

# ULLTRA CLAD

+ ALUMINIUM CLADDING SYSTEM

AN ULLRICH ALUMINIUM COMPANY



NON-COMBUSTIBLE  
TESTED AND CERTIFIED  
BAL-40 & AS1530.1

ARCHITECTS  
MANUAL  
DIRECT FIX



+

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# GENERAL INFORM -ATION



## + CLADDING WITH CONFIDENCE

ULLTRACLAD ALUMINIUM CLADDING IS AN INTERLOCKING POWDER COATED HORIZONTAL AND VERTICAL WEATHERBOARD SYSTEM, WHICH IS DESIGNED TO BE USED AS A COMPLETE EXTERNAL WALL CLADDING SYSTEM FOR RESIDENTIAL AND LIGHT COMMERCIAL TYPE BUILDINGS.

The system includes horizontally and vertically fixed Ulltraclad Aluminium Weatherboard, internal and external corner mouldings, starter strips, board jointers, board locators, joinery flashings and accessories.

Ulltraclad Aluminium Weatherboards are produced in a rusticated weatherboard profile, with either a smooth, corrugated or grooved (Tee Board) face, a bevel back weatherboard profile (Traditional), or a flat face with negative joint detail (Shadoline) and are powder coated on the exposed surfaces.

When installed, the cladding is effectively 15mm thick. Cladding extrusions are available in the following widths: Tee = 140mm, Traditional = 150mm, Vertical = 175mm, Standard = 190mm, Corrugated = 185mm, Shadoline = 205mm, Shadoline 100 = 205mm, Infinity = 205mm, V-Groove = 205mm.

### COMPONENTS

System components supplied by Ullrich Aluminium Pty Ltd for use with Ulltraclad Aluminium Cladding include:

- + **STARTER STRIP:** An extruded aluminium profile used to locate and secure the bottom of the first course of weatherboards. The starter strip is available in a powder coated finish.
- + **EXTERNAL & INTERNAL CORNER MOULDING:** Extruded aluminium 90° two-piece internal and external corner mouldings available in a powder coated finish.
- + **BOARD JOINTER:** Extruded aluminium

jointer for joining lengths of Ulltraclad weatherboard. Powder coated finish available.

- + **BOARD LOCATOR:** An extruded aluminium locator used to locate the bottom edge and secure the top edge of individual weatherboard courses. The board locators are 60mm long and are pre-drilled for fixing.
- + **HEAD AND JAMB FLASHINGS:** Extruded aluminium to suit the window or door trim opening. The flashings are available in a powder coated finish.
- + **FIXINGS:** Depending on installation requirements, use 25mm x 8g type pan head stainless steel screws, 25mm x 2.5mm galvanised clouts OR 25mm x 8g self drilling metal screws.
- + **STANDARD LENGTH:** 5.1m. However, shadoline board is also available in 6.1m lengths. Other lengths are available based on project size and requirement.

### ULLTRACLAD WEATHERBOARDS

Ulltraclad Aluminium Weatherboards and accessories are extruded by Ullrich Aluminium Co Ltd using 6060 T5 grade aluminium alloy. Ulltraclad is available finished in a series of Dulux and Interpon powder coat colours. Other non-standard colours as well as anti-graffiti and timber look finishes are also available on request.

### HANDLING & STORAGE

Ulltraclad weatherboards and components must be stacked flat, off the ground and supported on a level platform. They must be kept dry either by storing under cover or providing waterproof covers to the stack. Care must be taken to avoid damage to powder coated surfaces. Weatherboards must always be carried on edge.

# DESIGN

DESIGN RESPONSIBILITY - THE SPECIFIER FOR THE PROJECT MUST ENSURE THAT THE DETAILS PROVIDED BY ULLRICH ALUMINIUM PTY LTD ARE SUITABLE FOR THE INTENDED APPLICATION AND THAT ADDITIONAL DETAILING IS PROVIDED FOR SPECIFIC DESIGN OR ANY AREAS THAT FALL OUTSIDE THE SCOPE AND SPECIFICATIONS OF THIS LITERATURE.

This literature covers the use of Ulltraclad Aluminium Cladding using Ulltraclad weatherboards as an external wall cladding for buildings within the following scope:

- + Constructed with timber or steel framing complying with the BCA requirements.
- + Situated in AS1170.2 and AS4055 (residential) Building Wind Zones up to, and including cyclonic C3.

Ulltraclad weatherboards must only be installed on a flat surfaces. Ulltraclad Aluminium Cladding is suitable for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. Ulltraclad Aluminium Cladding relies on the joinery meeting the requirements of AS2047 for the relevant Wind Zone.

For applications which are outside the scope of this literature and details not provided by Ullrich Aluminium Pty Ltd, the specifier must ensure that the design meets the relevant performance requirements of the Building Code of Australia (BCA). Ullrich Aluminium Pty Ltd recommends that professional design advice is sought in these circumstances.

## BUILDING REGULATIONS

Ulltraclad Aluminium Cladding, if designed, used and

installed in accordance with the statements and conditions of this literature will meet the following provisions of the Australian Building Code: Structure, Durability, External Moisture, Hazardous Building Materials

Reference: National Construction Code NCC Vol.1 Pt F1 Damp & Weather Proofing NCC Vol. 2 Pt 3.5.3 Wall Cladding.

## GROUND CLEARANCES

The finished floor level must have a minimum clearance to paved or unprotected ground as required by the BCA.

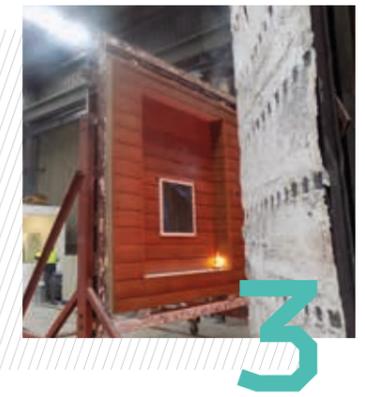
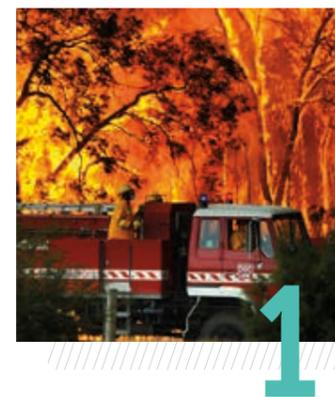
Ulltraclad Aluminium Weatherboards must overhang the bottom plate or a concrete slab as required by the BCA. The bottom edge of the Ulltraclad Aluminium Weatherboards must finish a minimum of 75mm above paved surfaces or unprotected ground.

## SPECIAL FRAMING REQUIREMENTS

Double studs at internal corners extra packers may be required at external corners extra studs for Ulltraclad vertical joiners framing must be straight and true to achieve an acceptable wall finish

## BUILDING WRAP

Ulltraclad Aluminium Cladding must be installed over building paper or wrap complying with BCA requirements, or other approved breather-type membranes.



INDEX: 1. Australian bush fire 2. BAL40 Testing process Set-up 3. BAL40 Cladding exposed to furnace (BAL40) Test number 38031900.1 carried out by Exova Warrington on 19.12.16 (AS1530.1) Test number FNC12673 carried out by CSIRO on 09.12.20



# INSTALLATION

THE FOLLOWING TOOLS SHOULD COVER MOST SITUATIONS: CHALK LINE, SPIRIT LEVEL, HAMMER, BATTERY DRILL, TIN SNIPS, HACK SAW, CIRCULAR SAW WITH AN ALUMINIUM CUTTING BLADE, JIGSAW, CAULK GUN, APPROVED SEALANT.

Prior to installation of the window & door joinery:

- + Building wrap to exterior walls & flexible flashing tape system to window & door joinery openings.
- + Inner section of internal or external corner flashings.
- + Wall starter between internal or external corner flashings or vertical board jointer.
- + Inner soffit clip (if being used).
- + Ulltraclad weatherboards up to the bottom of the windows.

Following installation of window & door joinery:

- + Window flashing cut & surround window.
- + Ulltraclad weatherboards up to the top of the windows and doors.
- + Ulltraclad head flashing if required.
- + Remaining Ulltraclad weatherboards.
- + Outer soffit clip (if being used).
- + Outer section of internal/external corner flashing.

## + SYSTEM INSTALLATION

This section of the literature should be read in conjunction with the installation details. For each section of wall to be clad, repeat the following steps:

**STEP ONE:** The selected building wrap and flexible sill and jamb tape system must be installed by the building contractor in accordance with the manufacturer's instructions prior to the installation of the rest of the Ulltraclad Aluminium Cladding system.

**STEP TWO:** Wrap must be lapped 75mm minimum at horizontal joints and 150 mm minimum over studs at vertical joints. Particular attention must be paid to the installation of the building wrap and sill and jamb tapes around window and door openings to ensure a continuous seal is achieved and all exposed timber wall framing in the opening is protected. All penetrations through the building wrap must be sealed and joints sealed or lapped 150mm.

**STEP THREE:** To start, use a chalk line to set a reference line 45mm up from the underside of the bottom plate, making sure the line is level and continuous around the building. This line will be used for the installation of the wall starter which will overhang the under side of the bottom plate by 50mm. *Reference: illustration 2*

**STEP FOUR:** If there is more than one starting level on the building, work from the lowest point up to the next level and try to get the joint in the boards to coincide with the higher starter. Some adjustment of the starter positions may be required to achieve this.

Measure the height from the underside of the bottom plate to the underside of the soffit. Cut the soffit clip base and fix to the structure. If the wall to be clad is longer than 6m, cut a vertical board jointer to the height of the wall plus 50mm and fix to the wall framing at the selected location ensuring the jointer is plumb.

**STEP FIVE:** If the wall has a door opening in it, cut a section of window flashing to the height of the joinery unit and fix to the wall.

**STEP SIX:** Measure between the soffit clips and cut the starter strip 40mm less than this measurement. Fix the starter strip to the bottom plate using the reference line as the set-out point for the top of the starter. Leave a 20mm gap between the starter strip and the soffit clips at each end. This gap is important as it acts as a drain point for any moisture that may enter the wall. At the top of the wall, fix the inner soffit clip to the wall framing. *Reference: illustration 1, 2 & 3*

**STEP SEVEN:** Measure between the soffit clips alignment stop legs and cut the first weatherboard to this dimension less 8mm. Fit the weatherboard over the starter strip so it securely clips in place. Leave a 4mm gap at each end and secure the top of the weatherboard to each stud with locator clips. Depending on installation requirements use 25mm x 8g type pan head stainless steel screws, 25mm x 2.5mm galvanised clouts OR 25mm x 8g self drilling metal screws. At the centre of the board (approximately), put a bead of sealant adhesive on the bottom of locator clip before fitting it to the board. This acts as a hold for expansion. Carry on installing the weatherboards up to the underside of a window opening, securely locating the bottom of each board over the locator clip and fixing the top of the board to each stud as detailed. *Reference: illustration 4 & 5*

**STEP EIGHT:** If a section of the weatherboard overhangs the window opening, cut away this section of board and fix the weatherboard in place. Note: Do not install a locator clip at the window opening at this stage.

**STEP NINE:** Cut a length of sill flashing to the width of the window opening and secure along the back edge. Measure from the bottom of the sill flashing to the top of the window frame and cut a jamb flashing to that length. Cut out the side of the jamb flashing so it sits over the board and finishes flush with the bottom of the sill flashing.

**STEP TEN:** Bend the bottom of the back face of the jamb flashing forward to divert any moisture away from the building paper. Repeat for both sides of the window. Once the jamb flashing has been installed, the weatherboard locator clip can be installed.

**STEP ELEVEN:** Complete the weatherboard installation up to the top of the window or door opening following instructions previously given. The aluminium window and door joinery and associated head flashings must be installed in accordance with the joinery manufacturer's instructions.

**STEP TWELVE:** At the top of the window or door, measure and cut a length of head flashing 160 mm longer than the width of the window or door frame. Cut the bottom of the channel in 70mm from both sides. Fold the channel floor down 90° and trim to 20mm in length. Install the head flashing with the fold fitting into the jamb flashing channel.

**STEP THIRTEEN:** Cut the next weatherboard to fit inside the head flashing channel. Apply a continuous bead of sealant along the cut edge and fit the board in place. Install the remaining weatherboards to complete the installation. *Reference: illustration 6*

**STEP FOURTEEN:** Once all weatherboards have been installed, cut the vertical soffit clip top and secure in place. Measure and cut the horizontal soffit clip to finish tight between the vertical soffit clips and secure in place. *Reference: illustration 7&8*

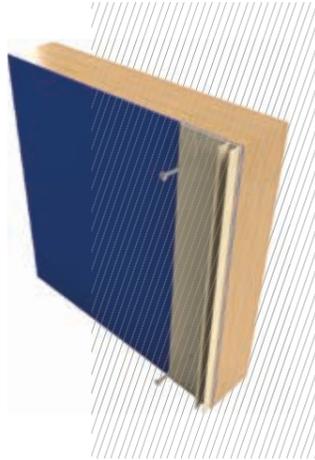
## CUTTING ULLTRACLAD ALUMINIUM WEATHERBOARDS

When cutting Ulltraclad Aluminium Weatherboards with a circular saw, apply a strip of masking tape to each side of the cut to prevent the paint surface from being damaged.

# + INSTALLATION GUIDE

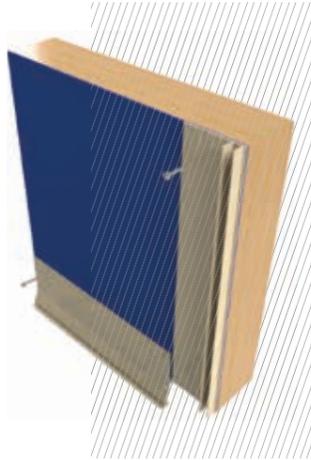
## ILLUSTRATION ONE

- + UA5831 Soffit clip base cut to full height of wall.
- + Depending on installation requirements, use 25mm x 8g type pan head stainless steel screws, 25mm x 2.5mm galvanised clouts or 25mm x 8g self drilling metal screws.



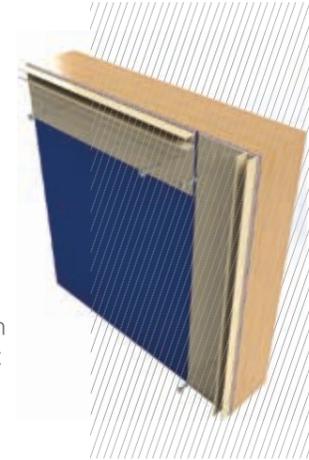
## ILLUSTRATION TWO

- + Install UA4862 starter strip using stringline as a guide. Fix to wall and leave 20mm gap from UA7095 male corner at each end.
- + Depending on installation requirements, use 25mm x 8g type pan head stainless steel screws, 25mm x 2.5mm galvanised clouts or 25mm x 8g self drilling metal screws.



## ILLUSTRATION THREE

- + Install horizontal UA5831 soffit clip base between vertical UA5831 soffit clip base.
- + Depending on installation requirements, use 25mm x 8g type pan head stainless steel screws, 25mm x 2.5mm galvanised clouts or 25mm x 8g self drilling metal screws.



## ILLUSTRATION FOUR

- + Install selected Ulltraclad board onto UA4862 starter strip.
- + Ensure 4mm gap each end.
- + Install UC1M1100 locator clips @ 300mm - 600mm centre studs using recommended screw fixings.



## ILLUSTRATION FIVE

- + Select Ulltraclad board and continue installation to last board located at the top of the wall.



## ILLUSTRATION SIX

- + The last Ulltraclad board top may require cutting to suit position with UA5831 soffit base.
- + Note - Fix final board with: 8g x 25mm pan head screws to hold the board until soffit top is installed.



## ILLUSTRATION SEVEN

- + Clip UA5832 soffit clip top to the UA5831 soffit clip base.
- + Ensure it is level with the bottom Ulltraclad board.



