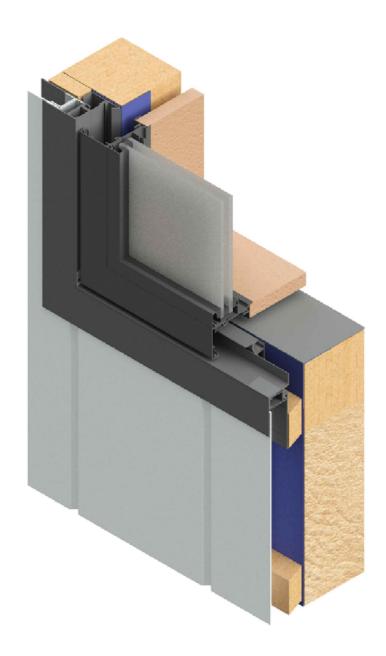
VICTVD MVX



II VERTICAL II TIMBER BATTEN

HIGH PERFORMANCE ALUMINIUM WEATHERBOARD SYSTEM





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 New Zealand for our local conditions.

The tough New Zealand 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 NZBC and been tested to be E2 via 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 under the NZBC C clause and when correctly specified the support system forms a limited / non-combustible wall assembly. AliClad Max System 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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AliClad Max - Horizontal - Alpha Rail

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Profiles & Accessories

AC-H-AR-PL - AliClad Max System Parts List
AC-H-AR-PRO-01 - AliClad Max System Cladding Profiles
AC-H-AR-PRO-02 - AliClad Max System Trims Profiles
AC-H-AR-MDS - AliClad Max System Mechanical Drainage System Parts

General Processing

AC-H-AR-GP-01 - Cut Board Terminations

TYPICAL DETAILS

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••	

- 1.1. External Corner1.2. Internal Corner
- 1.3. External Corner Smaller Cladding Type1.4. Internal Corner Smaller Cladding Type

2. VERTICAL JOINTS

- 2.1. Vertical Joint Typical
- 2.2. Vertical Joint Orientation Change2.3. Vertical Joint Smaller Cladding Type
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3. HORIZONTAL JOINTS

- 3.1. Typical Horizontal Joint
- 3.2. Interstorey Joint

4. CLADDING TOP & BOTTOM

- 4.1. Top of Cladding/Parapet
 4.2. Bottom of Cladding at Ground
 4.4. Bottom of Cladding at Apron Roof
- 4.8. Barge to Soffit

5. SOFFITS

- 5.1. Wall Below Soffit <90°5.2. Wall Above Soffit <90°
- 5.6. Wall Below Flat Sheet Soffit <90°5.8. Wall Below Flat Sheet Soffit >90°

JOINERY

7.6.

Detail List

7.1. Residential Window Jamb - Recessed
7.2. Residential Window Head - Recessed
7.3. Residential Window Sill - Recessed
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7.5. Residential Window Head - WANZ/Supported

Residential Window Sill - WANZ/Supported

Detail Number

Version

JAN 2024 [v1.4]

AC-H-AR-DL.2





COMPLIANCE STATEMENT

AliClad Max System is an extruded aluminium cladding system that can be installed horizontally or vertically, comprised of 2.2mm thick interlocking weatherboards in multiple design profile options and an accompanying flashing system. The system has been designed up to extra high wind zone in accordance with NZS3604 and engineered to be fixed at increased span distances to provide simple, strong, and safe installations.

This compliance statement covers AliClad Max System on

20mm Drained & Ventilated cavities.

Allowance must be made for unhindered thermal expansion and contraction. AliClad Max System weatherboards must be cut to length allowing

a 1 mm gap per metre of board and the fixing holes must be oversized to accommodate potential movement.

NZBC Clause B1 Structure B1.3.1, B1.3.2, B1.3.3(a,f,h,j,q), B1.3.4

AliClad Max System structural analysis was undertaken with capacities determined using and theoretical analysis. Span tables for 20mm cavities have been developed to determine the required cladding fixing, batten/rail fixing and screws to main structure fixing spacing. The AliClad Max System cladding system has been designed to withstand up to

±2.40 kPa (ULS). When constructed in accordance with the structural and installation guidelines as per Appendix A, AliClad Max System will meet NZBC Clause B1.

NZBC Clause E2 External Moisture E2.3.2, E2.3.5, E.2.3.7

AliClad Max System is intended to be part of a rainscreen cladding system where the panels form the outermost water shedding layer. The cladding line is expected to deflect most of the water hitting the façade. The weather resistant line is located at the back of the rainscreen cavity that is typically constructed with a flexible building wrap or rigid air barrier compliant with NZBC E2/AS1: Table 23.

Where water does penetrate the cladding line, the cavity between the cladding and the structural wall is expected to prevent water being able to migrate onto the structural wall and allow water to drain down. The cavity also allows ventilation which aids in the drying of any residual water and drying of the structural wall.

NZBC C3 Fire Performance C3.5, C3.6, C3.7a

AliClad Max System is manufactured from solid aluminium. As per MBIE Guidance (MBIE 2817 Fire Performance of External Wall Cladding Systems) that for buildings categorised as low risk (<10m high & >1m away from relevant boundary.) There are no requirements for fire testing protocols P1 to P5 and therefore all products are suitable for use in this application.

Where consideration of fire safety is required due to proximity of relevant boundaries, AliClad Max System can contribute to a building's performance when specified on one of the applicable non-combustible support systems available.

NZBC Clause B2 Durability B2.3.1b, B2.3.2

AliClad Max System material is 6063-T5 grade aluminium and by its nature is inherently durable. Aluminium is a reactive metal that quickly forms a stable oxide layer upon contact with the atmosphere which seals the raw aluminium from further oxidation. Therefore, aluminium is fundamentally durable. Aluminium supports are suitable to be used in all New Zealand exposure/atmospheric zones.

In addition, the AliClad Max System is finished using premium powder coating systems, applied locally.

Timber and Plastic Battens and Fixings

On Low-Risk buildings where fire requirements allow, a timber or HDPE cavity packer batten system may be used. Where timber is used it must be at a minimum of H3.1 treatment. If applicable a suitable bond breaker must be utilised to ensure no contact between cladding, flashings, and treated battens. Fixings for AliClad Max System must achieve >35mm structural embedment into main structure.

Refer to Appendix A Fixing Table 1

Aluminium Battens and Fixings

Cladding rails and fixings are also manufactured from aluminium and stainless steel, both materials are recognised as sufficiently durable and should remain serviceable throughout the expected serviceability of the cladding system. Fixings of aluminium rails must achieve >45mm embedment into main structure

Refer to Appendix A Fixing Tables 2 & 4

Galvanised Support and Battens

To meet the durability requirements, mild steel support and battens need to be protected against corrosion. Support frames must have a minimum wall thickness of 1.15BMT. Support frames are to be coated with Zincalume steel AZ150. The Building Agency only specify Zincalume coatings for buildings with Exposure Zone of B and C to achieve the durability requirement specified in NZBC Clause B2. In addition, as outlined on NZBC E2/AS1 Table 20, hidden elements coated with AZ150 can achieve 50-year durability. Fixings of galvanised support battens rails must achieve >35mm embedment into main structure.

Refer to Appendix A Fixing Tables 3 & 5

Design Responsibility

It is expected that the architect/specifier's design intent and specifications (including specified materials, & compatibility where items are subject to material run-off affecting durability) where applicable have been reviewed against the New Zealand Building Code. AliClad Max System, when correctly specified will comply to or contribute to compliance to the following NZBC Clauses and their listed performance clauses as listed.





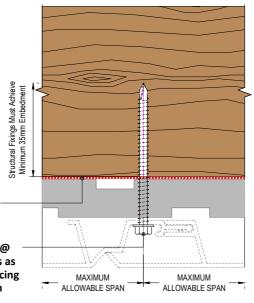
APPENDIX A - SPAN TABLES

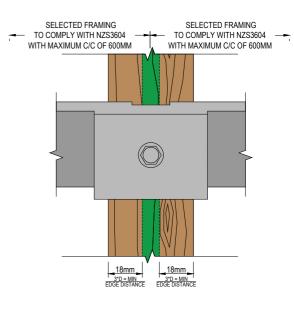
WIND ZONE	ALICLAD MAX TYPE					
	V136	V200	S150	S200	S125/75	
	MAXIMUM ALLOWABLE SPAN (mm)					
LOW 00m/s-32m/s <0.6kPa	2200	2200	2200	2200	2200	
MEDIUM 32m/s-37m/s >0.66kPa & <0.88kPa	2000	2000	2000	2000	2000	
HIGH 37m/s-44m/s >0.88kPa & <1.25kPa	1800	1800	1800	1800	1800	
VERY HIGH 44m/s-50m/s >1.25kPa & <1.61kPa	1600	1600	1600	1600	1600	
EXTRA HIGH 50m/s-55m/s >1.61kPa & <1.9kPa	1400	1400	1400	1400	1400	
SPECIFIC ENGINEERING DESIGN >55m/s >1.9kPa	SED	SED	SED	SED	SED	

- 1. SS304 12g x 65mm HexTek Screw 10mm Hex (35mm minimum embedment), screw fixing at every AliClad Max board.
- Table is applicable for non-]structural H3.1 Timber and Extruded Plastic cavity packer battens either of which form a nominal 20mm cavity
 Wind Zone Classifications ULS From NZS3604, considered in Positive(+) Pressure and Negative(-) Suction
- * Design Assumptions:
- 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.
- 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.
- SS304 12g x 65mm HexTek SD Screw 10mm Hex (AliClad board to Timber Batten)
- 5. Timber is assumed Radiata Pine (Group J4 for withdrawal, group 5 in shear, with a characeristic density in excess of $420 kg/m^3$).
- 5.1. Timber studs at 600mm o/c and5.2. timber nogs/dwangs at 800mm o/c and
- 5.2. timber nogs/dwangs at 800mm 0/c and
- 6. For Edge Distances Framing fixing face thickness is assumed as 45mm

Selected Building Flexible Membrane/RAB/RWU must be compliant to E2:Table 23

Fixings for Vertical Timber Batten @ Each Nog = 800mm MAX C/C or less as appropriate to site wind zone & bracing requirements in accordance with NZS3604









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. AliClad Max - Internal Corner Base, 5.8m, Selected Finish. AliClad Max - External Corner Base, 5.8m. ACINTB-58

ACEXTB-58

ACJMDBC-58 AliClad Max - Bottom of Cladding Base, 5.8m, Selected Finish

2 PIECE FACES & TRIMS

ACINTF - AliClad Max - Internal Corner Face, 5.8m.

