ALICLAD MAX

|| VERTICAL ||
ALPHA RAIL

HIGH PERFORMANCE ALUMINIUM
WEATHERBOARD SYSTEM

THE BUILDING AGENCY
MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX

The Building Agency is the exclusive distributor of a cultivated selection of well-respected brand name cladding and roofing products and systems.

The Building Agency's focus is to ensure correct and comprehensive selections from our product and system ranges and to assist with design, specification and delivery of high performance buildings.

The Building Agency introduces our newly developed - Aliclad Max System

Performance and aesthetics find a perfect balance in the latest contemporary aluminium cladding system designed in Australia for our local conditions.

The tough Australia climate calls for exterior products that can perform in all weather conditions, meet the most stringent code and standards, and bring elegance and architectural integrity.

AliClad Max System, designed by The Building Agency, is a premium aluminium weatherboard system that has had every detail and feature designed, tuned and resolved. Backed by decades of local experience and international product knowledge, AliClad Max System offers architects, builders and developers a robust and beautifully finished product, supported on an easy-to-install fixing system engineered to perform.

Designed for large-scale commercial projects with a residential application.
Designed for:

WEATHER-TIGHTNESS: The system has been designed in line with BCA has been tested to AS/NZS4284:2008.

STRUCTURE: The AliClad Max System is designed for buildings in wind zones from Low to Extra High Wind loadings and engineered to be fixed at maximum span distances for easier application and reduced project costs.

FIRE PROTECTION: Aluminium is defined as non-combustible and when correctly specified the support system forms a limited / non-combustible wall assembly. AliClad Max is tested for buildings over 25m in total height by a full-scale system fire performance test to BR135 and BS8414.

FINISH AND AESTHETICS: Sublimated woodgrains, Flat and matt powdercoat options, Anodised, Anodised-look paint finishes, and horizontal and vertical profile alignments achieve both classic and contemporary designs with ease.

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TABLE OF CONTENTS

AliClad Max - Horizontal - Alpha Rail

Detail List

Detail Number

AC-V-AR-DL.2

Version

JAN 2024 [v2.1]

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APPENDIX A - SPAN TABLES

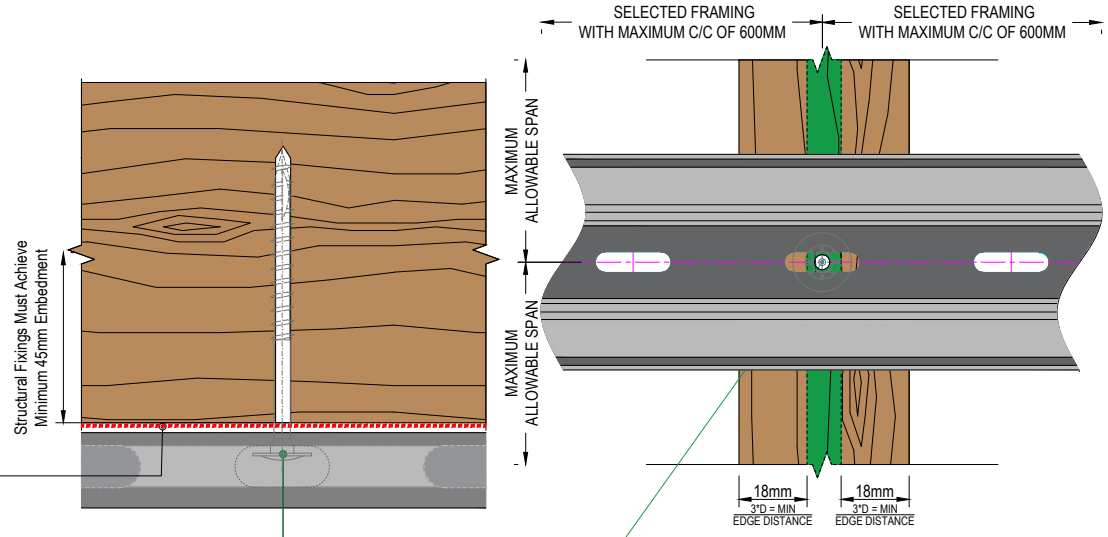
Table 2: Vertically Aligned - Installed on AlphaRail20

WIND ZONE	ALICLAD MAX TYPE				
	V136	V200	S150	S200	S125/75
	MAXIMUM ALLOWABLE SPAN (mm)				
LOW 00m/s-32m/s | <0.6kPa	2200	2200	2200	2200	2200
MEDIUM 32m/s-37m/s | >0.66kPa & <0.88kPa	1600	1600	1600	1600	1600
HIGH 37m/s-44m/s | >0.88kPa & <1.25kPa	1200	1200	1200	1200	1200
VERY HIGH 44m/s-50m/s | >1.25kPa & <1.61kPa	1000	1000	1000	1000	1000
EXTRA HIGH 50m/s-55m/s | >1.61kPa & <1.9kPa	800	800	800	800	800
SPECIFIC ENGINEERING DESIGN >55m/s | >1.9kPa	SED	SED	SED	SED	SED

1. C4 Evo TBS680 Flange Head Screw TX30 (≥ 45mm minimum embedment, Ø4mm Pre-drill, 3*D Edge Distance)
2. AlphaRail20 - 20mm Aluminium cavity battens, fixed at every stud at 600mm o/c
3. Wind Zone Classifications - ULS , considered in Positive(+) Pressure and Negative(-) Suction

** Design Assumptions:*

1. The wind pressures are for external wind only. Internal pressures will not be applied to the cladding and assumed to be resisted by the internal lining.
2. Load on each panel is uniformly distributed.
3. The span/deflection limit for SLS wind load is 250mm for aluminium battens/zincalume top hats and L/175 for the AliClad Max boards, with the serviceability wind load equal to 68% of the ULS wind load.
4. SS304 10g x 19mm HexTek SD Screw 10mm Hex (AliClad board to AlphaRail 20/Zincalume tophat.)
5. Timber is assumed Radiata Pine (*Group J4 for withdrawal, group 5 in shear, with a characteristic density in excess of 420kg/m^3).*
   - 5.1. Timber studs at 600mm o/c and
   - 5.2. timber nogs/dwangs at 800mm o/c and
6. For Edge Distances Framing fixing face thickness is assumed as 45mm



Selected Building Flexible Membrane/RAB/RWU.

Fixings for Horizontal Alpha Rail @ Each Nog = 800mm MAX C/C or less as appropriate to site wind zone & bracing requirements.

ALL Fixings for Vertical Alpha Rail pre-drilled Ø4mm before fixing

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PARTS LIST

CLADDING PROFILES

ACV136 - AliClad Max V136, 136x25 V Shiplap Weatherboard, 5.8m.
ACV200 - AliClad Max V200, 200x25 V Shiplap Weatherboard, 5.8m.
ACS150 - AliClad Max S150, 150x25 Shadow Groove Weatherboard, 5.8m.
ACS200 - AliClad Max S200, 200x25 Shadow Groove Weatherboard, 5.8m.
ACS125/75 - AliClad Max S200-125/75, 200x25 Shadow Groove Weatherboard with 75mm & 125mm board look, 5.8m.

2 PIECE BASE CLIPS

ACHMDB-58 AliClad Max - H Mould Base, 5.8m.
ACJMDB-58 AliClad Max - J-Mould Base, 5.8m.
ACJMDF-58 AliClad Max - J-Mould Face, 5.8m, Selected Finish.
ACINTB-58 AliClad Max - Internal Corner Base, 5.8m, Selected Finish.
ACEXTB-58 AliClad Max - External Corner Base, 5.8m.
ACJMDBC-58 AliClad Max - Bottom of Cladding Base, 5.8m, Selected Finish.

2 PIECE FACES & TRIMS

ACINTF - AliClad Max - Internal Corner Face, 5.8m.
ACWNS - AliClad Max - Window Sill Face, - to suit WANZ supported window, 5.8m, Selected Finish.
ACWNSP - AliClad Max - Window Sill Face - to suit Punched Window, 5.8m, Selected Finish.
ACJMDF - AliClad Max - J Mould Face, 5.8m, Selected Finish.
ACHMDF - AliClad Max - H Mould Face, 5.8m, Selected Finish.
ACEXTF - AliClad Max - External Corner Face, 5.8m, Selected Finish.

JUNCTION ELEMENTS

ACCLZ-58 AliClad Max - Clamp Zed, 5.8m, Selected Finish.
ACCLC-58 AliClad Max - Clamp Channel, 5.8m, Mill Finish.
ACSTR-58 AliClad Max - Starter Rail, 5.8m, Mill Finish.
ACJMC-58 AliClad Max - Jamb Clip, 5.8m, Mill Finish.
ACJMF-58 AliClad Max - Jamb Flashing, 5.8m, Selected Finish.

MECHANICAL DRAINAGE SYSTEM

ACJMT-01RIGHT AliClad Max - Type 1a Jamb Tray Right
ACJMT-01LEFT AliClad Max - Type 1b Jamb Tray Left
ACJMT-02RIGHT AliClad Max - Type 2a Jamb Tray Right
ACJMT-02LEFT AliClad Max - Type 2b Jamb Tray Left

ALPHA RAIL SUPPORT SYSTEM PROFILES

AR-CLIP100 Alpha Rail Packer Clip 10mm, 50mm.
AR-CLIP50 Alpha Rail Packer Clip 5mm, 50mm.
AR-CLIP30 Alpha Rail Packer Clip 3mm, 50mm.
AR-CLIP16 Alpha Rail Packer Clip 1.6mm, 50mm.
AR-RAIL20H Alpha Rail Vertical Rail 20mm, 5.8m.
AR-RAIL20V Alpha Rail Horizontal Rail 20mm, Drained, 5.8m.

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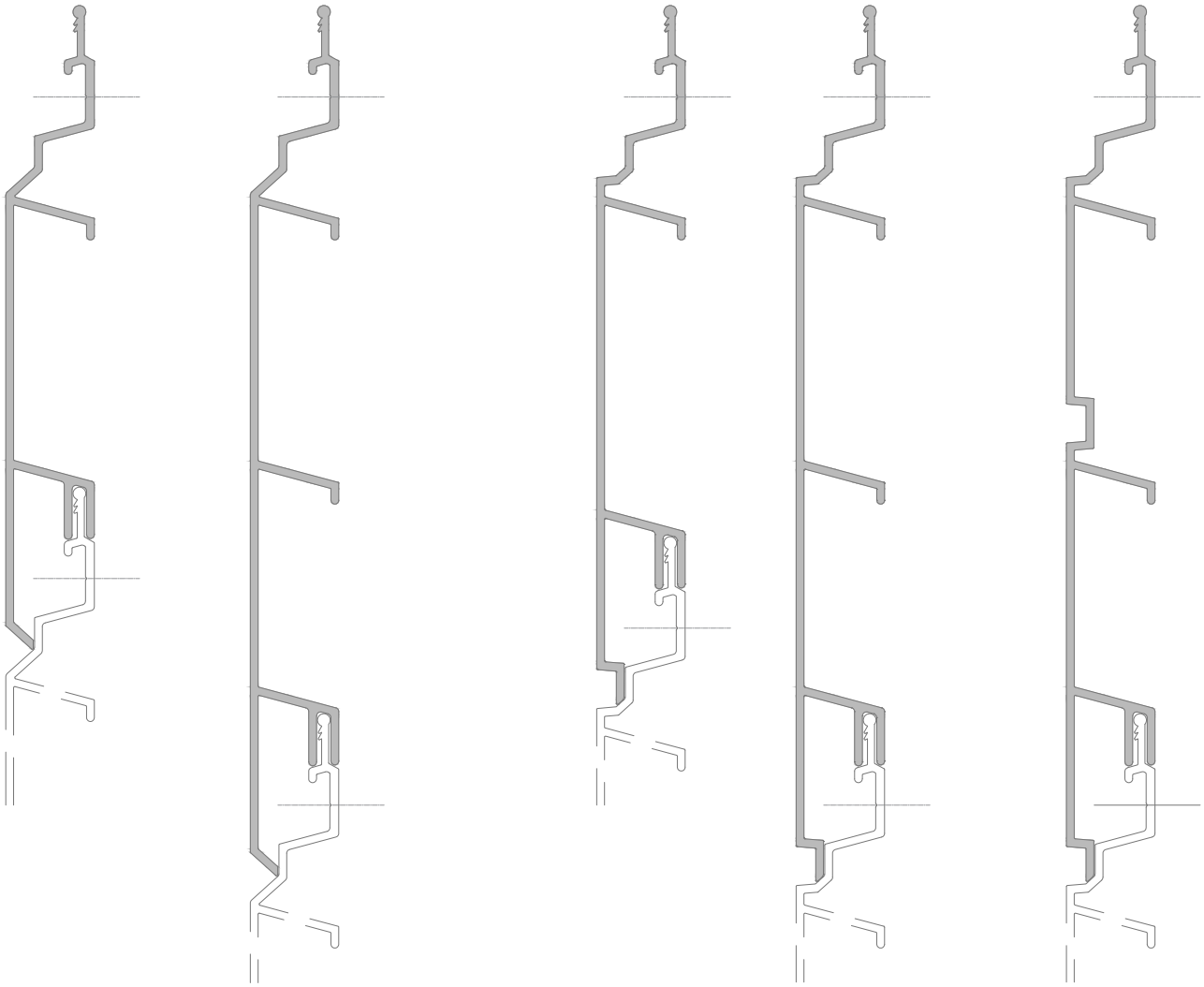
CLADDING PROFILES

HIGH PERFORMANCE ALUMINIUM
WEATHERBOARD SYSTEM

2.1

V136 V200 S150 S200 S125-75



V
VEE - GROOVE

S
SQUARE - GROOVE

Extruded Profiles - Cladding

Detail Number

AC-PRO-01

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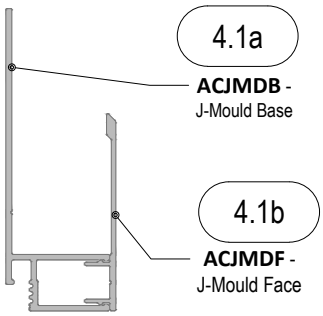
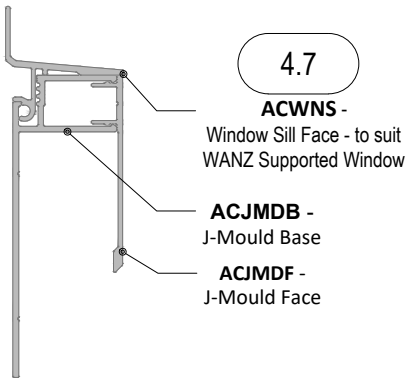
TRIMS - PROFILES