## ILLUSTRATION EIGHT

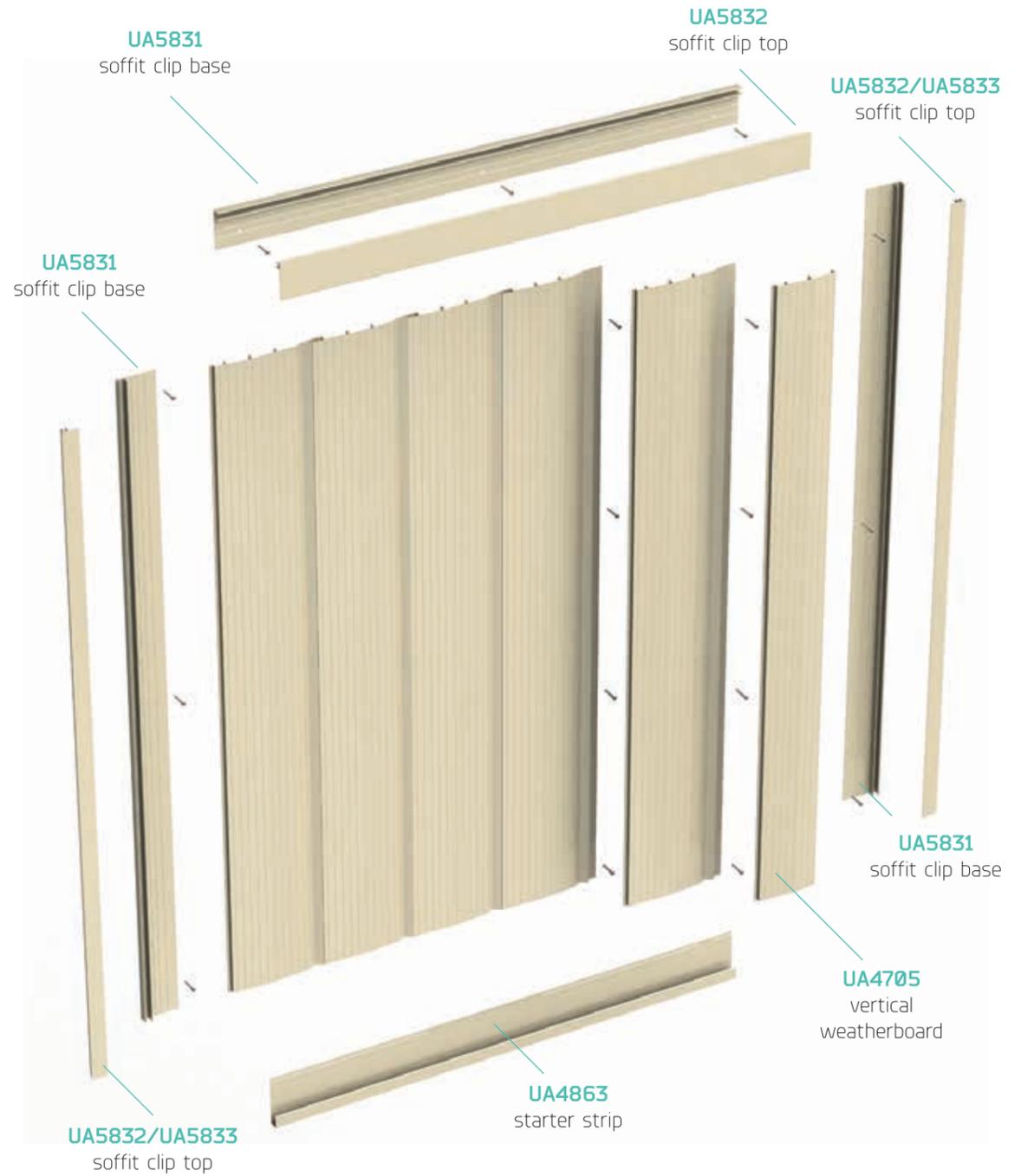
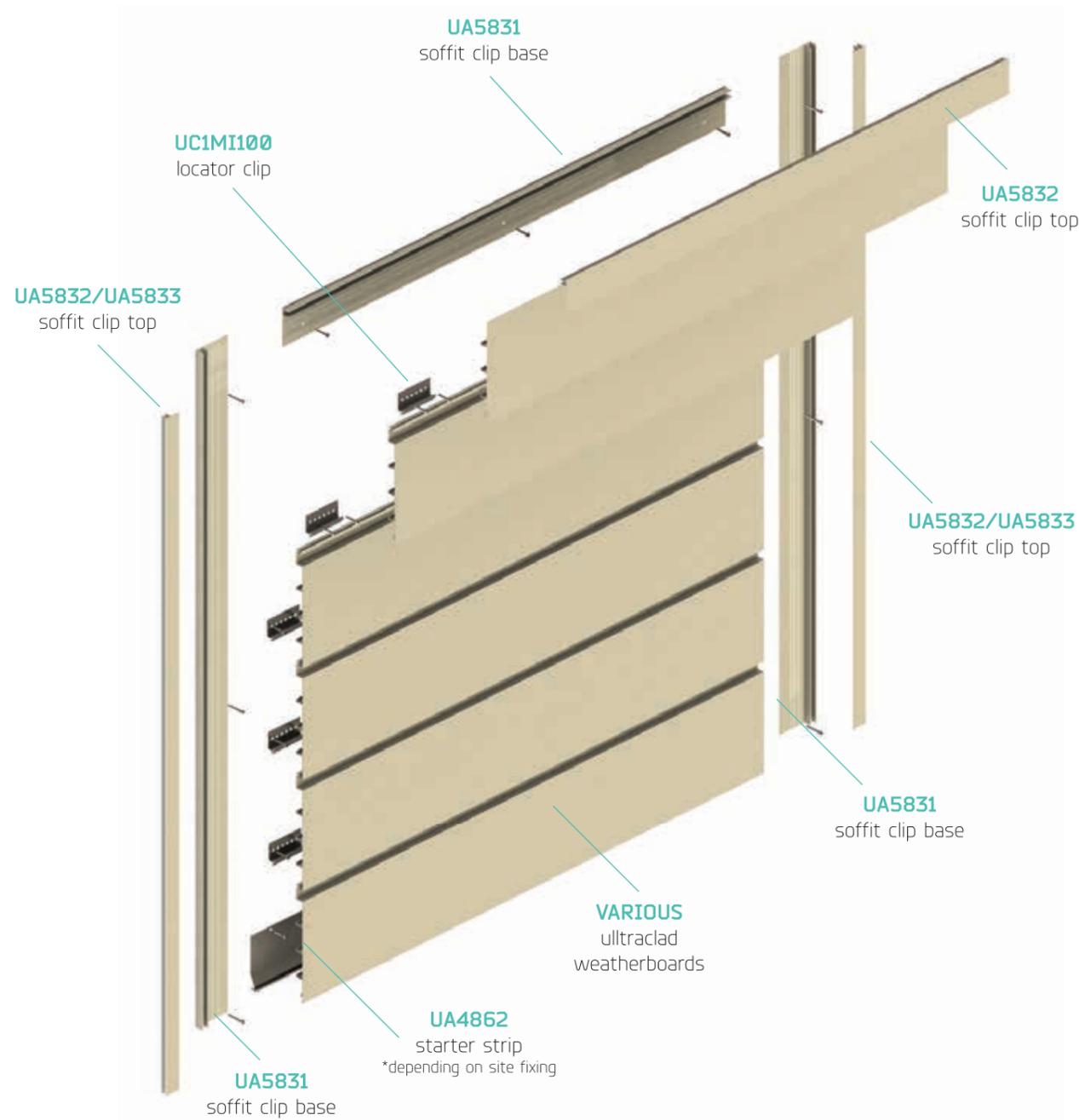
- + Tap UA5832 soffit top into the UA5831 soffit base until it is level with your selected Ulltraclad board and soffit clip.



\*NOTE: when fixing into steel, use a 25mm x 8g self drilling metal screw



# INSTALLATION DETAILS



\*\* For Illustrative purposes only - For various ulltraclad weatherboards locator clips are required

# MAINTENANCE

BUILDING OWNERS ARE RESPONSIBLE FOR THE MAINTENANCE OF ULLTRACLAD ALUMINIUM CLADDING. ANNUAL INSPECTIONS MUST BE MADE TO ENSURE THAT ALL ASPECTS OF THE CLADDING SYSTEM, INCLUDING FLASHINGS REMAIN IN A WEATHERPROOF CONDITION.

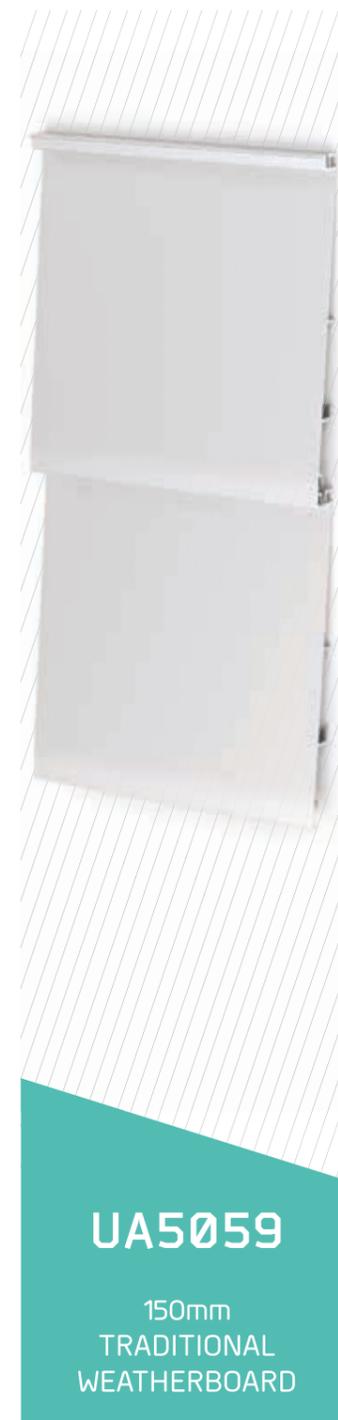
Any damaged areas or areas showing signs of deterioration which would allow water ingress, must be repaired immediately. Sealant and the like must be repaired in accordance with the sealant manufacturer's instructions.

Regular cleaning (at least 6 monthly) of the powder coating with water and a mild detergent is required to remove grime, dirt and organic growth, to maximise the life and appearance of the cladding. When cleaning powder coated surfaces, proceed as follows:

Carefully remove any loose deposits with a wet sponge. Use a soft, non-abrasive brush and a mild detergent solution to remove dirt, salt and other deposits. Rinse off with clean water.



## ULLTRACLAD WEATHERBOARDS





TESTED TO WITHSTAND THE  
HARSHEST OF AUSTRALIAN  
CONDITIONS

# ULLTRACLAD WEATHERBOARDS



**UA8010**

190mm  
STANDARD  
WEATHERBOARD



**UA5104**

185mm  
FULL CORRUGATED  
WEATHERBOARD



**UA6478**

205mm  
SHADOLINE  
WEATHERBOARD



**UA10942**

205mm  
SHADOLINE 100  
WEATHERBOARD



**UA10943**

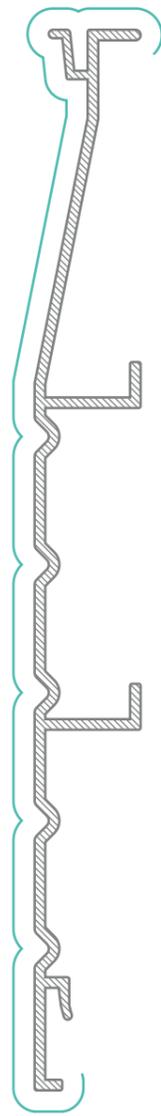
205mm  
INFINITY  
WEATHERBOARD



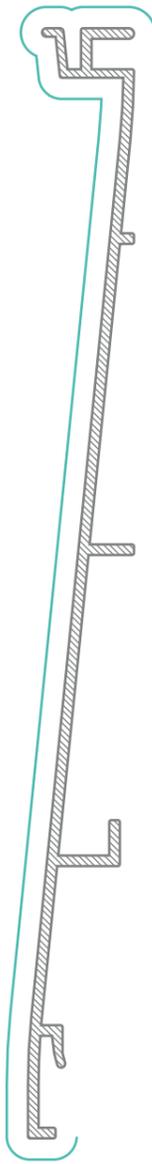
**UA12163**

205mm  
V-GROOVE  
WEATHERBOARD

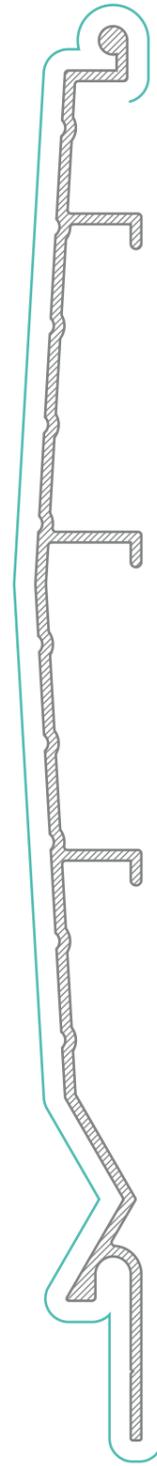
## WEATHERBOARDS



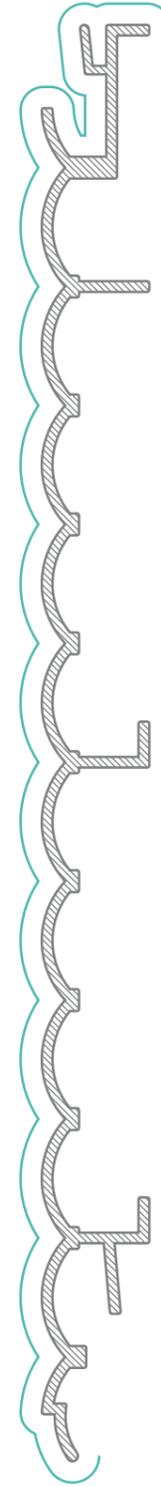
**UA 4917**  
140mm  
Tee Weatherboard  
AP = 444mm  
PP = 194mm



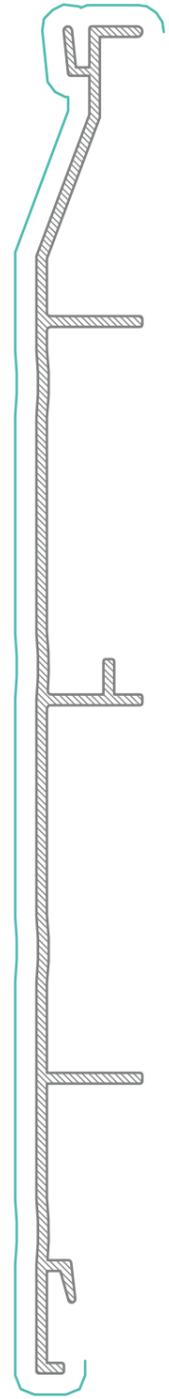
**UA 5059**  
150mm  
Traditional Weatherboard  
AP = 425mm  
PP = 214mm



**UA 4705**  
175mm  
Vertical Weatherboard  
AP = 540mm  
PP = 242mm



**UA 5104**  
185mm  
Full Corrugated Weatherboard  
AP = 619mm  
PP = 271mm

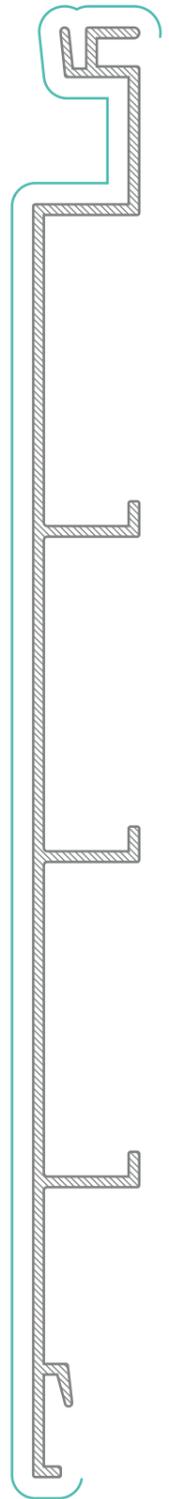


**UA 8010**  
190mm  
Standard Weatherboard  
AP = 523mm  
PP = 223mm

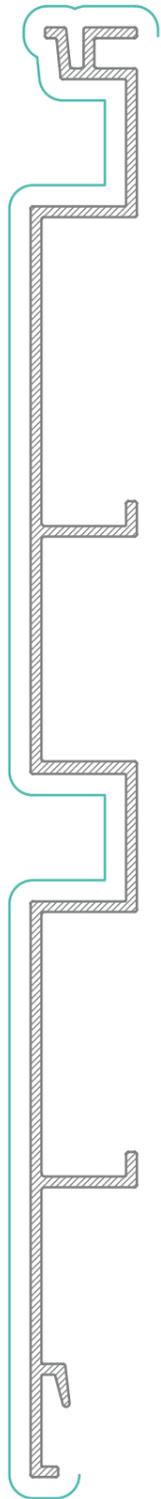
# + ULLTRACLAD PROFILES

SCALE 1: 1

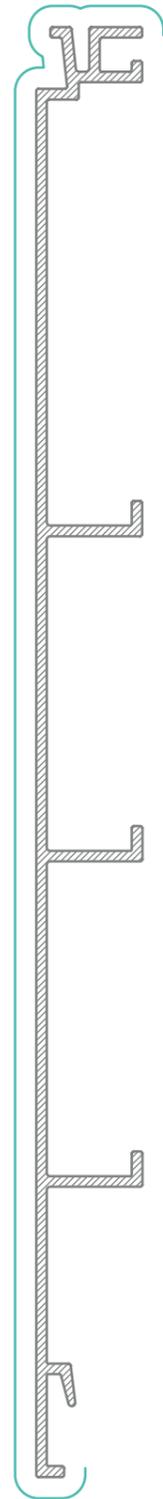
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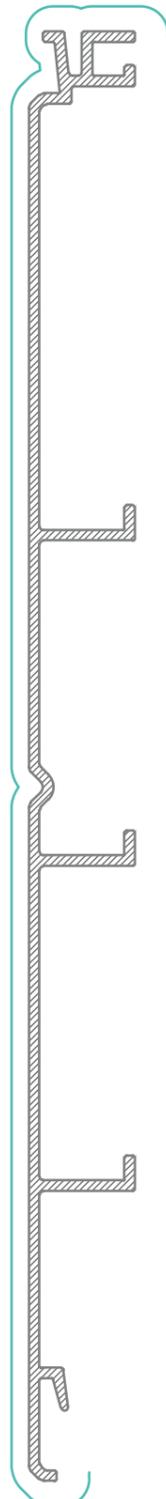
**UA 6478**  
200mm  
Shadoline  
Weatherboard  
AP = 599mm  
PP = 271mm



