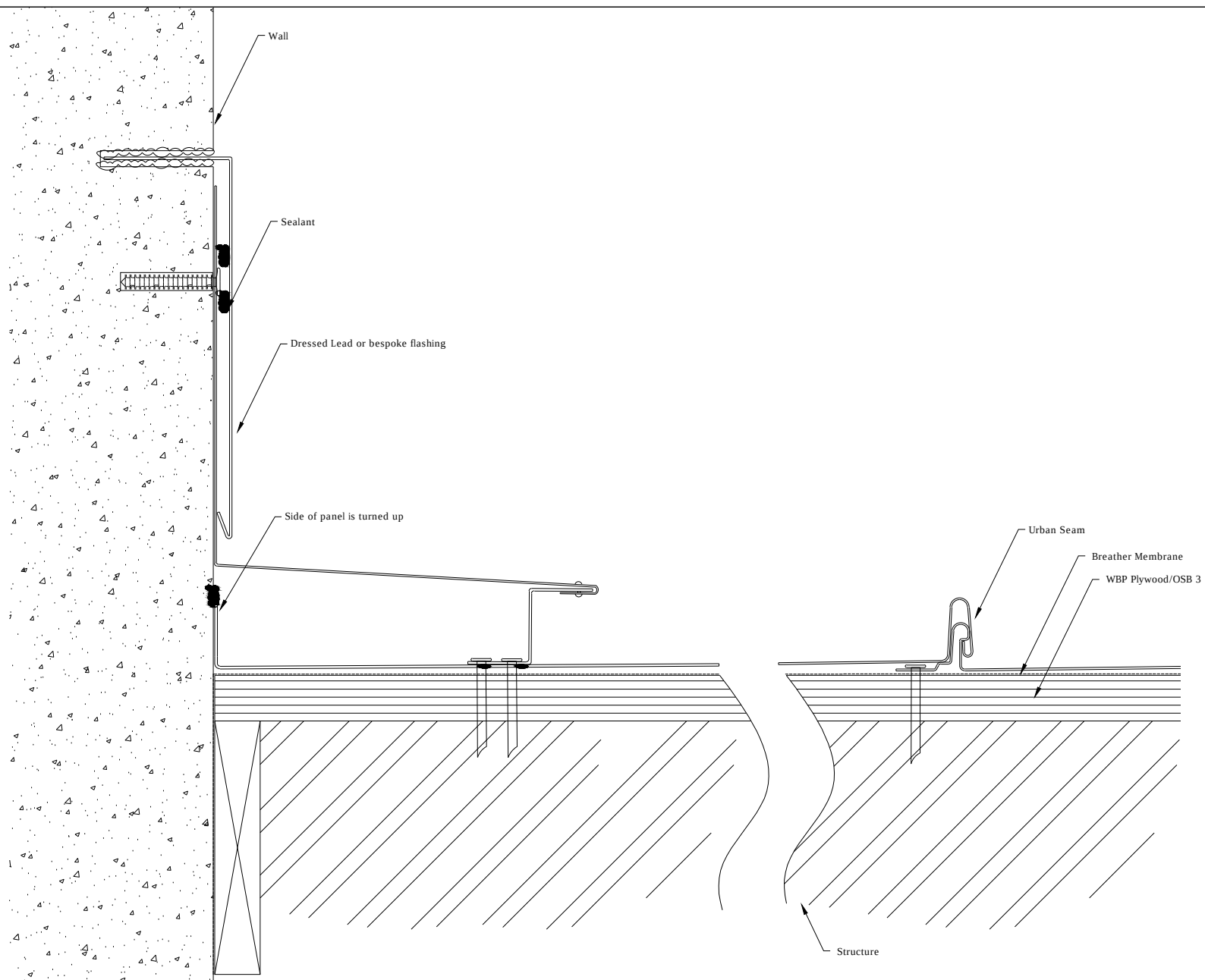
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Title

Side Abutment

Drawing No.

ASU06

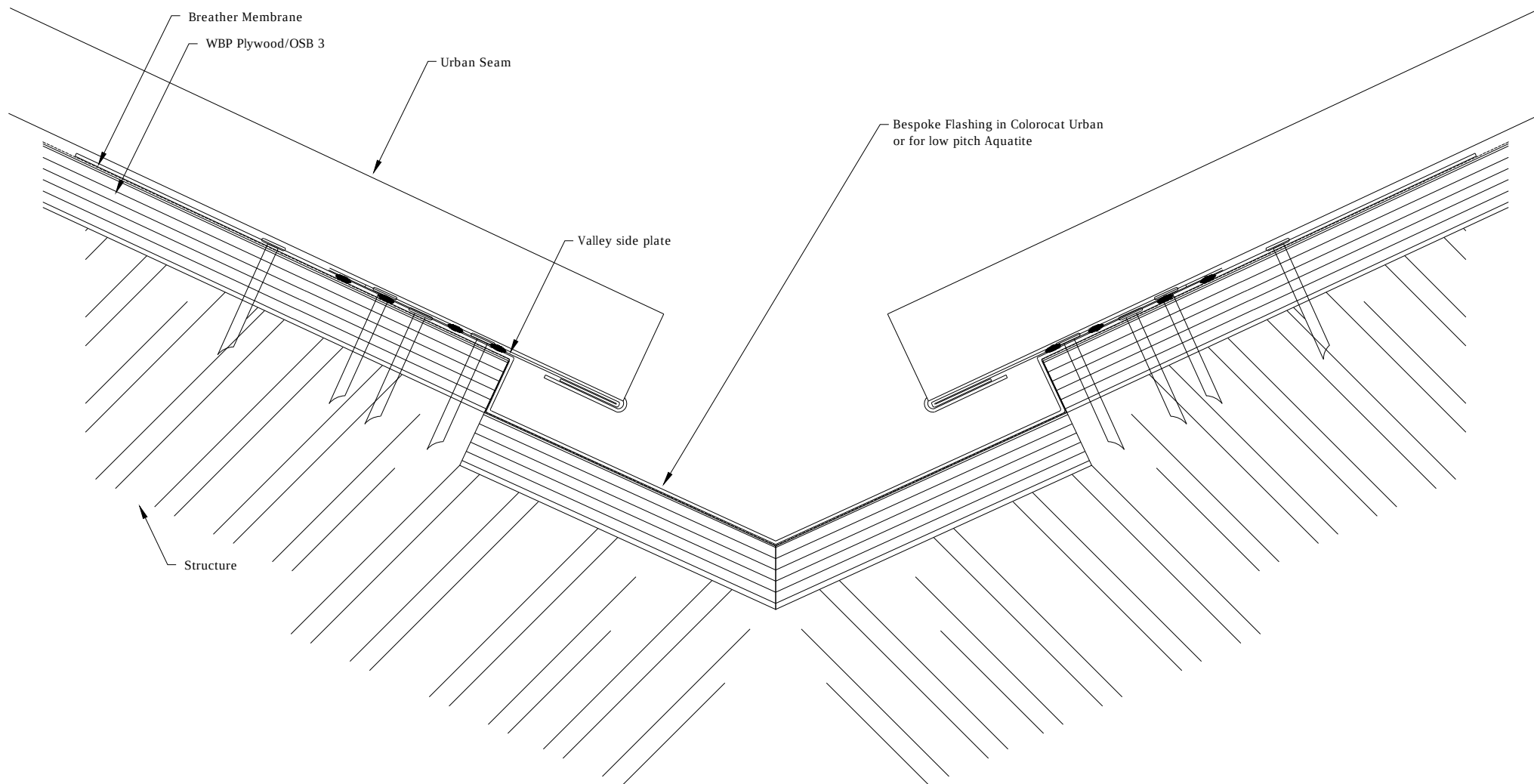
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Title

Valley

Drawing No.

ASU07

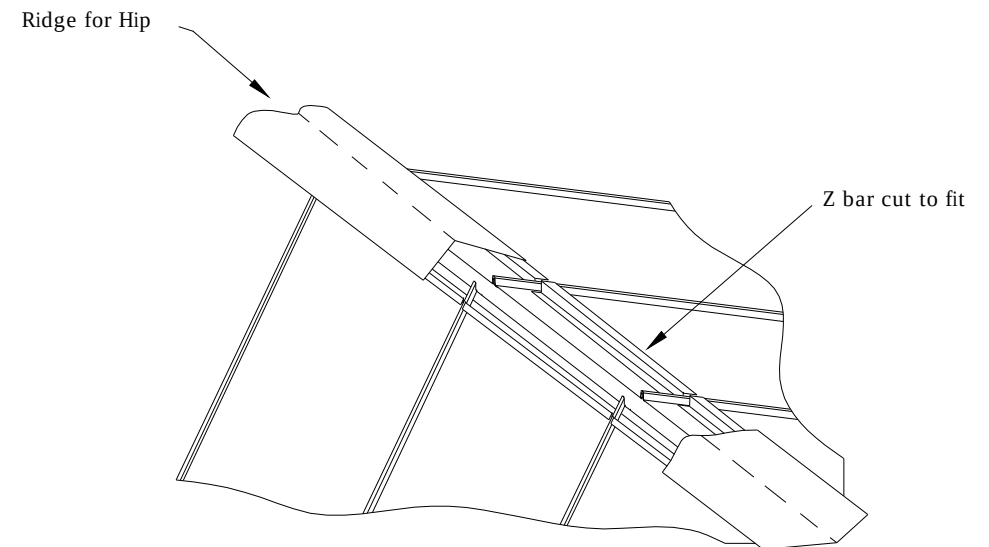
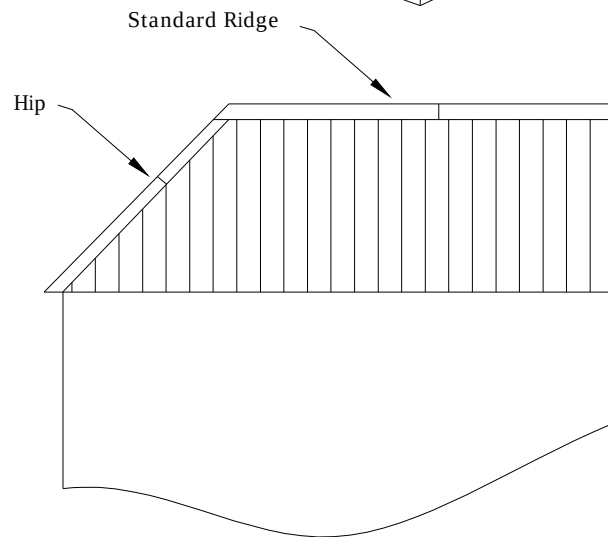
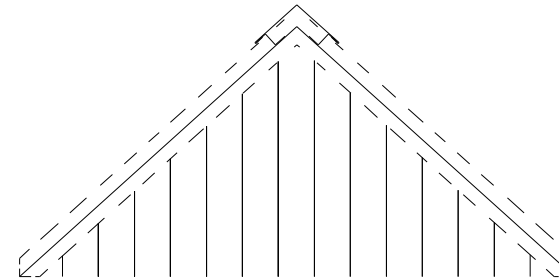
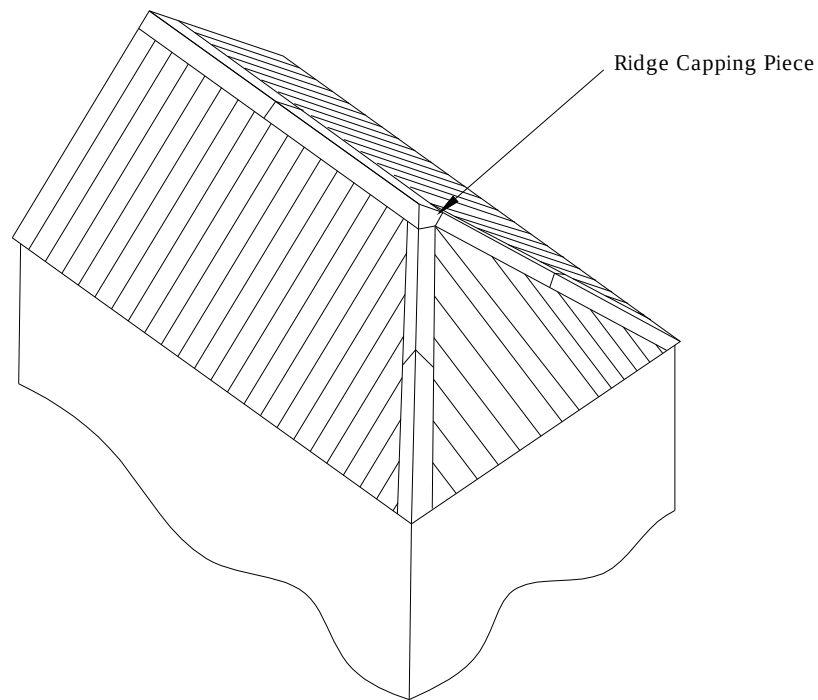
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Title

Hip

Drawing No.

