ULTRACLAD®

Installation Guide

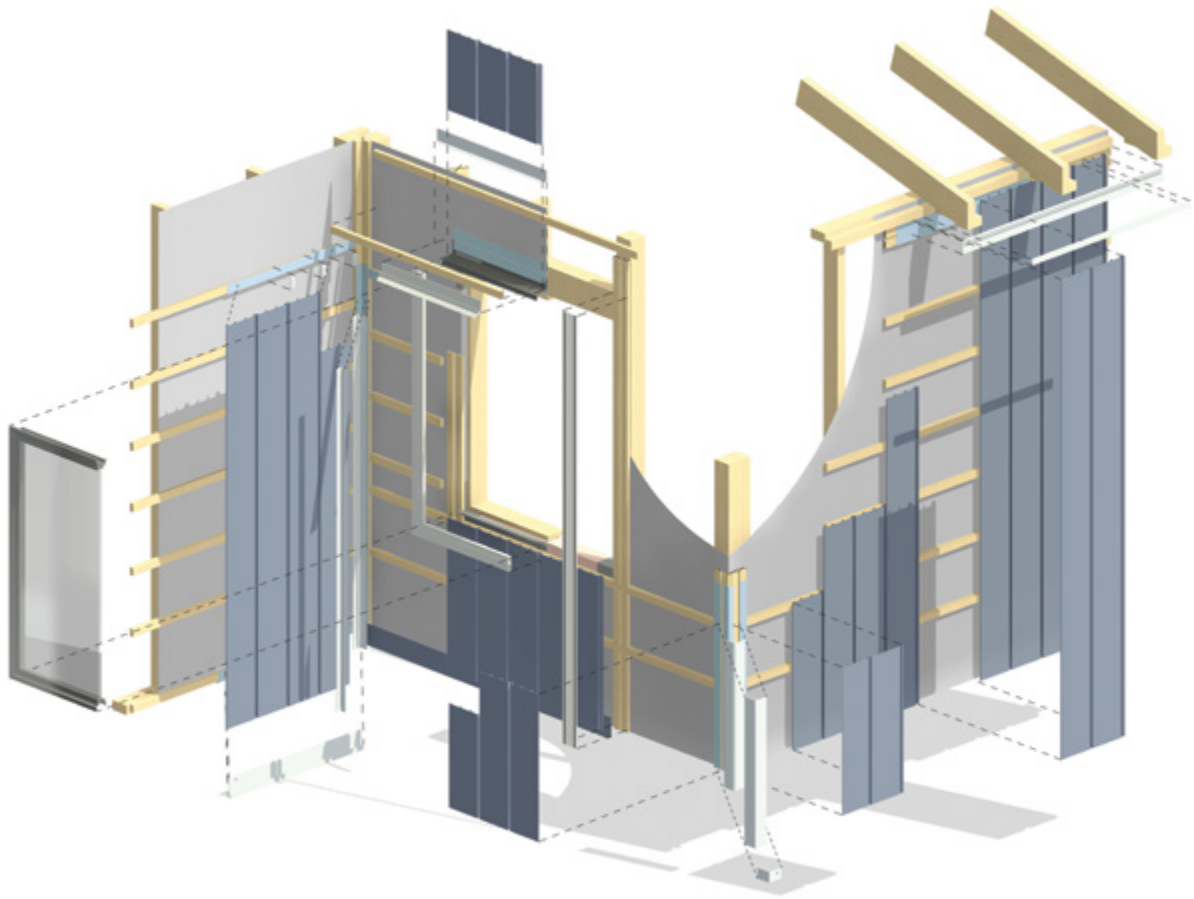
VULCAN

Contents

Introduction

The UltracClad® Weatherboard Cavity System is an interlocking, powder-coated aluminium weatherboard system designed for use as an external wall cladding system in residential and light commercial buildings where domestic construction techniques are applied.

The system includes horizontally/vertically fixed UltraClad® aluminium weatherboards, cavity battens, internal and external corner mouldings, starter strips, board jointers, board locators, joinery flashings, and accessories.



This section of the literature should be read in conjunction with the following documents:

- UltraClad® Brochure
- BRANZ Appraisal 796, 487
- UltraClad® Technical Statement for Horizontal Cavity System
- UltraClad® Technical Statement for Vertical Cavity System
- UltraClad® Technical Statement for Steel Framing Specification
- UltraClad® Masterspec work sections 4252VH, 4252VV

Site Health and Safety

The main building contractor is responsible for ensuring that all health and safety protocols, as required by WorkSafe regulations and applicable local laws, are implemented, enforced, and followed on-site. This includes the establishment of a safe working environment and adherence to all relevant health and safety standards.