**UA 10942**  
200mm  
Shadoline 100  
Weatherboard  
AP = 622mm  
PP = 283mm

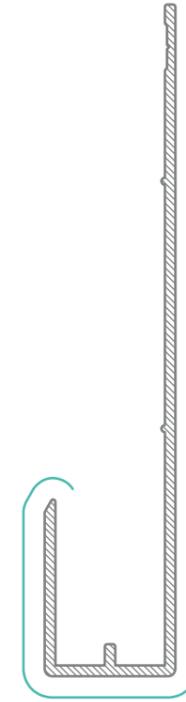


**UA 10943**  
200mm  
Infinity  
Weatherboard  
AP = 587mm  
PP = 239mm

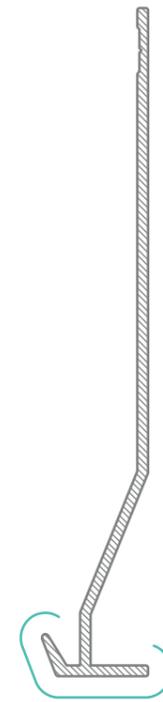


**UA 12163**  
200mm  
V-Groove  
Weatherboard  
AP = 587mm  
PP = 239mm

## STARTER STRIP

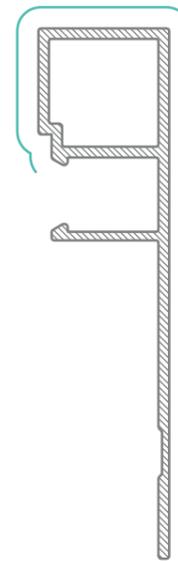


**UA 4863**  
Vertical Board Starter Strip  
AP = 280mm  
PP = 45mm

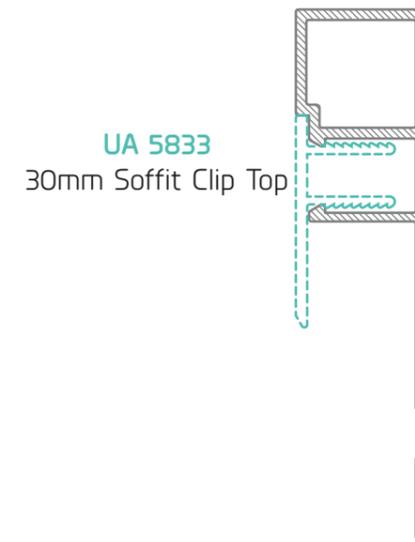


**UA 4862**  
Starter Strip  
AP = 228mm  
PP = 22mm

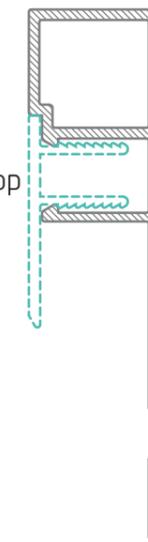
## JAMB CLIP



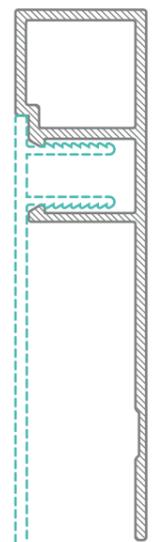
**UA 10627A**  
Jamb Sill Clip Base  
AP = 219mm  
PP = 36mm



**UA 5833**  
30mm Soffit Clip Top



**UA 5832**  
60mm Soffit Clip Top



**UA 10627A**  
Jamb Sill Clip Base

30mm & 60mm Soffit Clip clips into Jamb Base

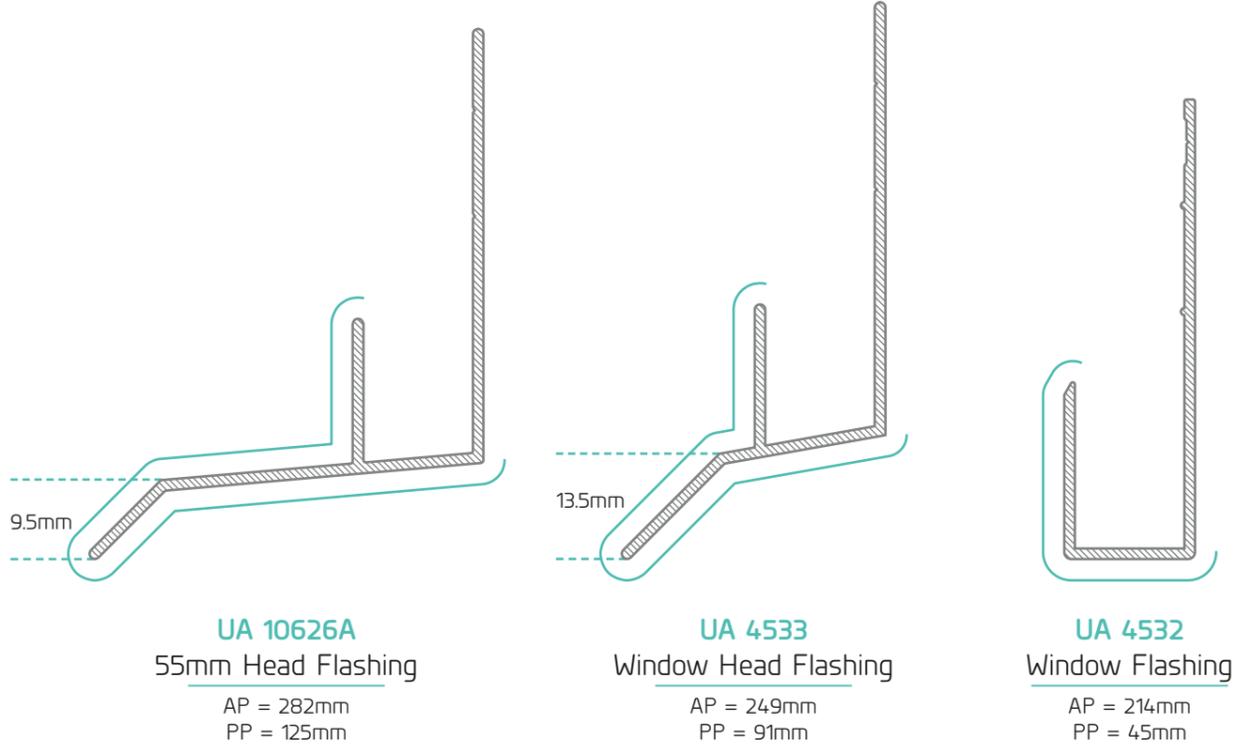


# ULLTRACLAD PROFILES

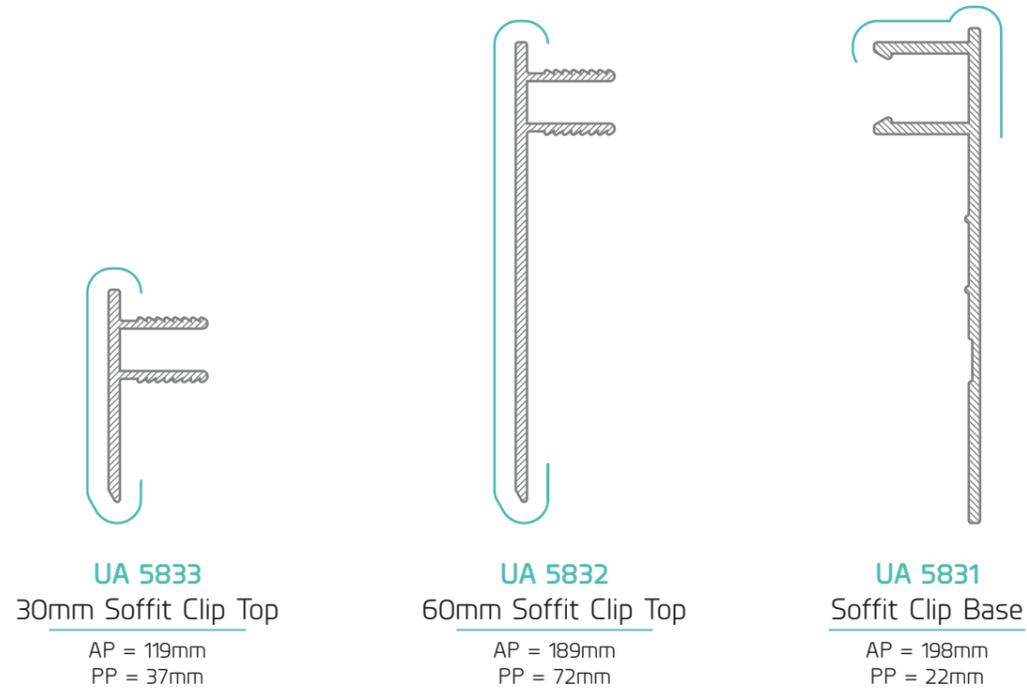
SCALE 1:1

SCALE 1:1

## WINDOW FLASHING



## SOFFIT CLIP

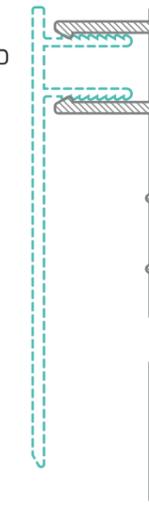


**UA 5833**  
30mm Soffit Clip Top



**UA 5831**  
Soffit Clip Base

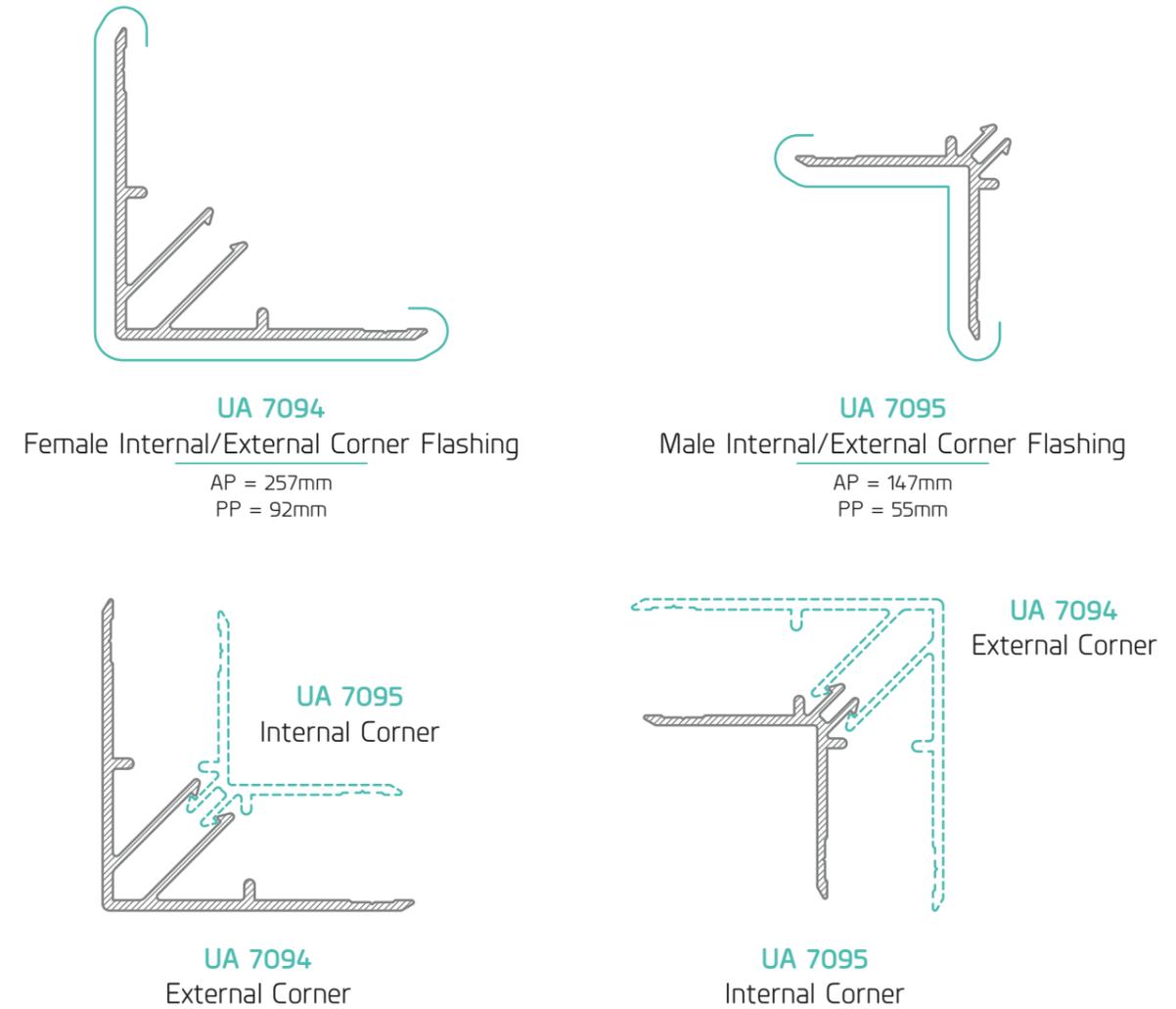
**UA 5832**  
60mm Soffit Clip Top



**UA 5831**  
Soffit Clip Base

30mm & 60mm Soffit Clip clips into Soffit Clip Base

## CORNER FLASHING



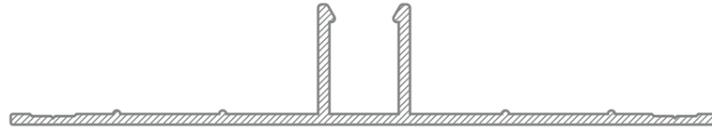
Male internal corner clips into Female external corner



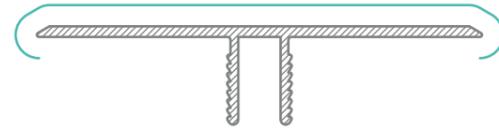
# ULLTRACLAD PROFILES

SCALE 1:1

## BOARD JOINTER

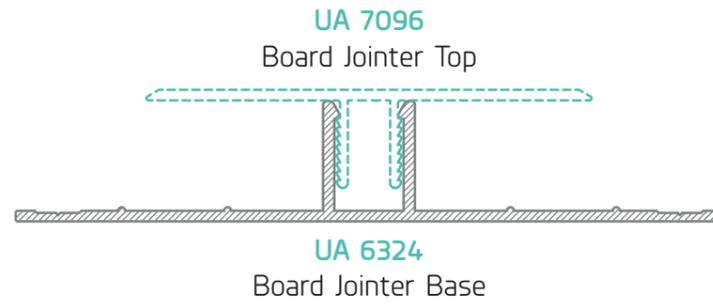


**UA 6324**  
Board Joints Base  
AP = 268mm  
PP = 0mm



**UA 7096**  
Board Joints Top  
AP = 184mm  
PP = 65mm

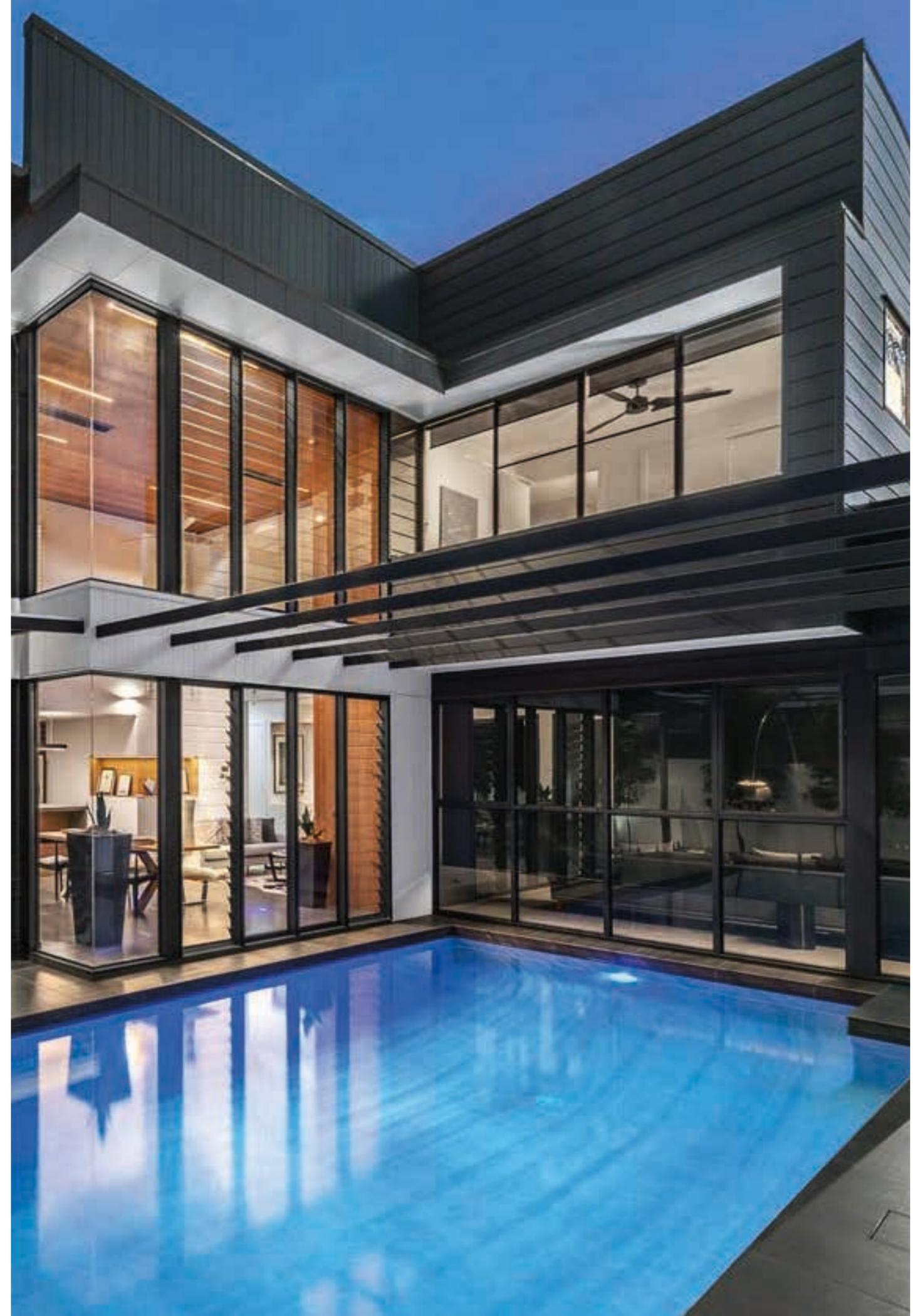
Top board jointer clips into Base jointer