TYPICAL ASSEMBLIES

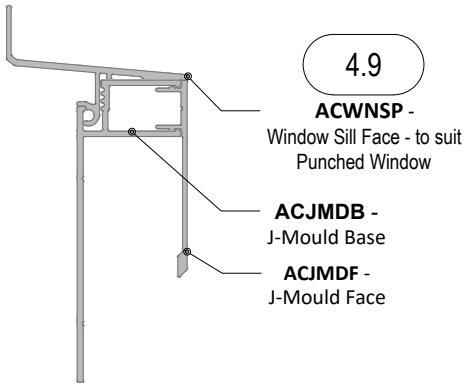
J-MOULD



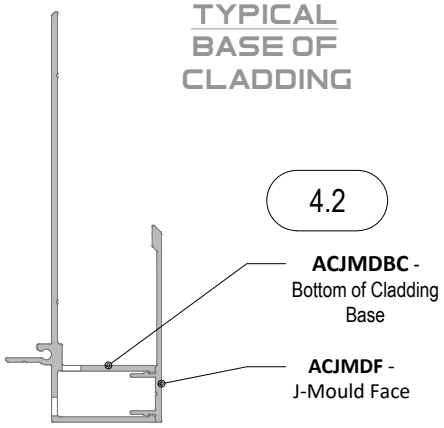
WANZ WINDOW SILL



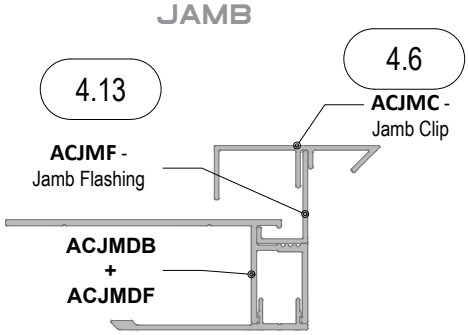
PUNCHED WINDOW SILL



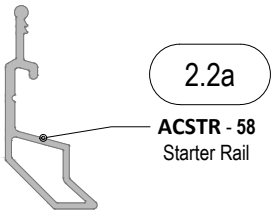
TYPICAL BASE OF CLADDING



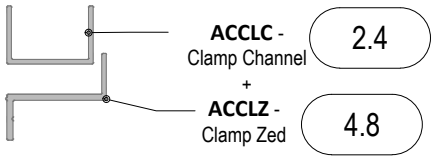
TYPICAL JAMB



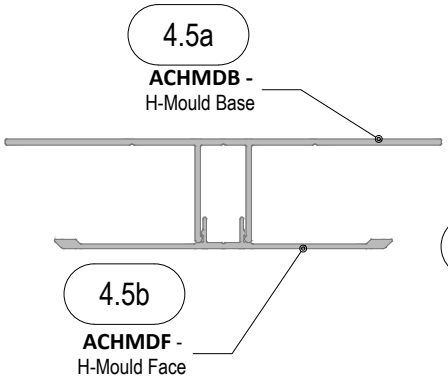
STARTER



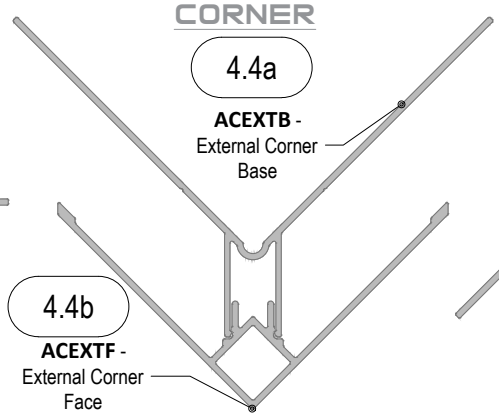
ENDER



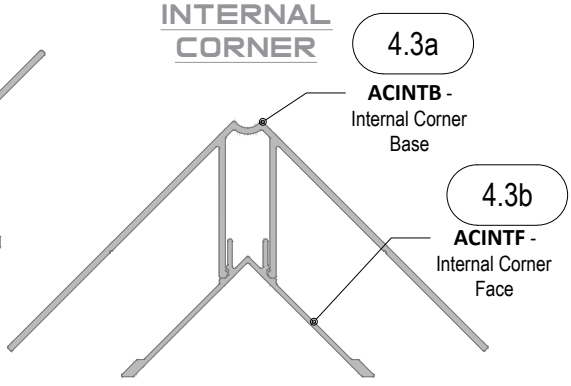
TYPICAL VERTICAL H-JOINT



EXTERNAL CORNER



INTERNAL CORNER



Extruded Profiles - Trims

Detail Number

AC-PRO-2

Version

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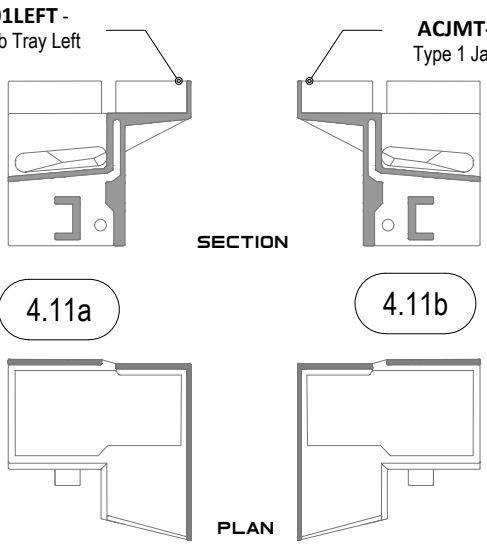
MECHANICAL DRAINAGE SYSTEM

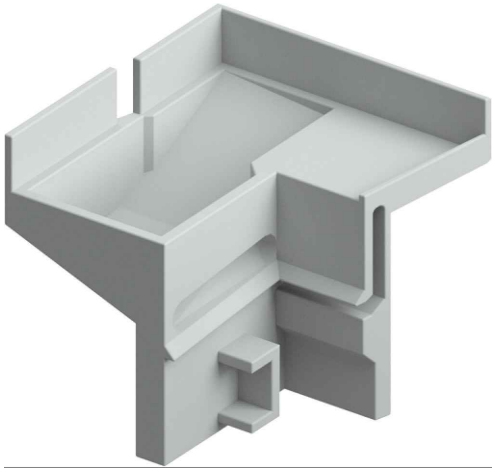
PROPRIETARY JAMB-TO-SILL DRAINAGE CLIPS - AVAILABLE IN WHITE, GREY AND BLACK.

TYPE I - FOR WINDOWS USING WANZ BAR SUPPORT

ACJMT-01LEFT -
Type 1 Jamb Tray Left

ACJMT-01RIGHT -
Type 1 Jamb Tray Right

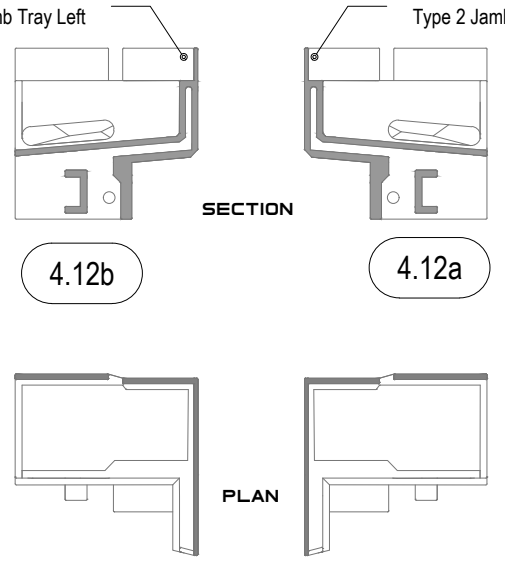


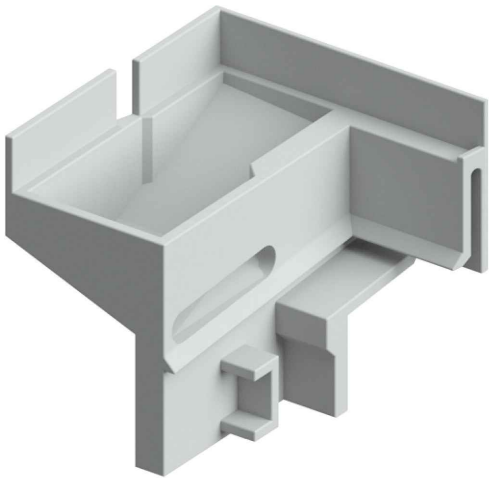


TYPE II - FOR PUNCHED OR RECESSED WINDOWS

ACJMT-02LEFT -
Type 2 Jamb Tray Left

ACJMT-02RIGHT -
Type 2 Jamb Tray Right





Mechanical Drainage System Parts

Detail Number

AC-V-AR-ACC-01

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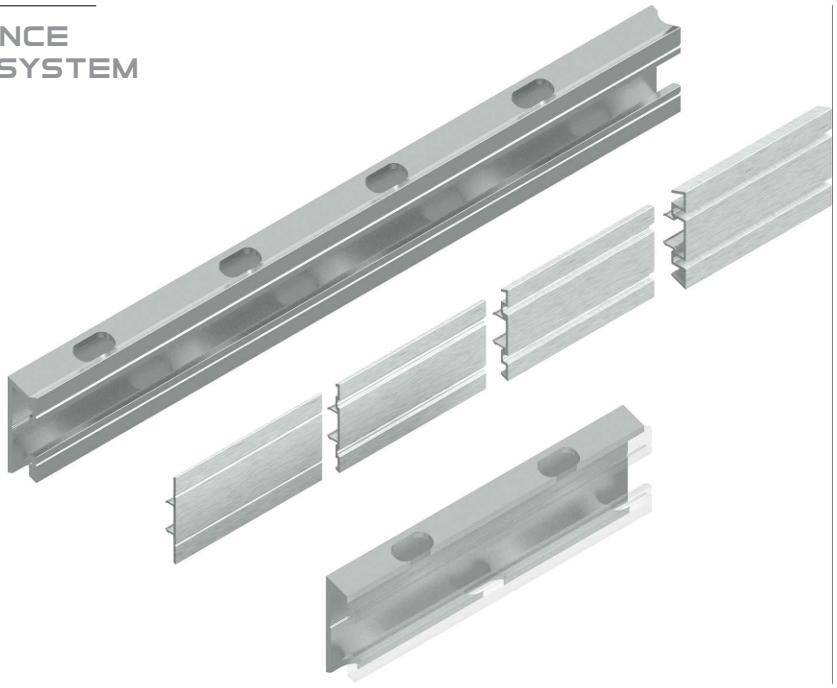
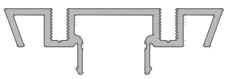
ALPHA RAIL SYSTEM

HIGH PERFORMANCE ALUMINIUM BATTEN SYSTEM PROFILES



3.1d



ALPHA CLIP 10MM
Order Code: AR-Clip100

3.1c

ALPHA CLIP 5MM
Order Code: AR-Clip50

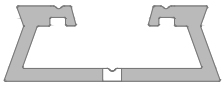
3.1b

ALPHA CLIP 3MM
Order Code: AR-Clip30

3.1a

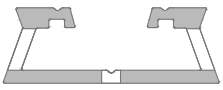
ALPHA CLIP 1.6MM
Order Code: AR-Clip16

3.1



ALPHA RAIL 20MM - 5.8LM
Order Code: AR-Rail20V

3.1



ALPHA RAIL 20MM - 5.8LM
Order Code: AR-Rail20H

Alpha Rail System

Detail Number

AC-V-AR-ACC-02

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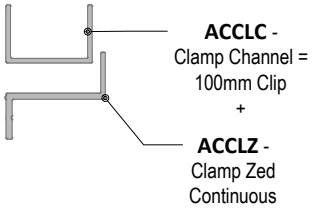
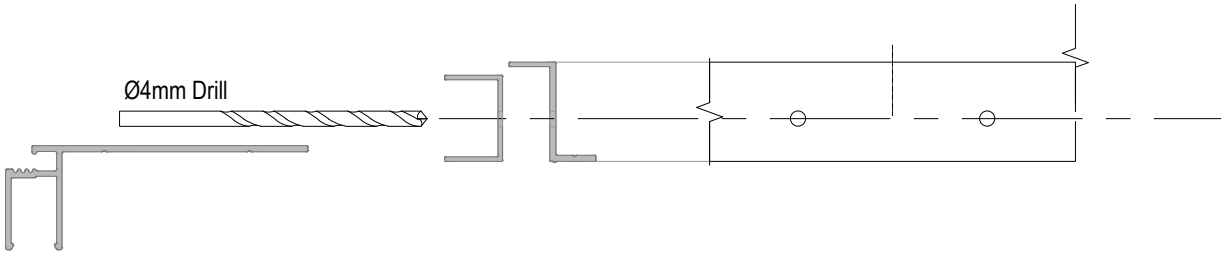
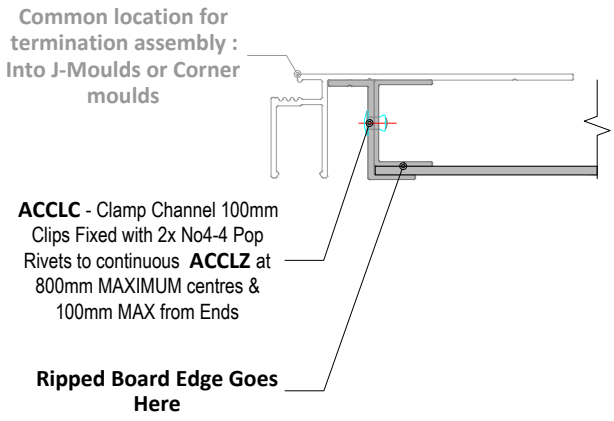
PROCESSING - RIPPED WEATHERBOARD TERMINATION







General Processing

Detail Number

AC-GP-1

Version

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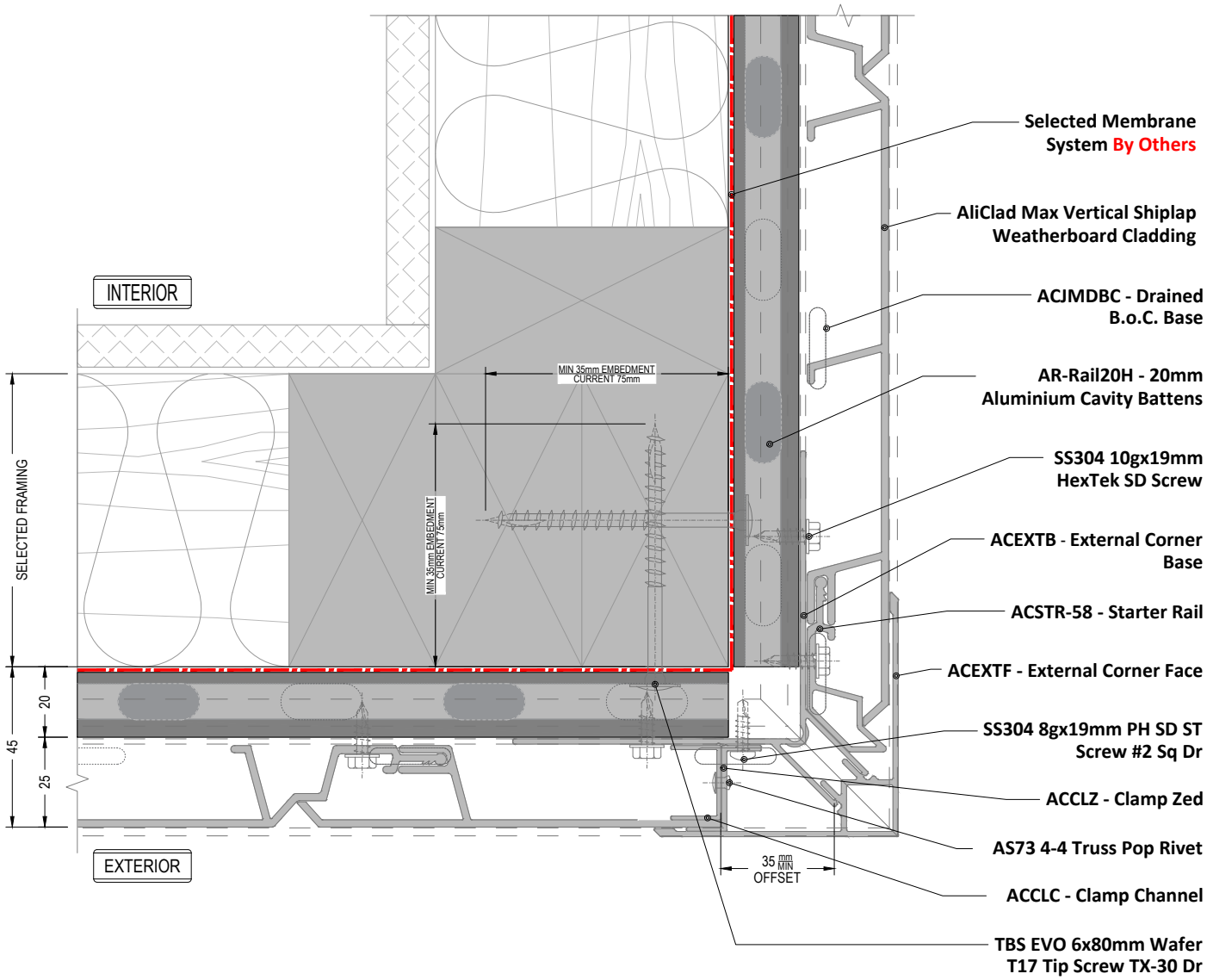