ASU08

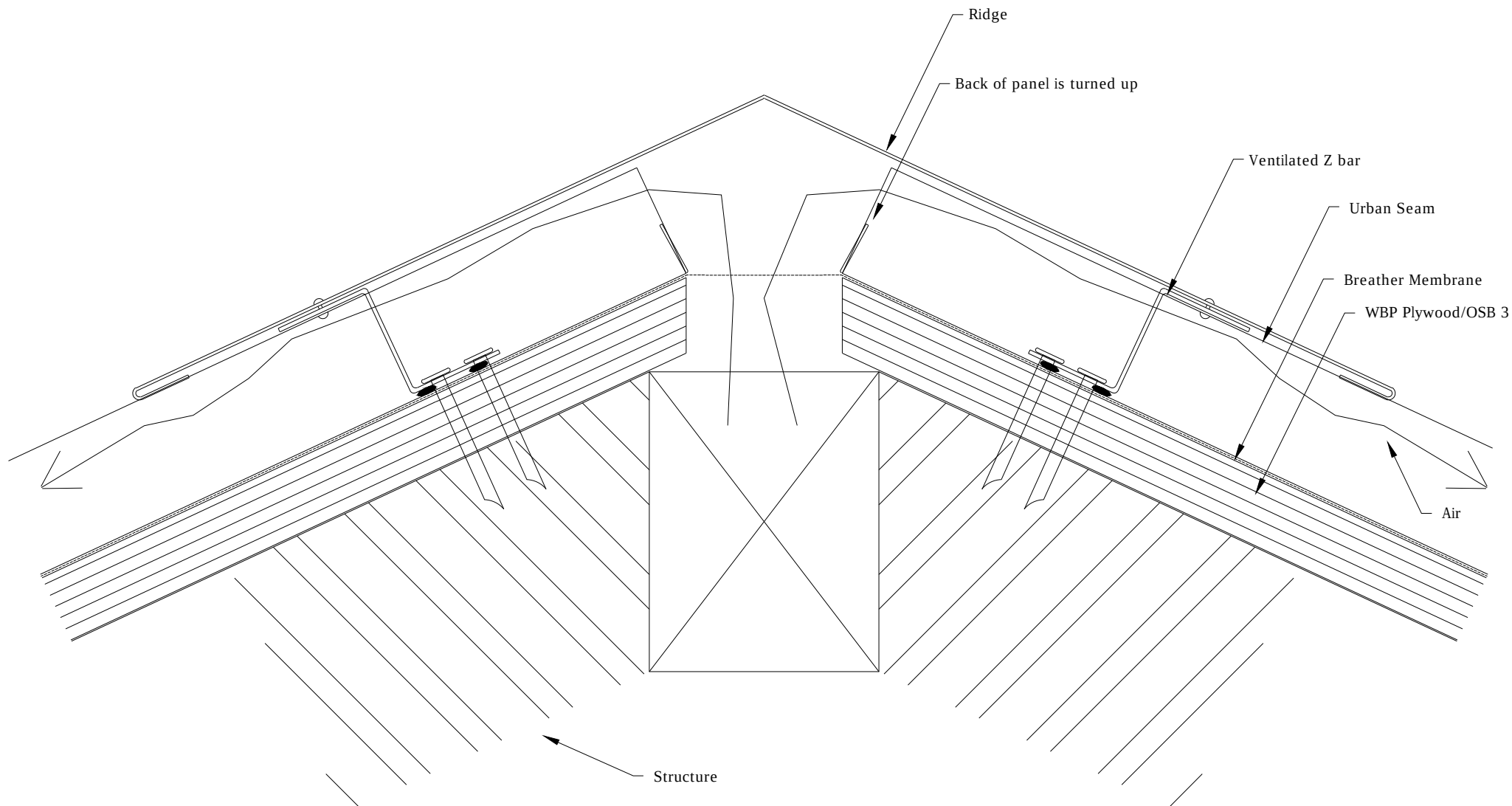
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Title

Ventilated Duo Ridge

Drawing No.

ASU010

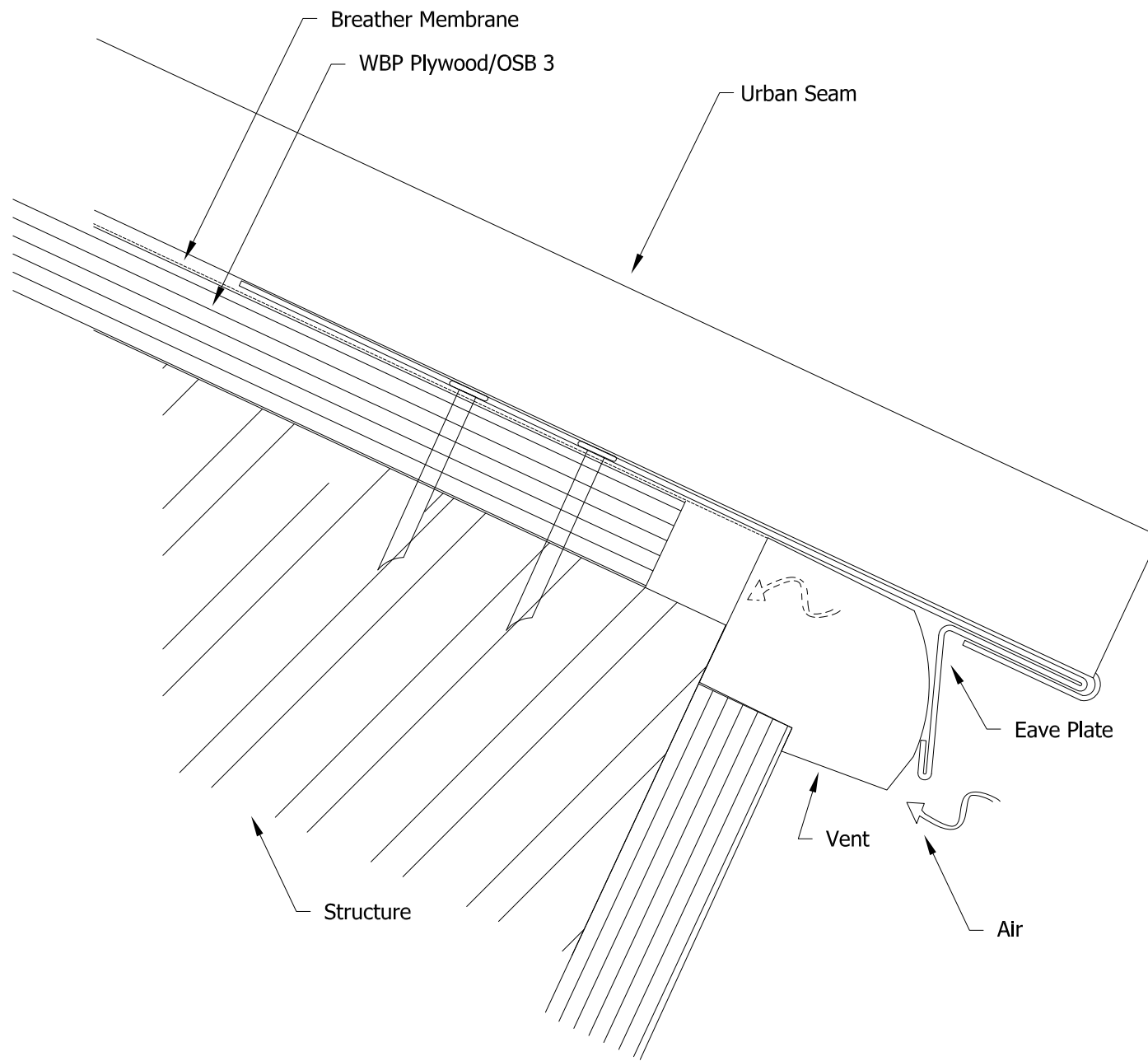
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Breather Membrane
WBP Plywood/OSB 3

Urban Seam

Eave Plate

Vent

Air

Structure



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Title

Ventilated Eave

Drawing No.

ASU011

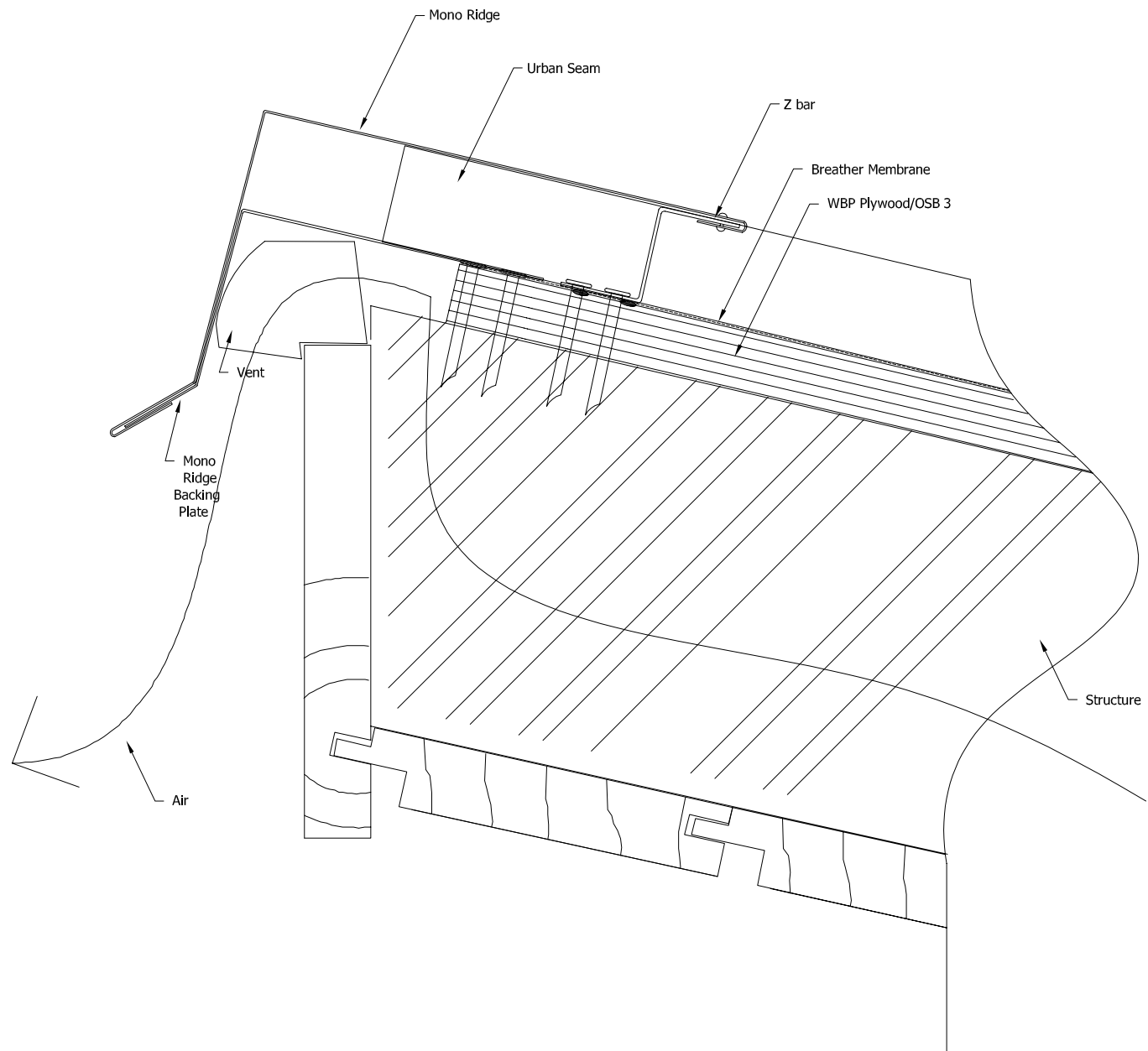
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Title

Ventilated Mono Ridge

Drawing No.