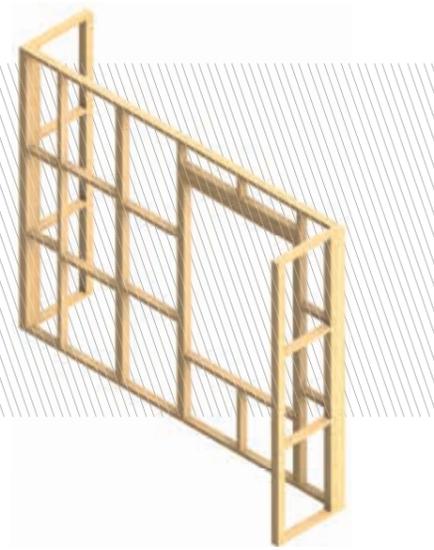
## LOCATOR CLIP



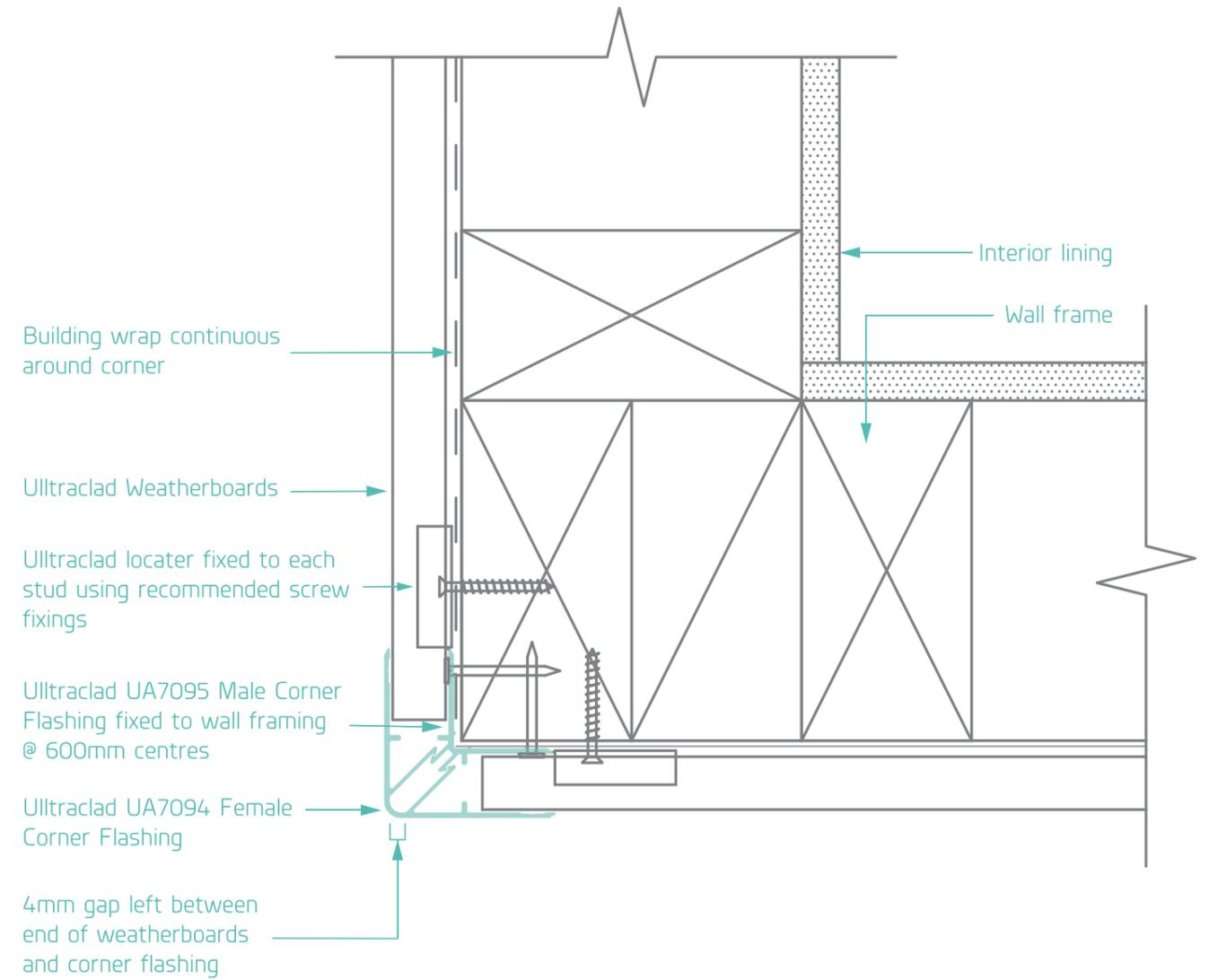
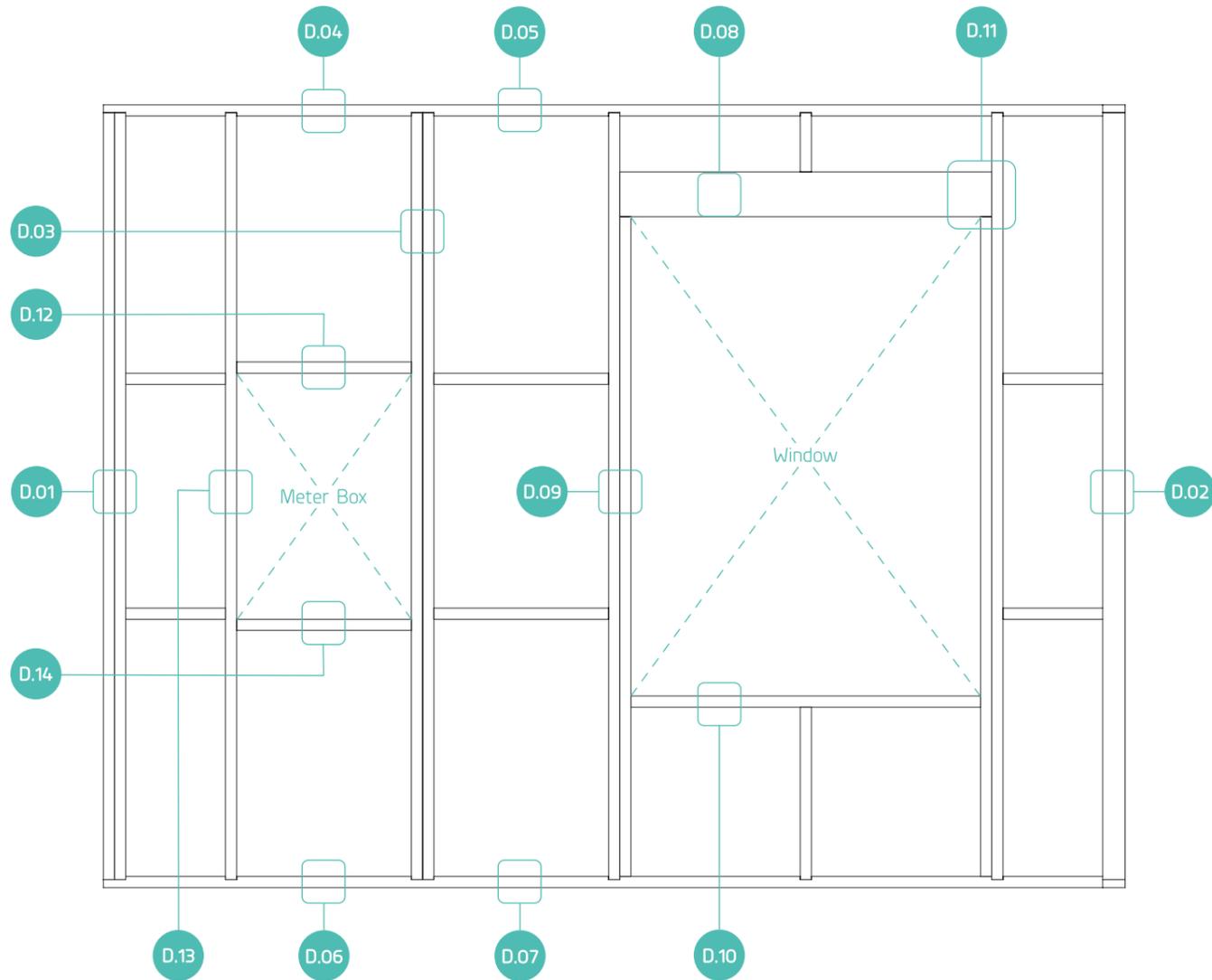
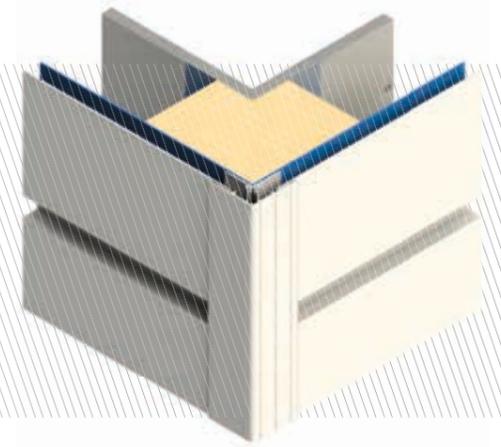
**UC1MI100**  
Locator Clip  
Pack [x100]



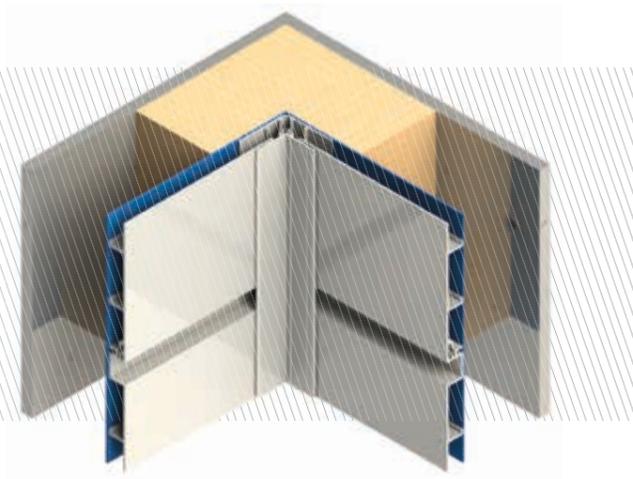
# WALL ELEVATION



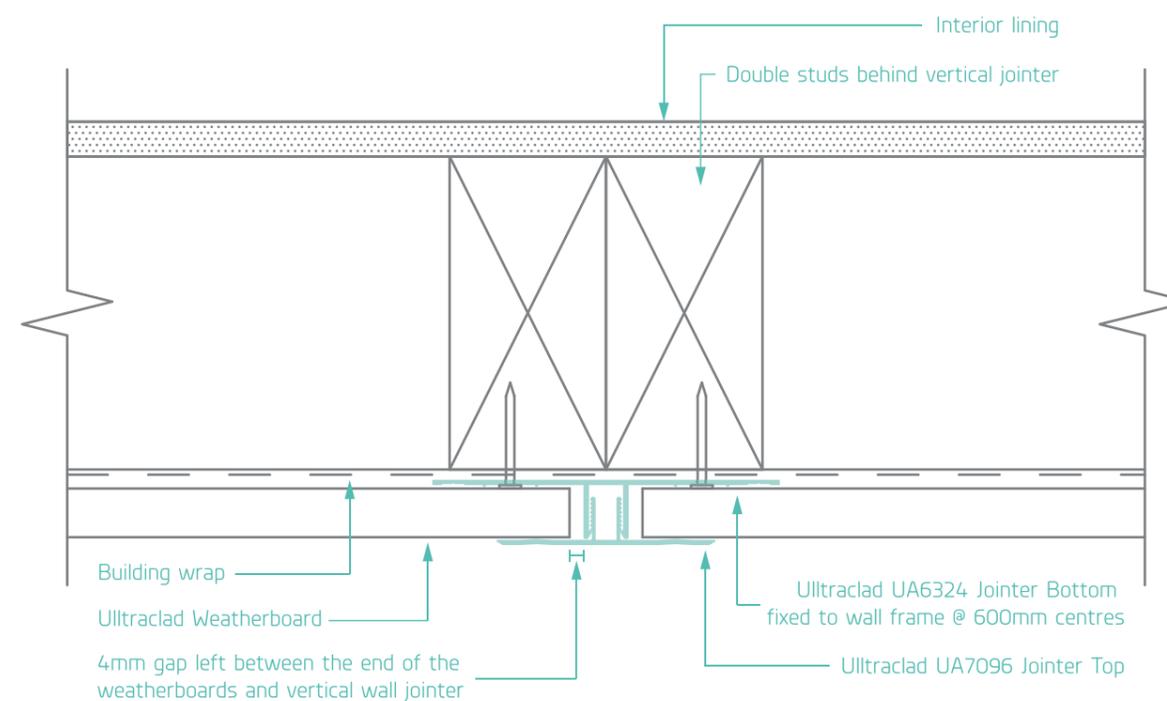
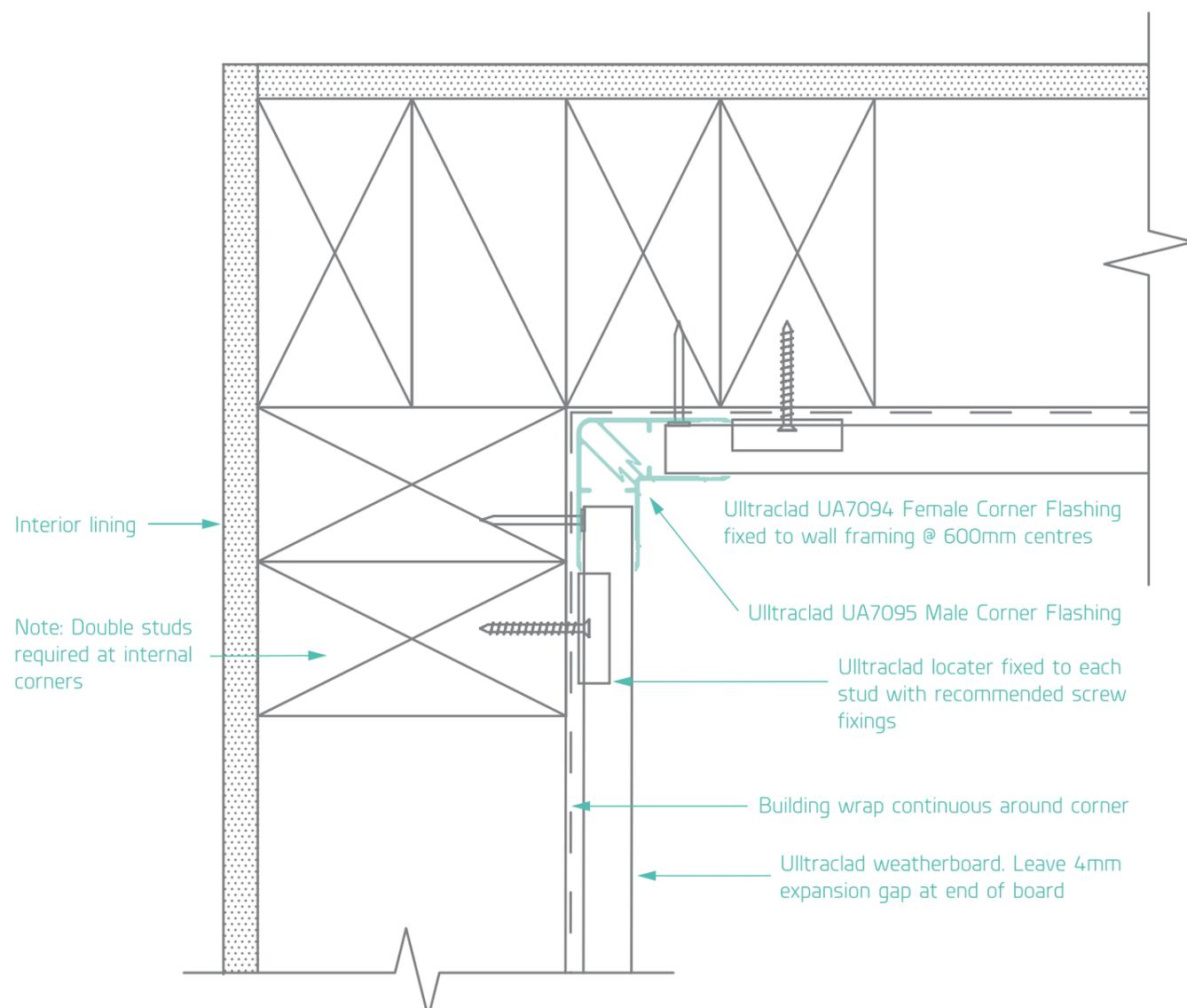
# D.01 EXTERNAL CORNER