NOTE 1
ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"
NOTE 2
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

External Corner

Detail Number

AC-V-AR-1.1

Version

JAN 2024 [v2.3]

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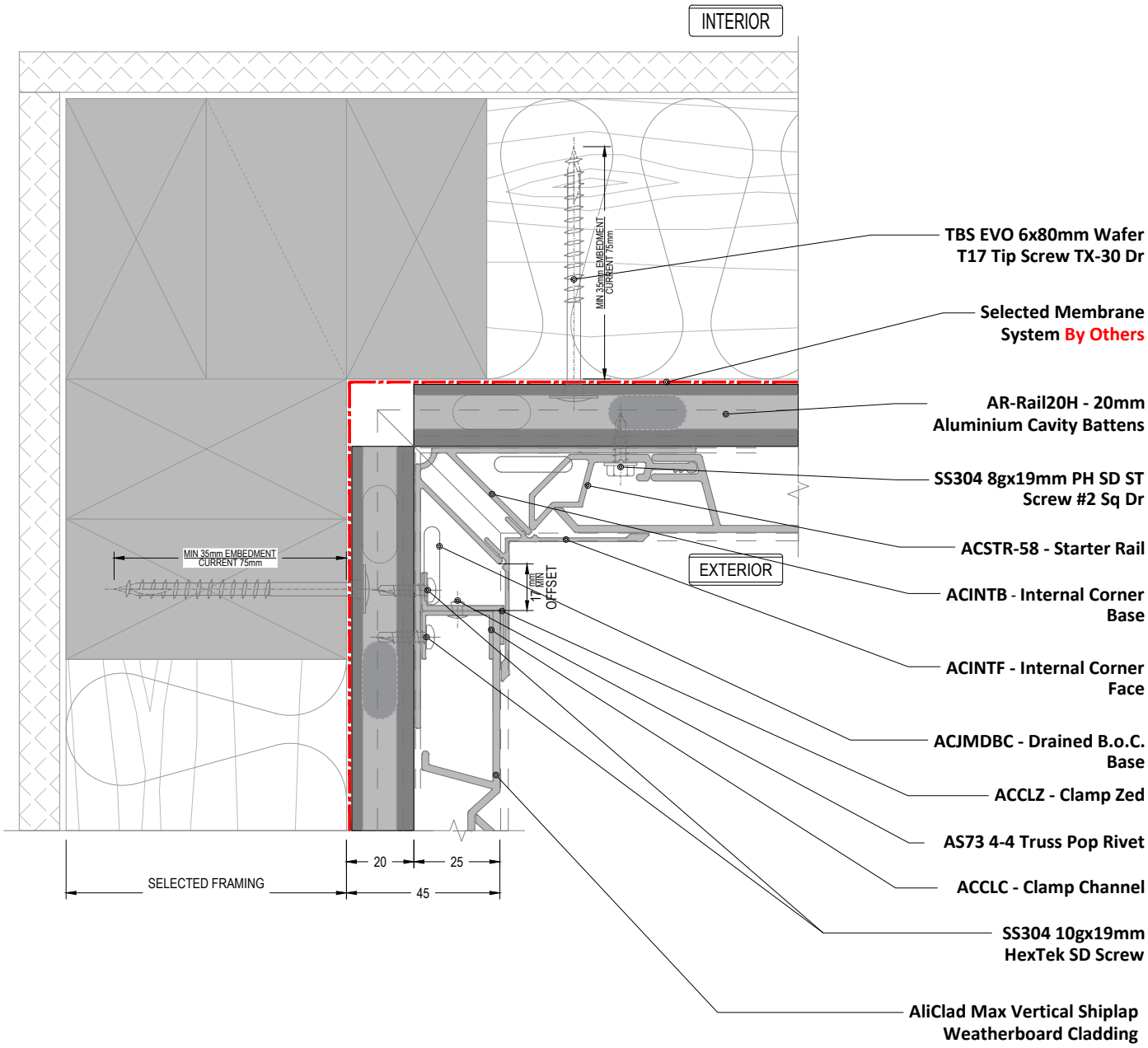

NOTE
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

Internal Corner

Detail Number

AC-V-AR-1.2

Version

JAN 2024 [v2.3]

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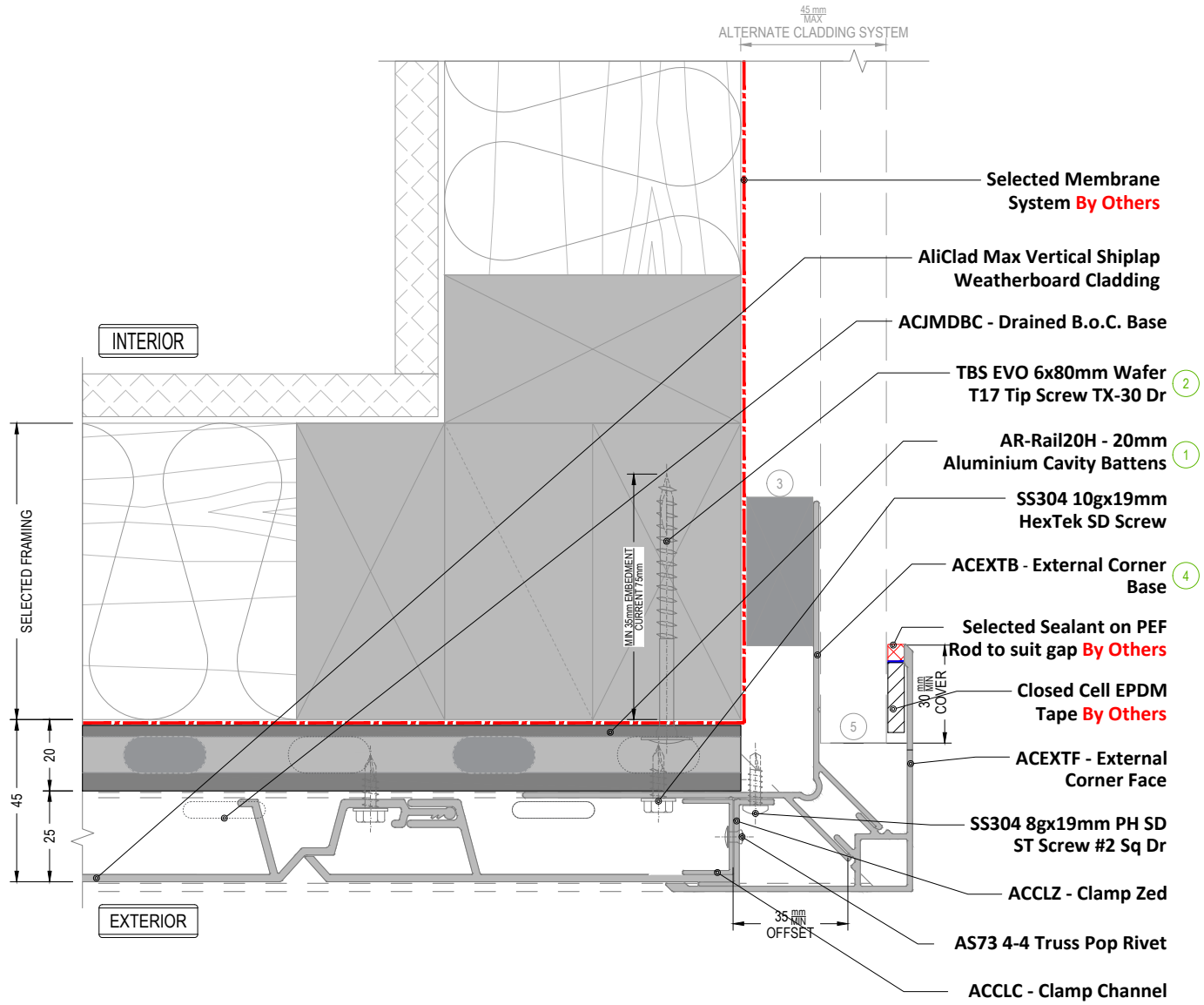

NOTE 1
ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"
NOTE 2
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

SEQUENCE OF INSTALLATION

1. AR-Rail20H - 20mm Aluminium Cavity Battens
2. TBS EVO 6x80mm Wafer T17
3. Alternate Support Structure
4. External Corner Base
5. Alternate Cladding Exterior

Ext Cnr_SML Cladding Type

Detail Number

AC-V-AR-1.3

Version

JAN 2024 [v2.3]

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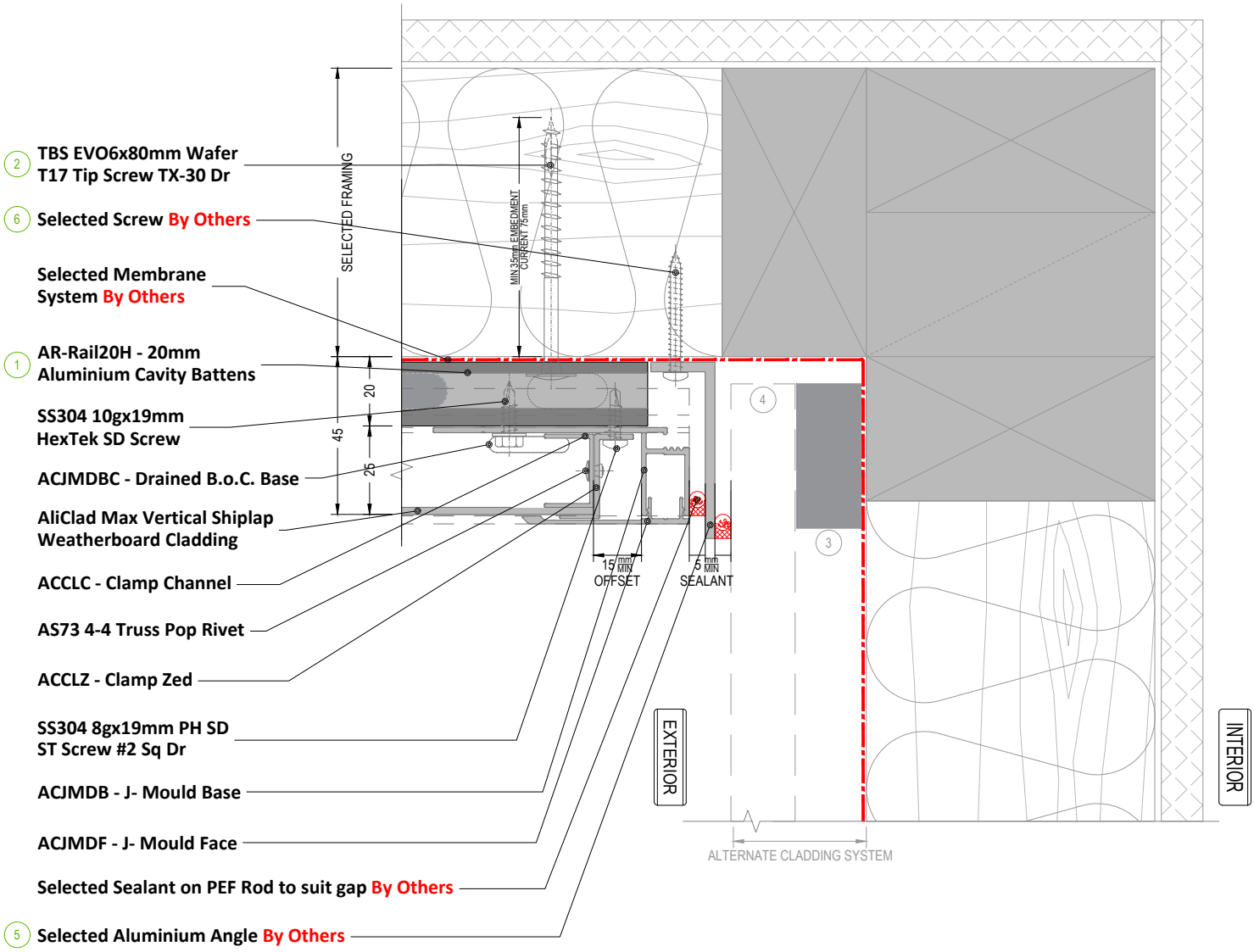

NOTE

ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"

NOTE 2

Flashings and Angles are not included in the system

SEQUENCE OF INSTALLATION

1 AR-Rail20H - 20mm Aluminium Cavity Battens, 2 TBS EVO 6x80mm Wafer T17, 3 Alternate Support Structure, 4 Alternate Cladding Exterior, 5 Selected Aluminium Angle **By Others**, 6 Selected Screw **By Others**

Int Cnr_SML Cladding Type

Detail Number

AC-V-AR-1.4

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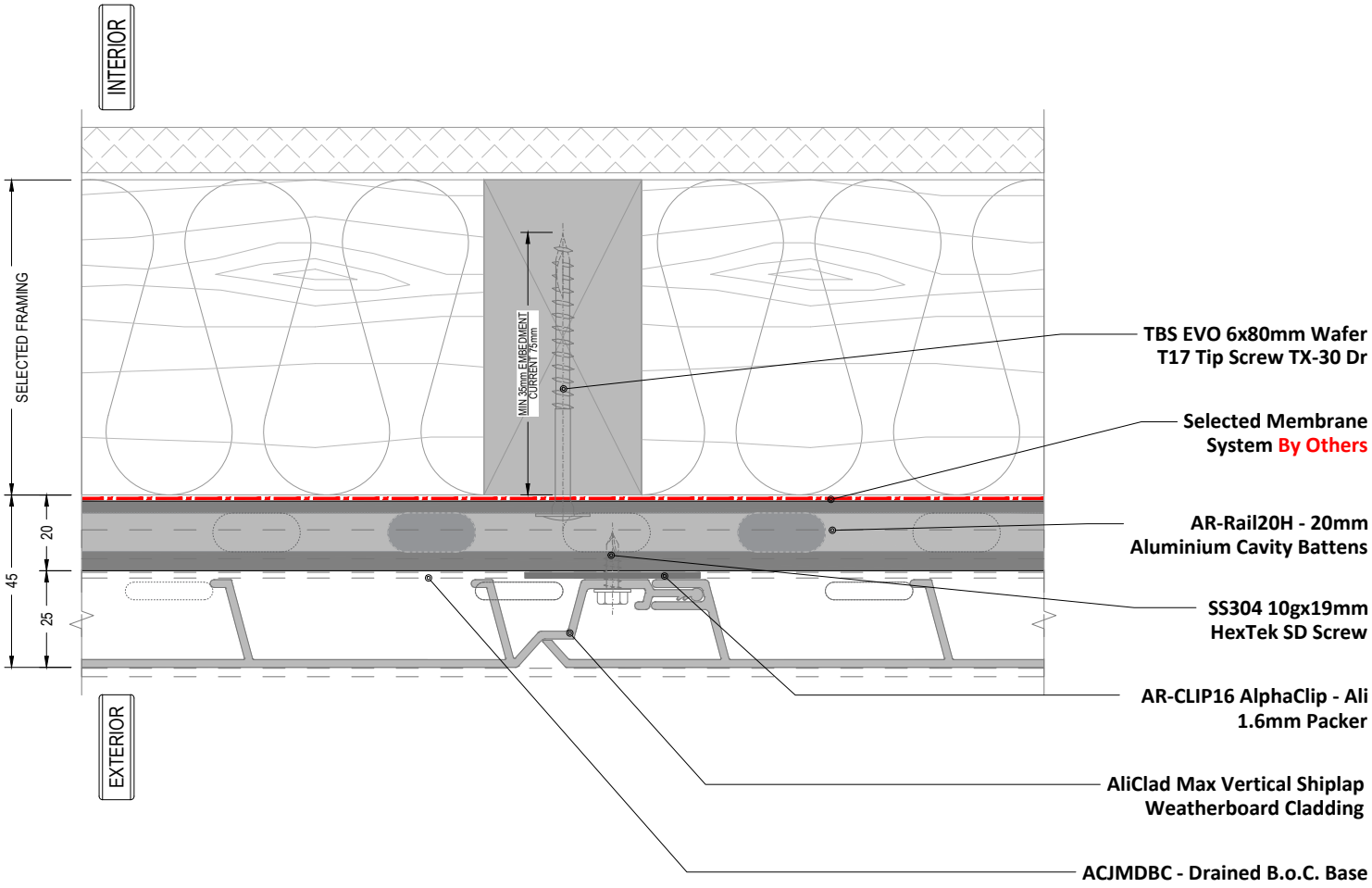