ASU012

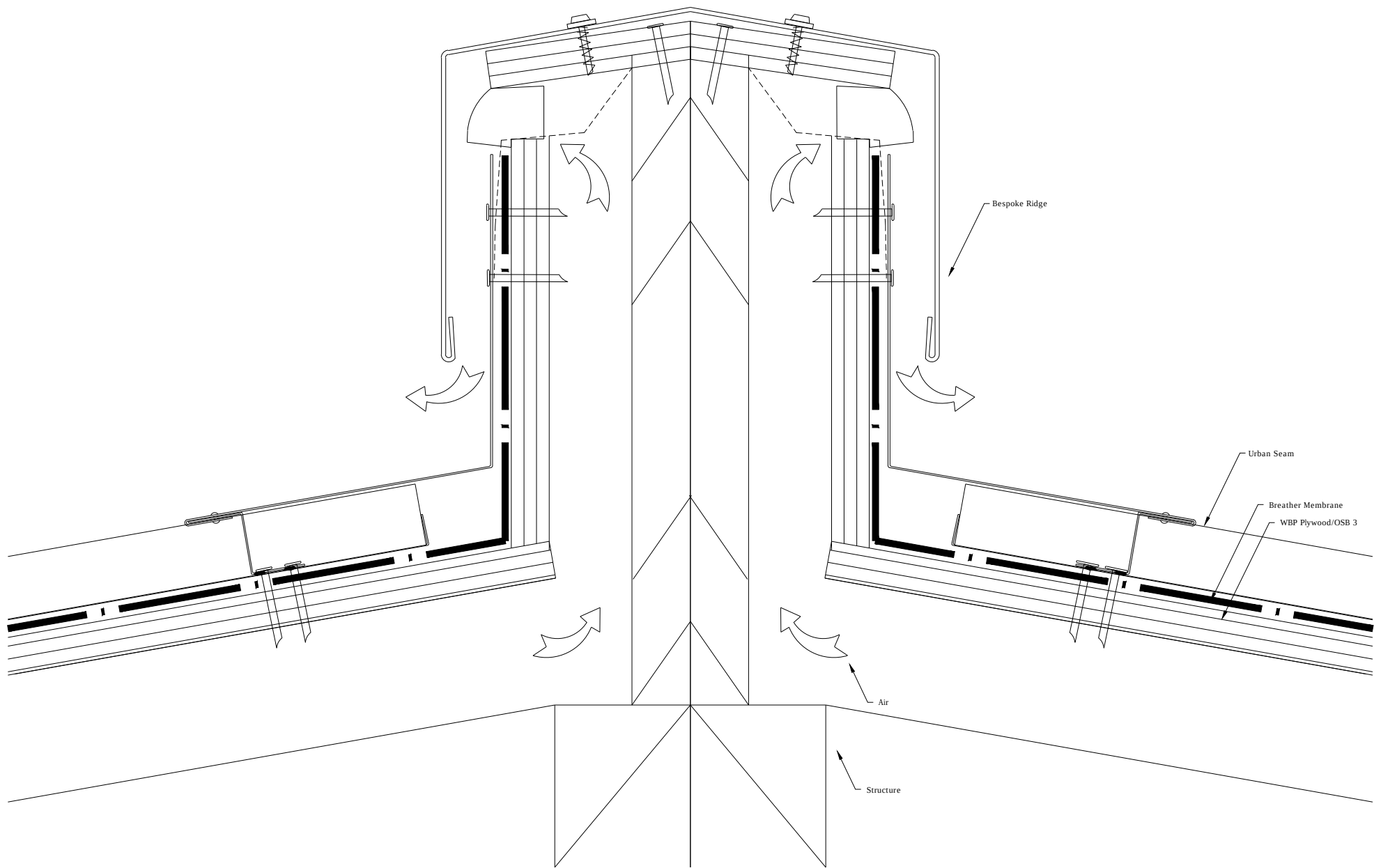
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Title

Ventilated Duo Ridge Low Pitch

Drawing No.

ASU013

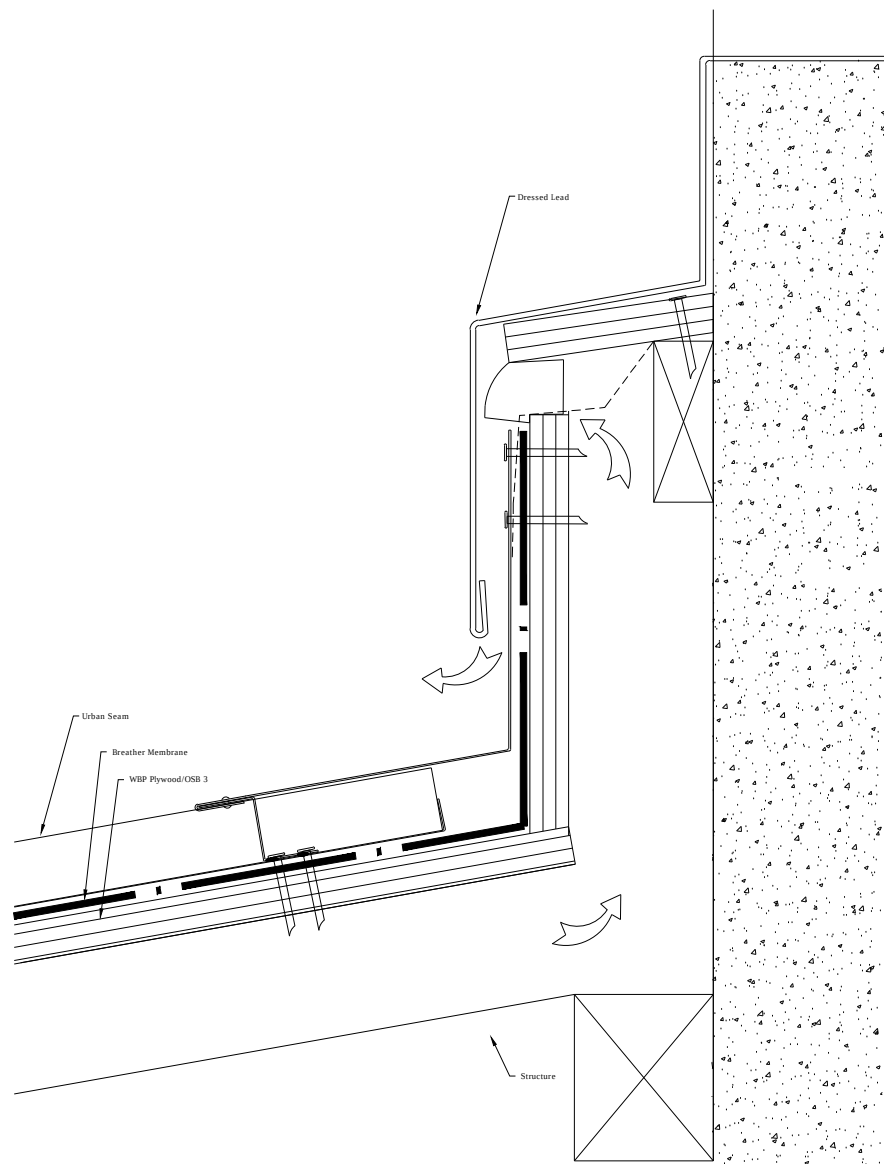
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Title

(Vent) Top Abutment Low Pitch

Drawing No.

ASU014

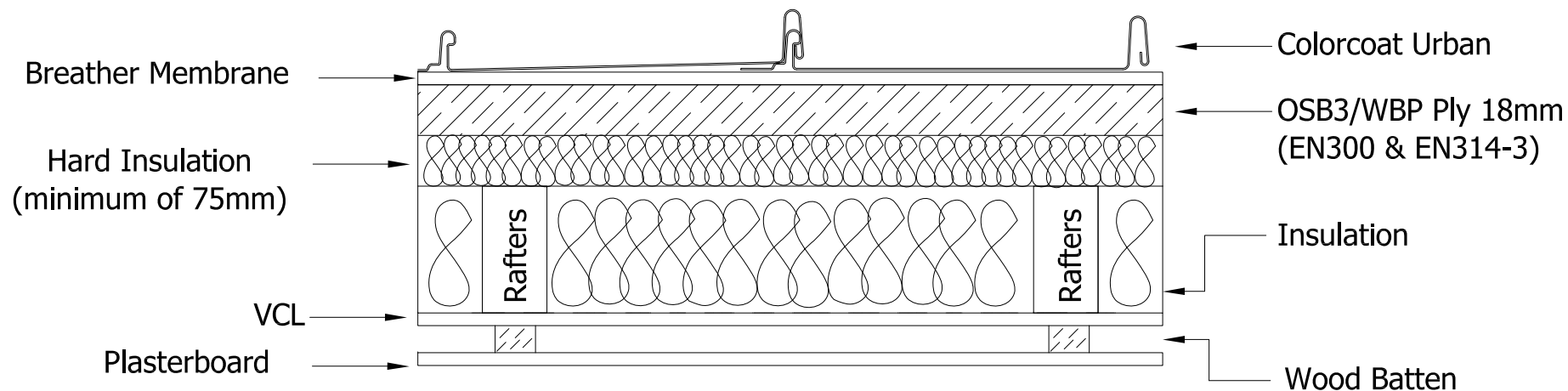
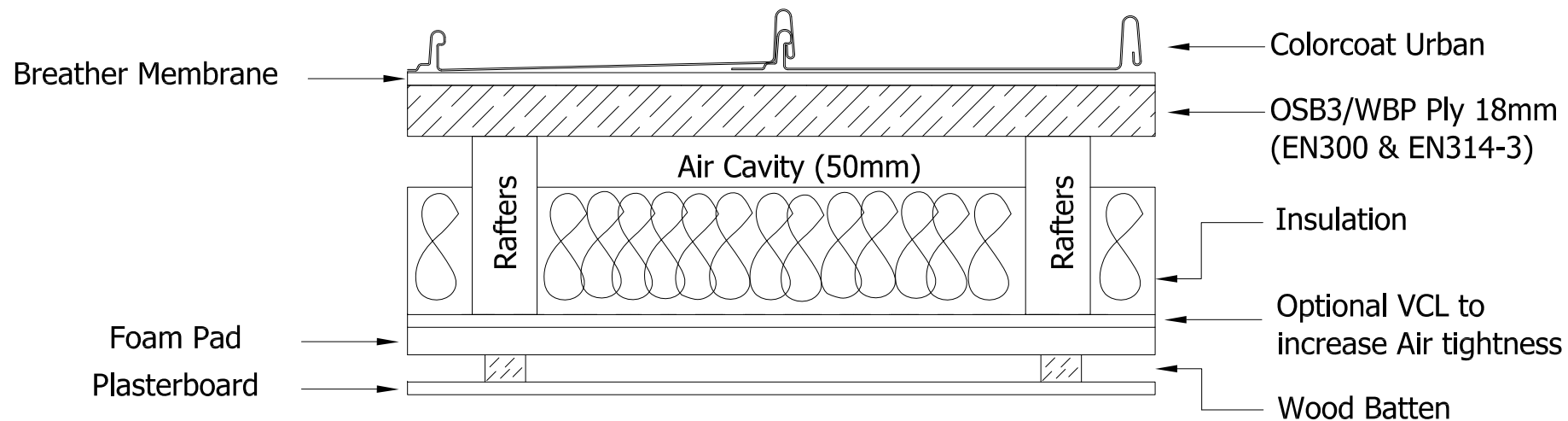
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Title

Roof Build Up Options

Drawing No.