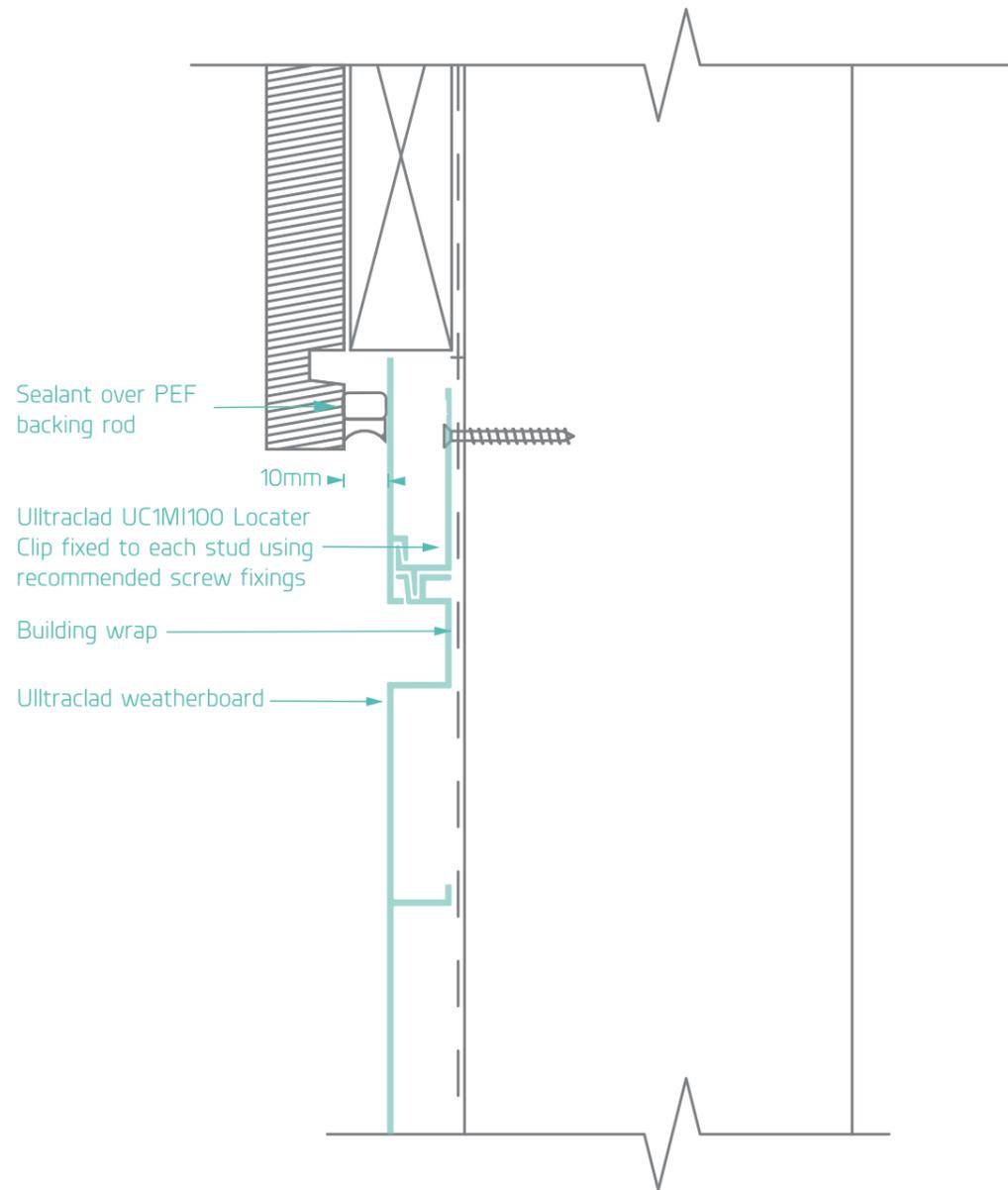
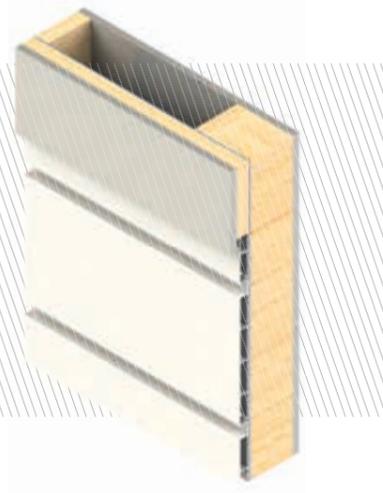
D.02  
INTERNAL  
CORNER



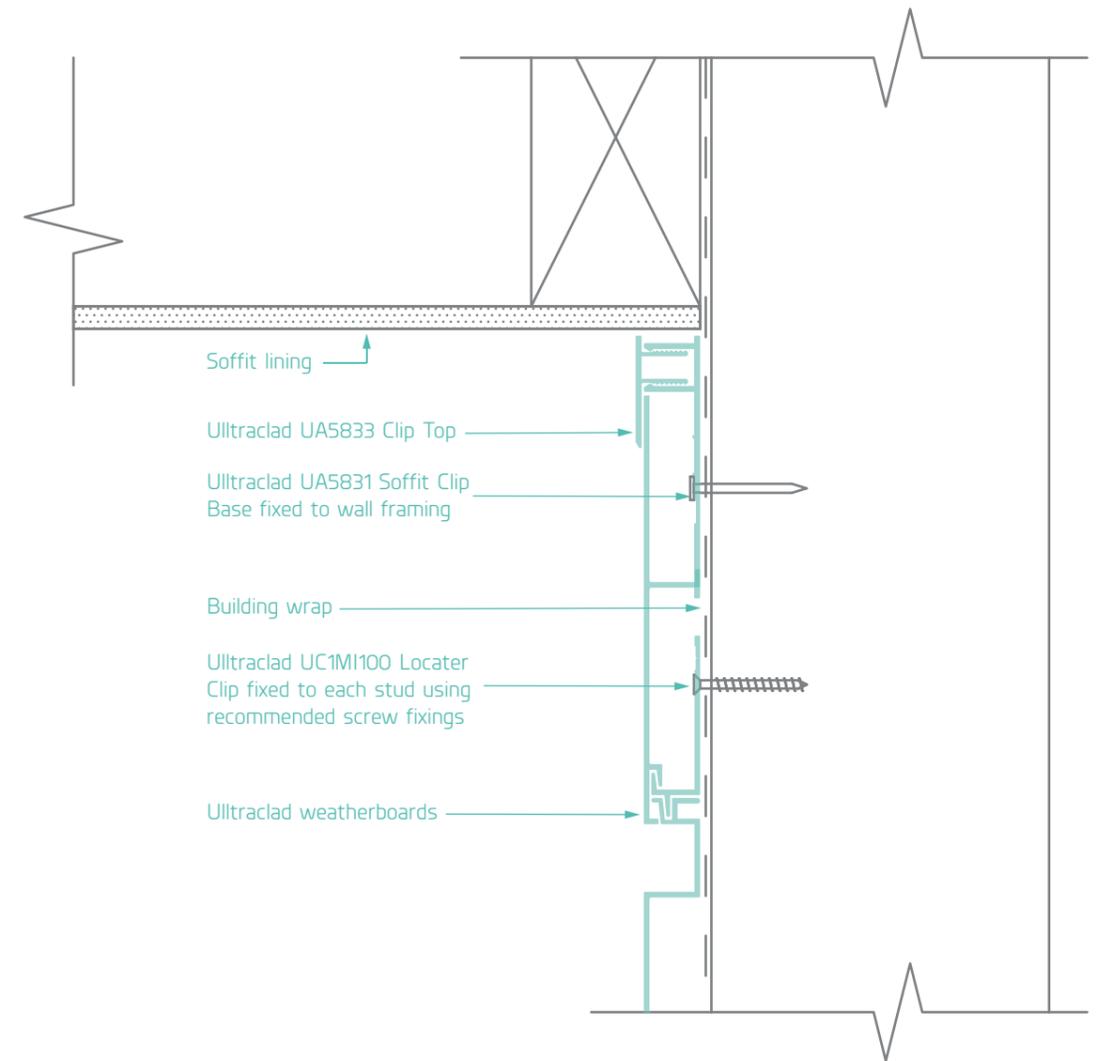
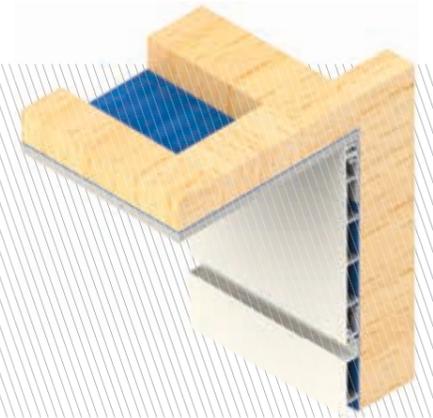
D.03  
VERTICAL WALL  
JOINTER



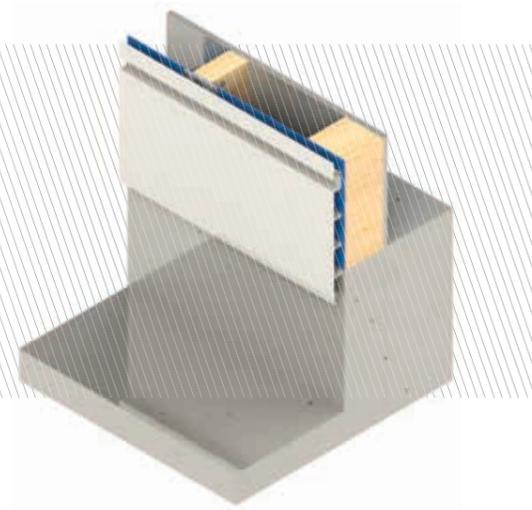
**D.04**  
SOFFIT DETAIL  
WITHOUT EAVES



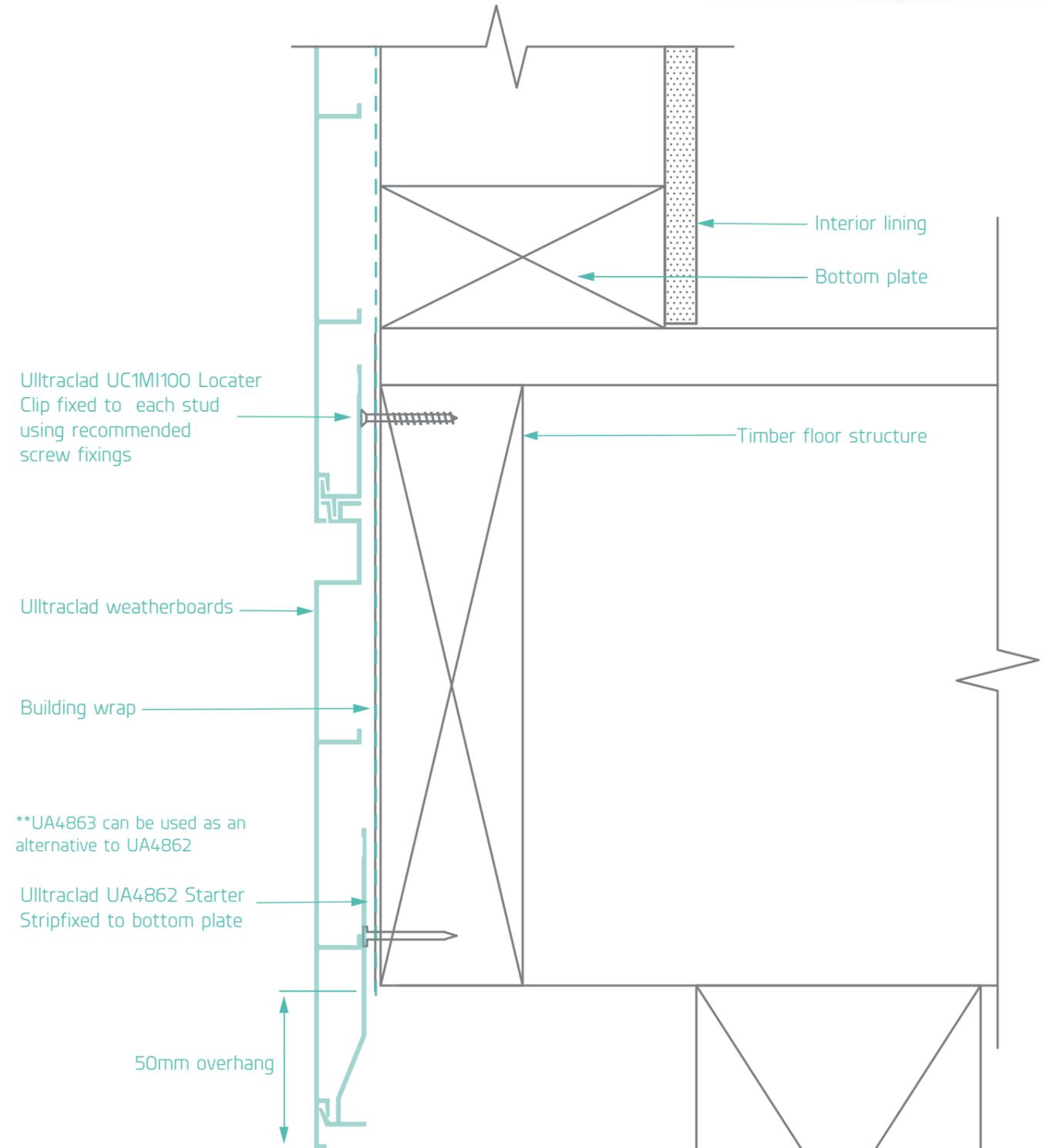
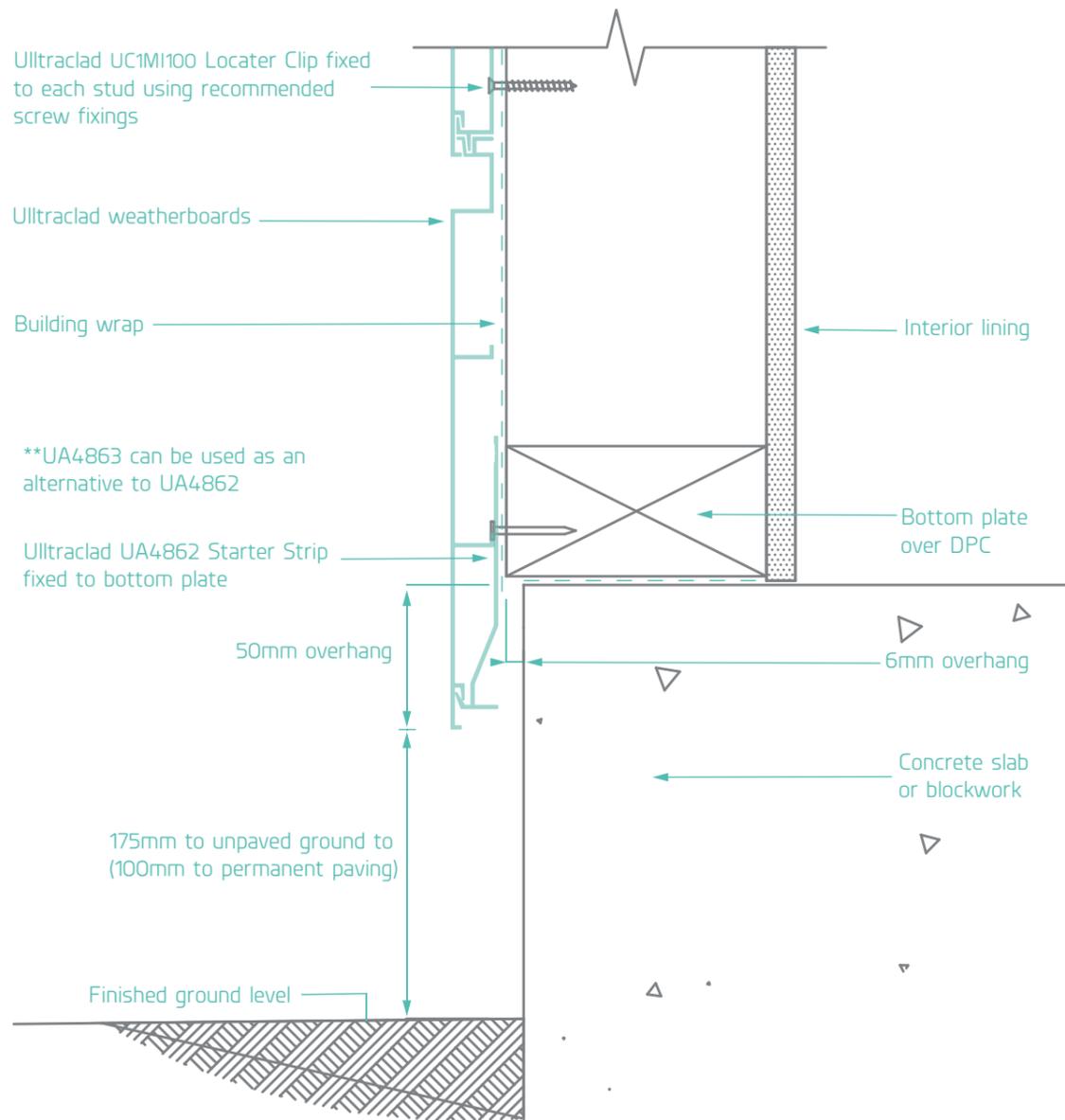
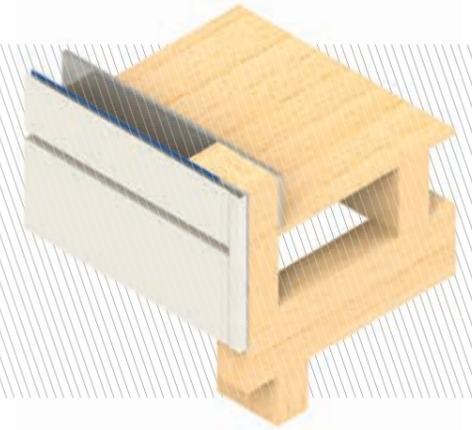
**D.05**  
SOFFIT DETAIL  
WITH EAVES