- AliClad Max - Window Sill Face, - to suit WANZ supported window, 5.8m, Selected Finish. **ACWNS** 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. AliClad Max - Starter Rail, 5.8m, Mill Finish. ACSTR-58 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. Alpha Rail Packer Clip 5mm, 50mm. AR-CLIP50 AR-CLIP30 Alpha Rail Packer Clip 3mm, 50mm. AR-CLIP16 Alpha Rail Packer Clip 1.6mm, 50mm. Alpha Rail Vertical Rail 20mm, 5.8m. AR-RAIL20H

AliClad Max - Parts List

AR-RAIL20V Alpha Rail Horizontal Rail 20mm, Drained, 5.8m.

Detail Number

AC-V-TB-PL

Version

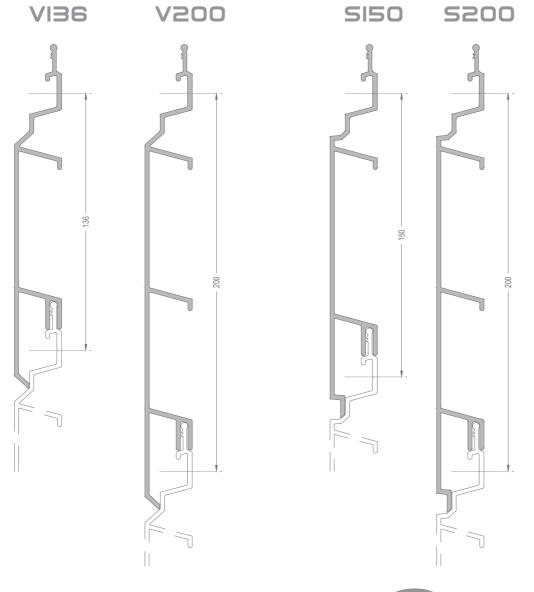
MATERIALS . SYSTEMS . SOLUTIONS

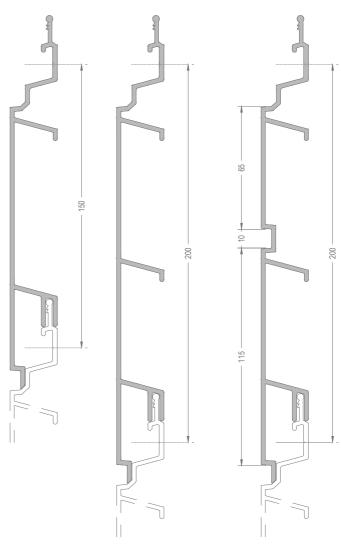
[v2.2]

CLADDING PROFILES

HIGH PERFORMANCE ALUMINIUM WEATHERBOARD SYSTEM

2.1





SI25-75



QUARE - GROOVE

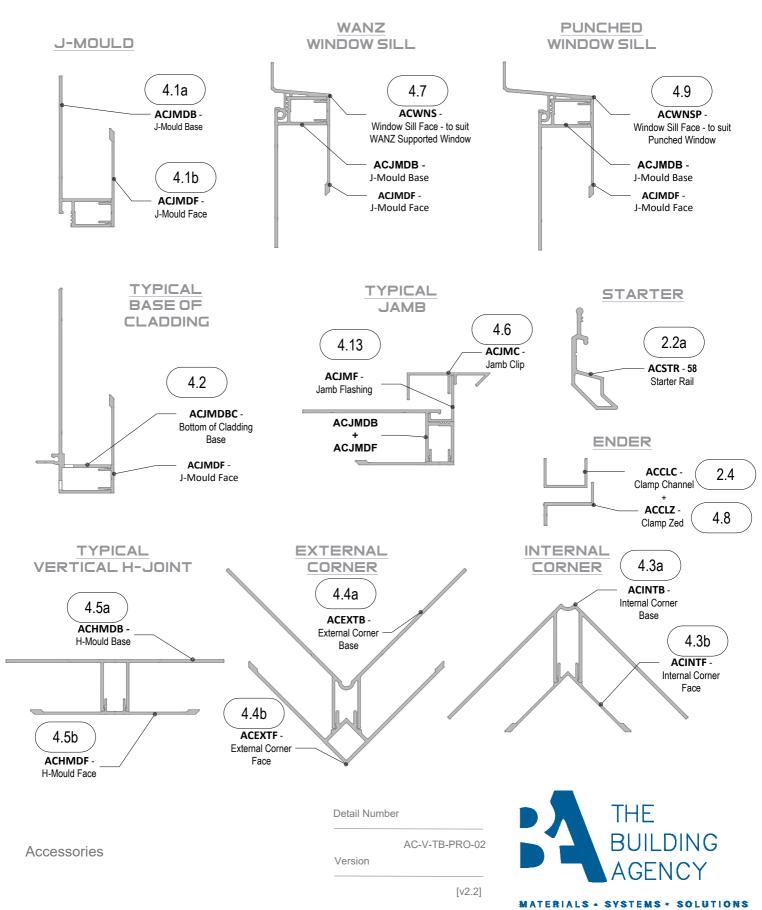
Cladding Profiles

Detail Number AC-V-TB-PRO-01 Version

THE BUILDING

TRIMS - PROFILES

TYPICAL ASSEMBLIES

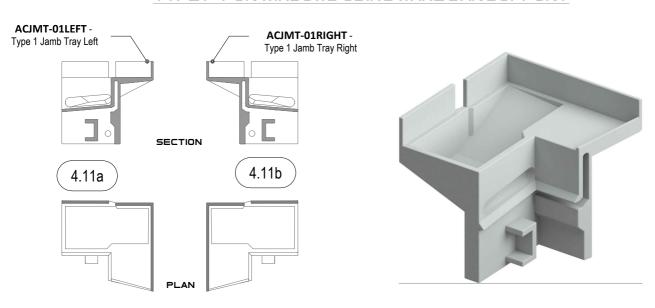




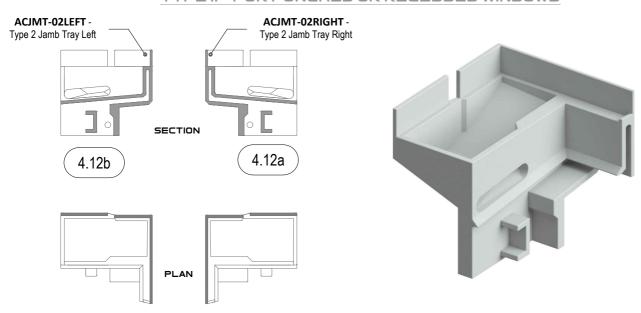
MECHANICAL DRAINAGE SYSTEM

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

TYPE I - FOR WINDOWS USING WANZ BAR SUPPORT



TYPE II - FOR PUNCHED OR RECESSED WINDOWS



Mechanical Drainage System

Detail Number

AC-V-TB-ACC-01

Version

[v2.2]