NOTE
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

Vertical Joint - Typical

Detail Number

AC-V-AR-2.1

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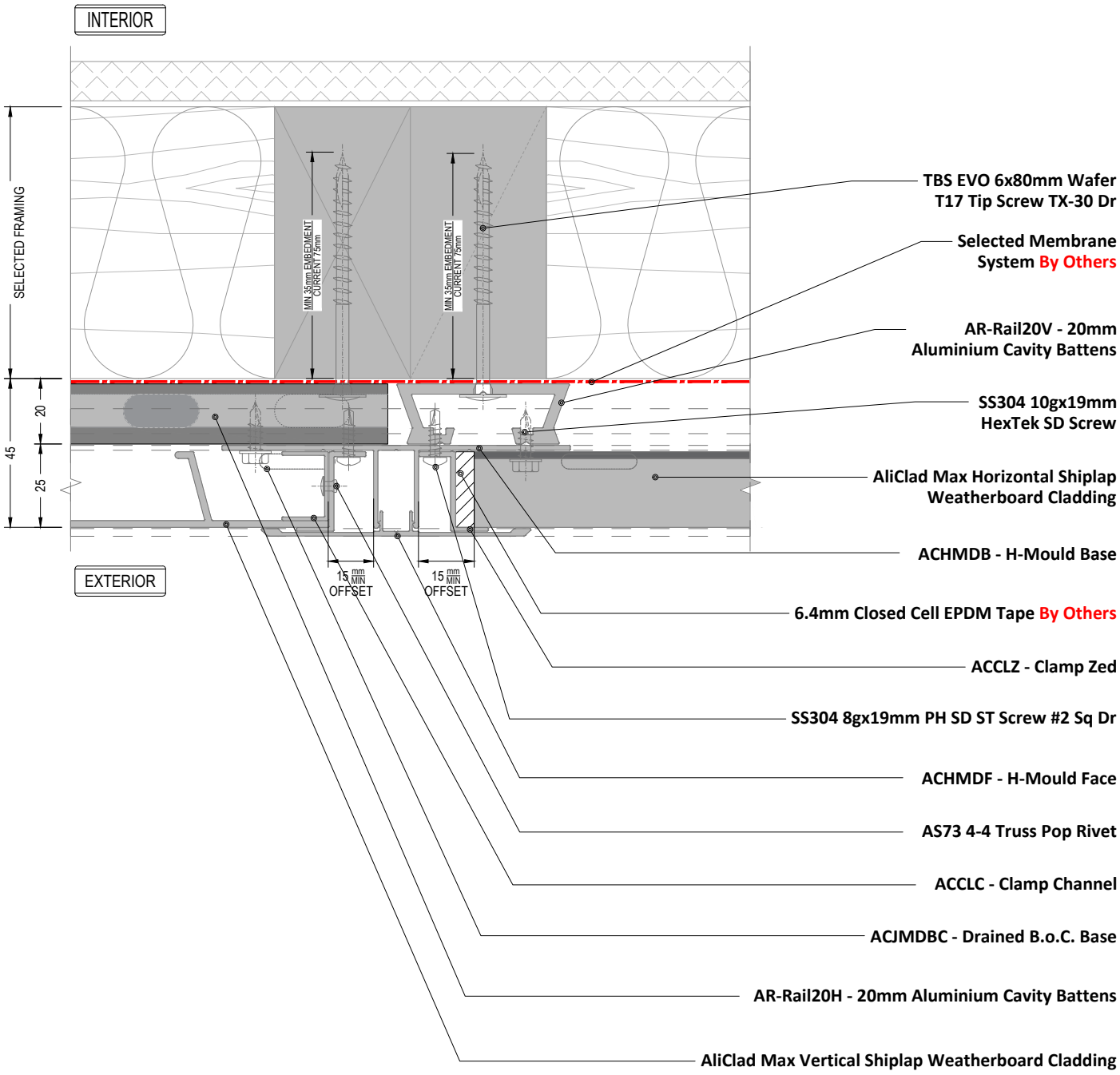

NOTE 1
ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"

NOTE 2
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

NOTE 3
Additional Framing is required at junction of cladding types to ensure adequate fixing

Vert. Joint_Orientation Change

Detail Number

AC-V-AR-2.2

Version

JAN 2024 [v2.3]

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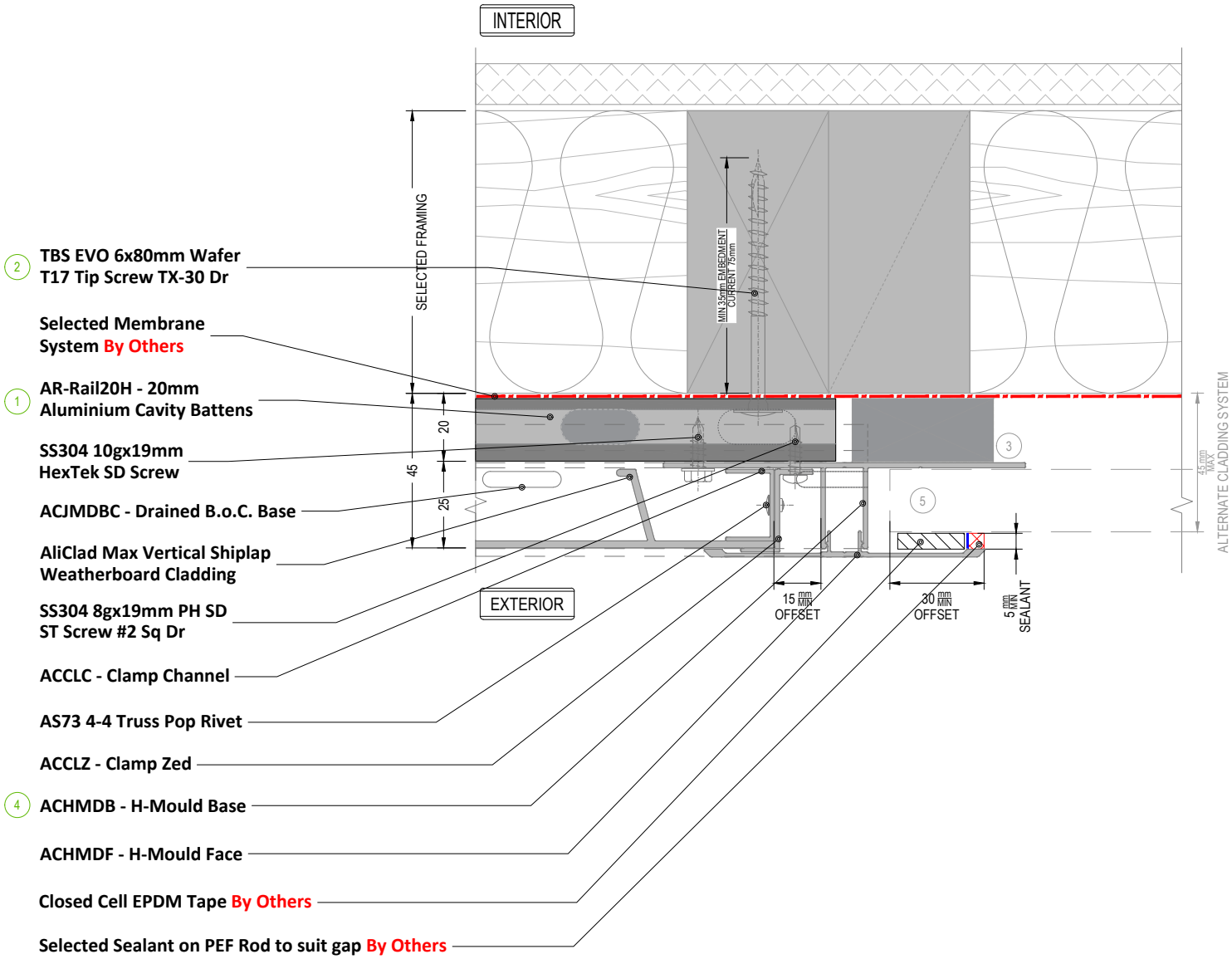

NOTE 1
ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"

NOTE 2
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

NOTE 3
Additional Framing is required at junction of cladding types to ensure adequate fixing

SEQUENCE OF INSTALLATION

1 AR-Rail20H - 20mm Aluminium Cavity Battens → 2 TBS EVO 6x80mm Wafer T17
3 Alternate Support Structure → 4 ACHMDB - H-Mould Base
5 Alternate Cladding Exterior

Vert. Joint_SML Cladding Type

Detail Number

AC-V-AR-2.3

Version

JAN 2024 [v2.3]

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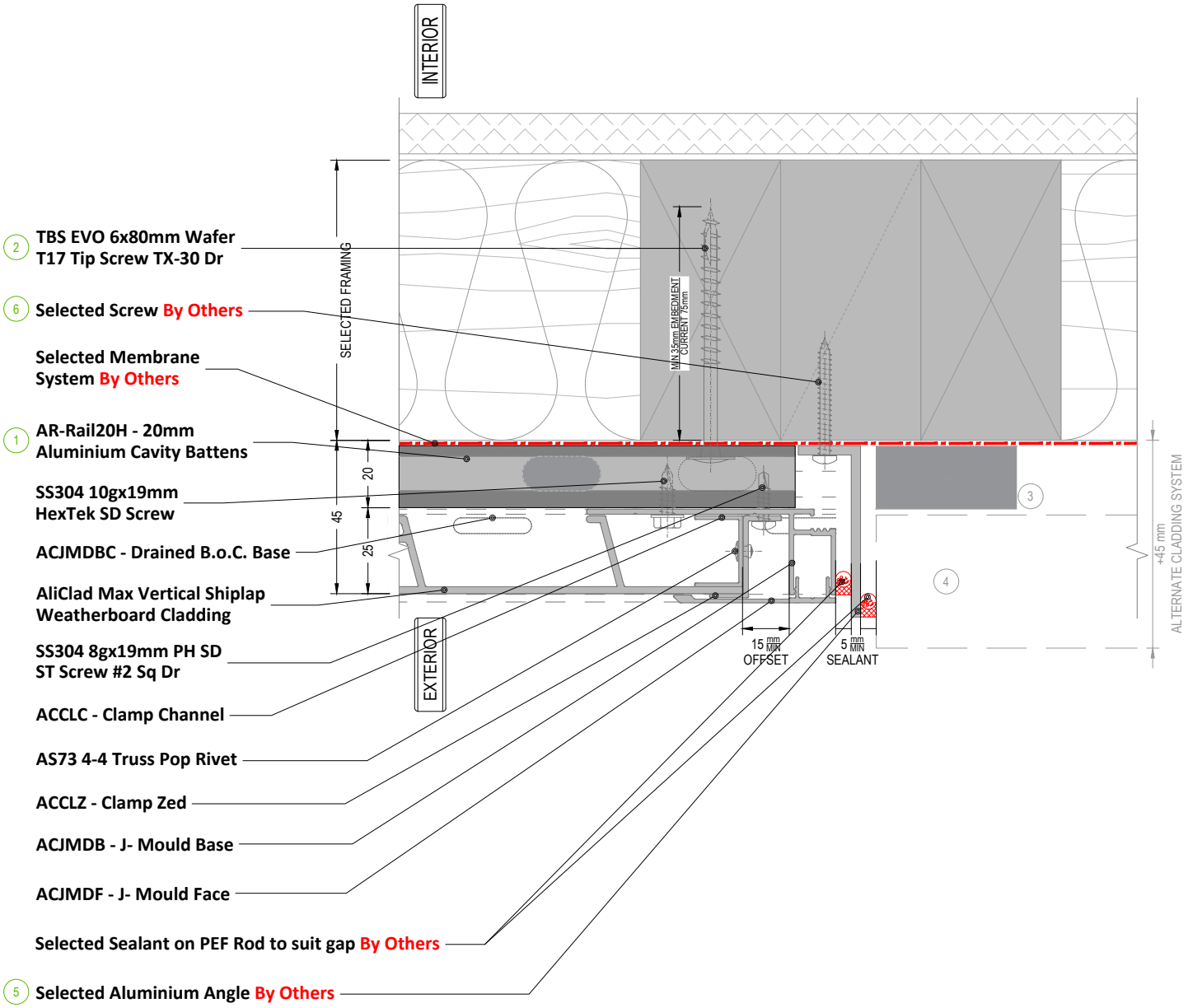


NOTE 1
ACCLC Clamp Channel and ACCLZ Clamp Zed can be pre-assembled with AS73 4-4 Truss Pop Rivet according "AC-GP-1"

NOTE 2
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

NOTE 3
Additional Framing is required at junction of cladding types to ensure adequate fixing

NOTE 4
Flashings and Angles are not included in the system

SEQUENCE OF INSTALLATION

1 AR-Rail20H - 20mm Aluminium Cavity Battens → 2 TBS EVO 6x80mm Wafer T17
3 Alternate Support Structure → 4 Alternate Cladding Exterior
5 Selected Aluminium Angle **By Others** → 6 Selected Screw **By Others**