ASU015

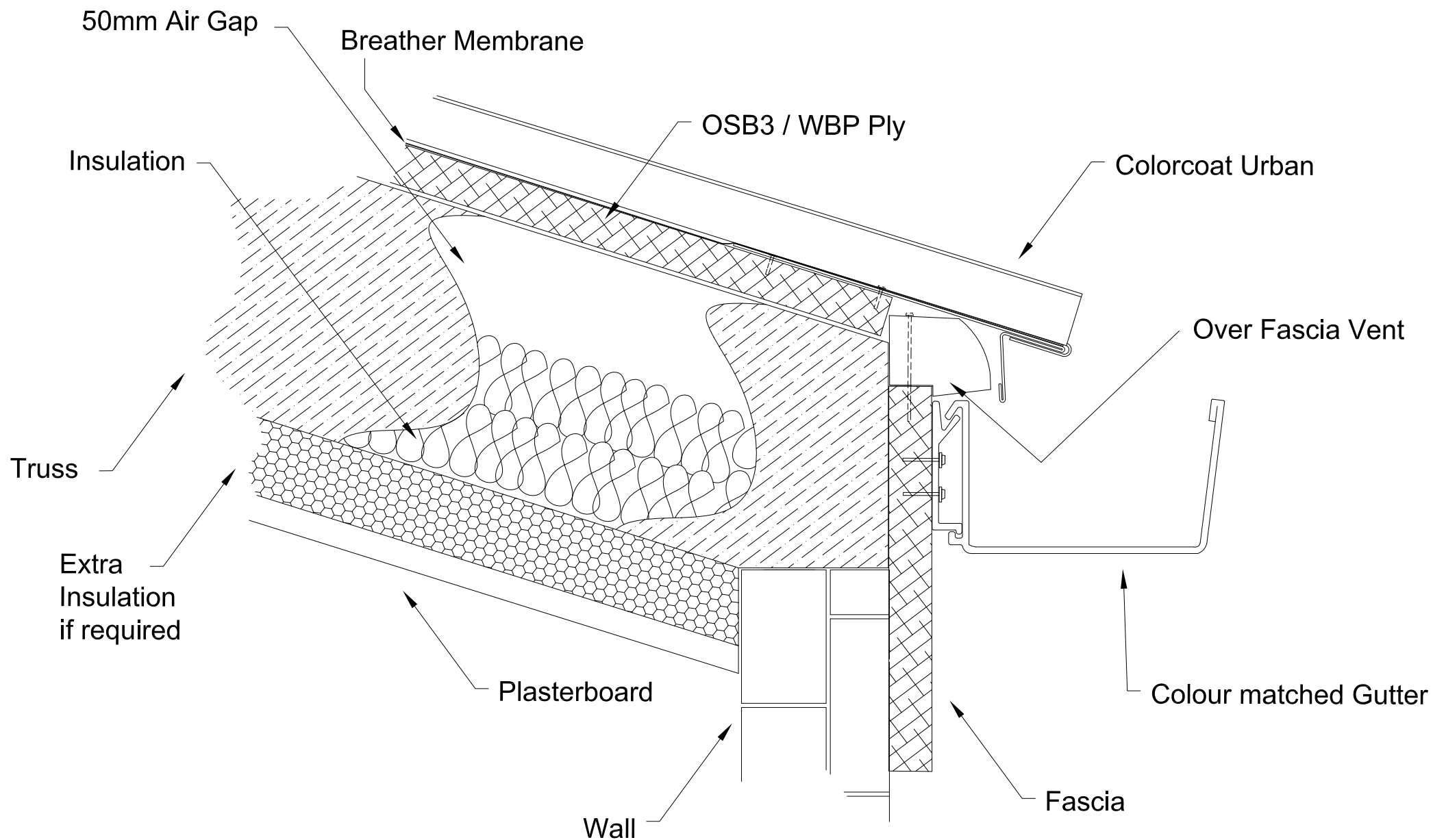
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Title

Cross Section Cold Roof

Drawing No.

ASU016

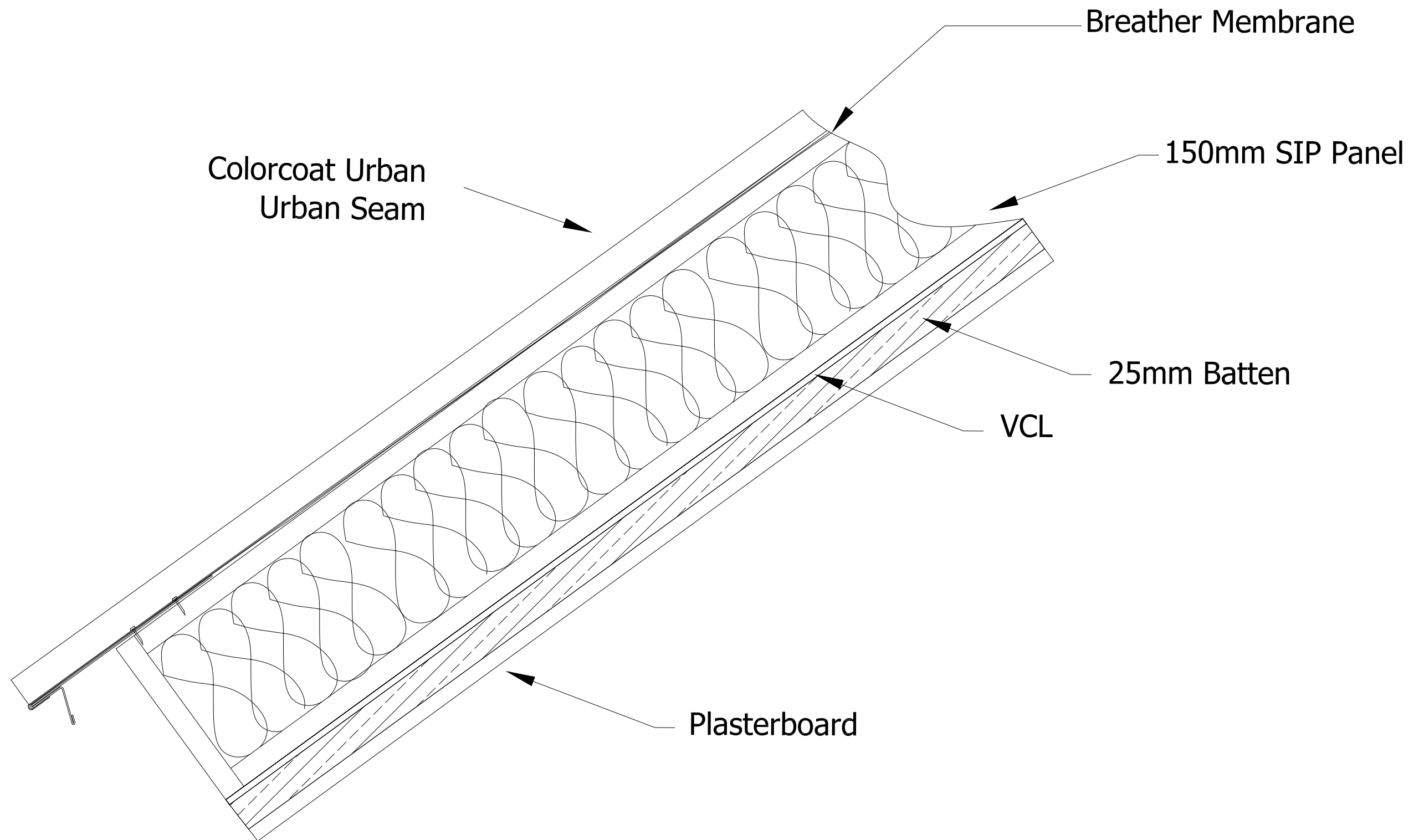
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Title

SIP Panel Build Up

Drawing No.

ASU017

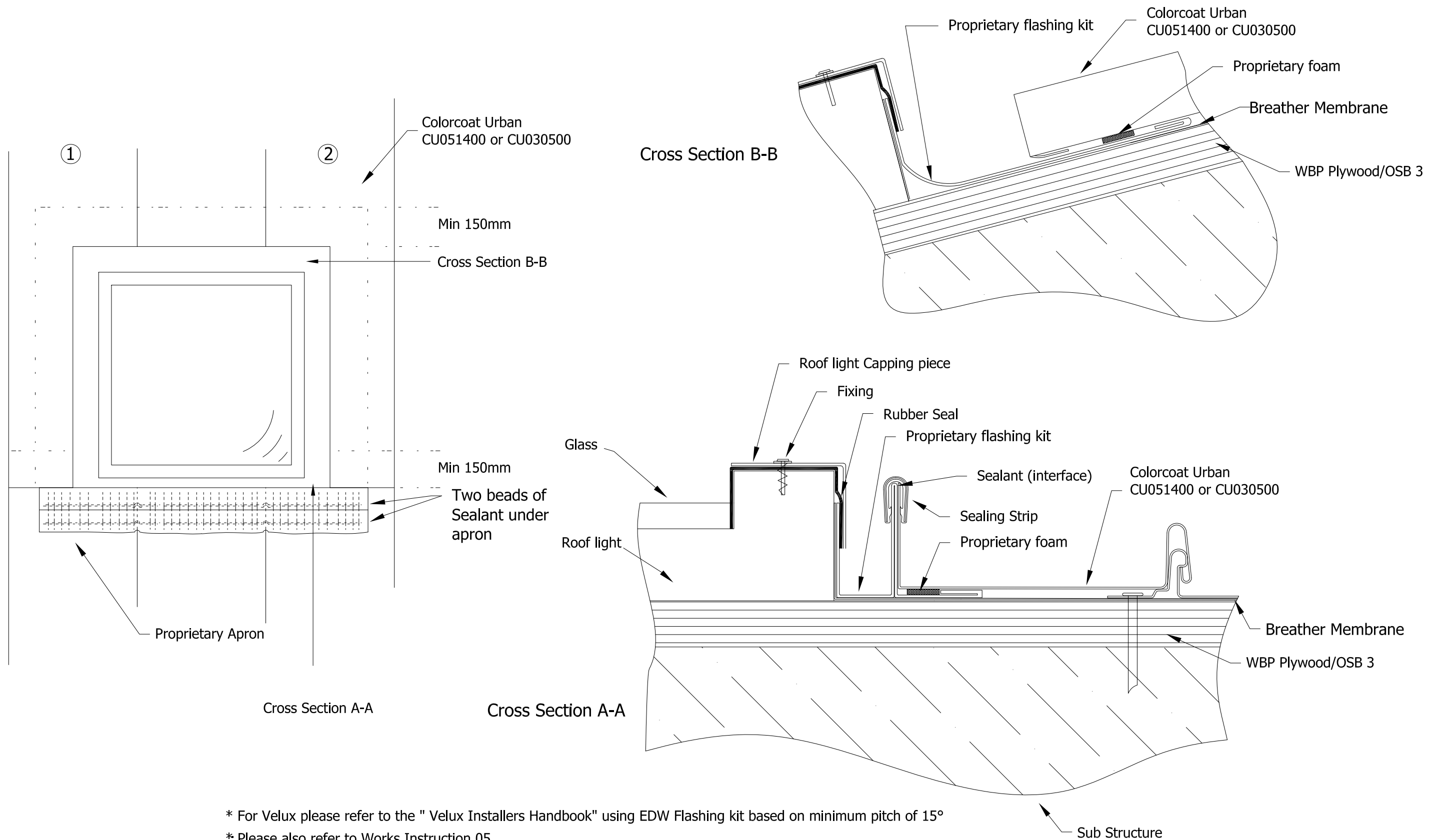
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- * For Velux please refer to the " Velux Installers Handbook" using EDW Flashing kit based on minimum pitch of 15°
- * Please also refer to Works Instruction 05
- * Panels 1 and 2 are made longer, for cutting and overlapping on site



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Title

Window Detail (Roof Lights)

Drawing No.