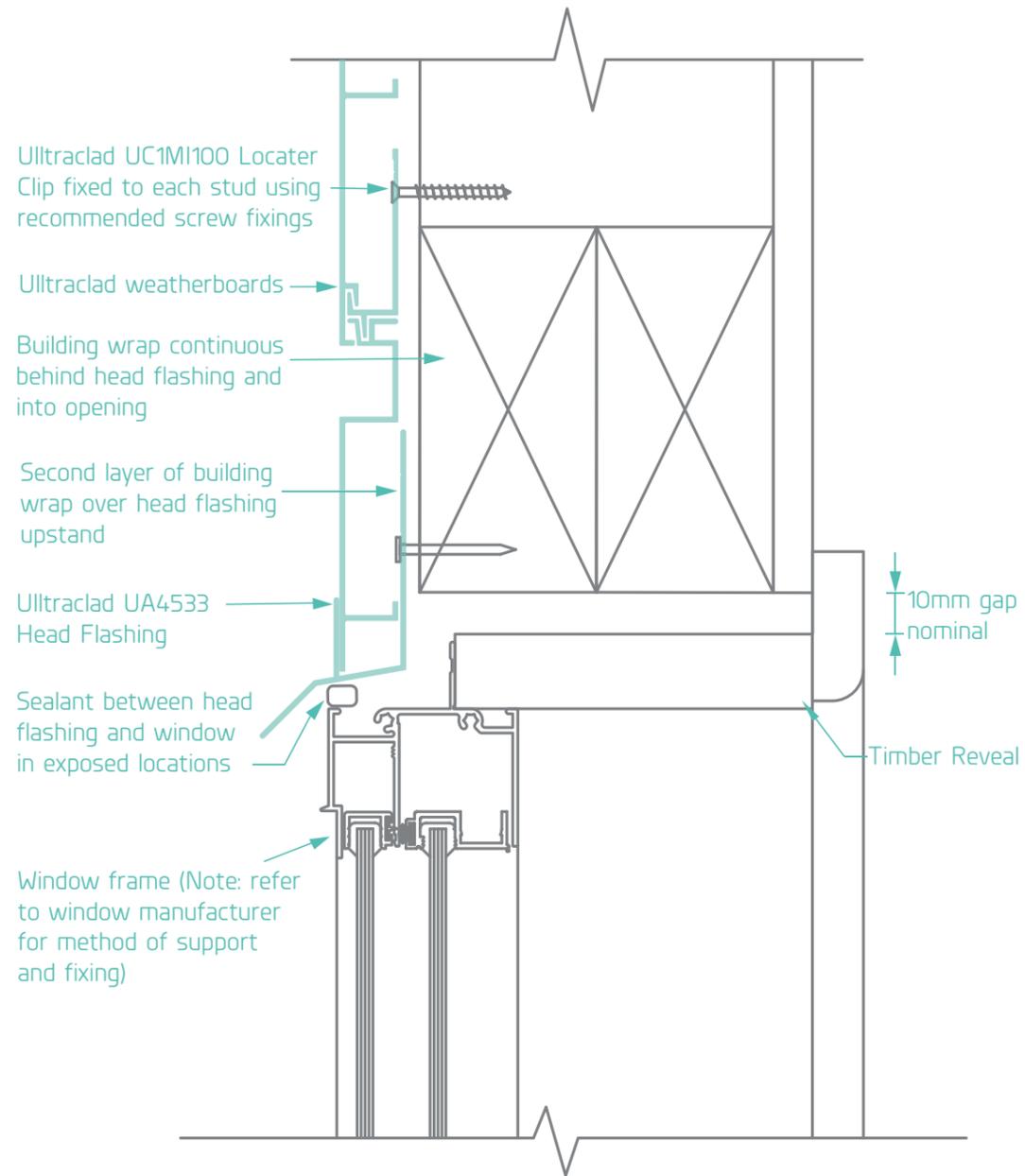
# D.06 WALL STARTER



# D.07 WALL STARTER TIMBER FLOOR

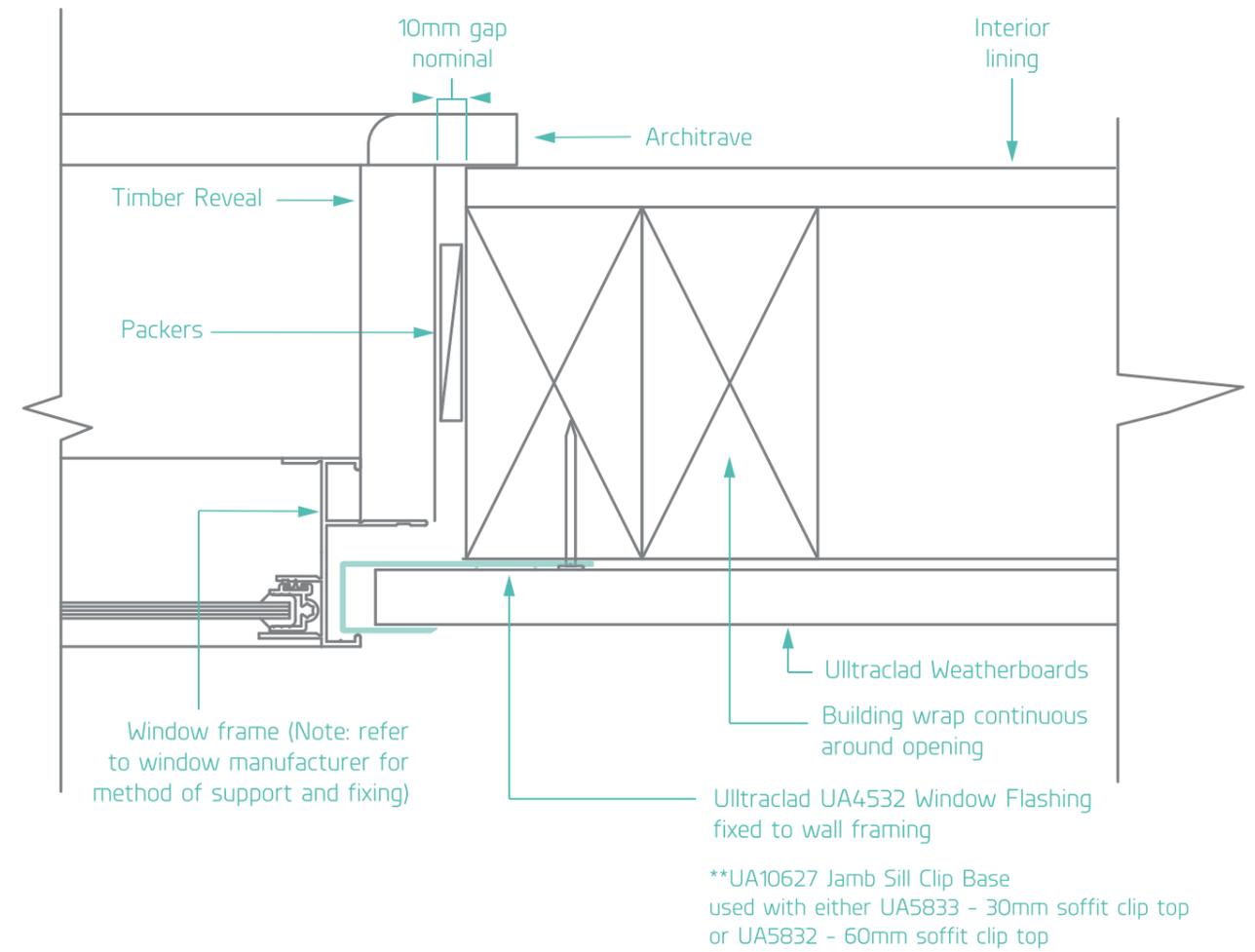
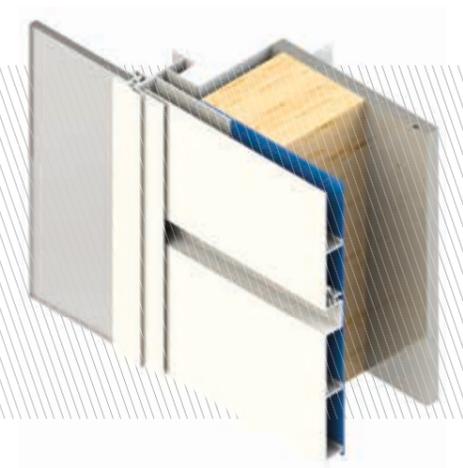


# D.08 WINDOW HEAD



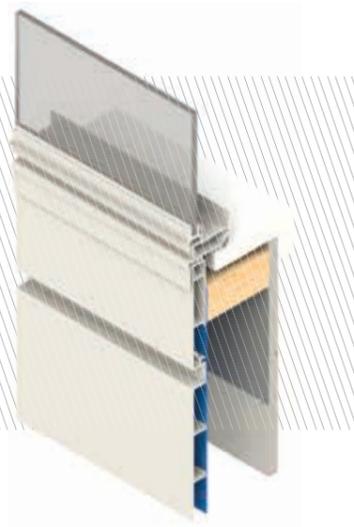
\*\* UA4863 and trim angle recommended alternative for UA4533 with window frame with a fin line more than 26mm from the front of the window

# D.09 WINDOW JAMB



\*\*UA10627 Jamb Sill Clip Base used with either UA5833 - 30mm soffit clip top or UA5832 - 60mm soffit clip top

## D.10 WINDOW SILL



Window frame (Note: refer to window manufacturer for method of support & fixing)

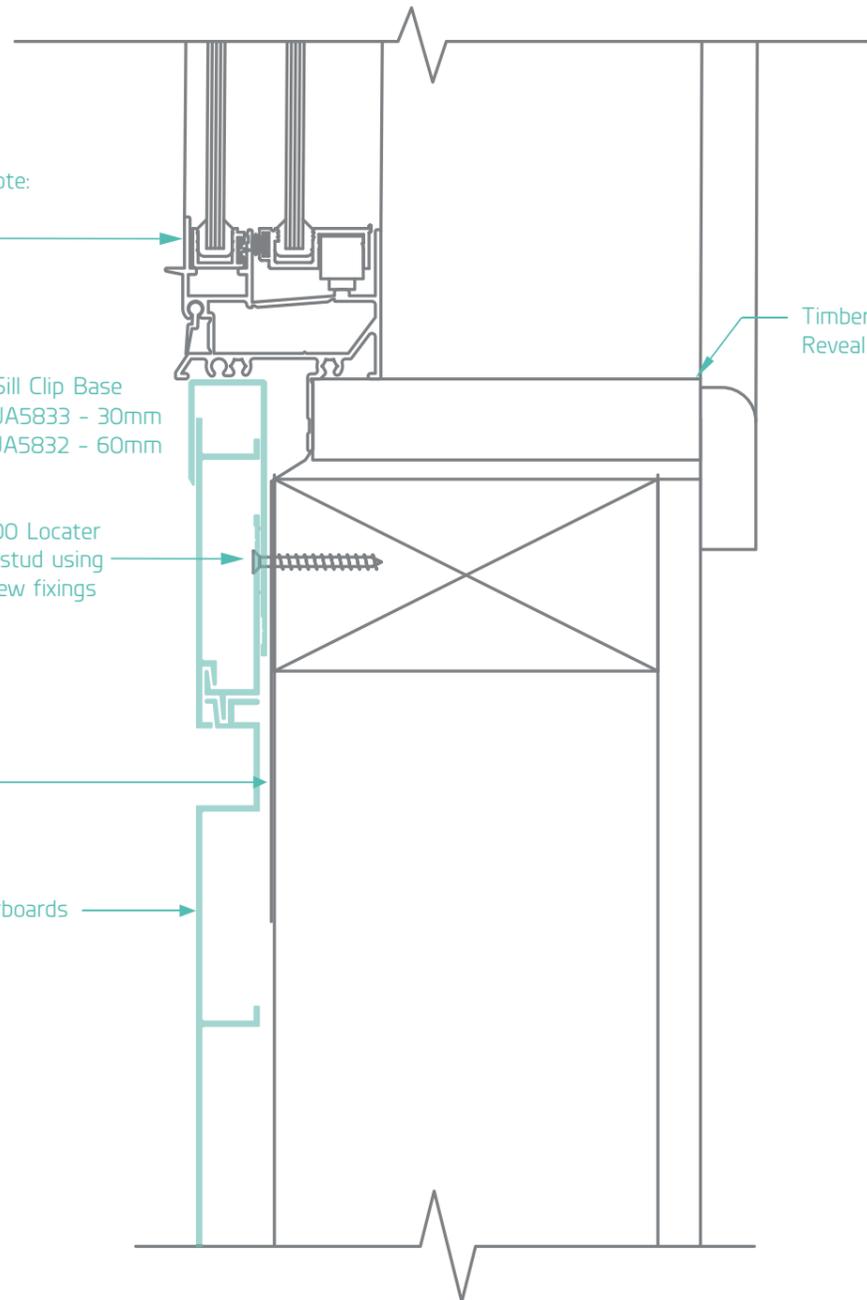
\*\*UA10627 Jamb Sill Clip Base used with either UA5833 - 30mm soffit clip top or UA5832 - 60mm soffit clip top

Ultracalad UC1MI100 Locater Clip fixed to each stud using recommended screw fixings