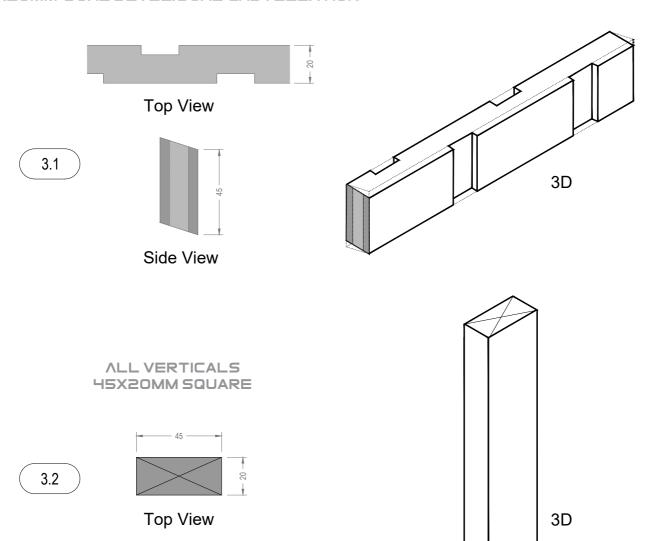




VENTILATED CAVITY H3.I TIMBER BATTENS

ALL HORIZONTALS

45X20MM DUAL BEVEL/DUAL CASTELLATION



Timber Batten

Detail Number

AC-V-TB-ACC-02

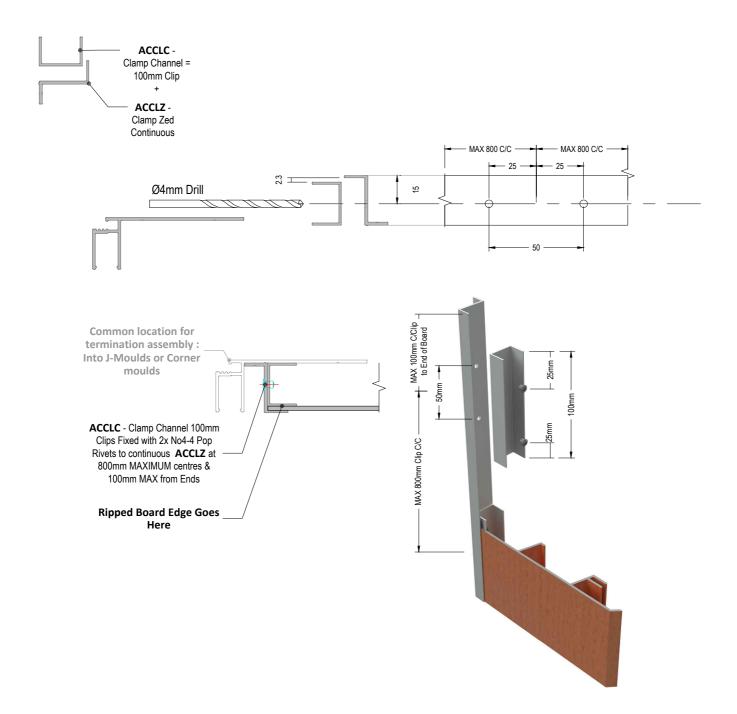
Version

THE BUILDING AGENCY

[V2.1] MATERIALS - SYSTEMS - SOLUTIONS



PROCESSING - RIPPED WEATHERBOARD TERMINATION



General Processing

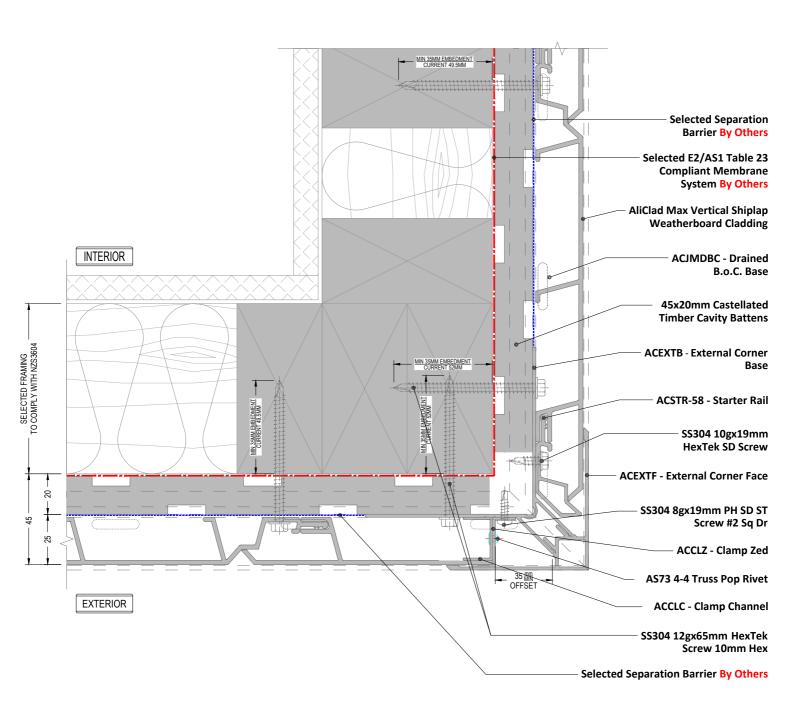
Detail Number

AC-GP-1

Version

[v2.2]





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

External Corner

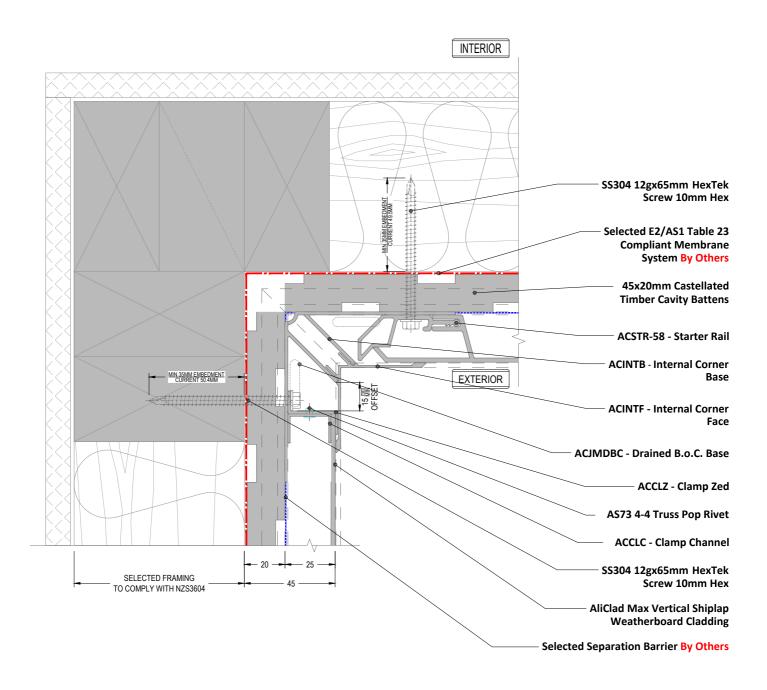
Detail Number

AC-V-TB-1.1

Version

[v2.3]

THE BUILDING AGENCY



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

Internal Corner

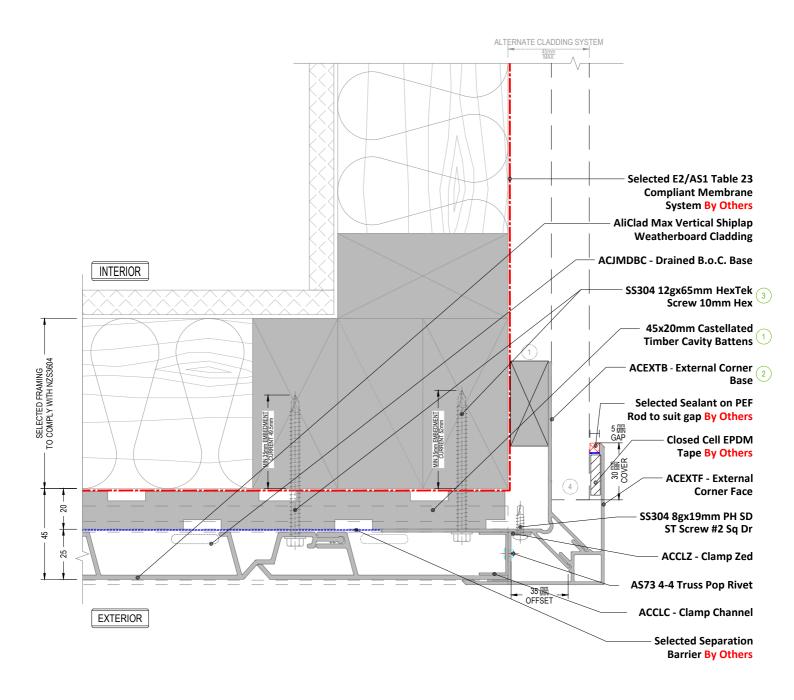
Detail Number

AC-V-TB-1.2

Version

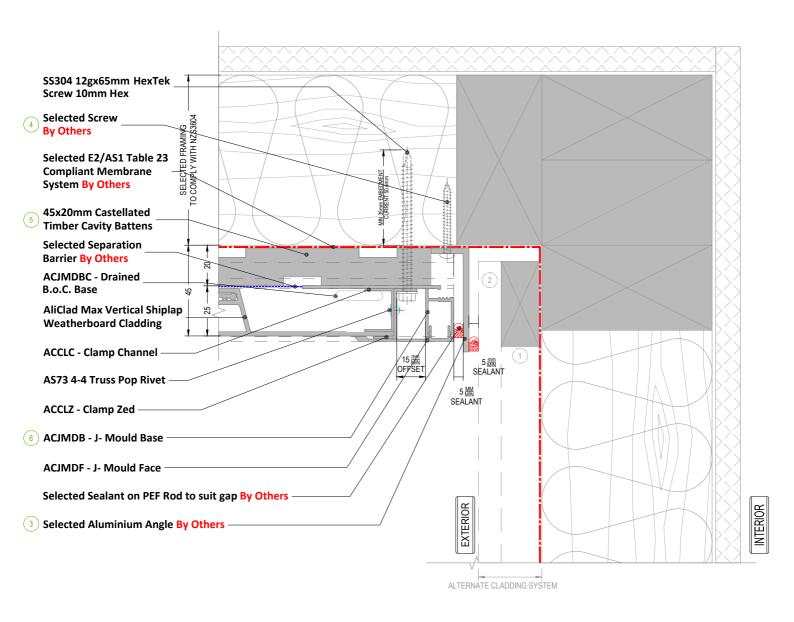
[v2.3]





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

Ext Cnr SML Cladding Type



NOTE 1

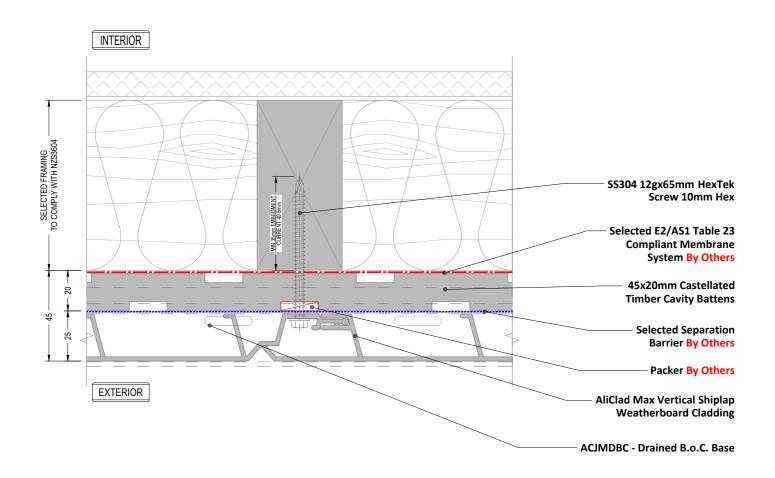
ACJMDBC - Drained B.O.C. Base Shown in dashed lines