ASU020

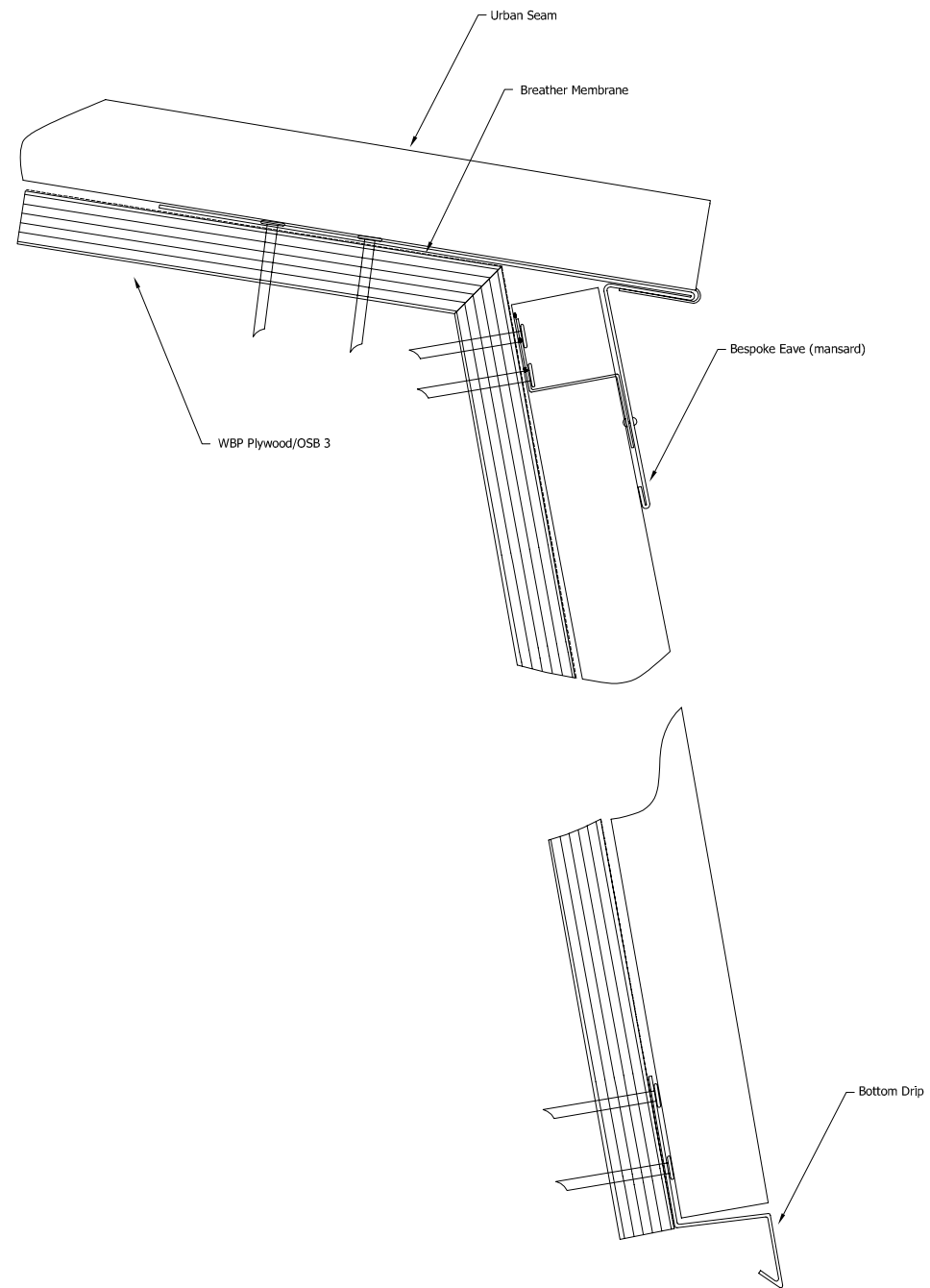
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Title

Mansard Detail

Drawing No.

ASU021

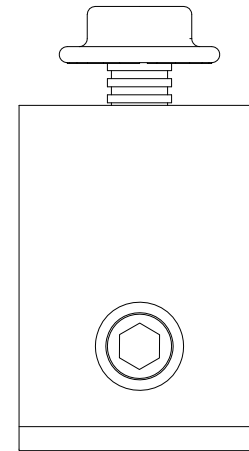
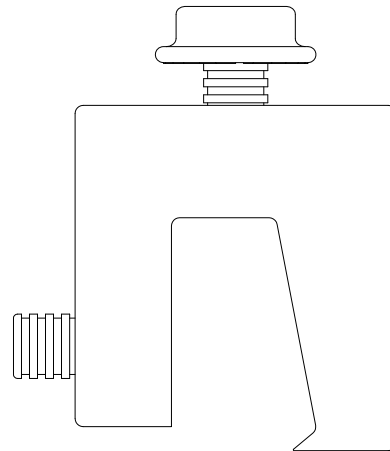
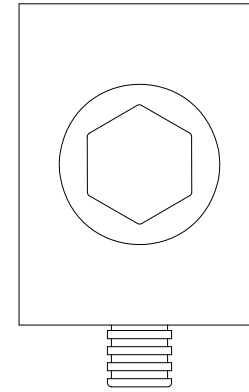
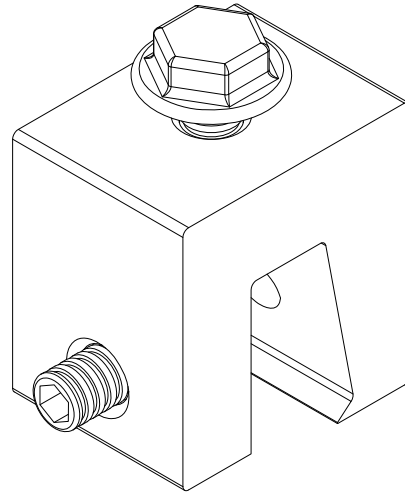
Scale : N/A

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Title

Fixing Clamp

Drawing No.

ASU022

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Urban Clamp

The urban clamp has been specially designed for Colorcoat Urban® seam profile. When attaching the clamps they are designed to engage with the seam as shown. For horizontal seam applications, the set screw must be accessible from the top for tightening.

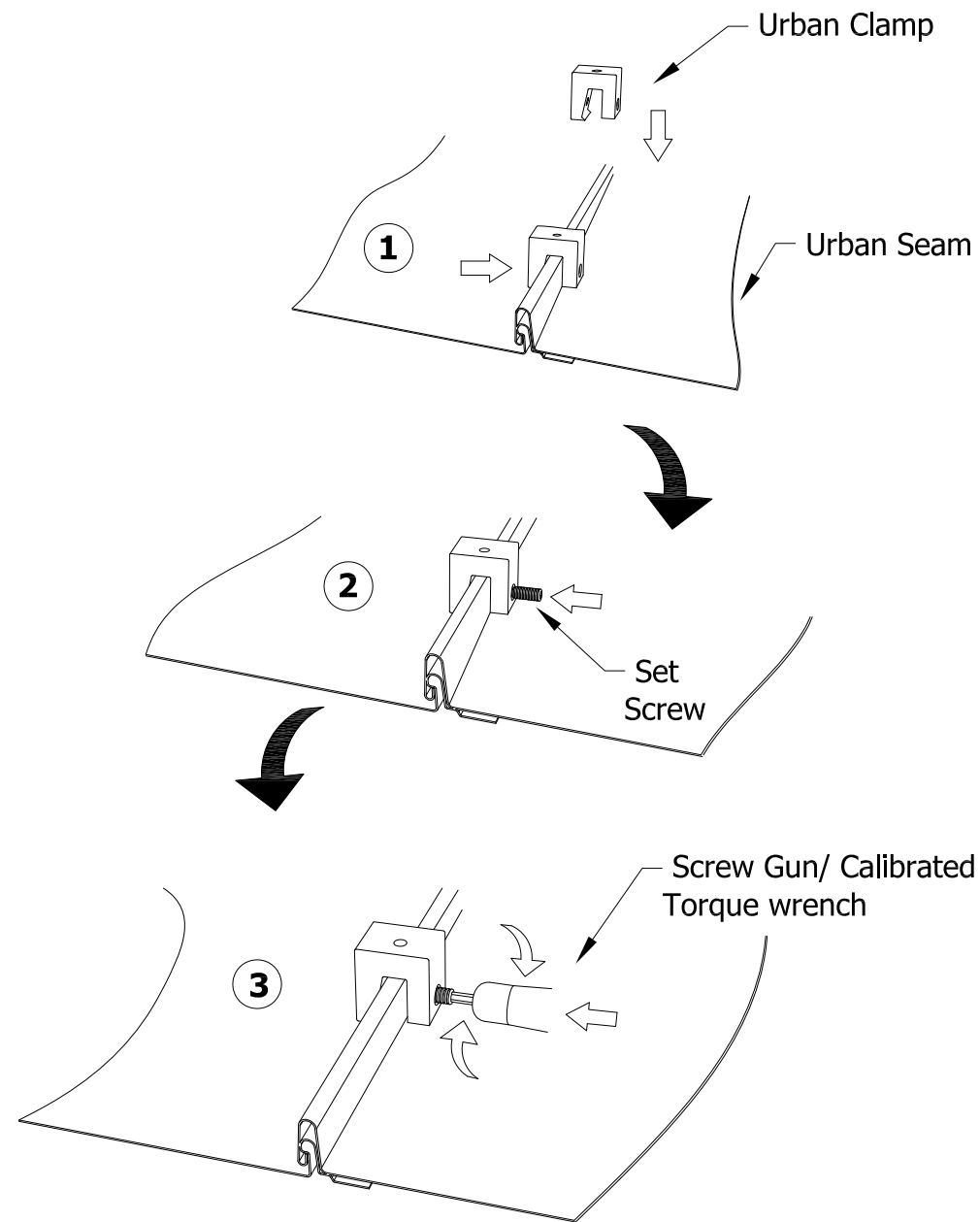
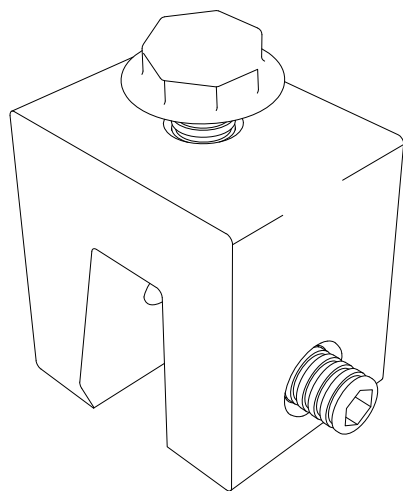
The setscrews are opposite the open (or overlap) side of the seam. Only one orientation is possible with the Urban clamp for it to engage with the seam correctly.

For the maximum holding strength, setscrews should be tensioned and re-tensioned as the seam material compresses.

Please use the Urban clamp responsibly! Please see the load test results below based on pulling load normal to seam. The user and/or installer of the Urban Clamp are responsible for all necessary engineering and design for the intended use of the Urban Clamp in any assembly or application.

Please note one M8 bolt and one set screw is supplied with every Urban Clamp.

Profile	Screw Tension (Nm)	Allowable (KNs)	Ultimate (KNs)
Urban Seam®	13	1.5	4.51



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Title

Urban Clamp Assembly

Drawing No.