Vert. Joint_LRG Cladding Type

Detail Number

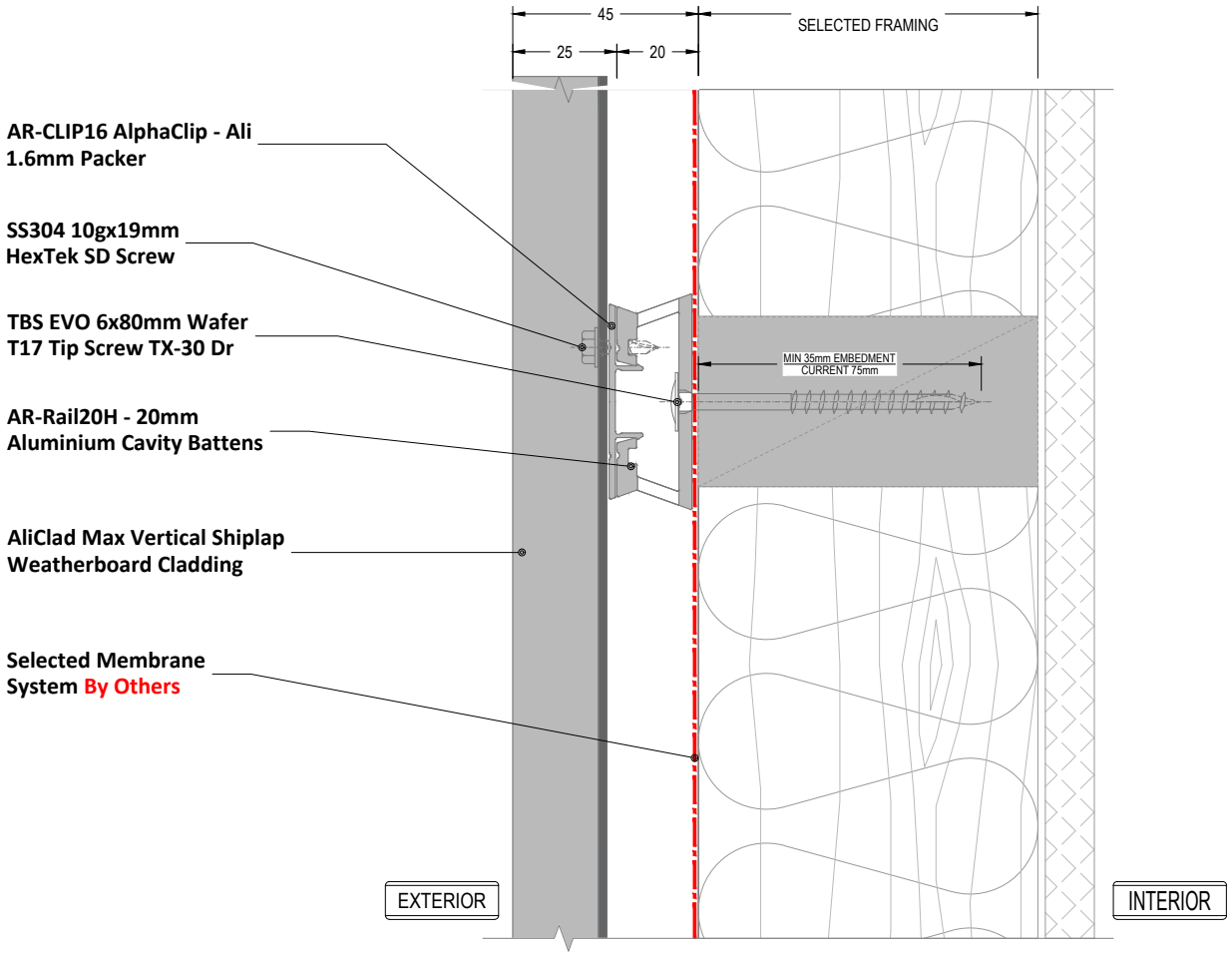
AC-V-AR-2.4

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



Hori. Joint_Typical

Detail Number

AC-V-AR-3.1

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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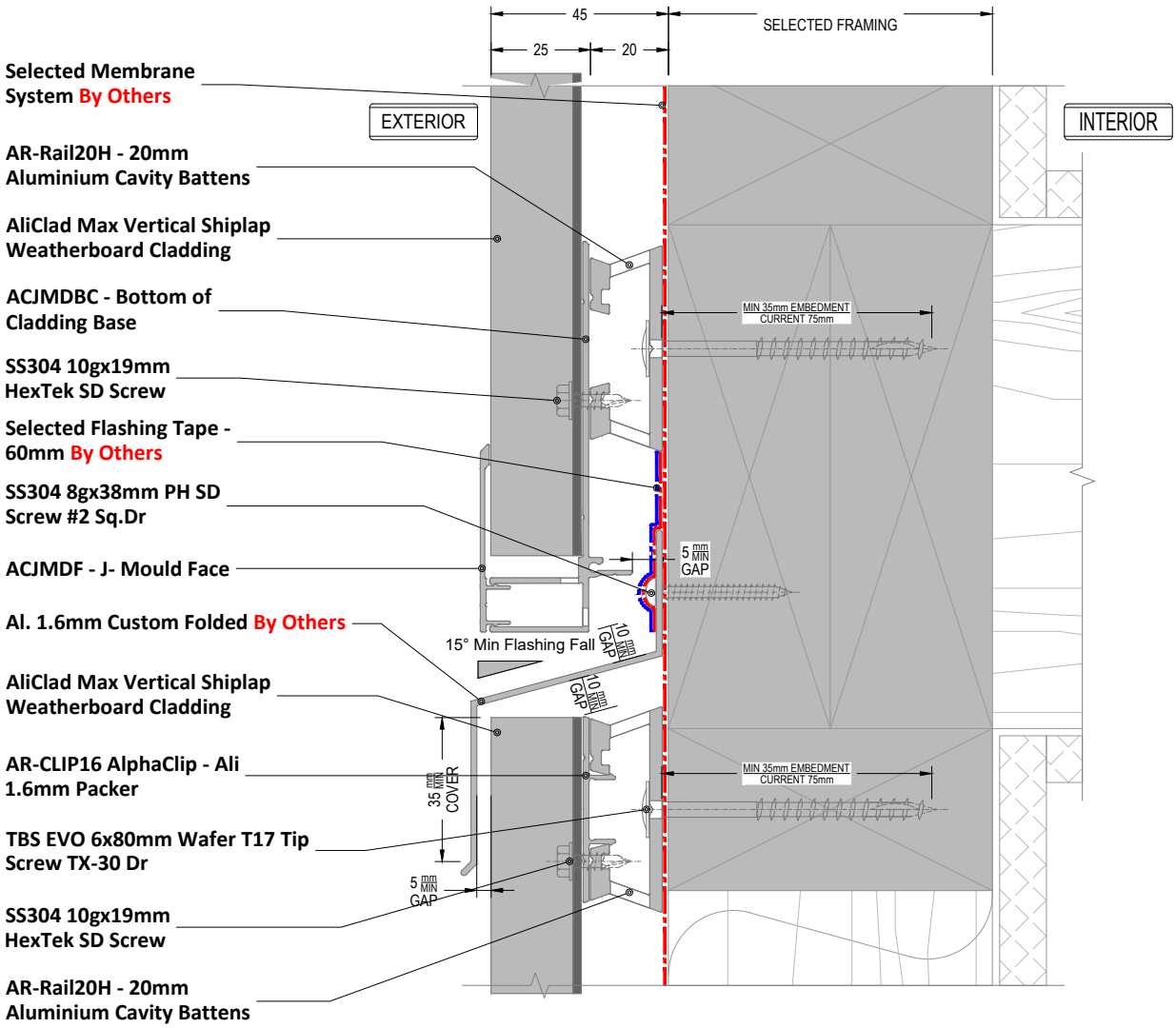
ALICLAD MAX



NOTE

Flashings and Angles are not included in the system

Interstorey Joint

Detail Number

AC-V-AR-3.2

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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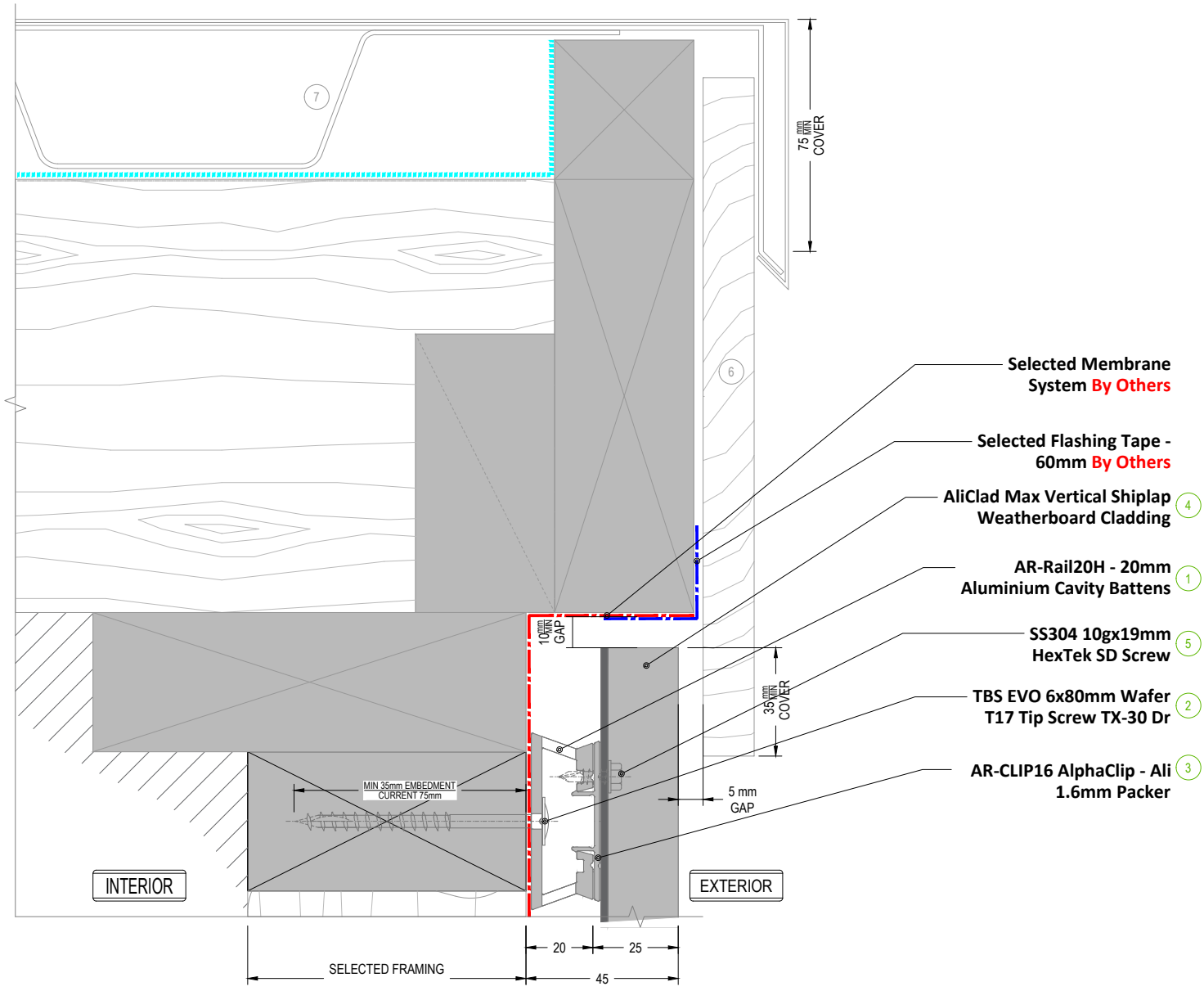
ALICLAD MAX



NOTE 1
ACJMDBC - Drained B.O.C. Base Shown in dashed lines
NOTE 2
Additional Framing is required at junction of cladding types to ensure adequate fixing

SEQUENCE OF INSTALLATION

1. AR-Rail20H - 20mm Aluminium Cavity Battens
2. TBS EVO 6x80mm Wafer T17
3. AlphaClip - Ali 1.6mm Packer
4. Aliclad Max Vertical Shiplap Weatherboard Cladding
5. SS304 10gx19mm HexTek SD Screw
6. Barge Board
7. Roofing System

TOP Cladding_Parapet

Detail Number

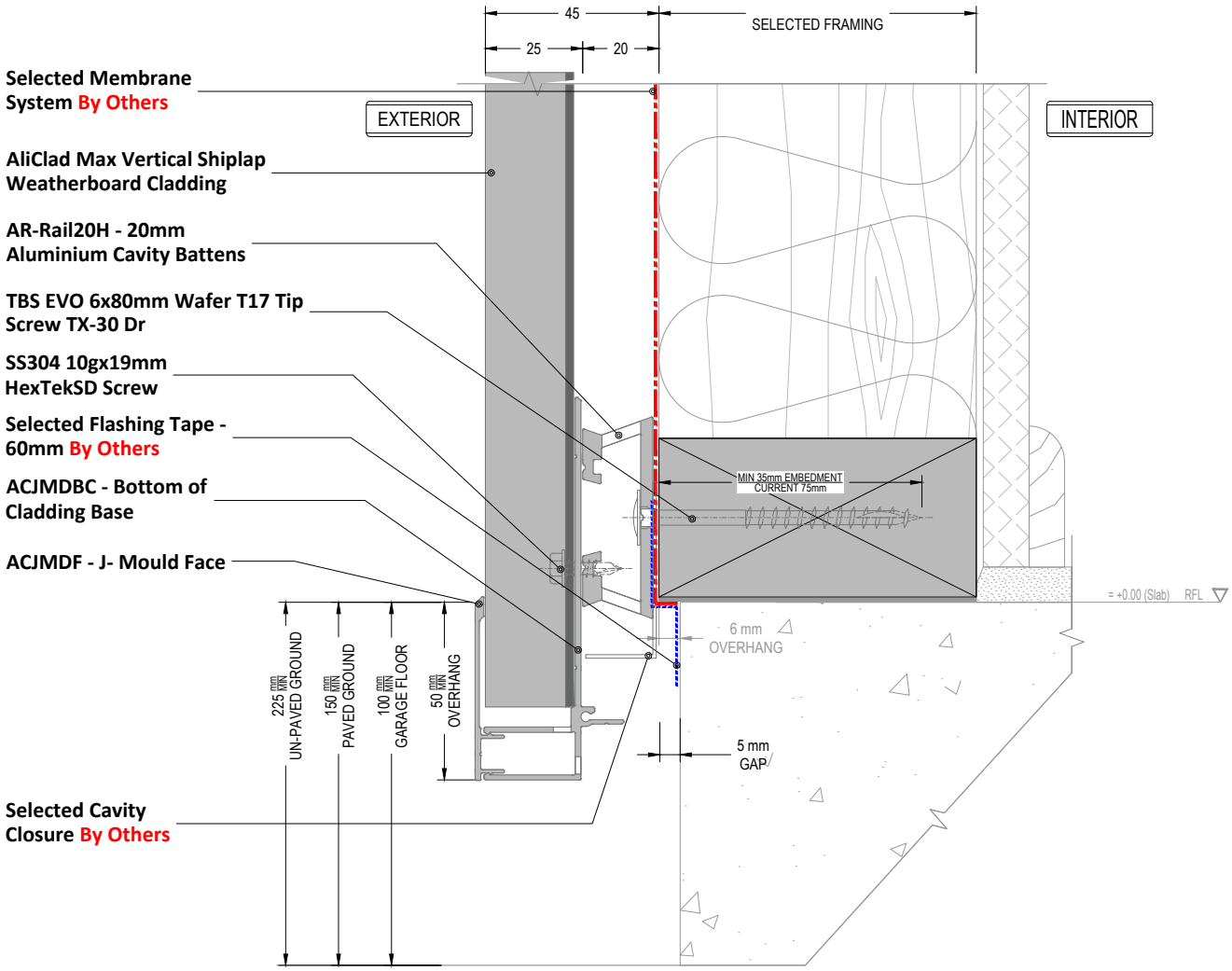
AC-V-AR-4.1

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



NOTE

Cavity Closure are not included in the system

BTM Cladding_G.L

Detail Number

AC-V-AR-4.2

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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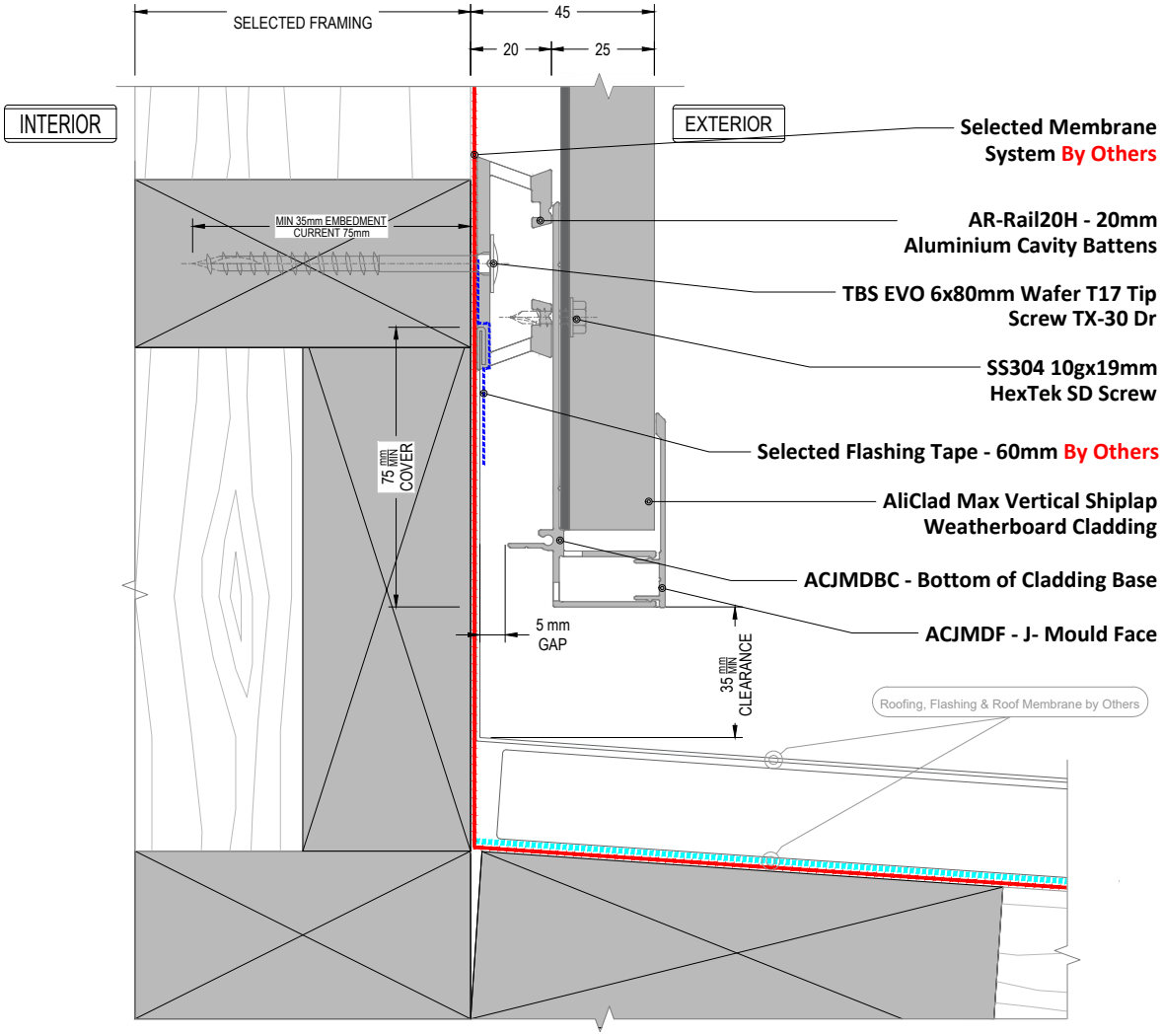
ALICLAD MAX



NOTE

Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.