NOTE 2

Flashings and Angles are not included in the system

Int Cnr SML Cladding Type





 $\frac{\text{NOTE}}{\text{ACJMDBC - Drained B.O.C. Base Shown in dashed lines}}$

Vert. Joint _Typical

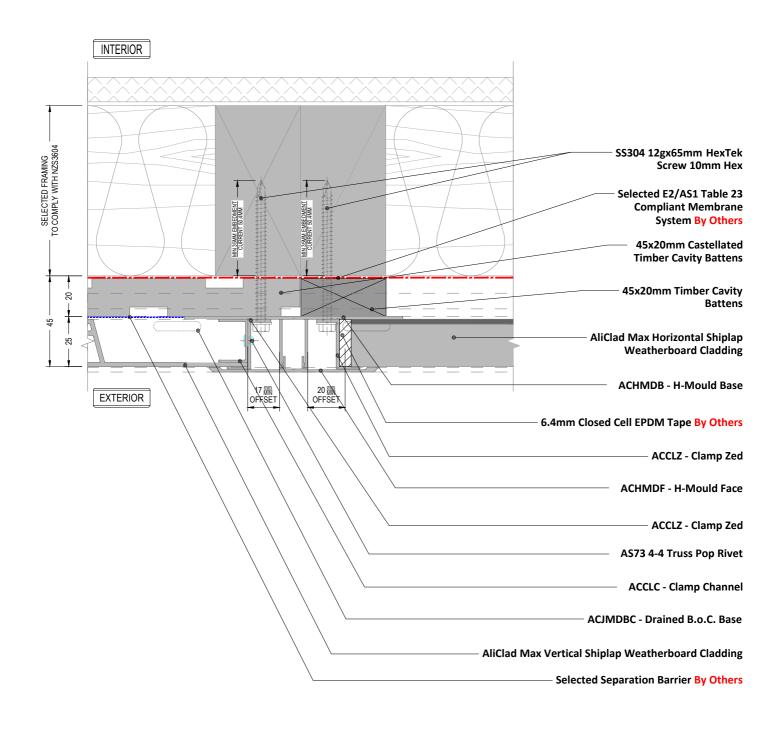
Detail Number

AC-V-TB-2.1

Version

[v2.3]





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

Vert. Joint Orientation Change

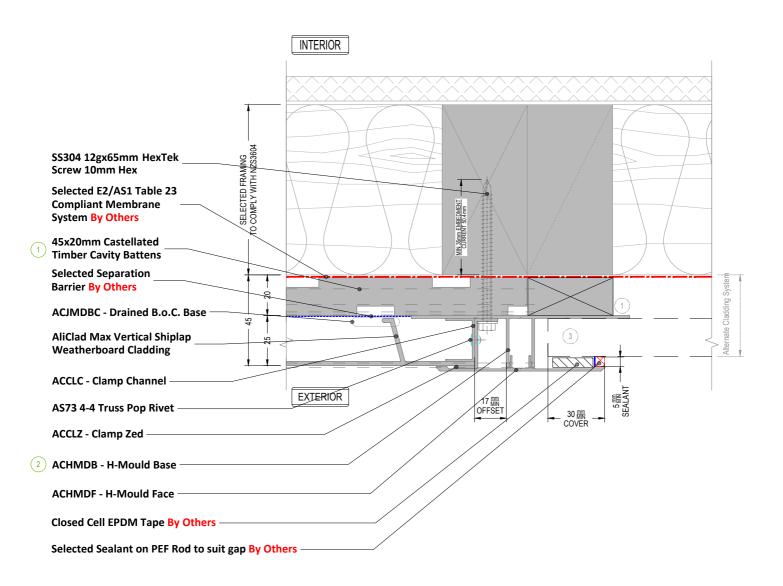
Detail Number

AC-V-TB-2.2

Version

[v2.3]





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

Vert. Joint SML Cladding Type

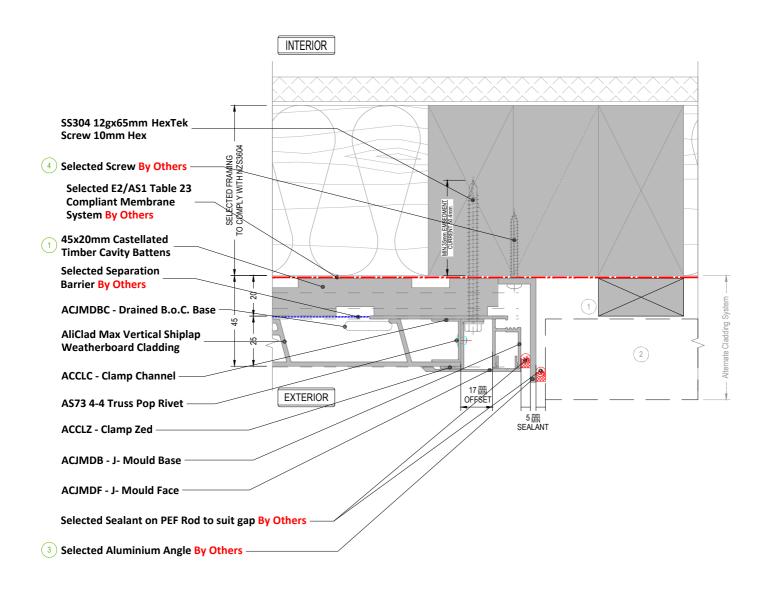
SEQUENCE OF INSTALLATION

1 45x20mm Castellated Timber Cavity Battens
2 ACHMDB - H-Mould Base 3 Alternate Cladding Exterior

AC-V-TB-2.3 Version [v2.3]

Detail Number





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
NOTE 3
Flashings and Angles are not included in the system

Vert. Joint LRG Cladding Type

SEQUENCE OF INSTALLATION

1 45x20mm Castellated Timber Cavity Battens
2 Alternate Cladding Exterior , 3 Selected Aluminium Angle By Others

4 Selected Screw By Others

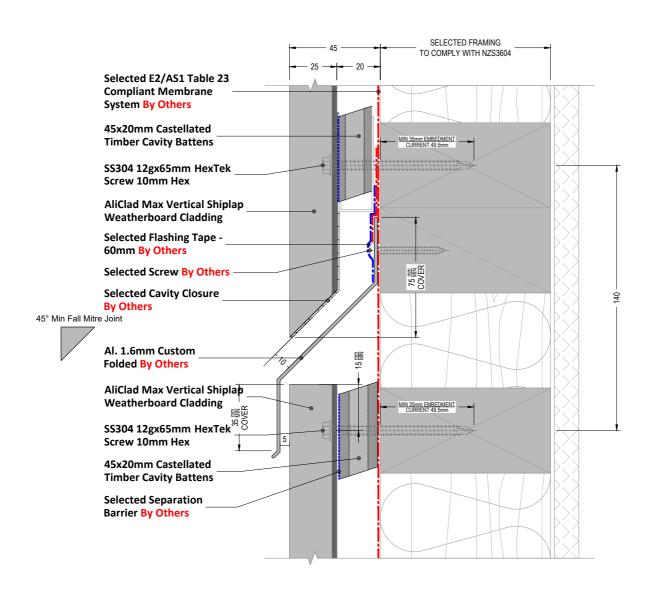
Detail Number

AC-V-TB-2.4 Version

[v2.3]

THE BUILDING AGENCY





NOTE 1

Flashings and Angles are not included in the system

NOTE 2

Cavity Closer are not included in the system

Hori. Joint_Typical

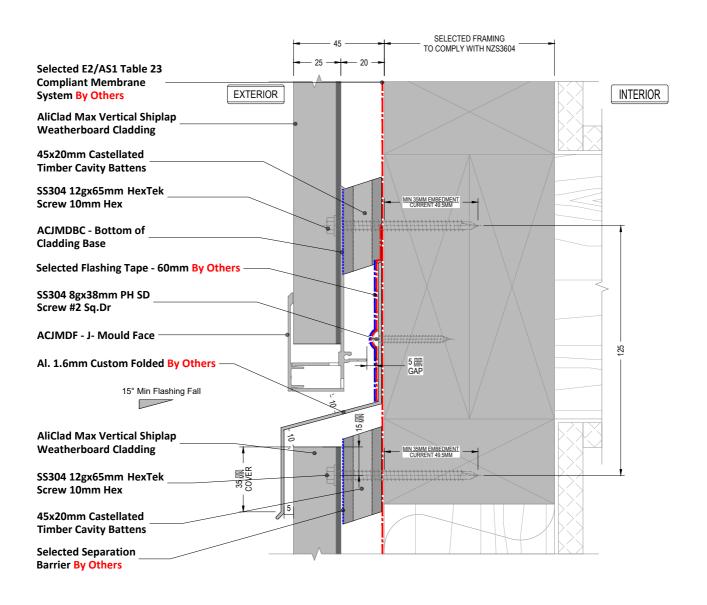
Detail Number

AC-V-TB-3.1

Version

[v2.3]