ASU022 02

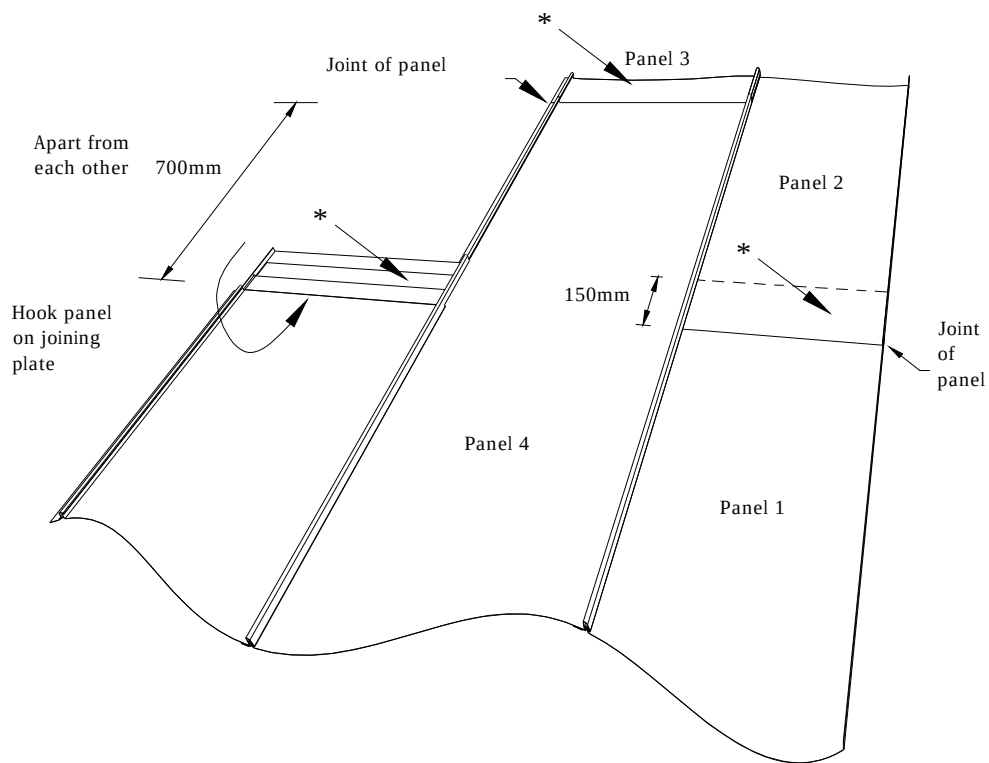
Scale : N/A

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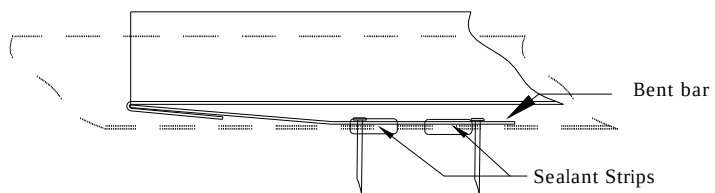
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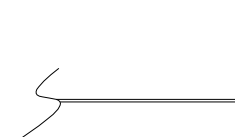
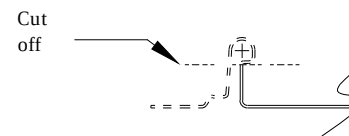
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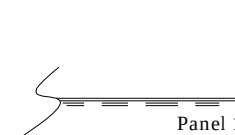
* Urban Seam on joining plate



Panel 1 (top end)

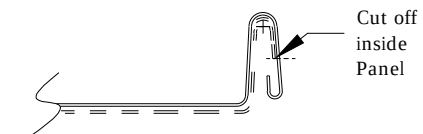


Panel 2



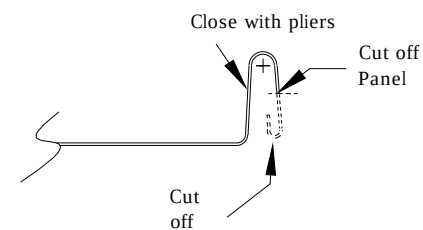
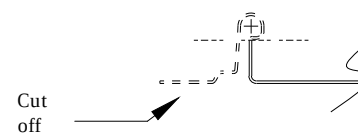
Panel 1 (top end)

Panel 3



Panel 4 (top end)

Panel 4 (top end)



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Title

Joining Panels

Drawing No.

ASU023

Scale : N/A

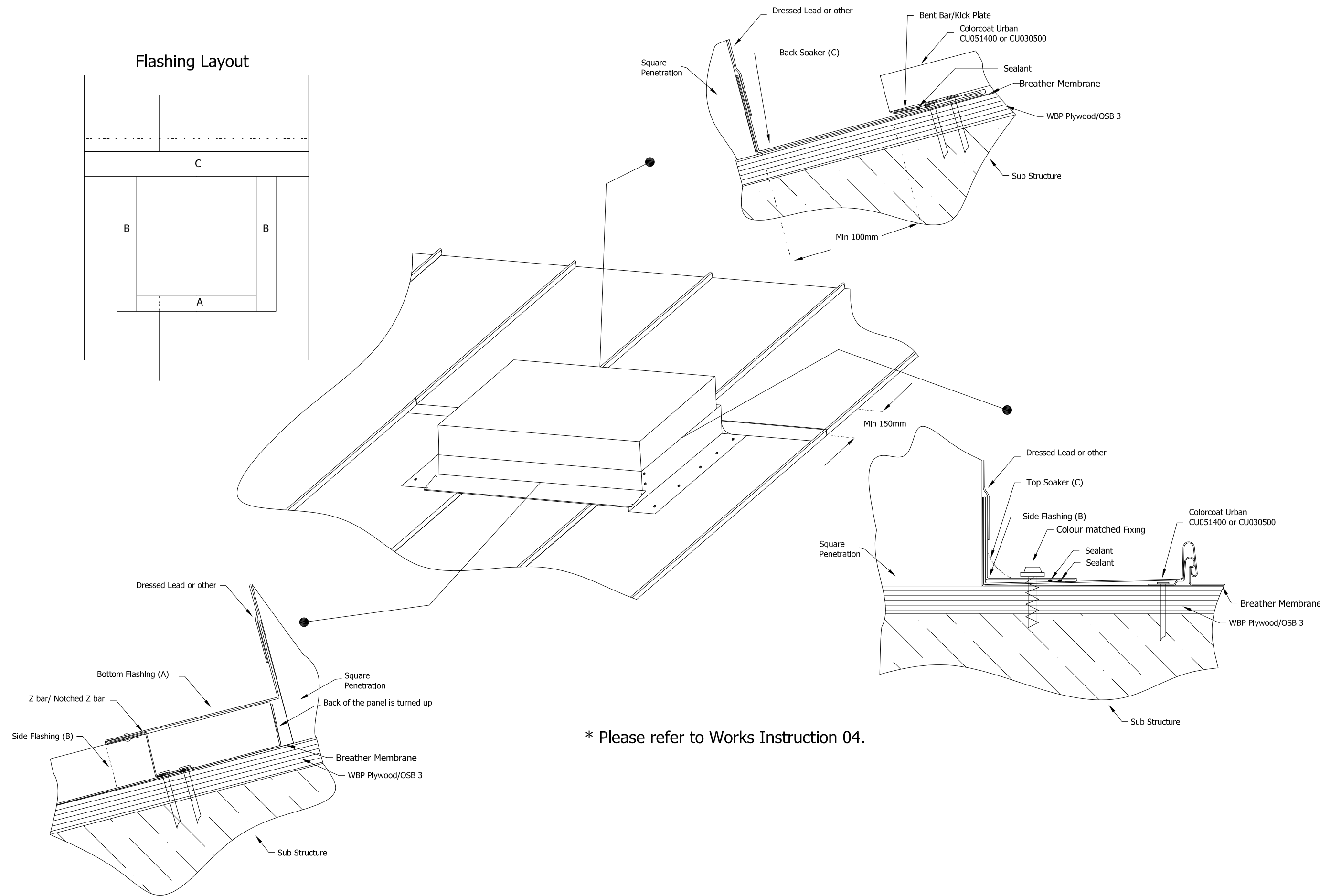
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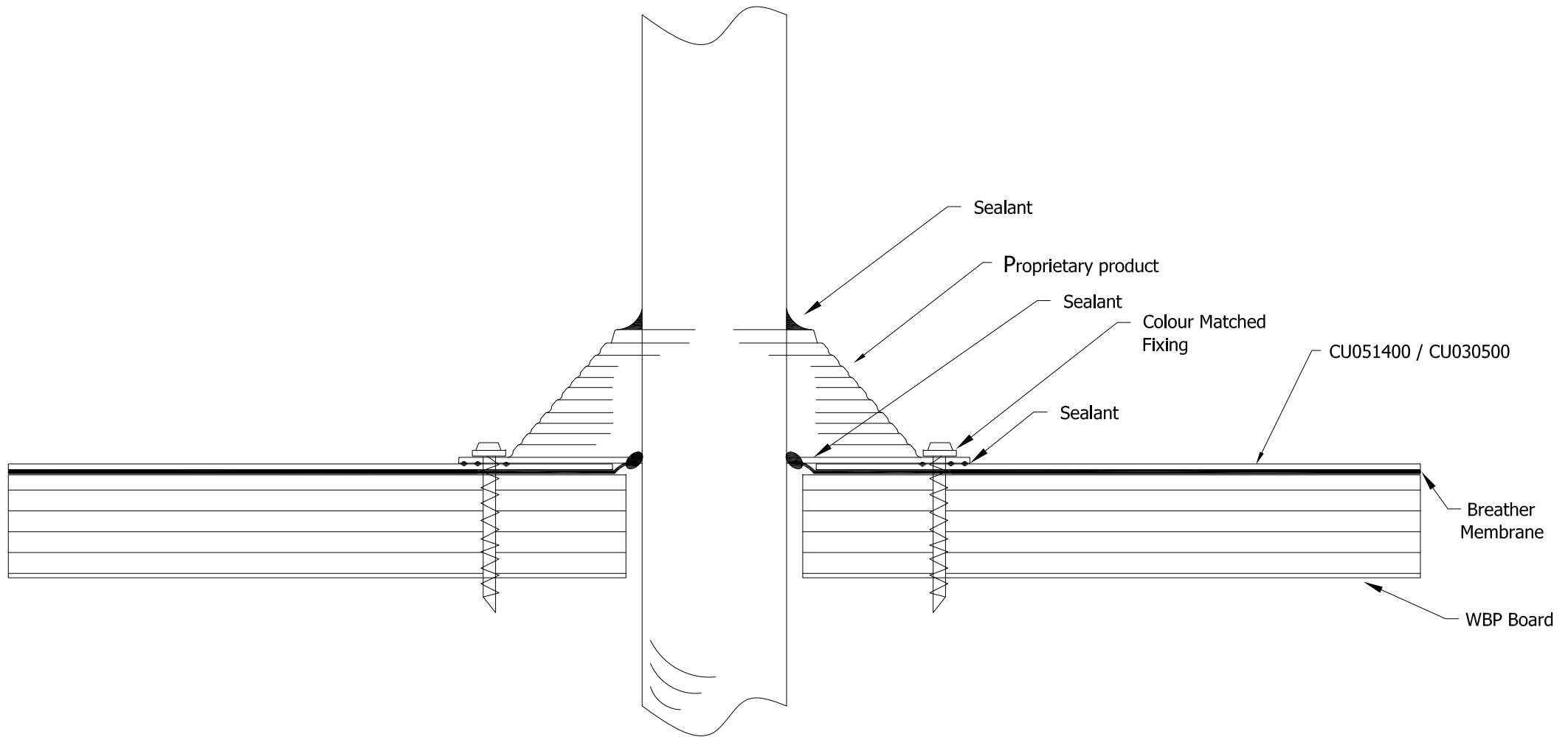
Flashing Layout



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Title	Square Penetration
Drawing No.	ASU024

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Title

SVP or round Chimney

Drawing No.