BTM Cladding_ Apron Roof

Detail Number

AC-V-AR-4.4

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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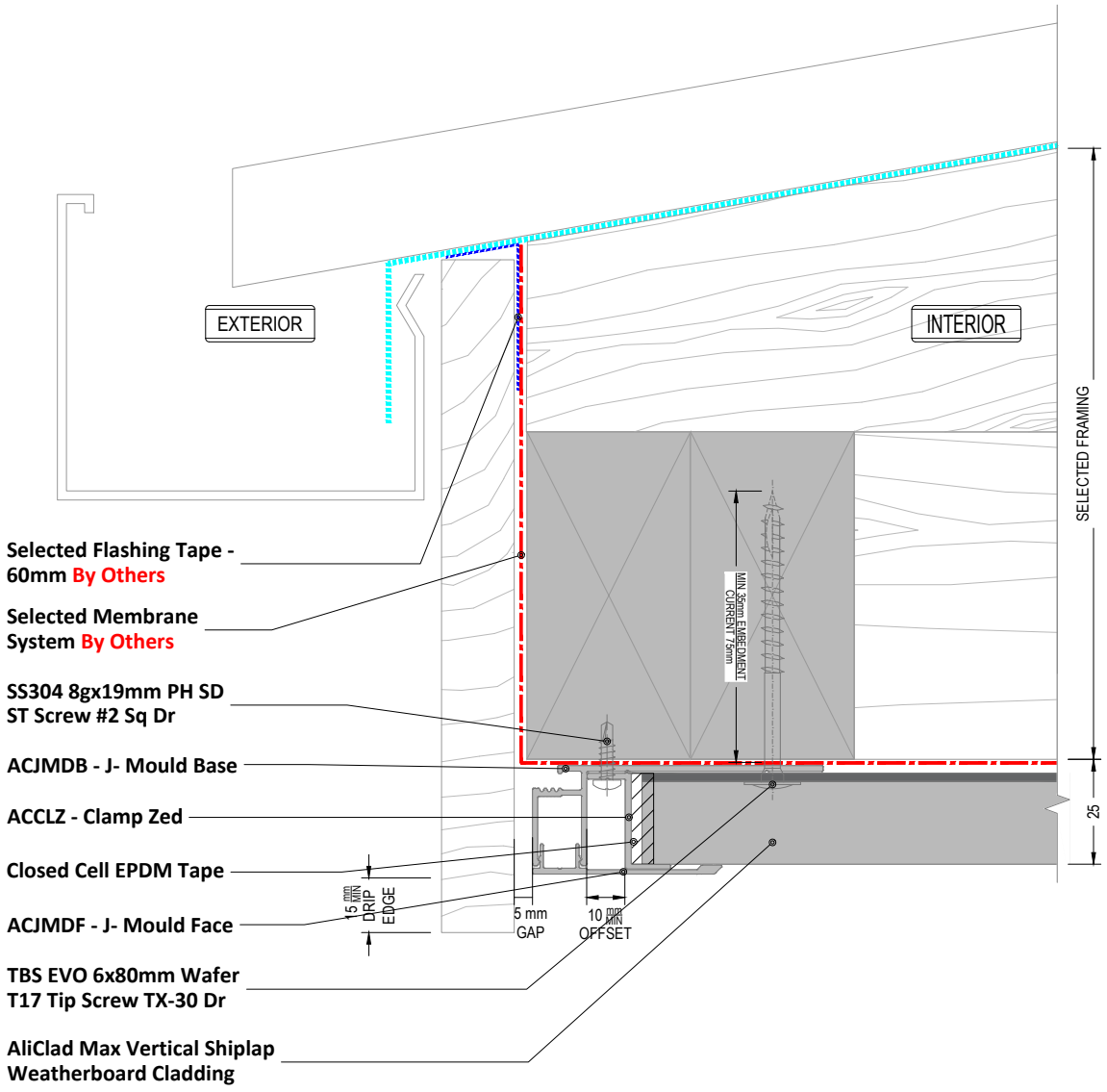
ALICLAD MAX



NOTE

Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.

Top Cladding_Barge/Fascia Board

Detail Number

AC-V-AR-4.8

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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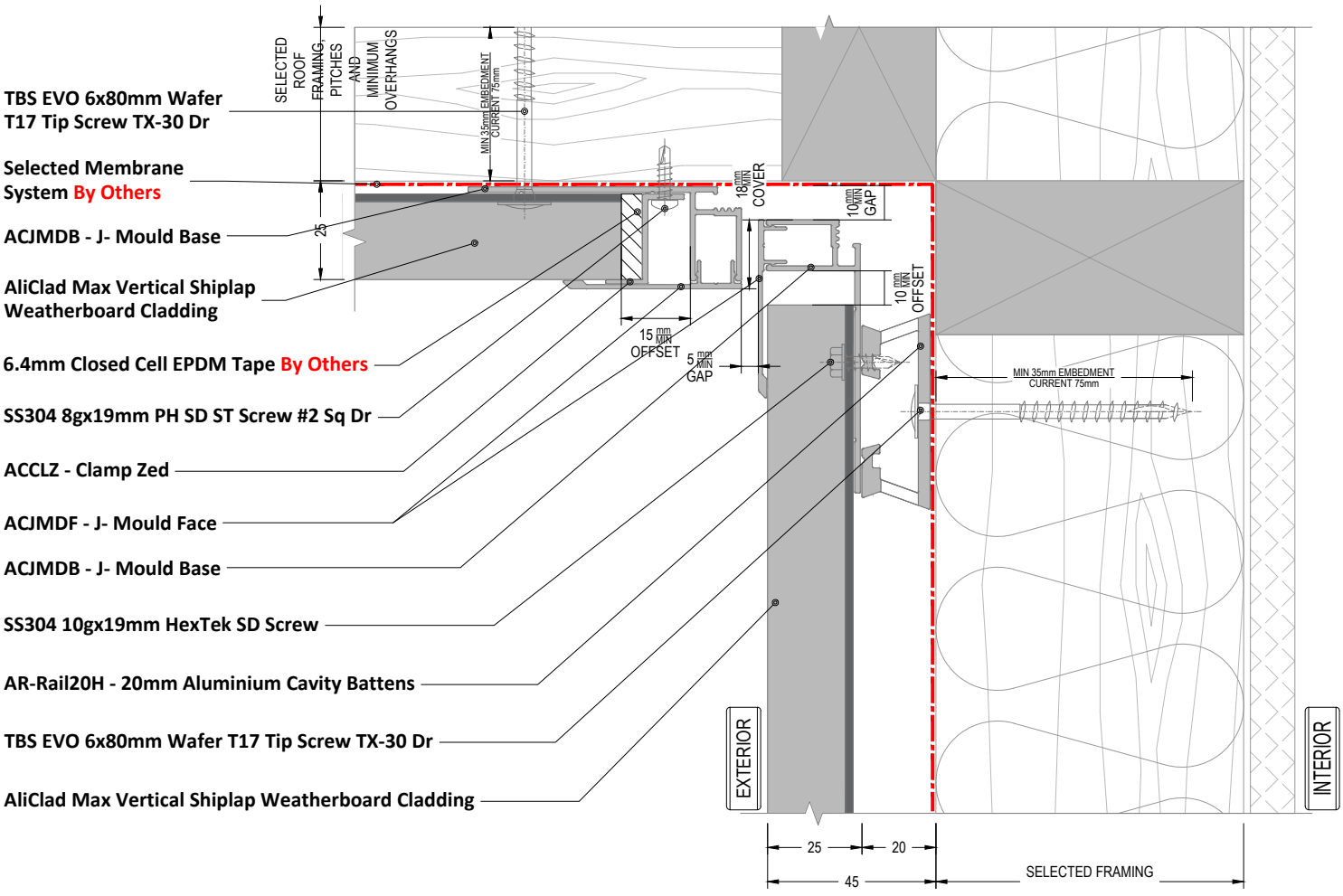
ALICLAD MAX



NOTE

Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.

Wall BLW_Soffit <90°

Detail Number

AC-V-AR-5.1

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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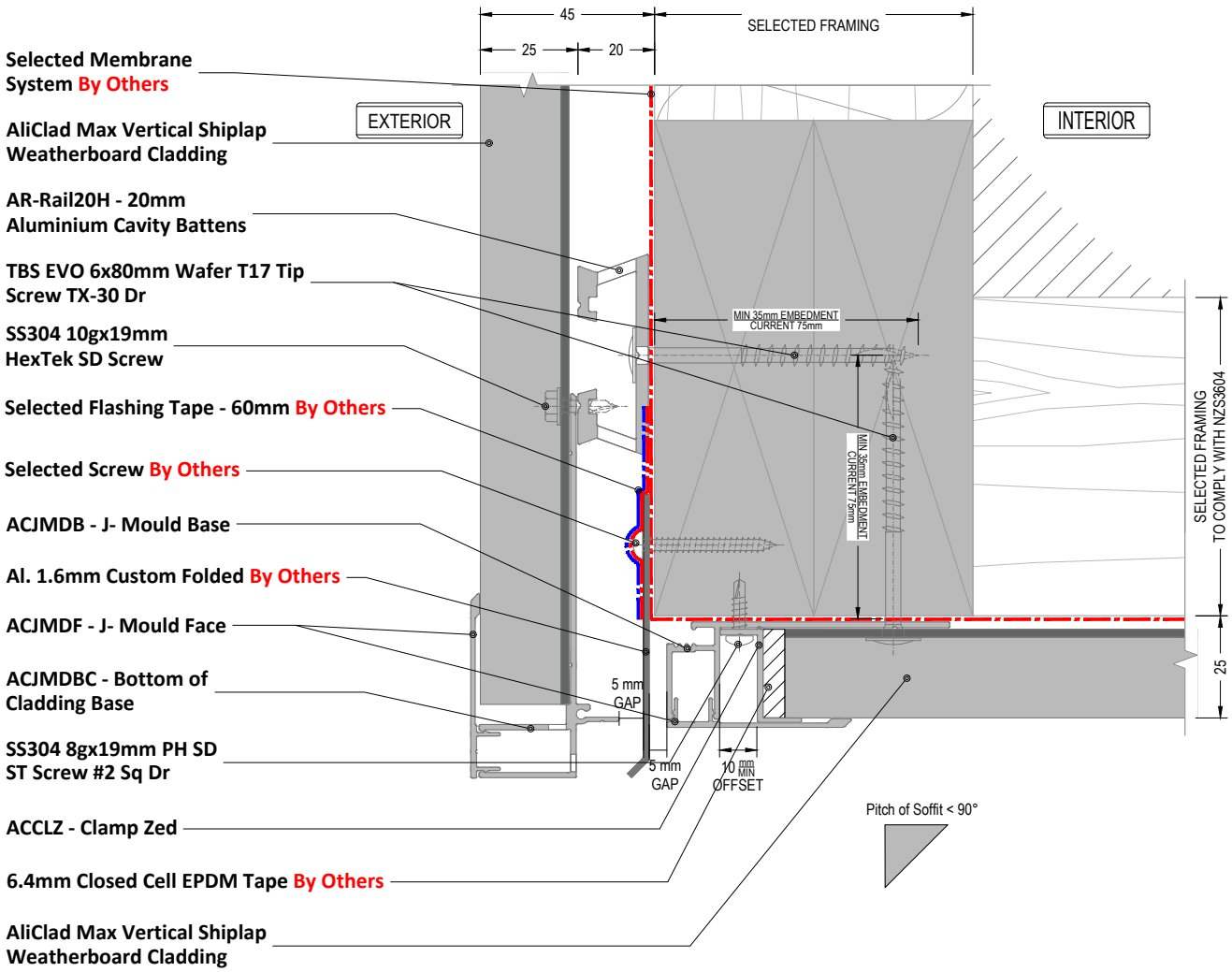
ALICLAD MAX



NOTE
Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.
NOTE 2
Flashings and Angles are not included in the system