NOTE

Flashings and Angles are not included in the system

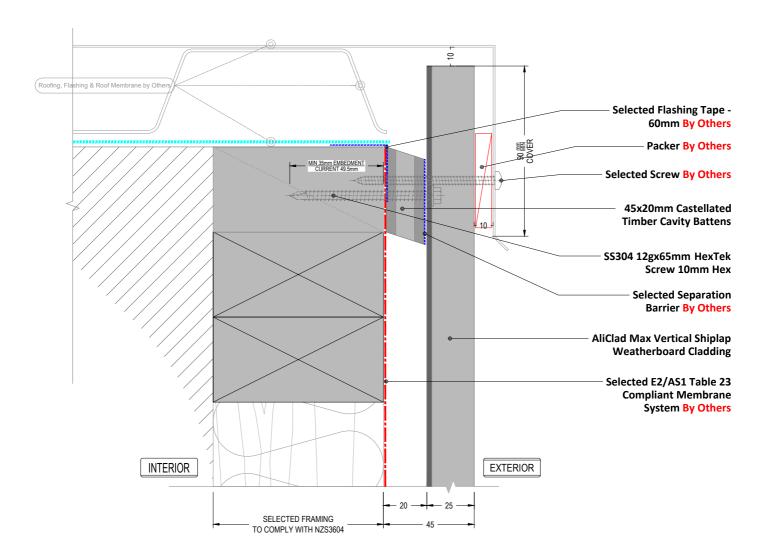
Interstorey Joint

Detail Number

AC-V-TB-3.2

Version





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

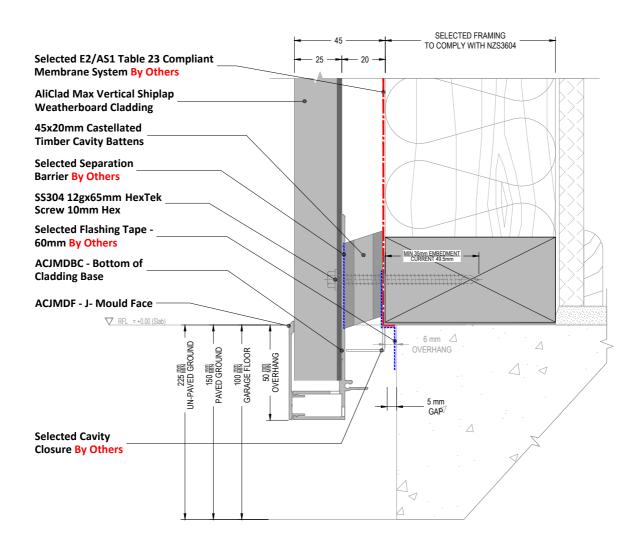
TOP Cladding Parapet

Detail Number

AC-V-TB-4.1

Version





NOTE

Cavity Closer are not included in the system

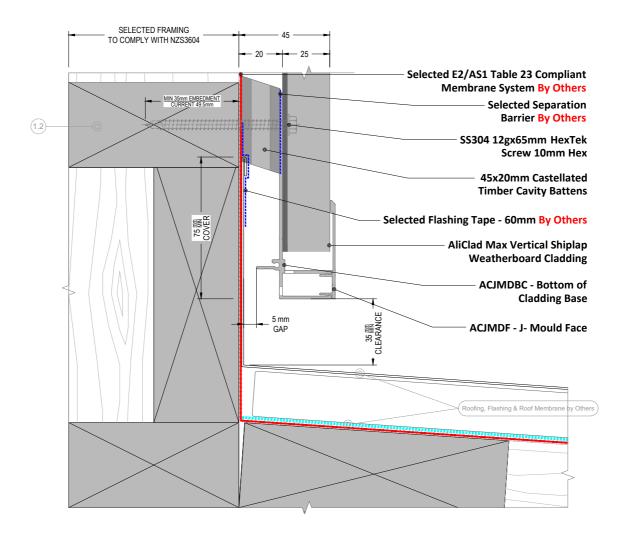
BTM Cladding G.L

Detail Number

AC-V-TB-4.2

Version





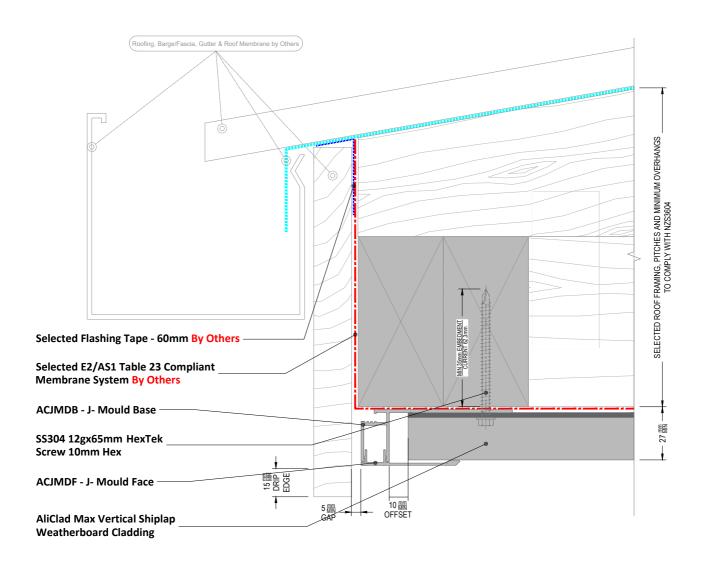
BTM Cladding Apron Roof

Detail Number

AC-V-TB-4.4

Version





NOTE

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

-By Others

Top Cladding Barge/Fascia Board

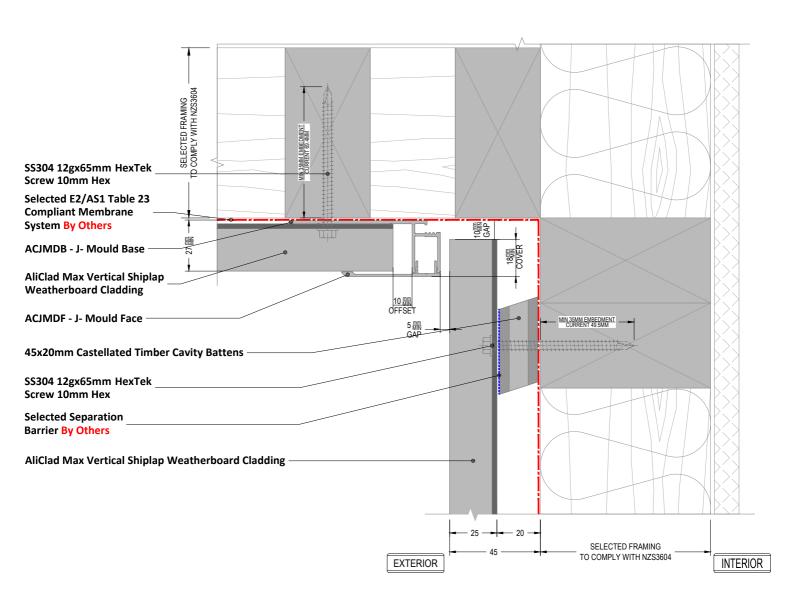
Detail Number

AC-V-TB-4.8

Version

[v2.3]





NOTE

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

-By Others

Wall BLW_Soffit <90°

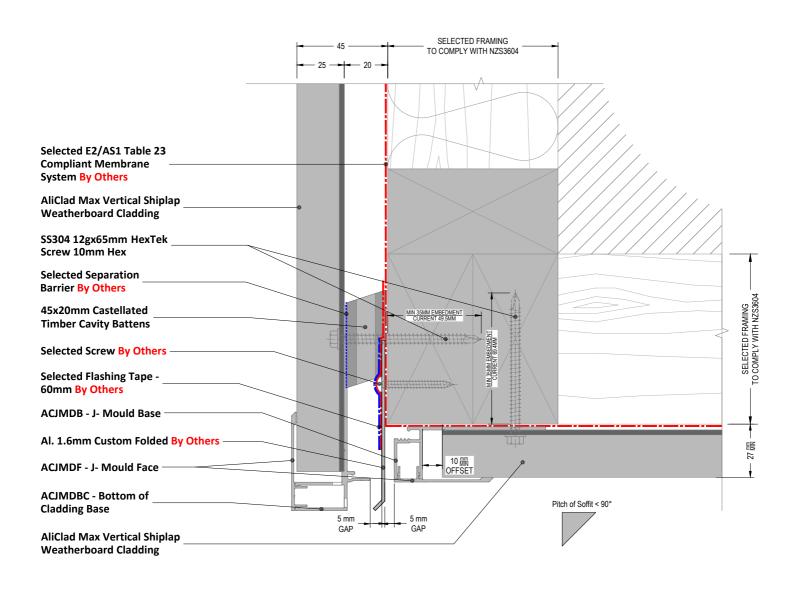
Detail Number

AC-V-TB-5.1

[v2.3]

Version

THE BUILDING AGENCY



NOTE 1

Weathering membrane under soffit is not required, but is recommendable for air barrier performance when a rigid wind barrier is not in use. -By Others