Building wrap

Ultracalad weatherboards

Timber Reveal



## D.11 WINDOW HEAD / JAMB - ISOMETRIC



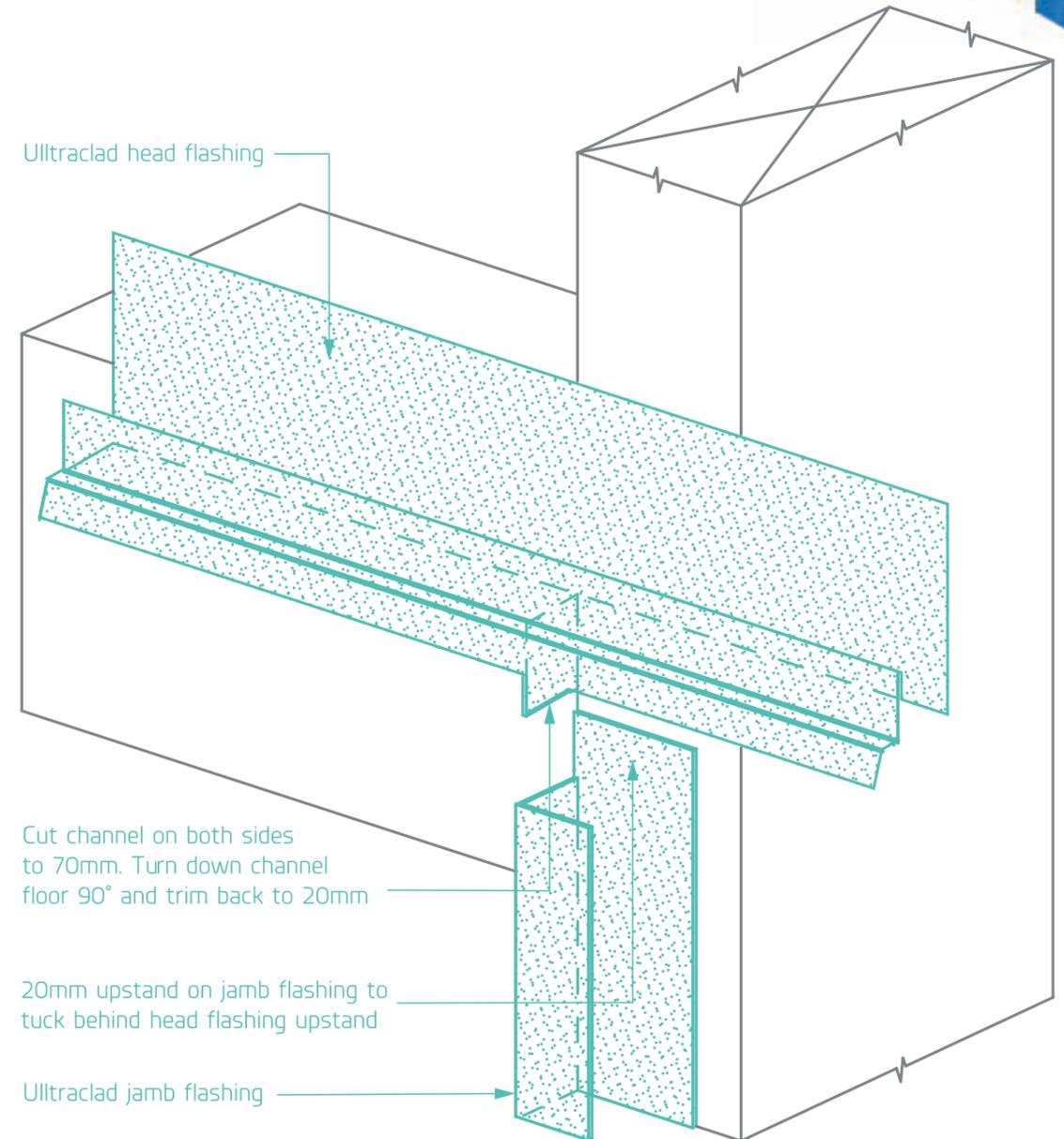
Ultracalad head flashing

Cut channel on both sides to 70mm. Turn down channel floor 90° and trim back to 20mm

20mm upstand on jamb flashing to tuck behind head flashing upstand

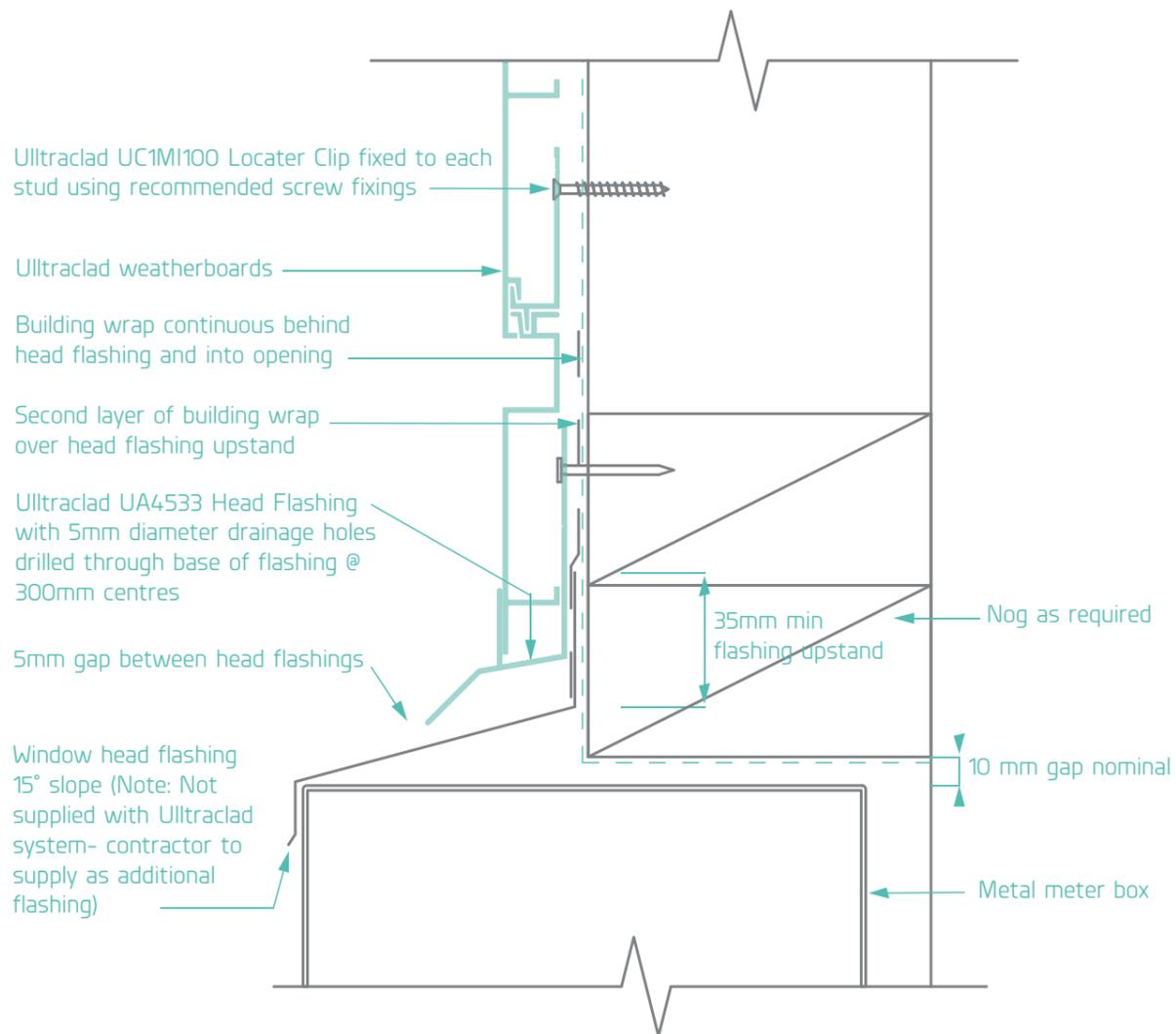
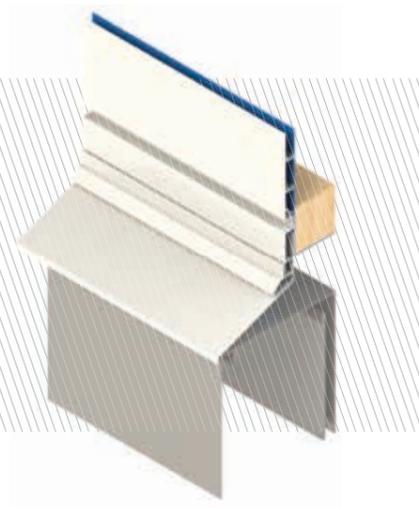
Ultracalad jamb flashing

\*\*UA10627 Jamb Sill Clip Base used with either UA5833 - 30mm soffit clip top or UA5832 - 60mm soffit clip top

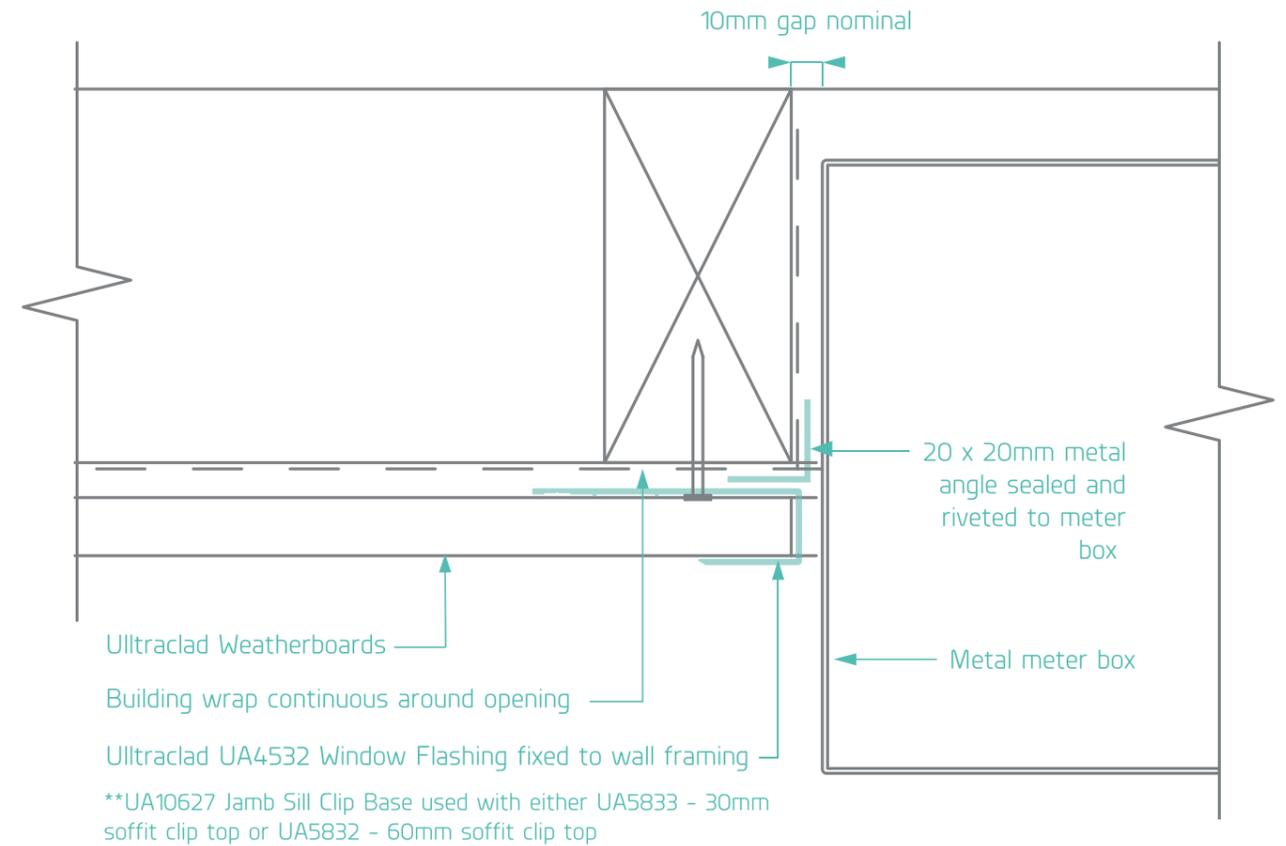
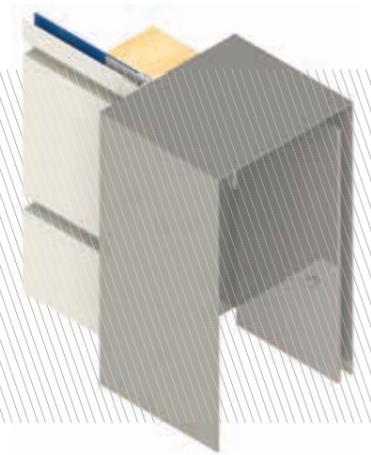


\*Note: Ultracalad Head Flashing to extend 80mm past edge of window or door joiner  
Building wrap and flashing tape omitted for clarity.

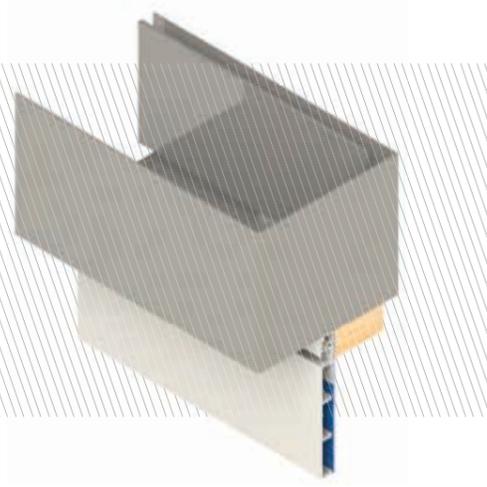
## D.12 METRE BOX HEAD



## D.13 METER BOX JAMB



# D.14 METER BOX SILL



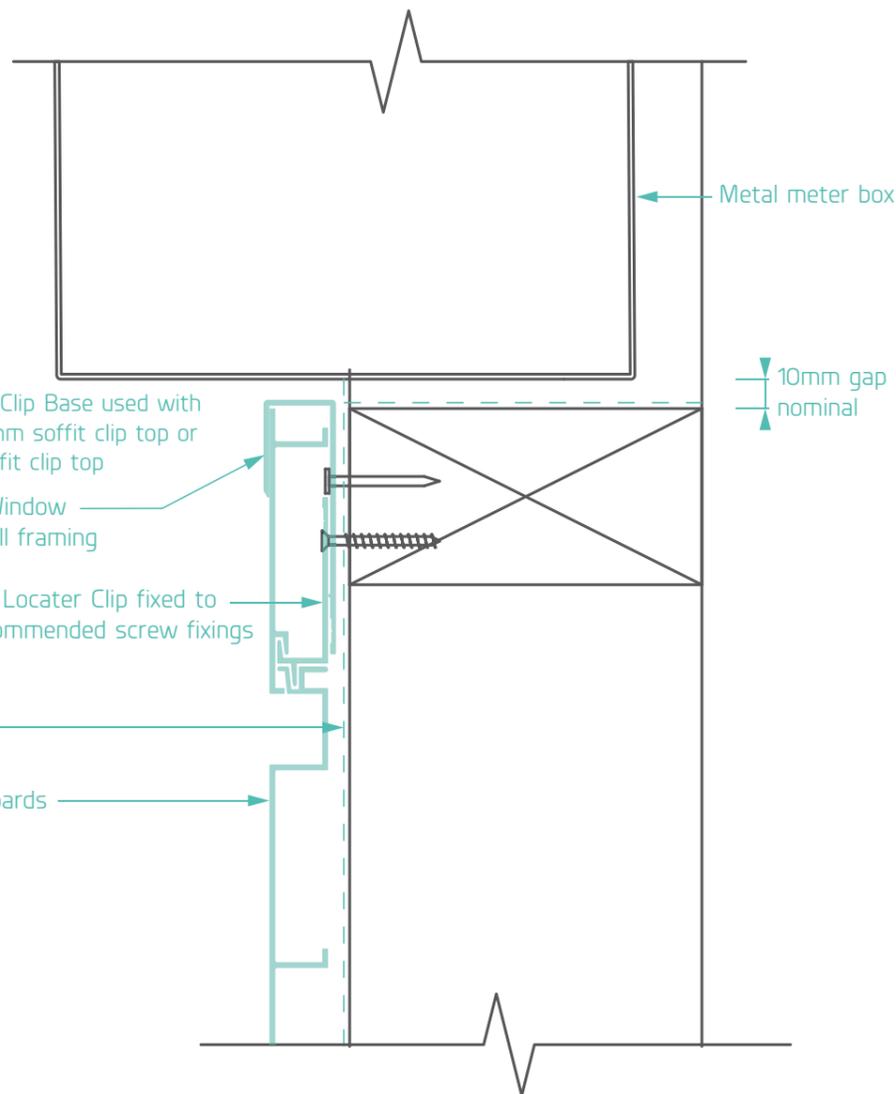
\*\*UA10627 Jamb Sill Clip Base used with either UA5833 - 30mm soffit clip top or UA5832 - 60mm soffit clip top

Ulltraclad UA4532 Window Flashing fixed to wall framing

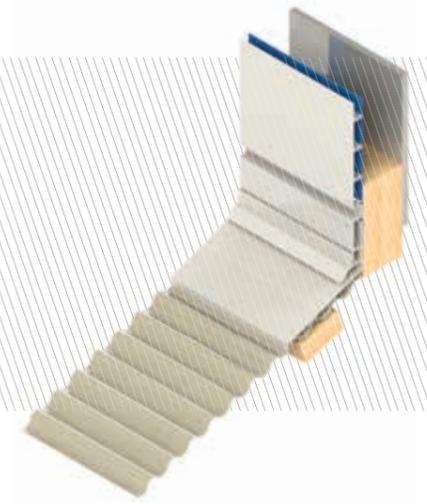
Ulltraclad UC1M100 Locater Clip fixed to each stud using recommended screw fixings

Building wrap

Ulltraclad weatherboards



# D.15 ROOF / WALL JUNCTION



Ulltraclad UC1M100 Locater Clip fixed to each stud using recommended screw fixings