Wall ABV_Soffit <90°

Detail Number

AC-V-AR-5.2

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
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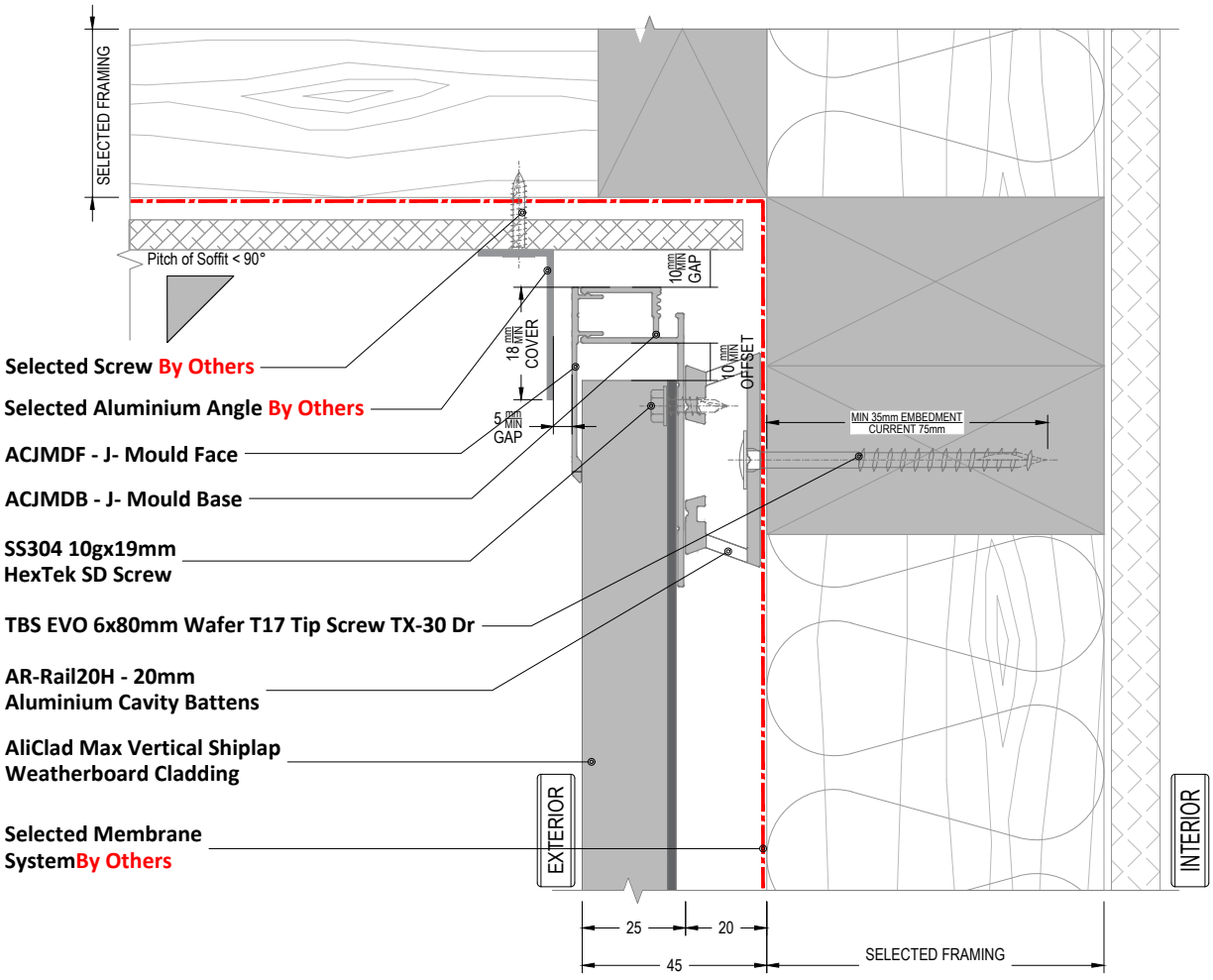
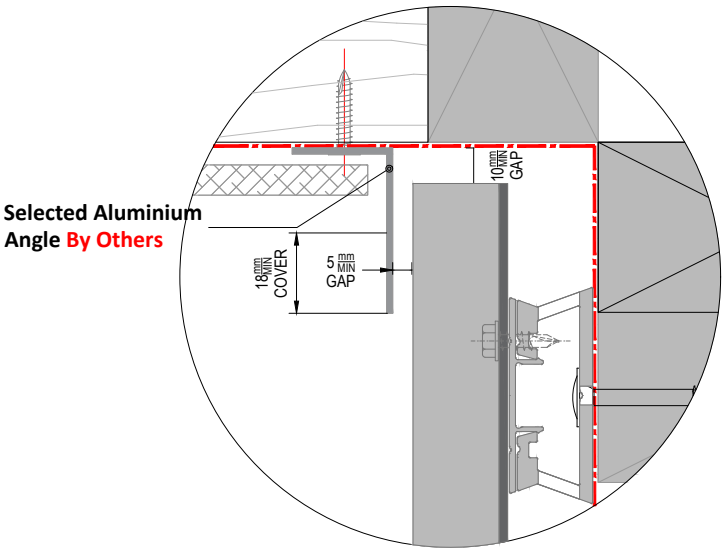
ALICLAD MAX





OPTION 2

NOTE
Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.
NOTE 2
Flashings and Angles are not included in the system

Wall BLW_Flat Sheet Soffit <90°

Detail Number

AC-V-AR-5.6

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
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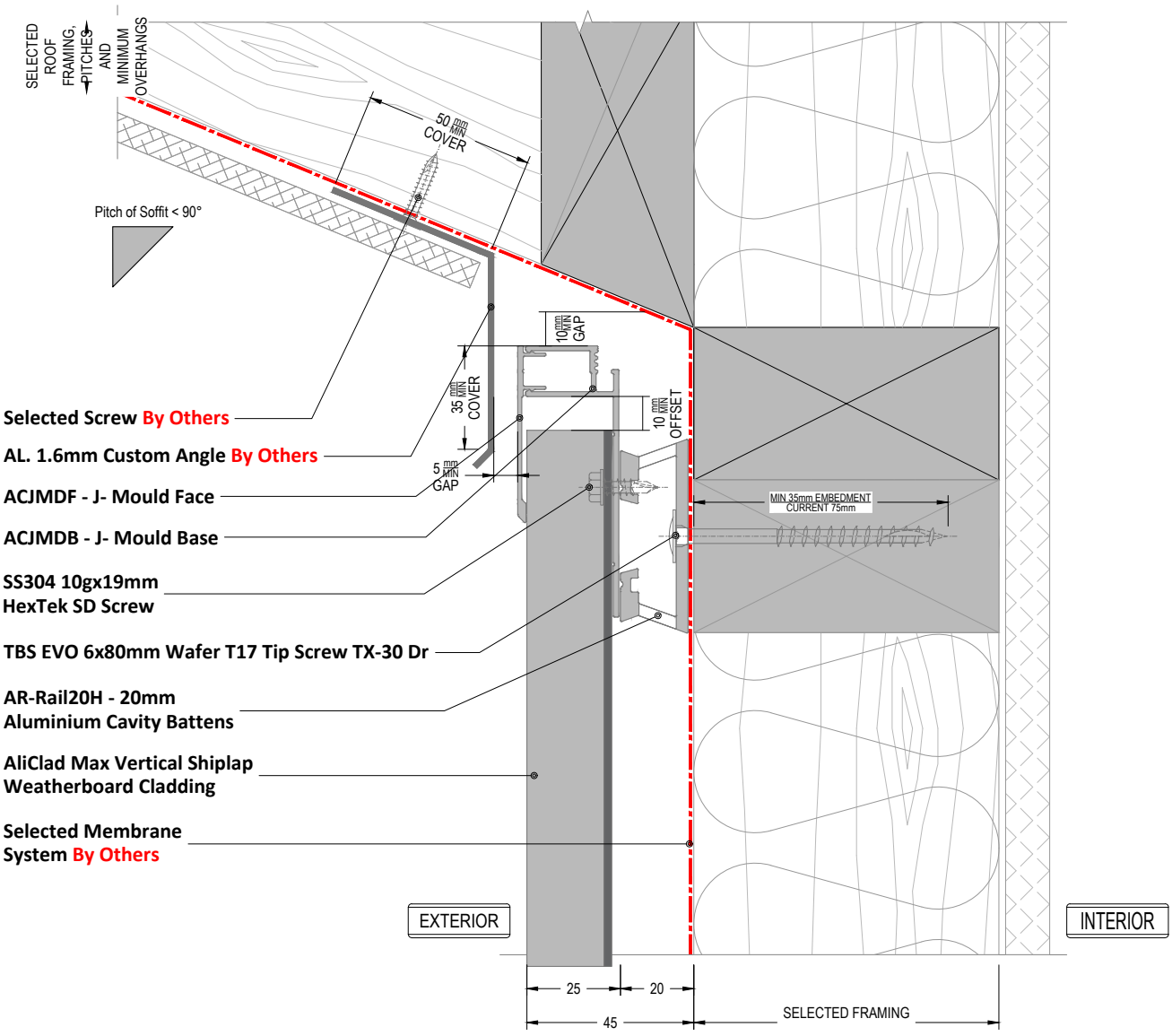
ALICLAD MAX



NOTE

Weathering membrane under soffit is not requirement but is recommendable for air barrier performance when a rigid wind barrier is not in use.

NOTE 2

Flashings and Angles are not included in the system

Wall BLW_Flat Sheet Soffit >90°

Detail Number

AC-V-AR-5.8

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

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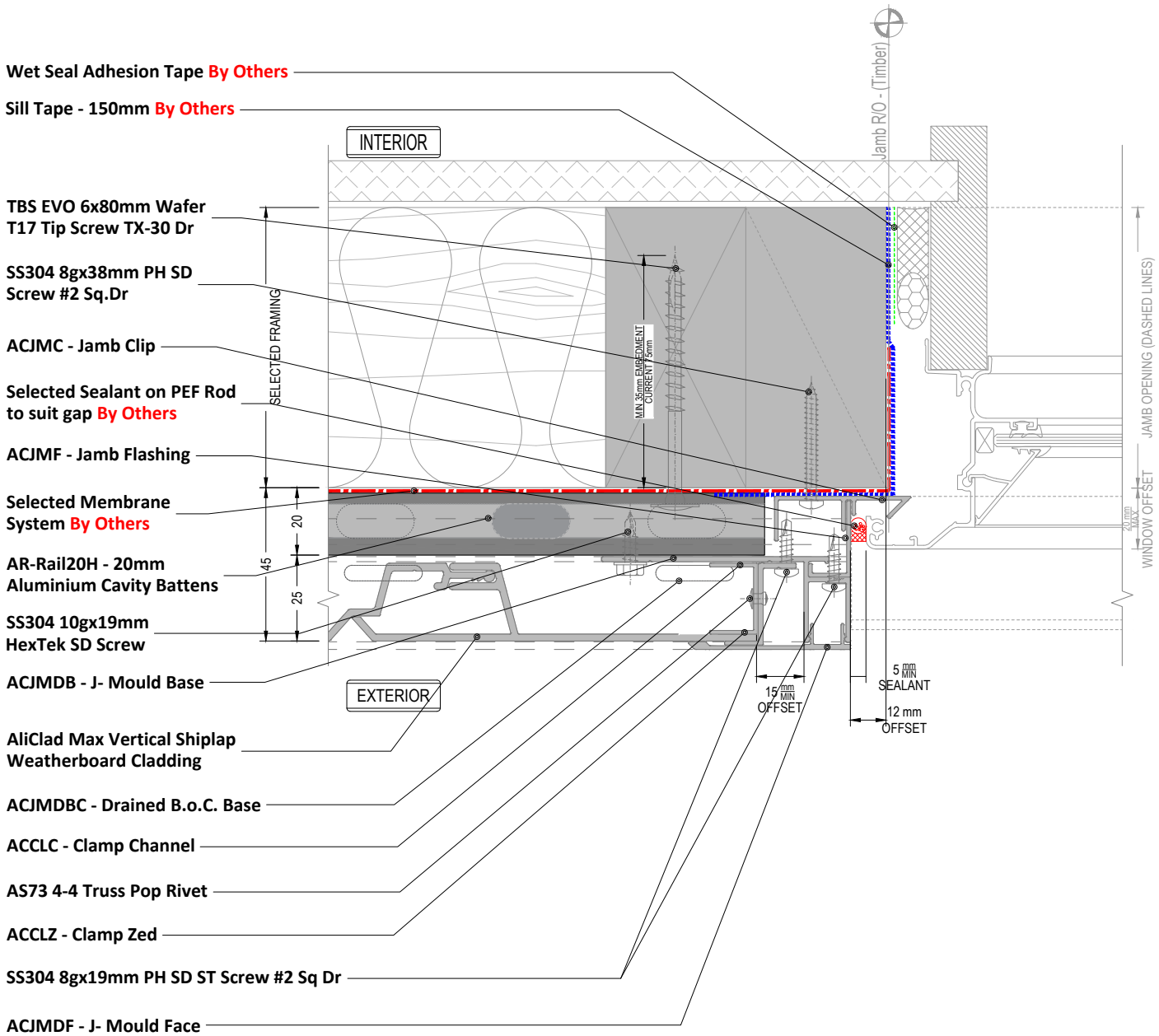
ALICLAD MAX



NOTE
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

Window Jamb_Recessed

Detail Number

AC-V-AR-7.1

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
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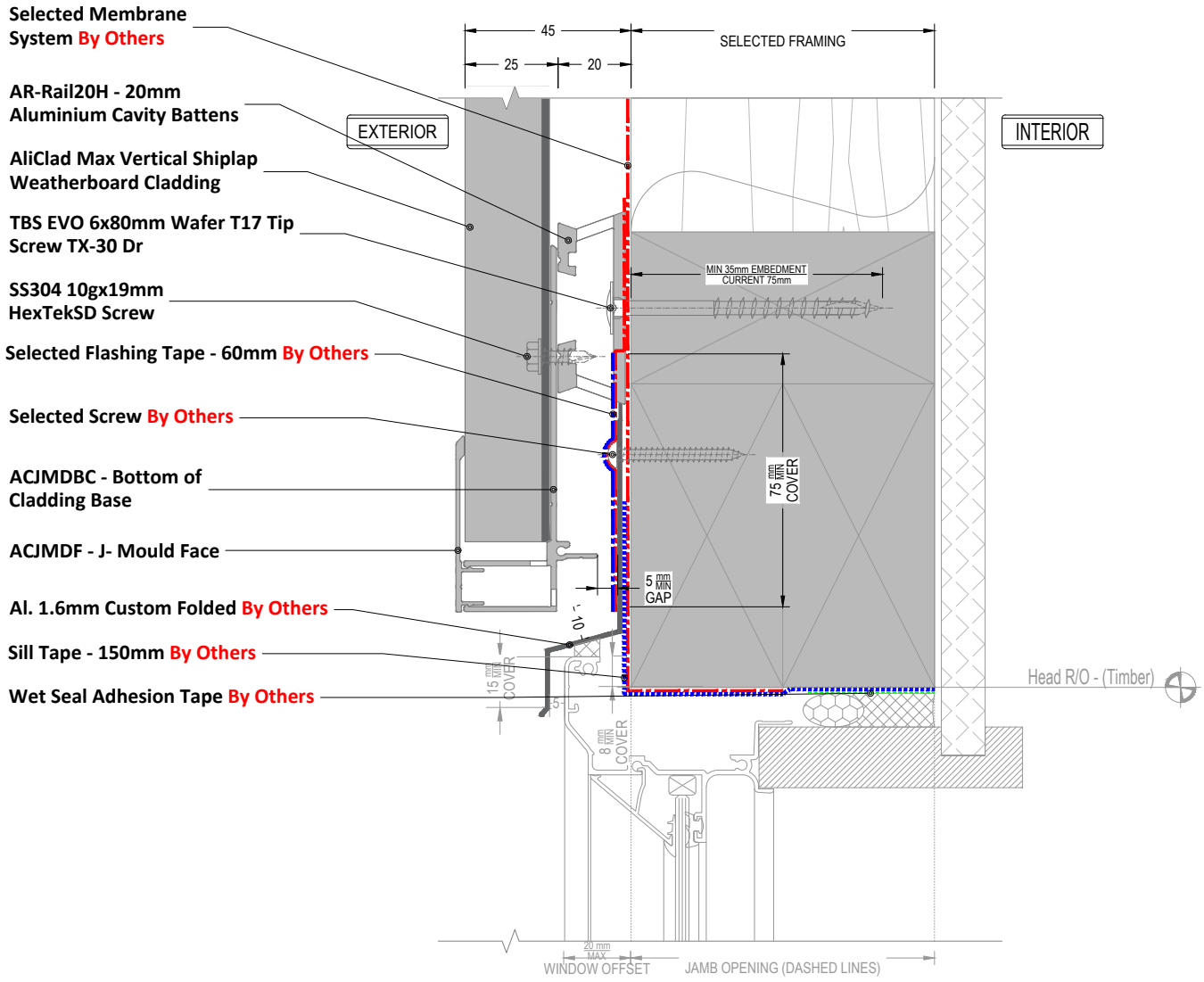
ALICLAD MAX