NOTE 2

Flashings and Angles are not included in the system

Wall ABV_Soffit <90°

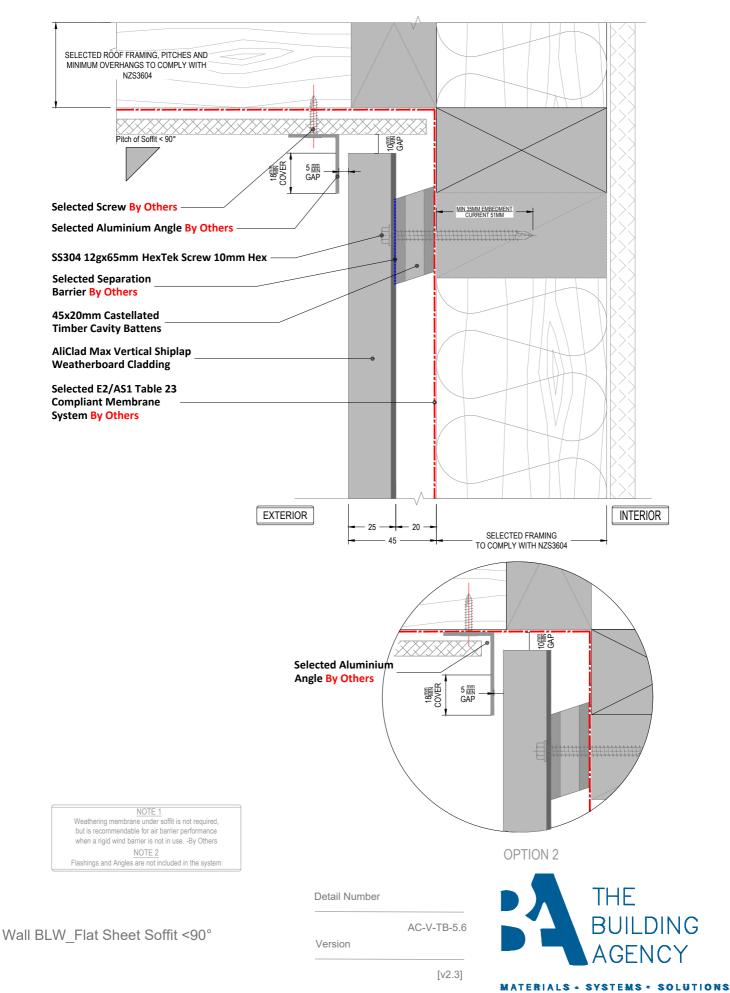
Detail Number

AC-V-TB-5.2

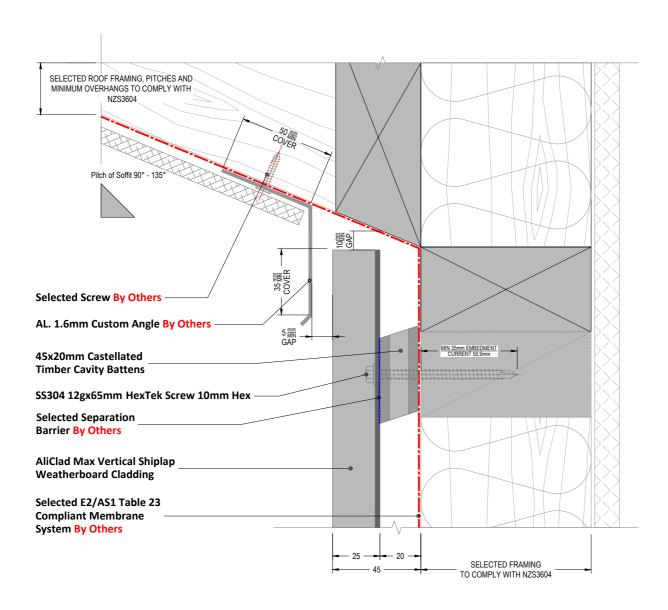
Version

[v2.3]





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NOTE

Weathering membrane under soffit is not required, but is recommendable for air barrier performance when a rigid wind barrier is not in use. -By Others

NOTE 2

Flashings and Angles are not included in the system

Wall BLW Flat Sheet Soffit >90°

Detail Number

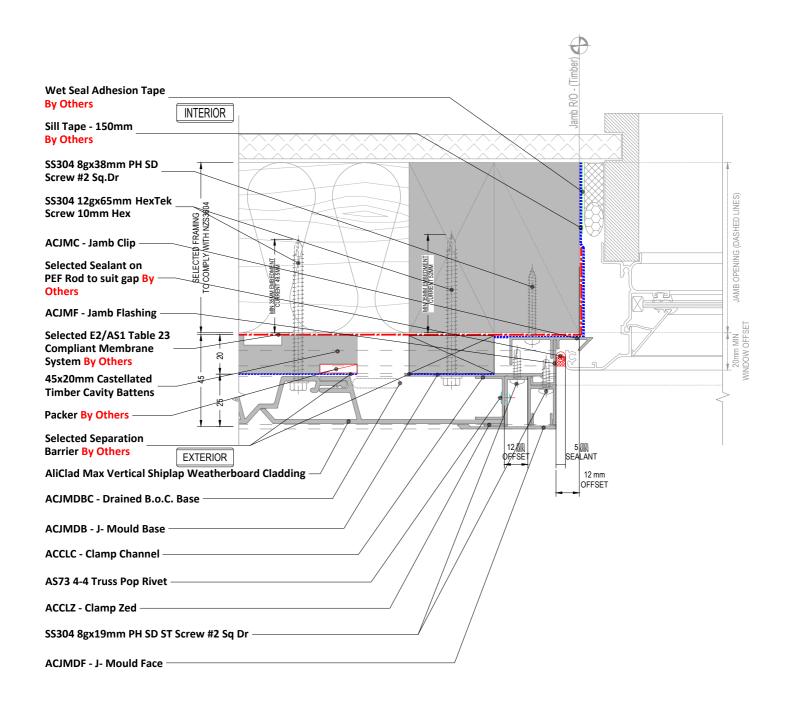
AC-V-TB-5.8

Version

[v2.3]



Vricryd Wyx



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

Window Jamb_Recessed

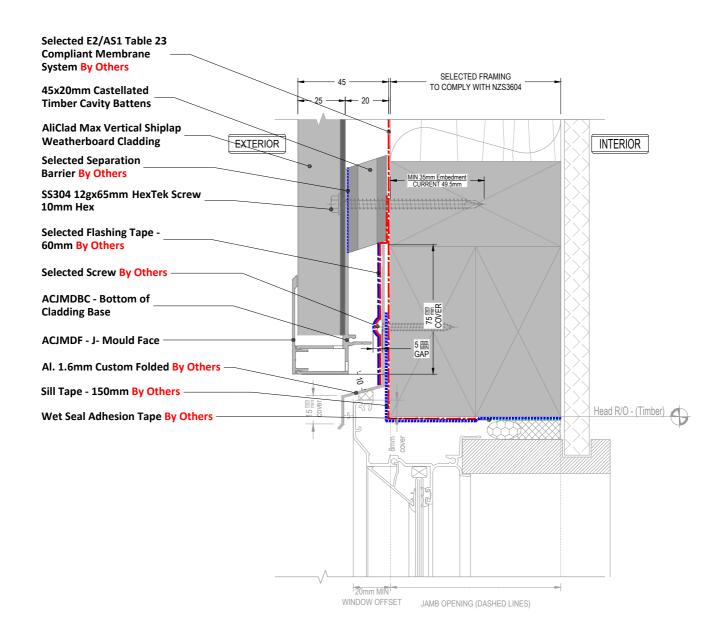
Detail Number

AC-V-TB-7.1

Version

[v2.3]





NOTE 1

Refer to drawing "7.1" for Sill/Jamb Junction

NOTE 2

Flashings and Angles are not included in the system

Window Head Recessed

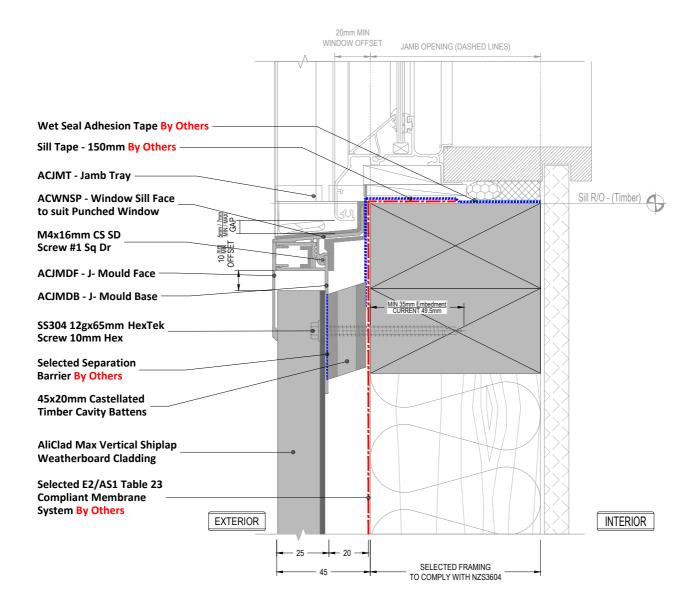
Detail Number

AC-V-TB-7.2

Version







NOTE

Refer to drawing "7.1" for Sill/Jamb Junction

Window Sill Recessed

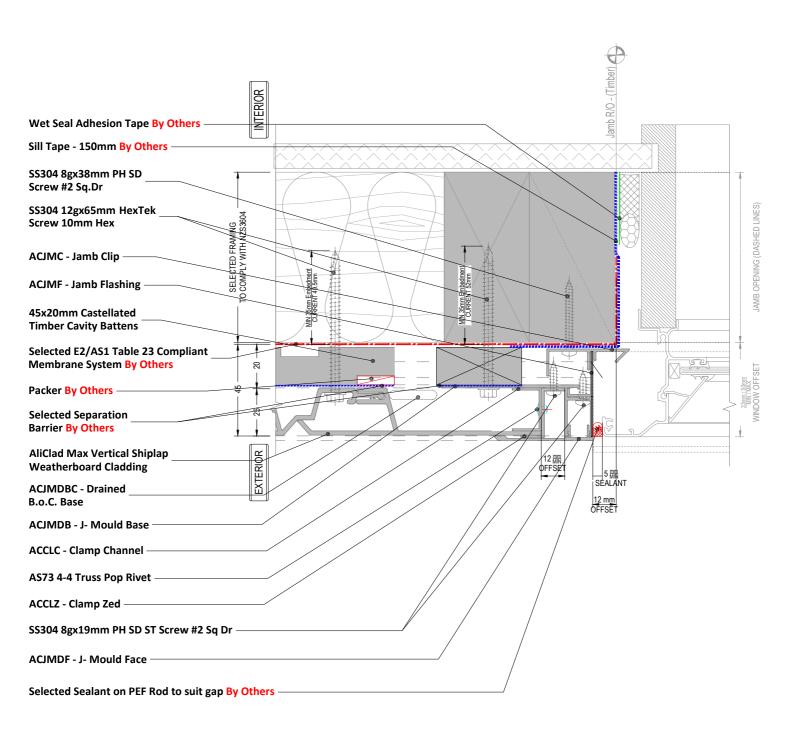
Detail Number

AC-V-TB-7.3

Version

[v2.3]