ASU025

Scale : N/A

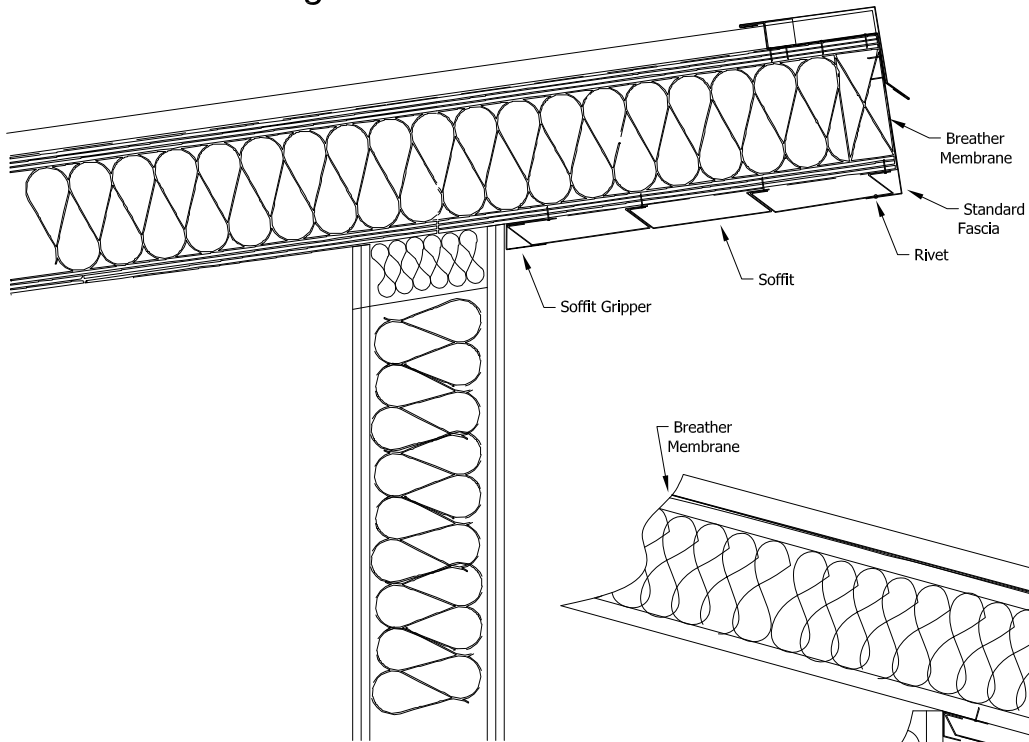
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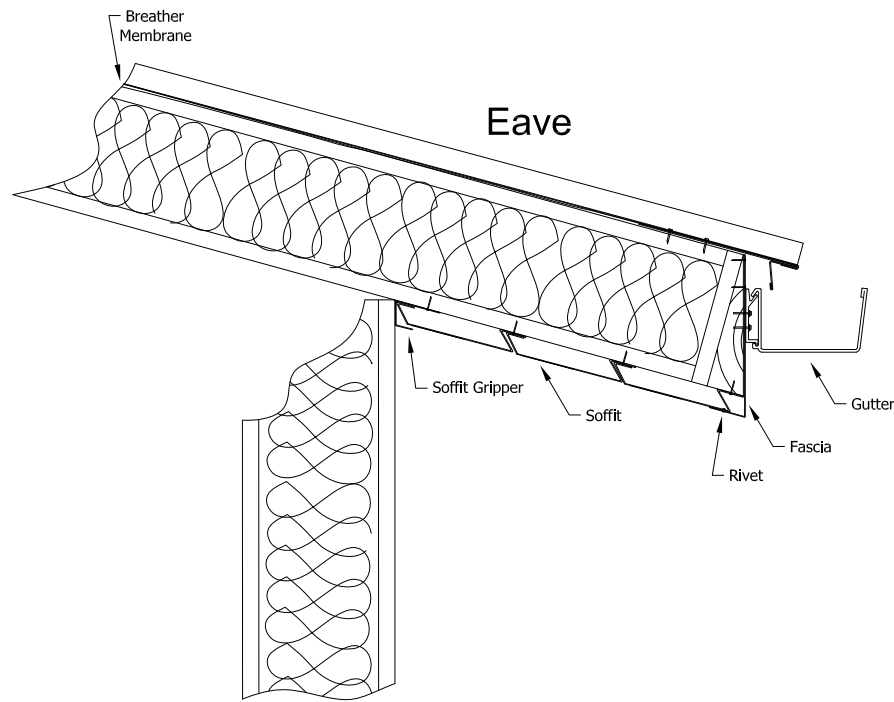
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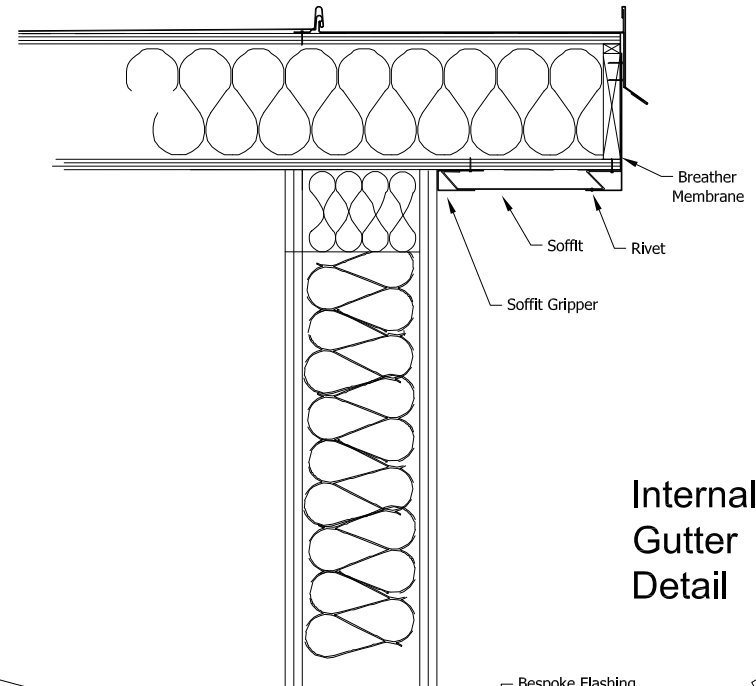
Mono Ridge



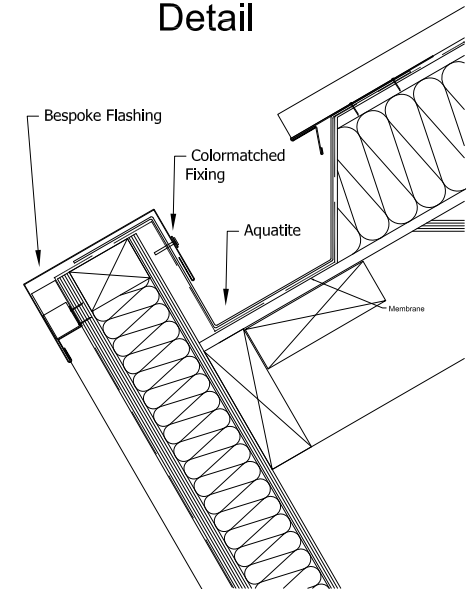
Eave



Verge



Internal Gutter Detail



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Title

Fascia, Soffit and internal gutter

Drawing No.

ASU026

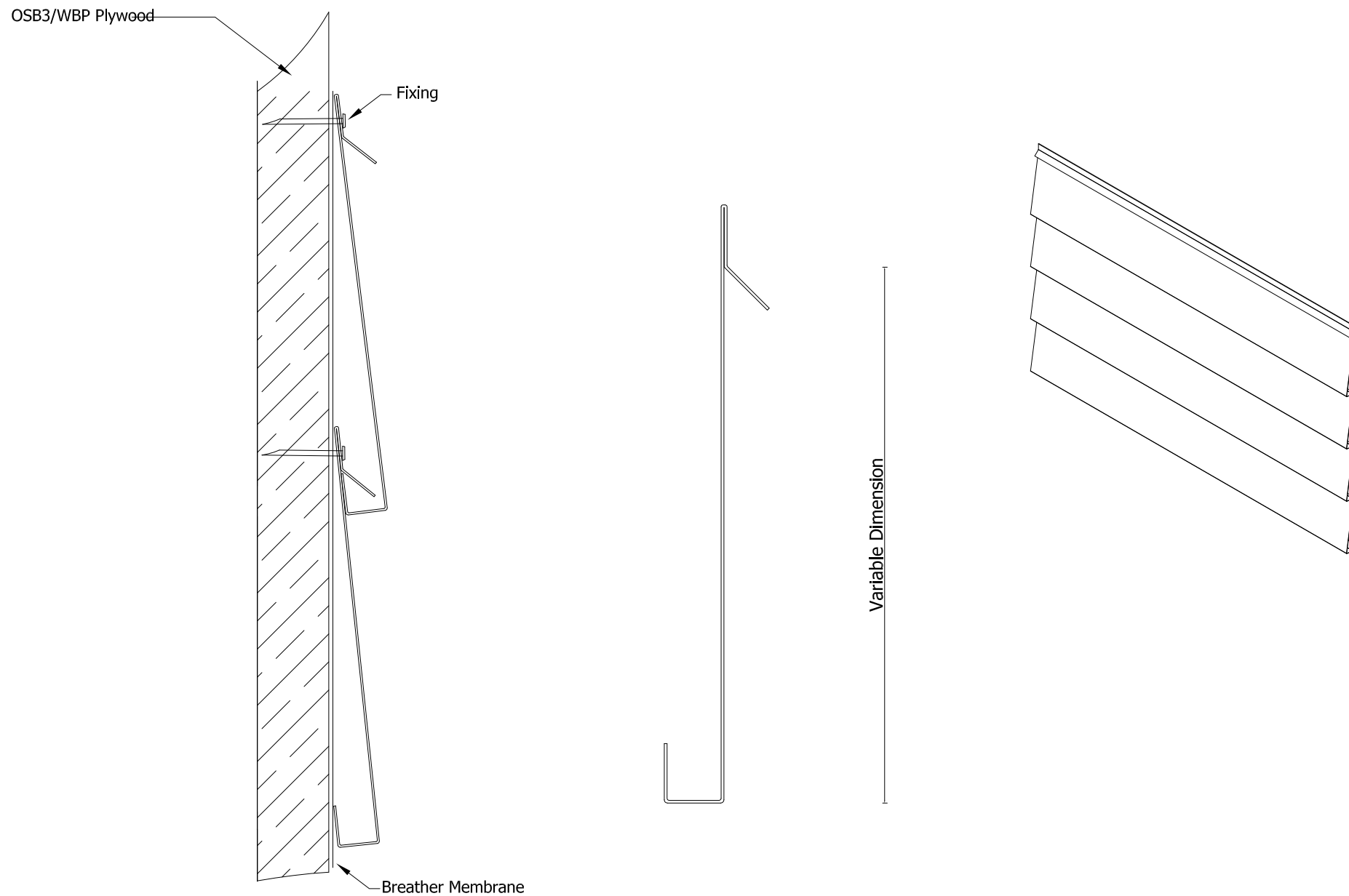
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Title

Weatherboard

Drawing No.

ASU027

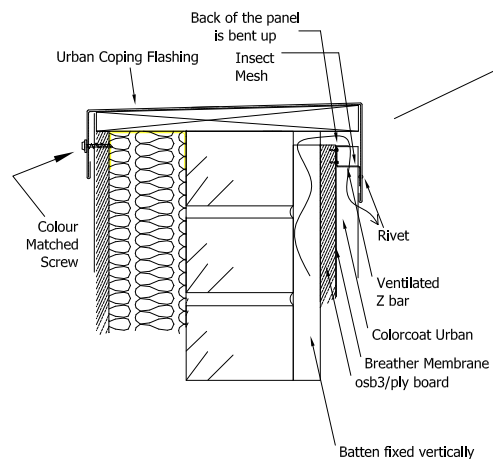
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Detail round doors and window

1 .Top Drip

Coating Side

1.1Bottom Drip

Coating Side

2. Side Window Reveal

Coating Side

Coating Side

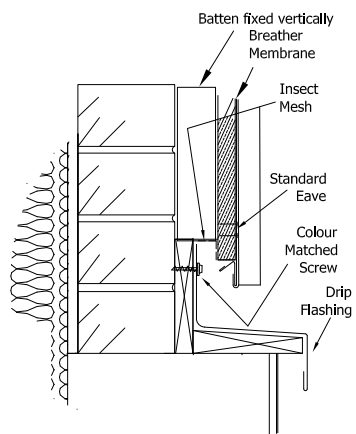
3. Bottom Drip

Coating Side

Standard Z bar

4. For Window Sill

Detail round base doors



Standard Z bar

Breather Membrane

Colorcoat Urban

Bent Bar/Shallow Z bar

External Corner



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Title

Wall Details

Drawing No.