Ulltraclad weatherboards

Building wrap lapped over flashing upstand

Ulltraclad UA4533 Head Flashing with 15mm drip edge and 5mm diameter drainage holes drilled through base of flashing @ 300mm centres

35mm minimum clear gap

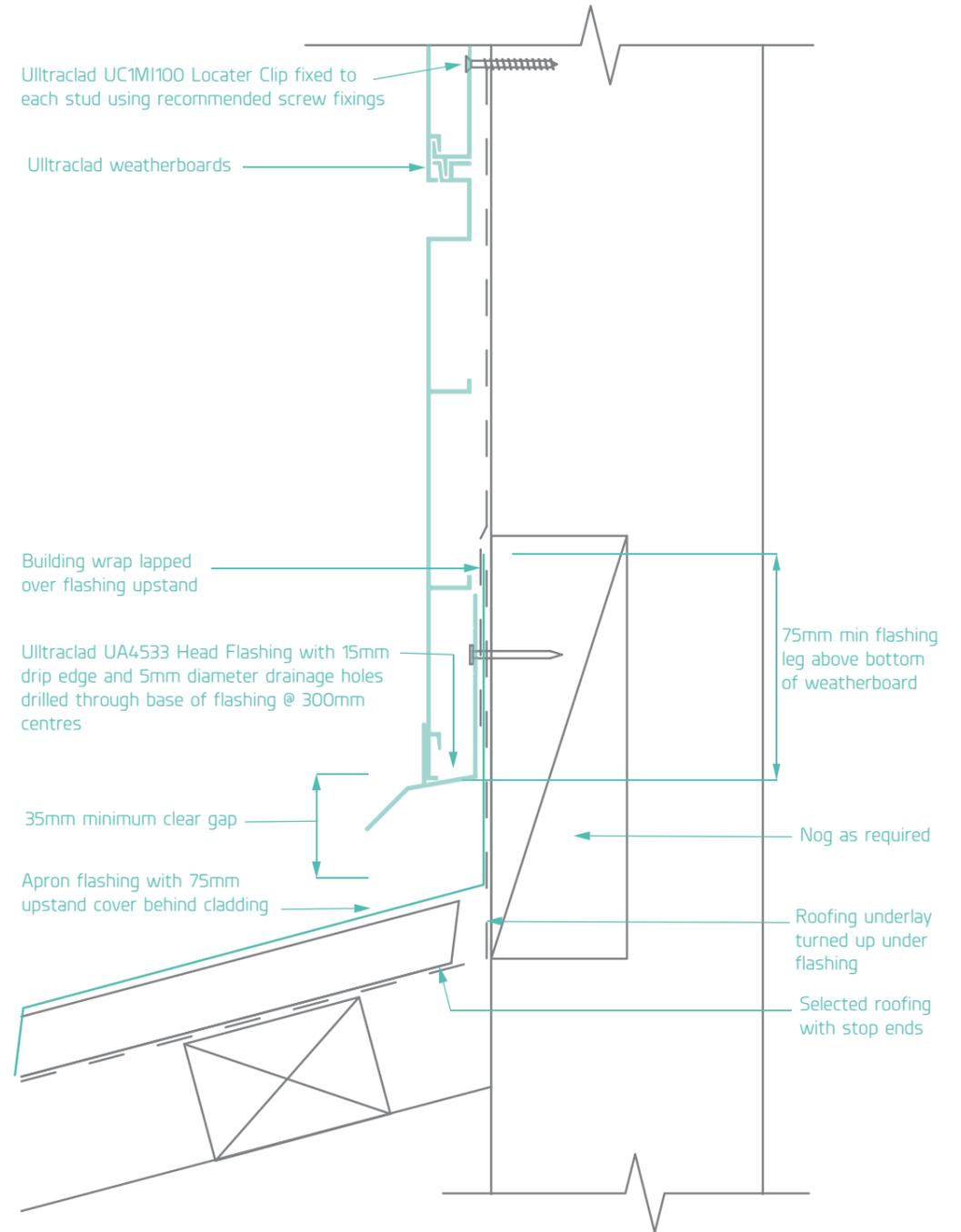
Apron flashing with 75mm upstand cover behind cladding

75mm min flashing leg above bottom of weatherboard

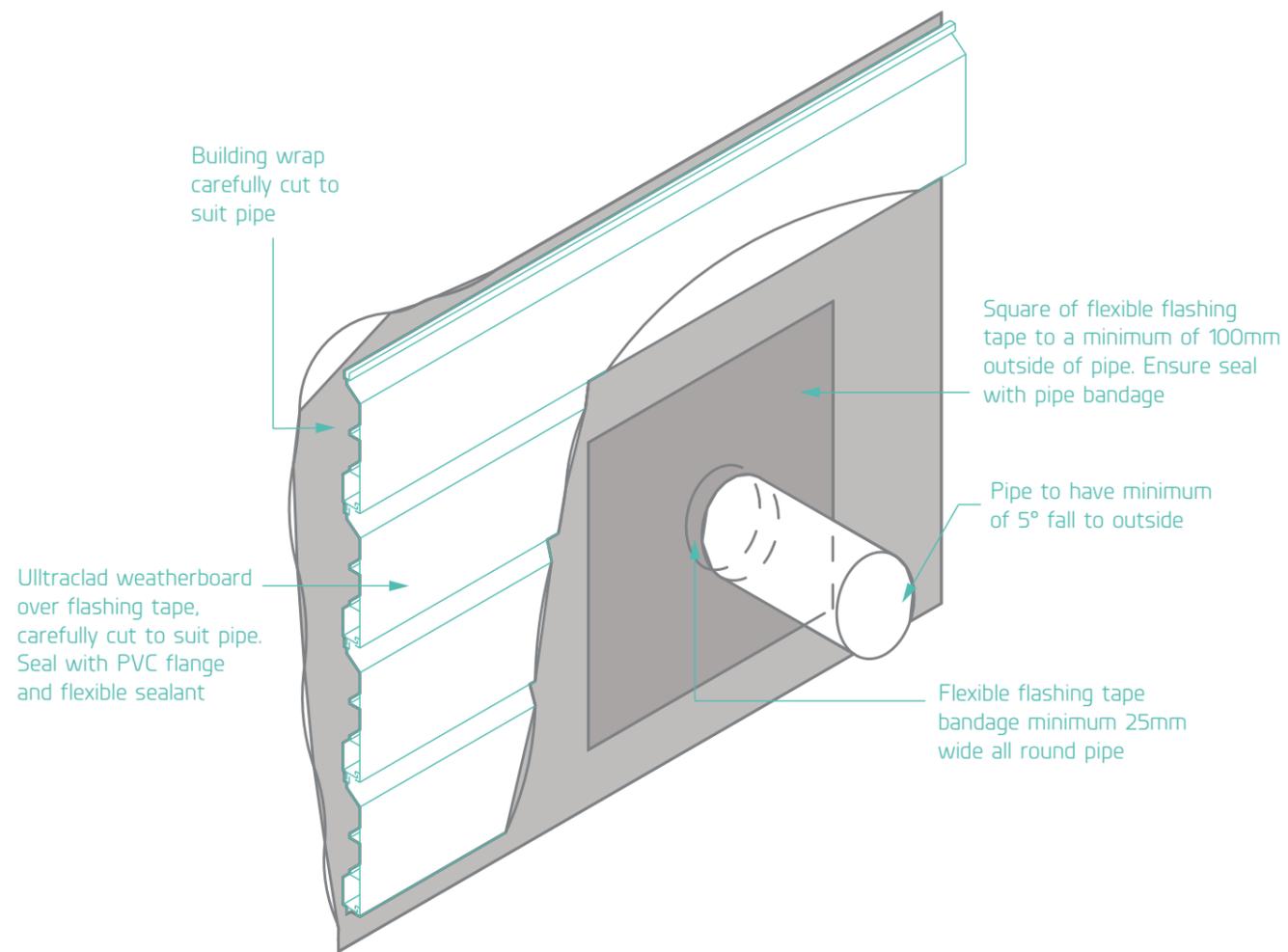
Nog as required

Roofing underlay turned up under flashing

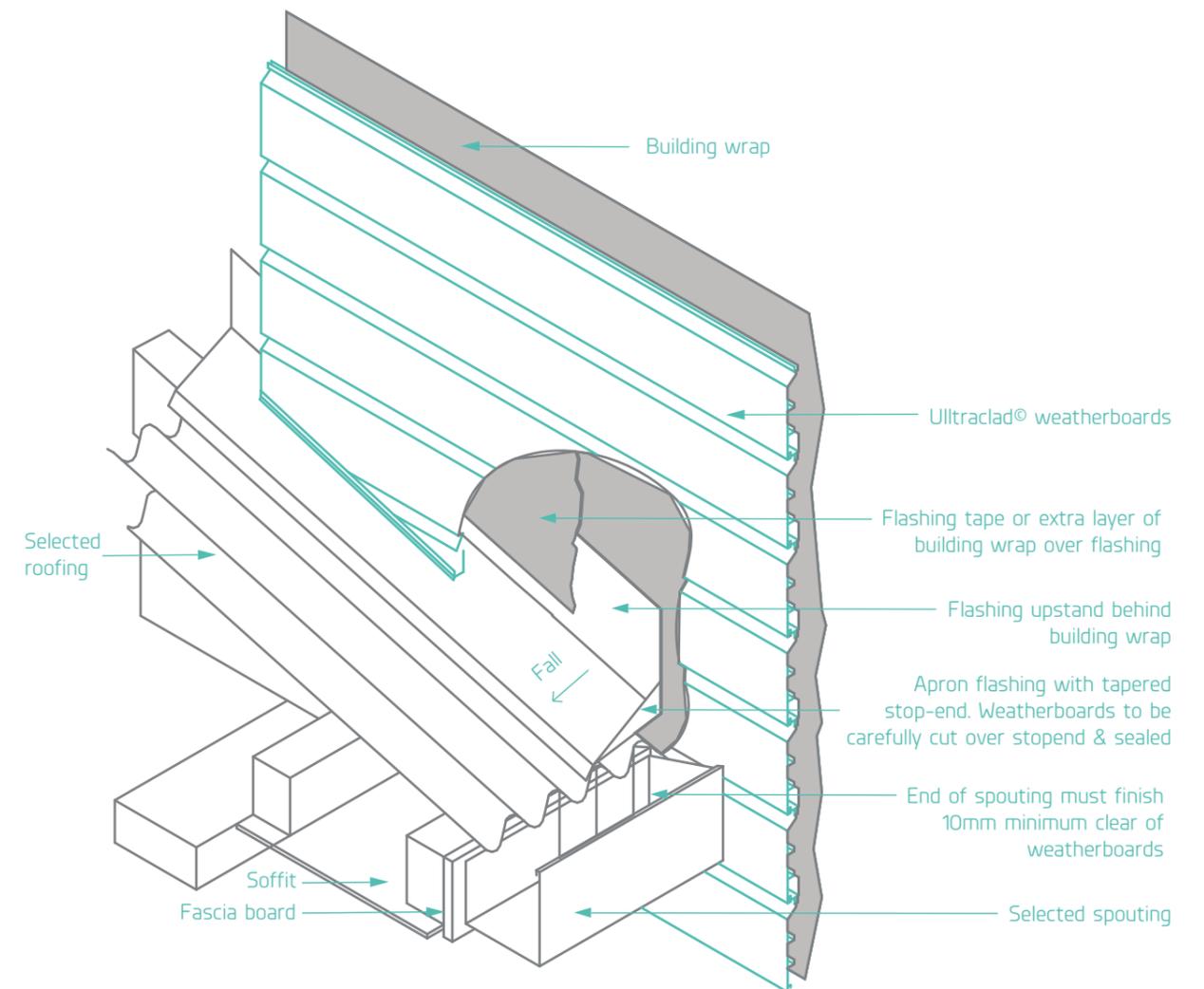
Selected roofing with stop ends



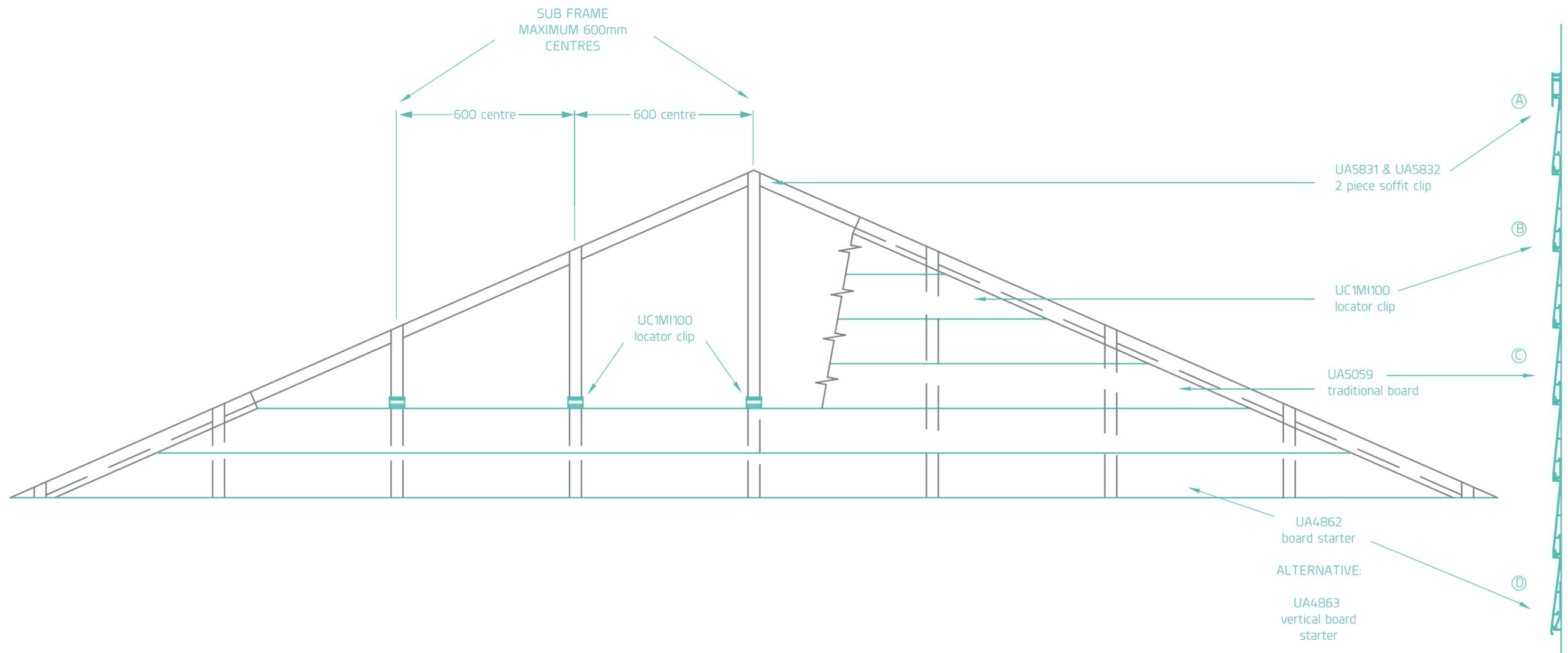
## D.16 PIPE PENETRATION - ISOMETRIC



## D.17 GUTTER / WALL JUNCTION



# D.18 GABLE END





# DIRE- CTORY

## NEW SOUTH WALES

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185-187 Woodpark Road  
Smithfield, NSW 2164  
+61 (2) 8787 7400

Sydney Fabrication:  
185-187 Woodpark Road  
Smithfield, NSW 2164  
+61 (2) 8787 7468

Sydney South:  
15 Blackmore Road  
Smeaton Grange, NSW 2567  
+61 (2) 4646 2200

Kurri Kurri:  
HEZ Extrusion Plant  
Lot 1, Bromage Road  
HEZ Industrial Estate  
Kurri Kurri, NSW 2327  
+61 (2) 4015 6800

Newcastle:  
6 Steel River Boulevard  
Mayfield West, NSW 2304  
+61 (2) 4949 2600

Bathurst:  
10 Bradwardine Road  
Robin Hill, NSW 2795  
+61 (2) 6339 8900

Coffs Harbour:  
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Coffs Harbour, NSW 2450  
+61 (2) 6690 2400

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Woree, QLD 4868  
+61 (7) 4252 3200

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Garbutt, QLD 4814  
+61 (7) 4720 7100

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Paget, QLD 4740  
+61 (7) 4864 2100

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103 Stanley Street  
Rockhampton, QLD 4700  
+61 (7) 4923 8600

Wide Bay:  
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Dundowran, QLD 4655  
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Springvale, VIC 3171  
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Carole Park, QLD 4300  
+61 (7) 3718 1400

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+61 (7) 5390 7600

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West Burleigh, QLD 4219  
+61 (7) 5586 1500

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17 King Street  
Bayswater, WA 6053  
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+61 (3) 6327 8600

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Moonah, TAS 7009  
+61 (3) 6278 0000

## NORTHERN TERRITORY

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114 Reichardt Road  
Winnellie, NT 0820  
+61 (8) 7929 8400

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