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

Window Jamb_WANZ/Supported

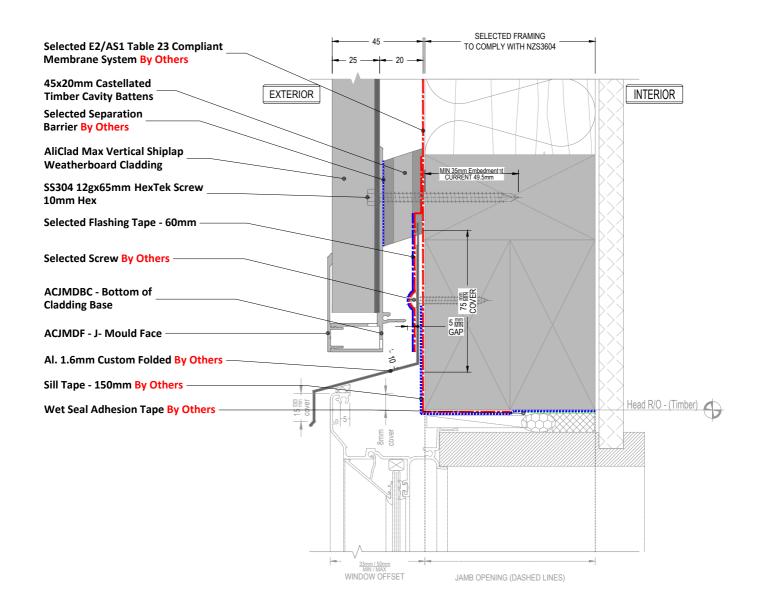
Detail Number

AC-V-TB-7.4

Version







NOTE 1

Refer to drawing "7.4" for Sill/Jamb Junction

NOTE 2

Flashings and Angles are not included in the system

Window Head WANZ/Supported

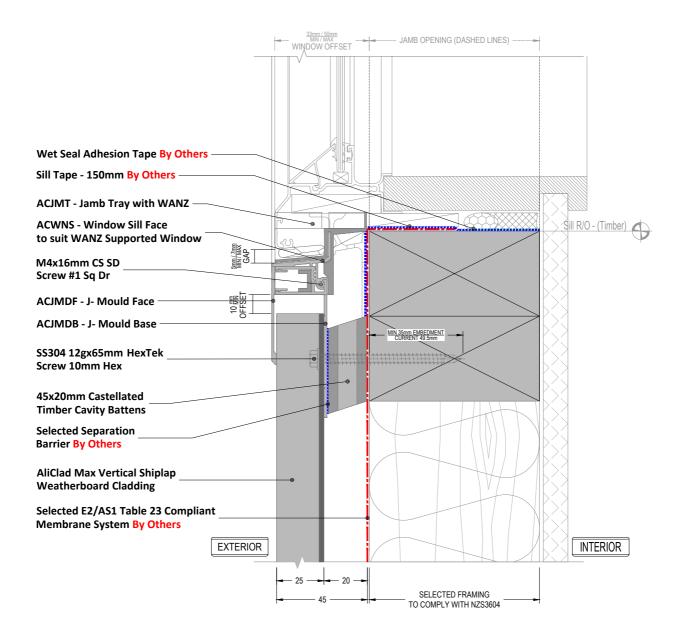
Detail Number

AC-V-TB-7.5

Version

[v2.3]





NOTE

Refer to drawing "7.4" for Sill/Jamb Junction

Window Sill_WANZ/Supported

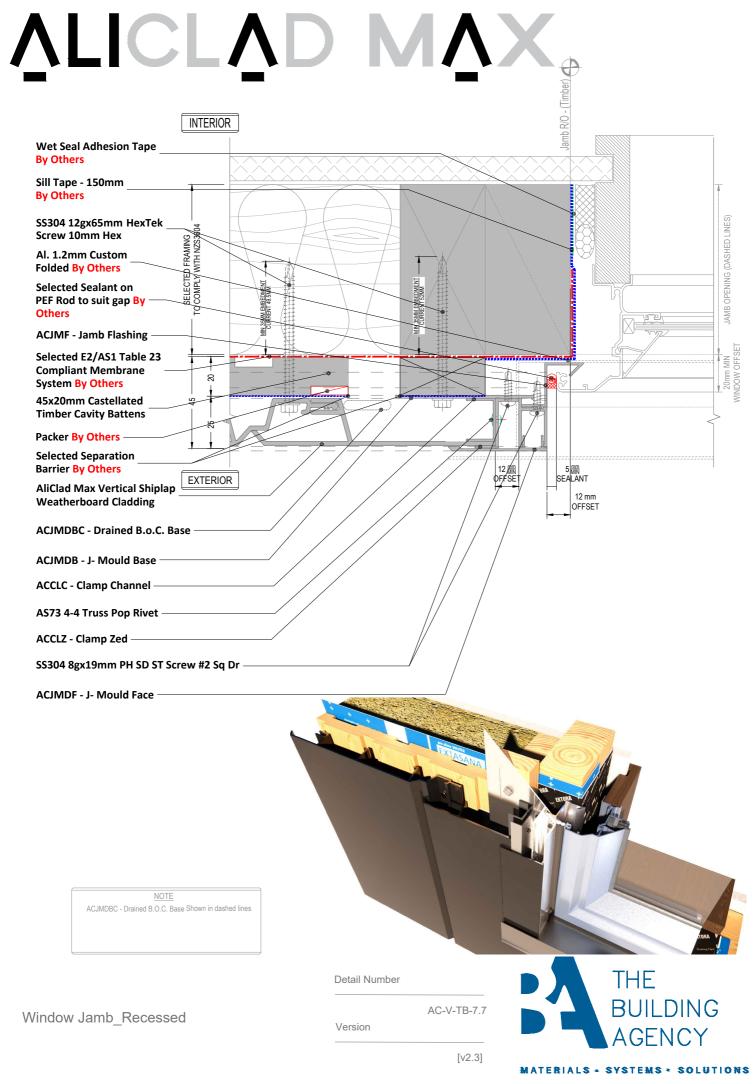
Detail Number

AC-V-TB-7.6

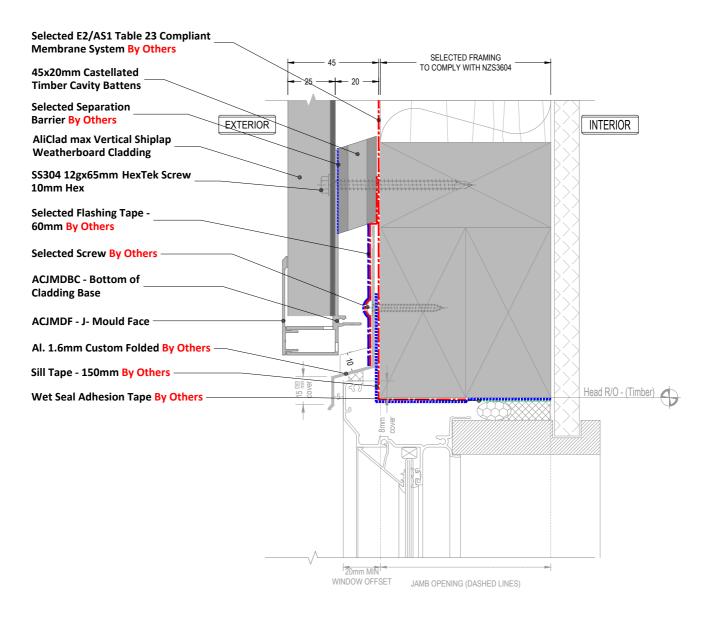
Version

[v2.3]

THE BUILDING AGENCY







NOTE 1

Refer to drawing "7.7" for Sill/Jamb Junction

NOTE 2

Flashings and Angles are not included in the system

Window Head Recessed



Detail Number

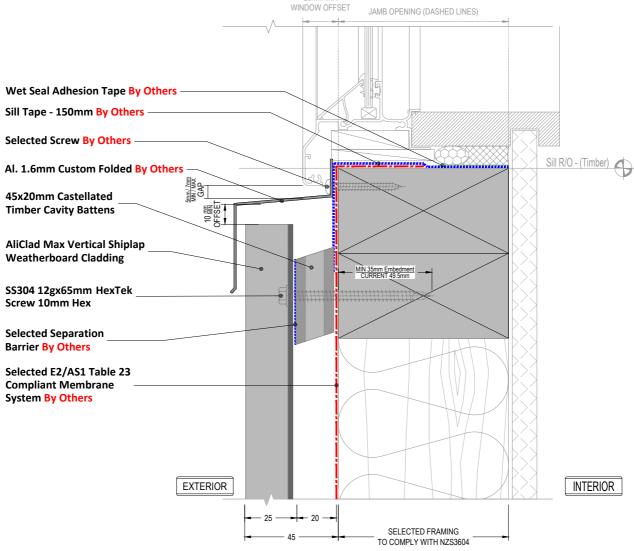
AC-V-TB-7.8

Version

[v2.3]

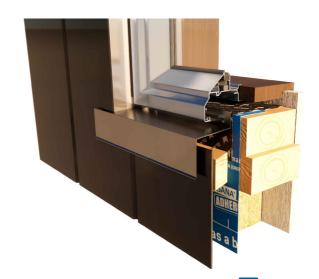






NOTE Refer to drawing "7.7" for Sill/Jamb Junction

Window Sill_Recessed



Detail Number

AC-V-TB-7.9

Version

THE BUILDING AGENCY

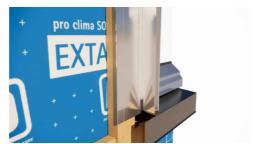
[V2.3] MATERIALS - SYSTEMS - SOLUTIONS

























INSTALLATION SEQUENCE

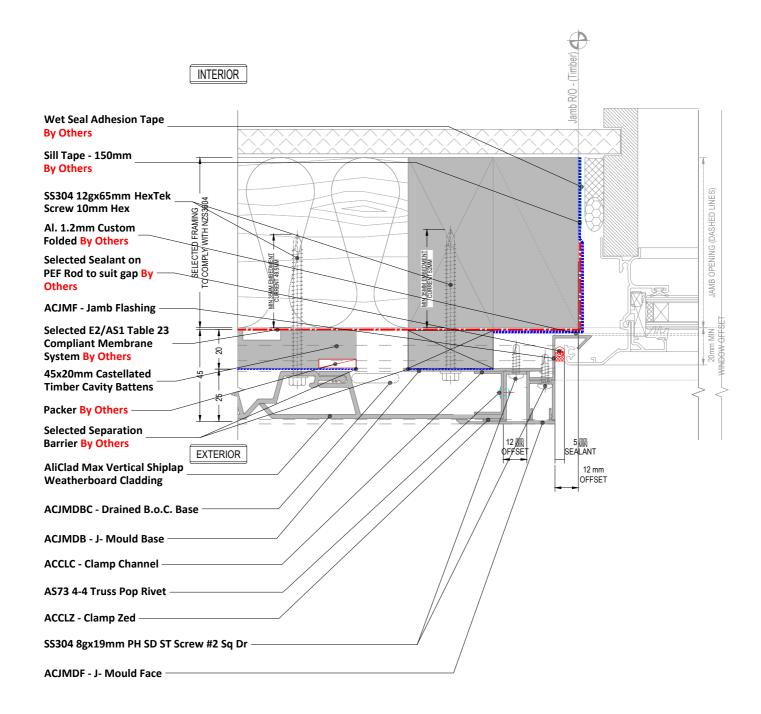
Detail Number

AC-V-TB-8.0

Version

[v2.3]