ASU030

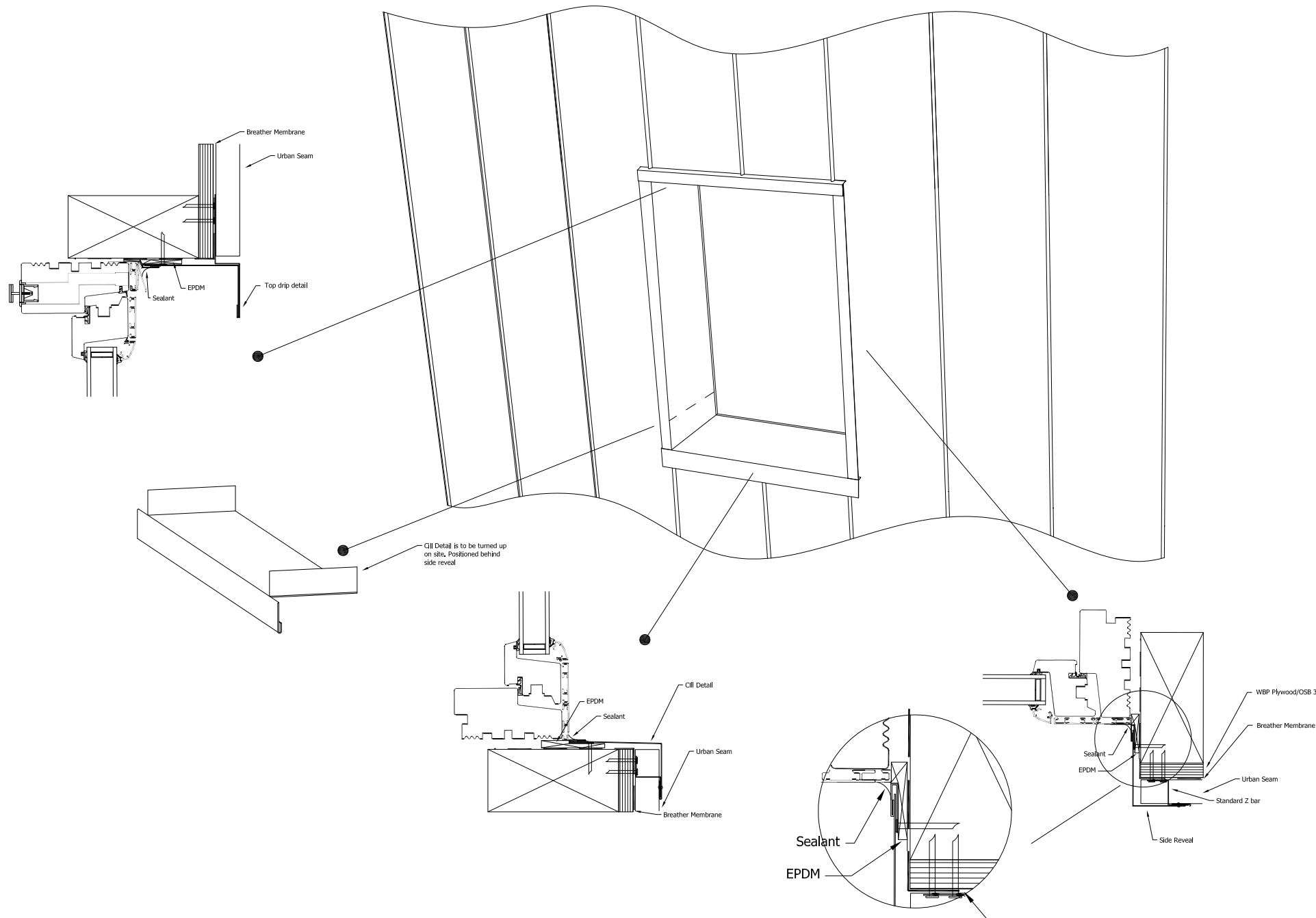
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Title

Window Detail

Drawing No.

ASU031

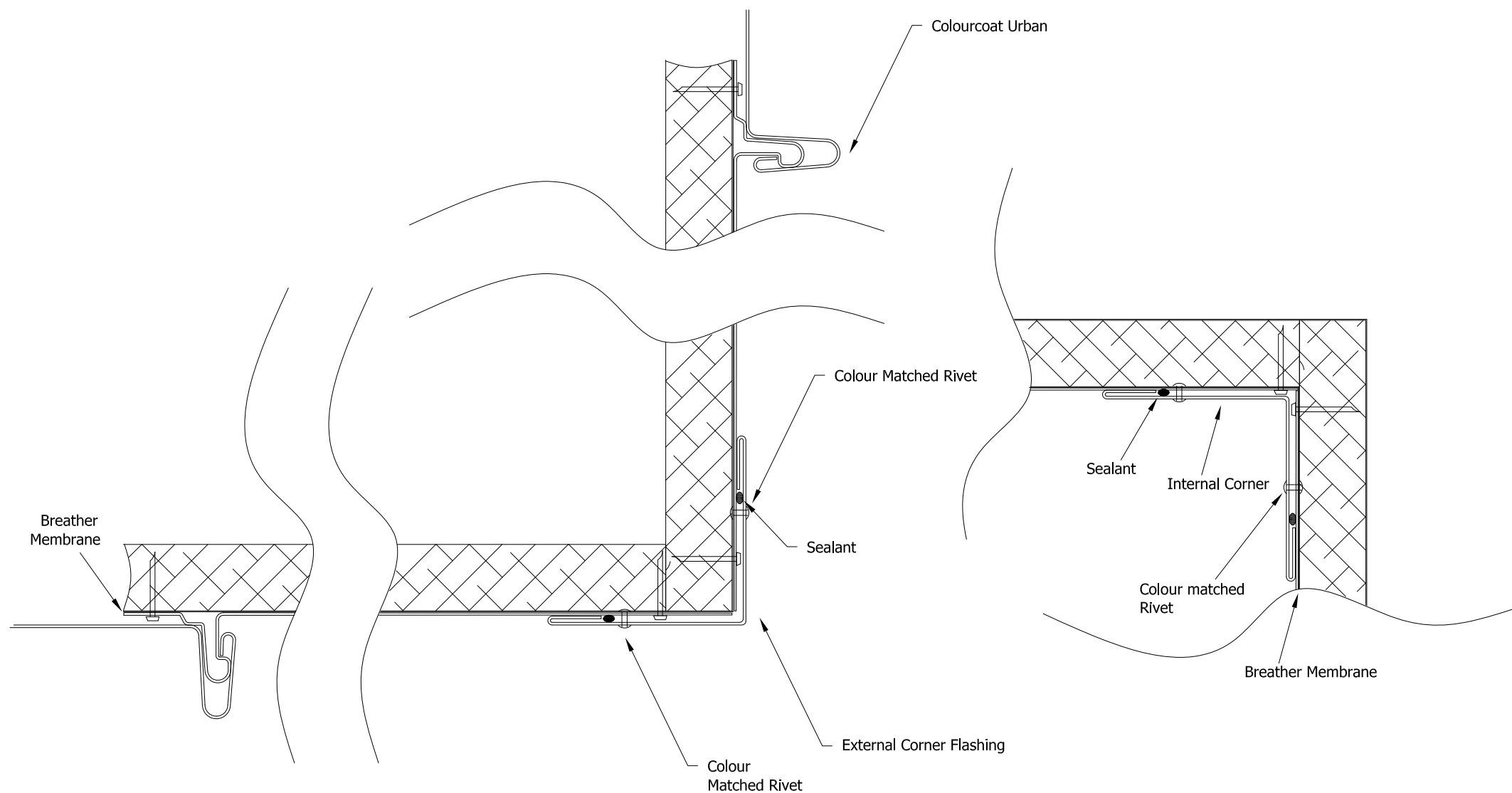
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Title

External and Internal Corner

Drawing No.

ASU032

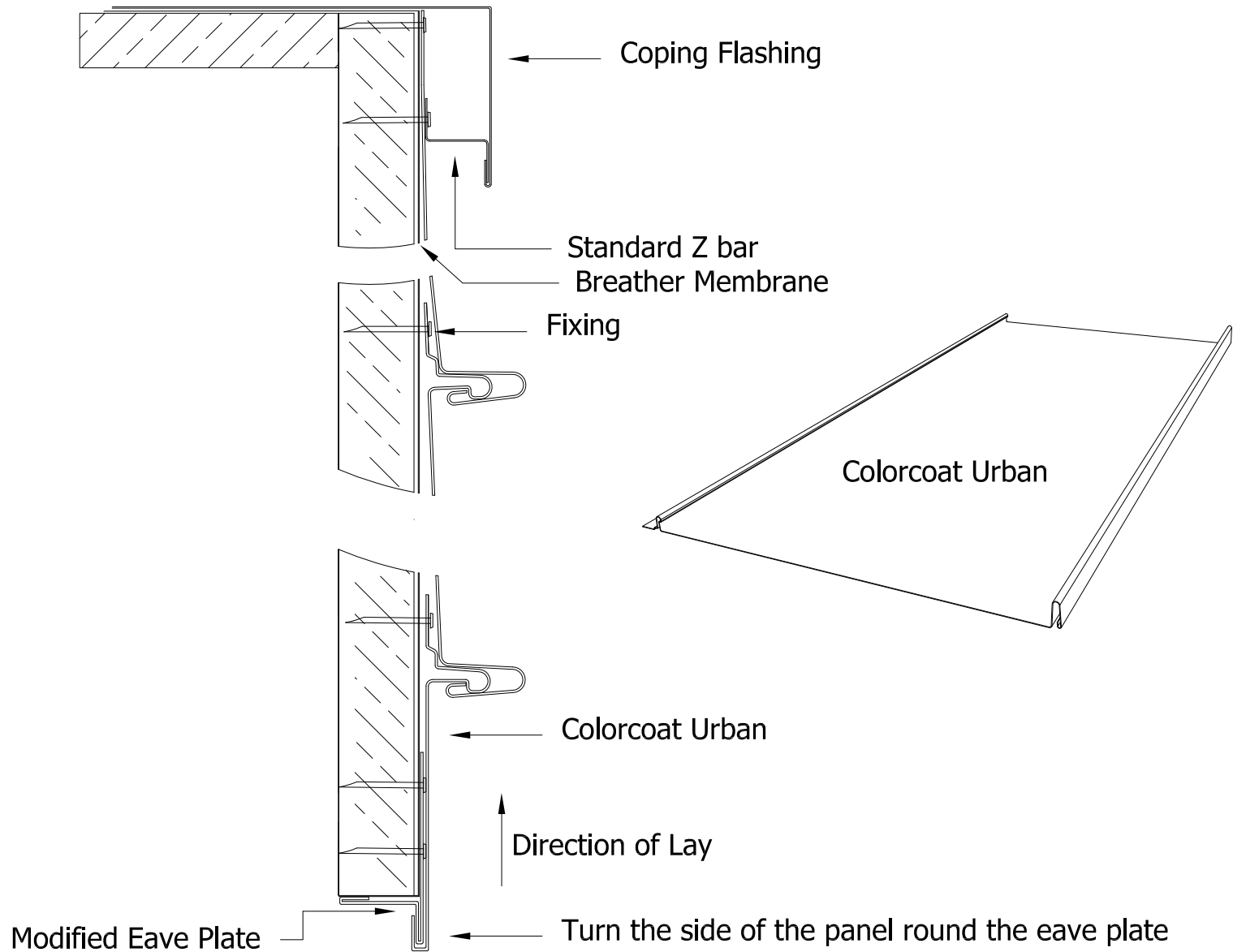
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Title

Laying panels horizontally

Drawing No.

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