NOTE

Refer to drawing "7.1" for Sill/Jamb Junction

NOTE 2

Flashings and Angles are not included in the system

Detail Number

AC-V-AR-7.2

Version

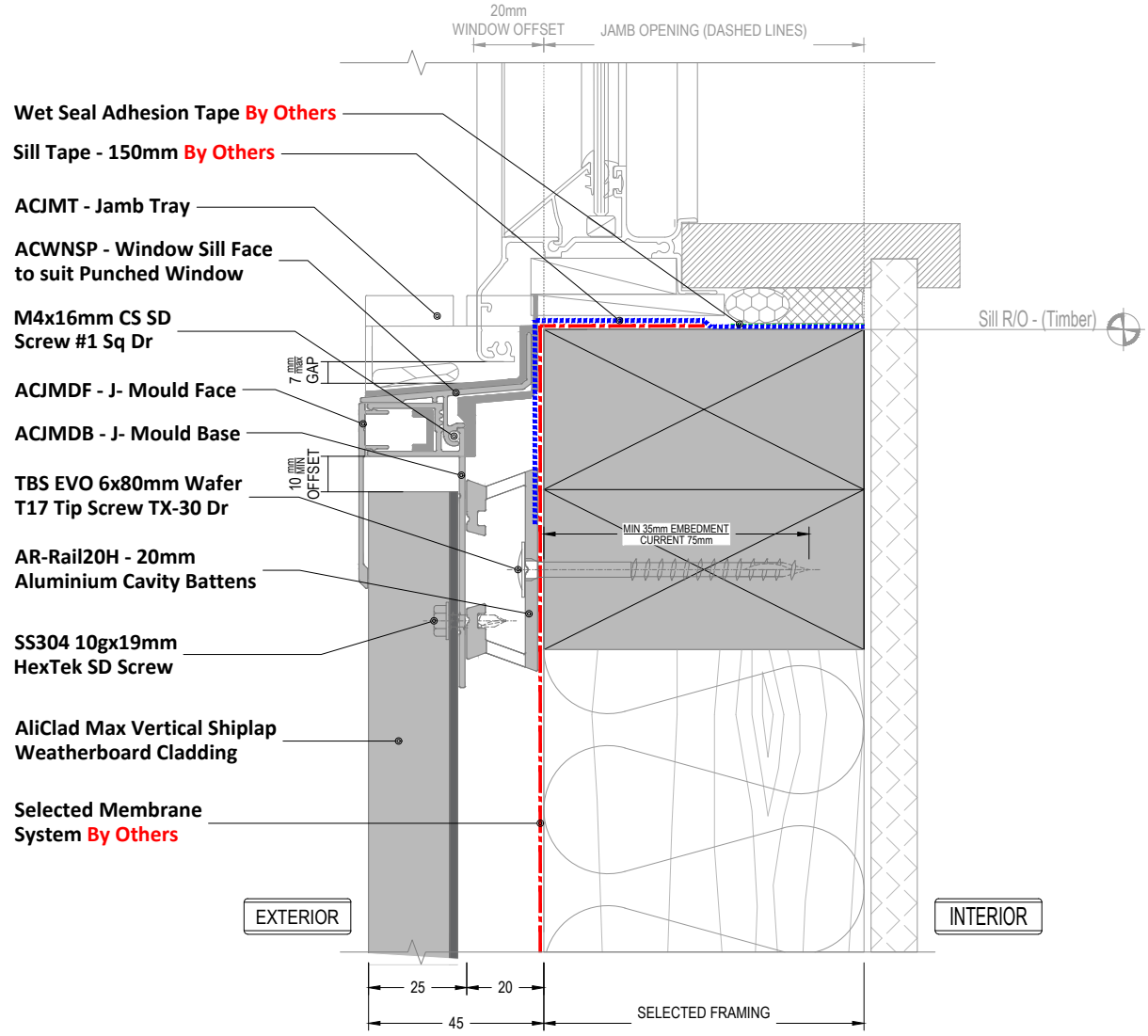
JAN 2024 [v2.3]

Window Head_Recessed

THE BUILDING AGENCY

MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



NOTE

Refer to drawing "7.1" for Sill/Jamb Junction

Window Sill_Recessed

Detail Number

AC-V-AR-7.3

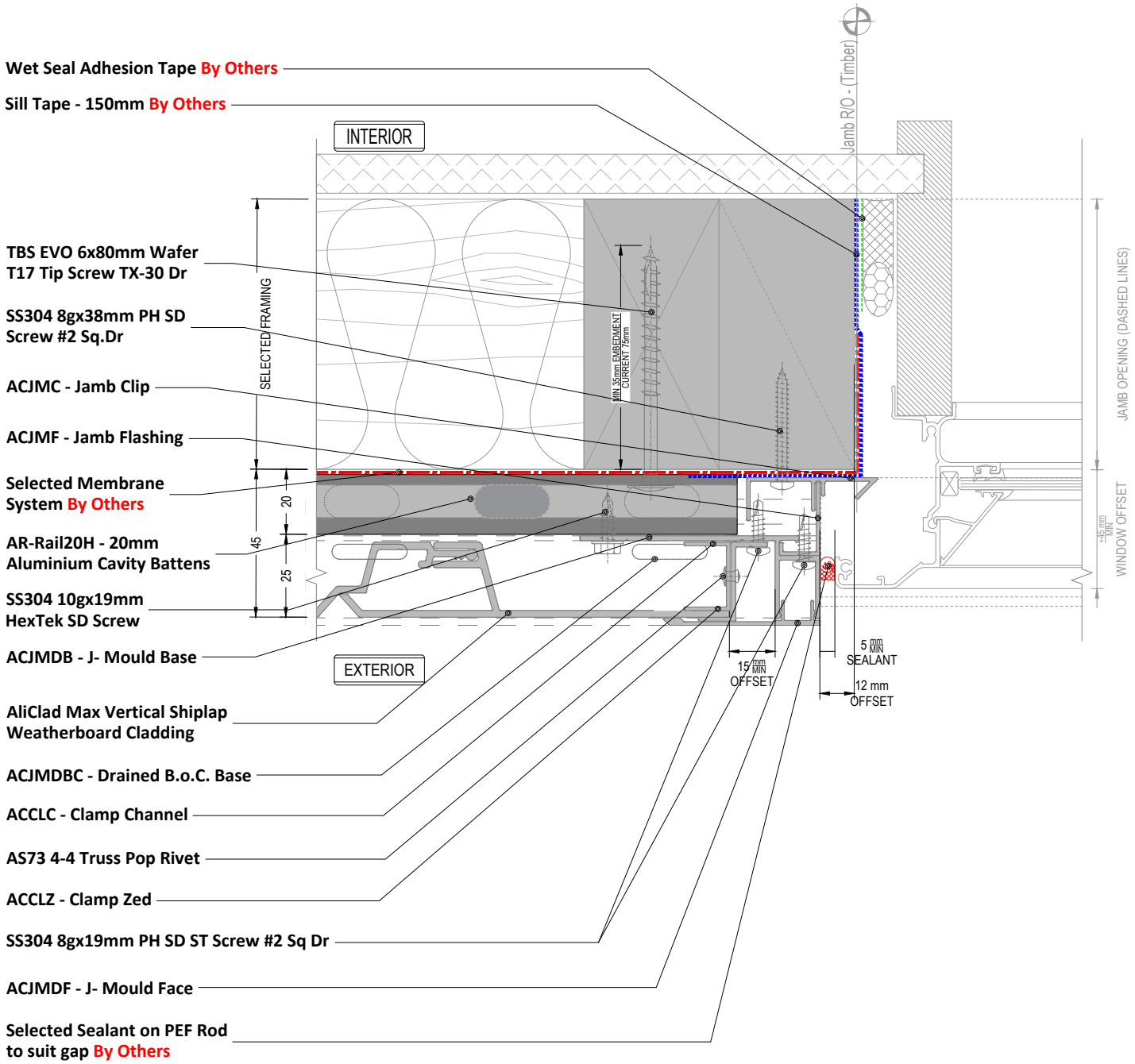
Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



NOTE
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

Window Jamb_WANZ/Supported

Detail Number

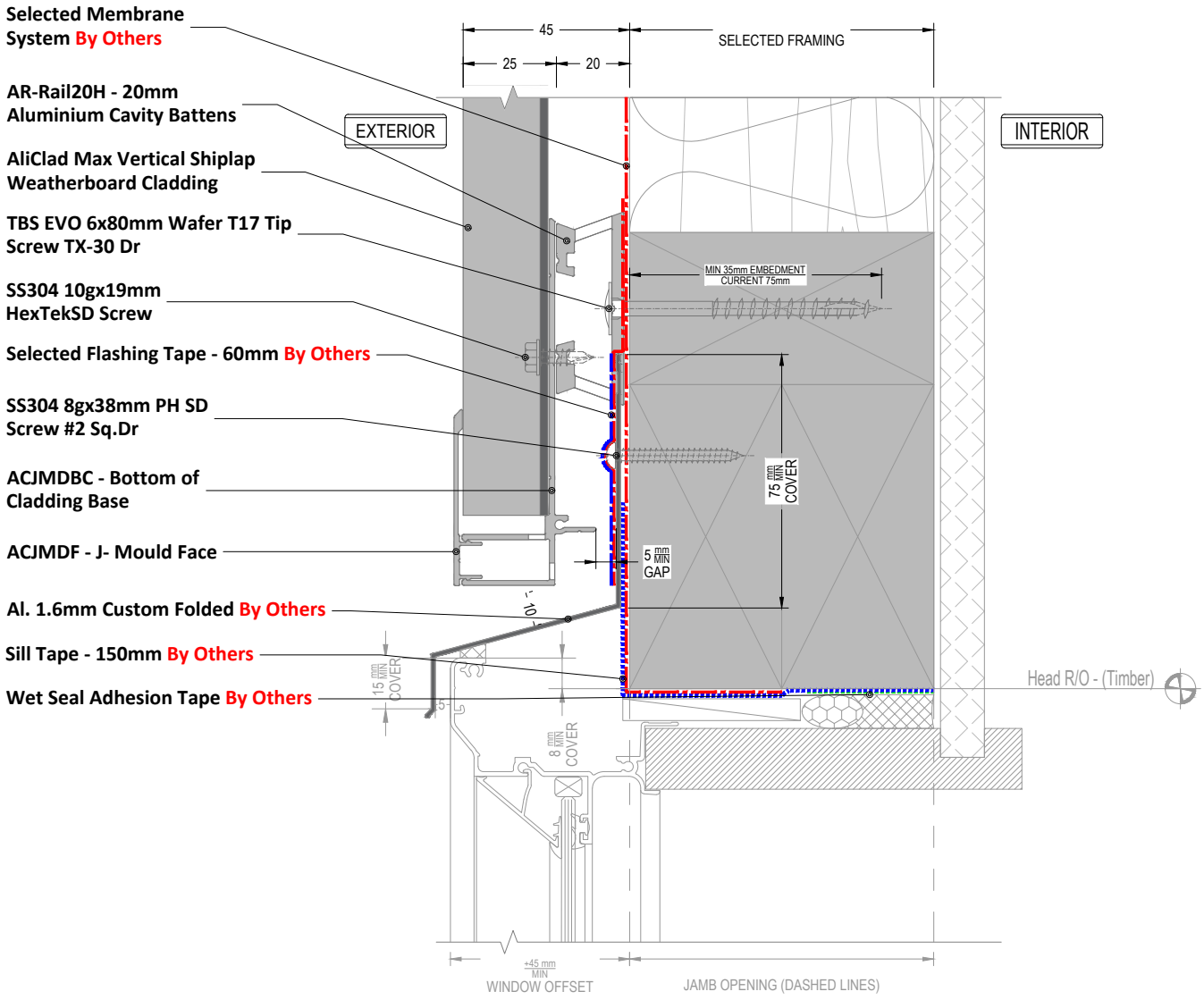
AC-V-AR-7.4

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY
MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



NOTE

Refer to drawing "7.4" for Sill/Jamb Junction

NOTE 2

Flashings and Angles are not included in the system

Window Head_WANZ/Supported

Detail Number

AC-V-AR-7.5

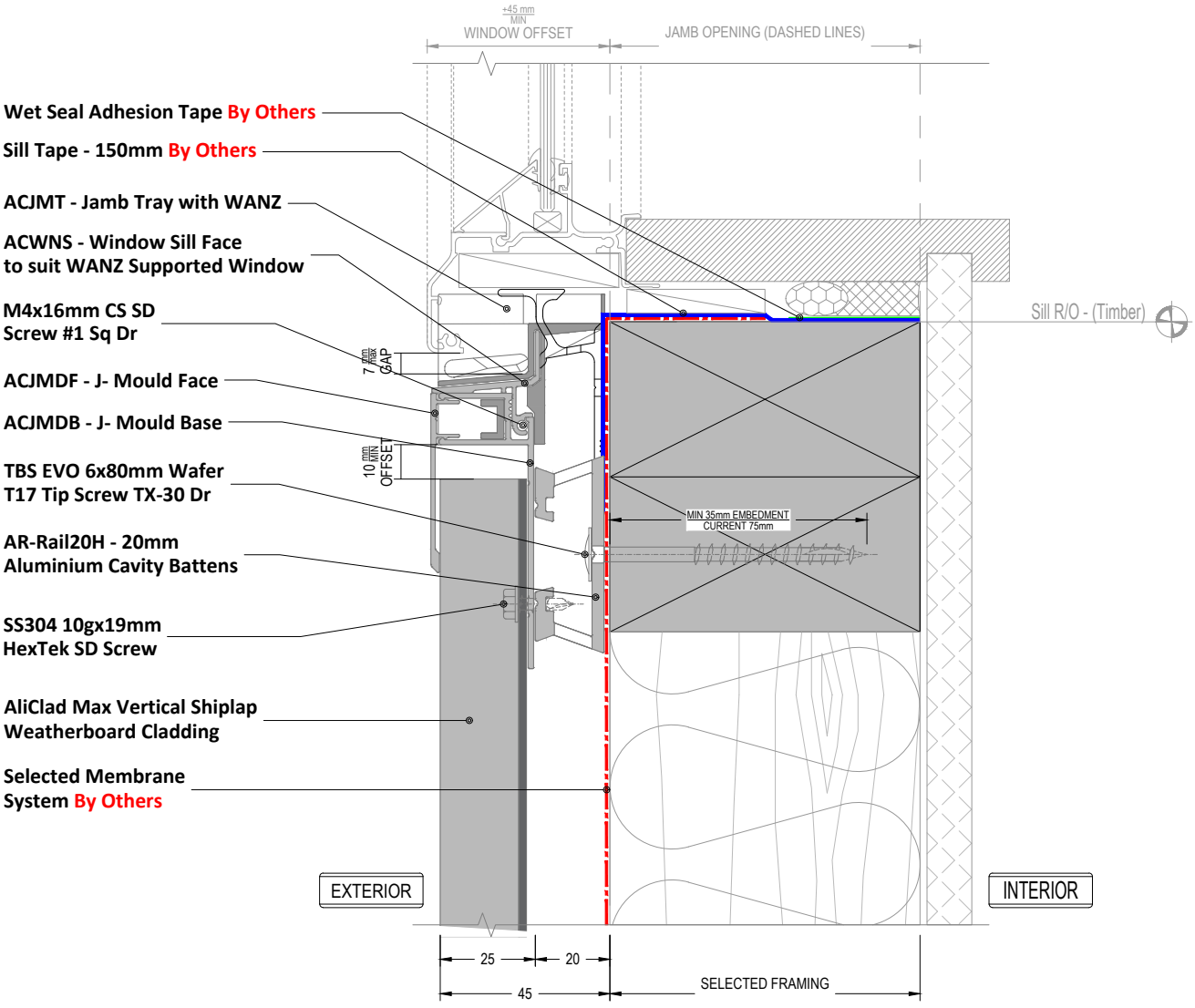
Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

MATERIALS • SYSTEMS • SOLUTIONS

ALICLAD MAX



NOTE

Refer to drawing "7.4" for Sill/Jamb Junction

Window Sill_WANZ/Supported

Detail Number

AC-V-AR-7.6

Version

JAN 2024 [v2.3]

THE BUILDING AGENCY

MATERIALS • SYSTEMS • SOLUTIONS