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

Door Jamb_Recessed

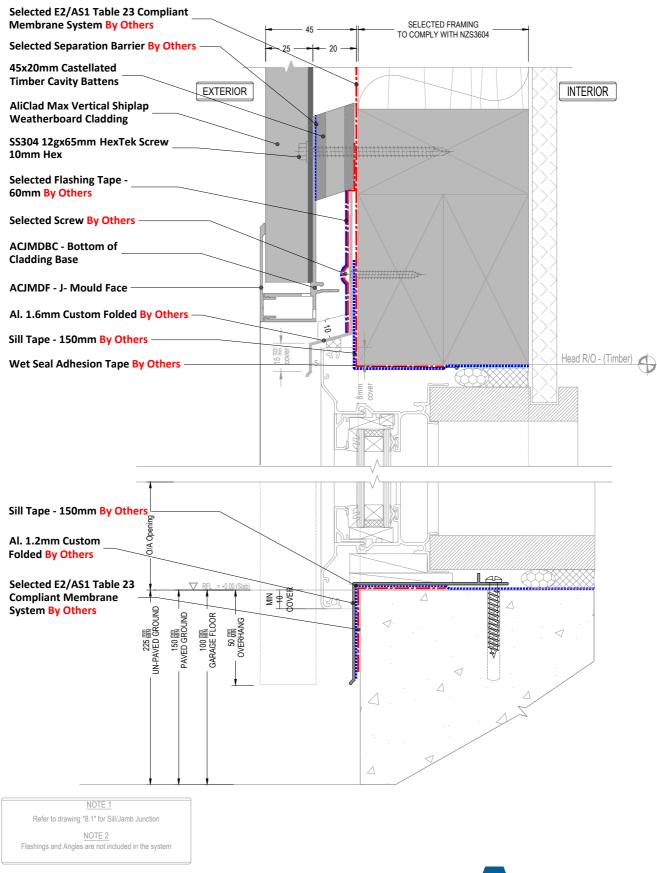
Detail Number

AC-V-TB-8.1

Version







Door Head & Sill Recessed

Detail Number

AC-V-TB-8.2

Version

[v2.3]

































INSTALLATION SEQUENCE

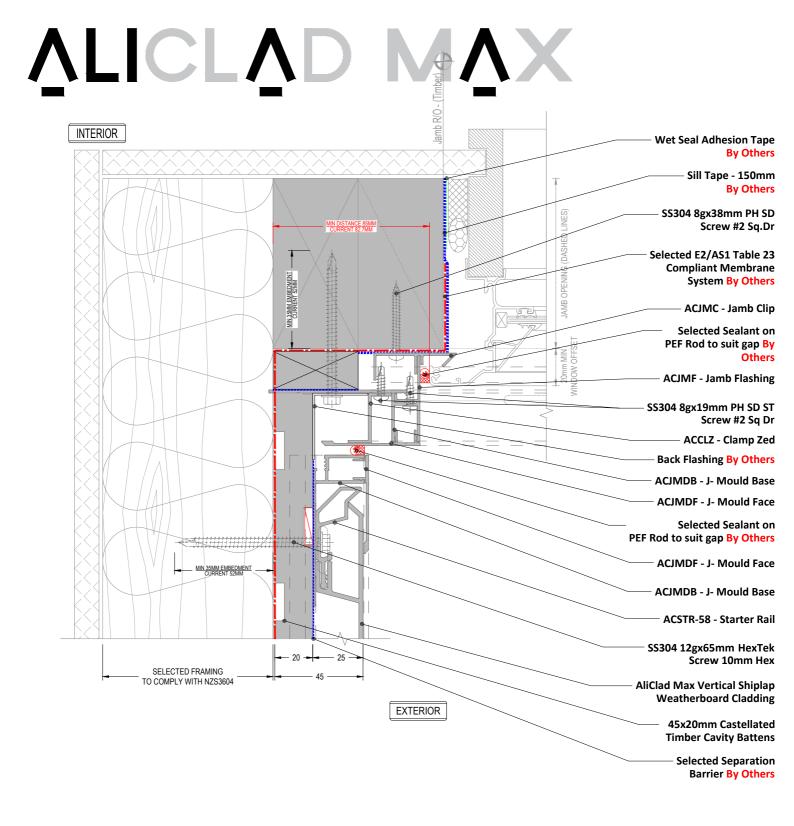
Detail Number

AC-V-TB-8.3

Version

[v2.3]







Window Jamb_Corner

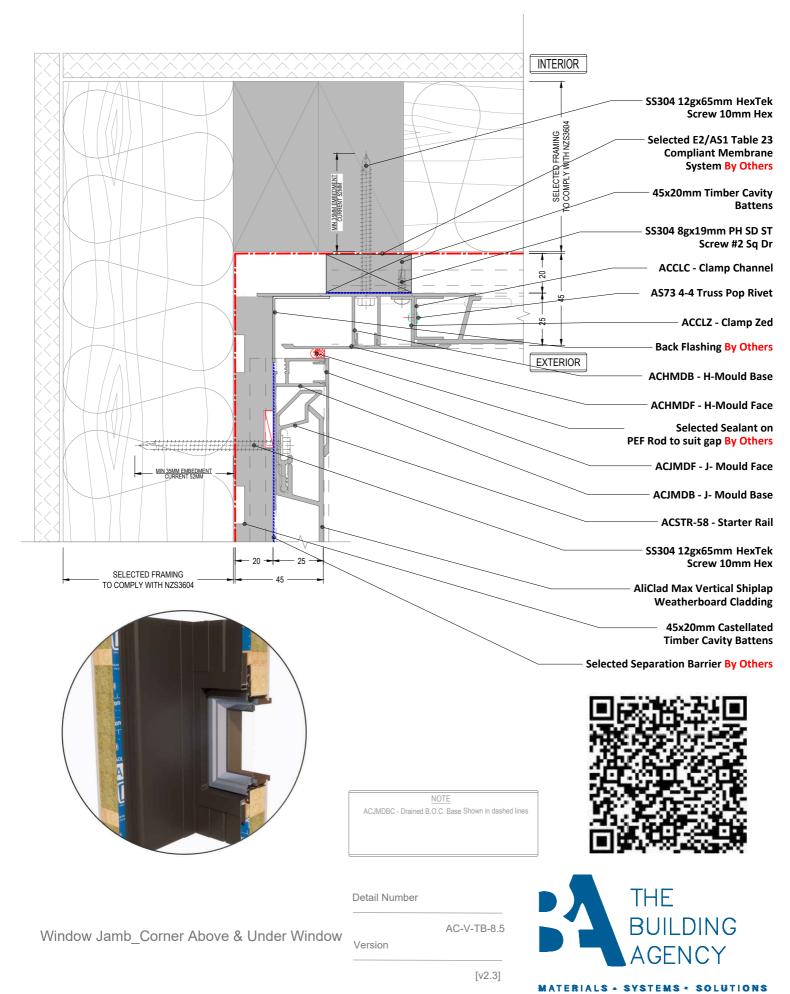
Detail Number

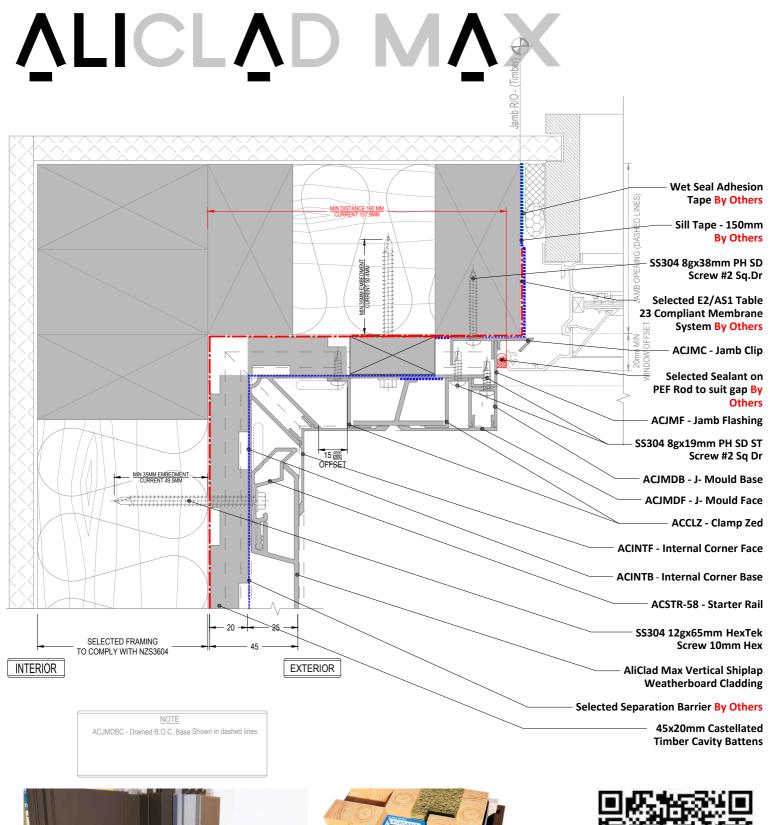
AC-V-TB-8.4

Version

[v2.3]













Internal Corner to Window Jamb

Detail Number

AC-V-TB-8.6

Version

[v2.3]

THE BUILDING AGENCY