Delivery, handling and storage

Store UltraClad® weatherboards and accessories undercover at all times to protect them from damage and moisture

Stack flat on a level platform off the ground, ideally using the supplied delivery pallet. If no pallet is available, use evenly spaced gluts on level ground at a maximum of 600mm centres.

When handling, it is recommended to wear cotton gloves to prevent finger marks, sunscreen stains, and other residue.

Always handle weatherboards and accessories in accordance with the manufacturer's recommendations.

Workmanship

Where required by the NZ Building Amendment Act 2012, it is the building contractor's responsibility to ensure that all restricted building work is carried out by a Licensed Building Practitioner. Installation work should be performed by qualified tradespeople who are familiar with the specified products and installation techniques, in accordance with the UltraClad® Cavity System BRANZ Appraisal No. 796, 487, UltraClad® installation requirements, and as noted and detailed in the drawings.

Tools required

The following tools should cover most situations:

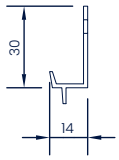
- Chalk line
- Spirit level
- Hammer
- Battery drill with posi-drive bit
- Tin snips
- Hacksaw
- Circular saw or hand saw
- Small circular saw with an aluminium cutting blade
- Jigsaw
- Mastic gun
- 'No More Nails' or similar
- Sealant

Cutting UltraClad®

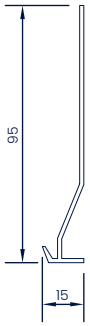
When cutting UltraClad® Aluminium Weatherboards with a circular saw, apply a strip of masking tape to each side of the cut to prevent damage to the paint surface.

Accessories

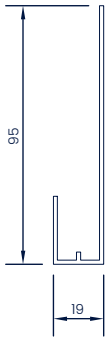
UA 4535
Locator Clip



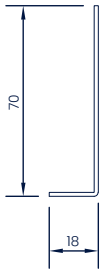
UA 4862
Board Starter A



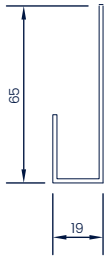
UA 4863
Board Starter B



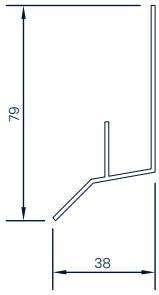
Cavity
Vent Strip



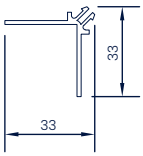
UA 4532
J Moulding



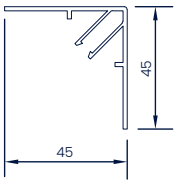
UA 4533
Head Starter



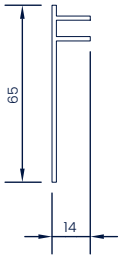
UA 7095
Male Flat Corner



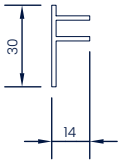
UA 7094
Female Flat Corner



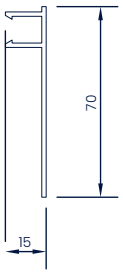
UA 5832
Soffit 65mm Clip Top



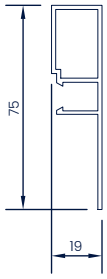
UA 5833
Soffit 30mm Clip Top



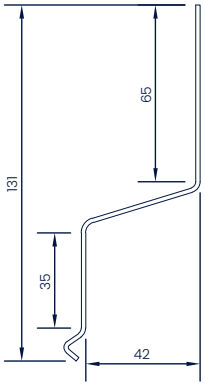
UA 5831
Soffit Clip Base



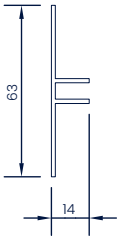
UA 7584
Jamb/Sill Clip Base



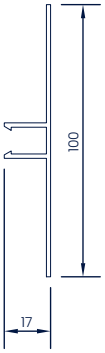
UA 7919
Inter - Storey Flashing



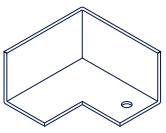
UA 7096
Flat Jointer Top



UA 6324
2 Piece Jointer Base

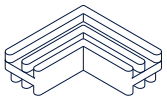


CLADCNRCAPE
External Corner Cap



CLADCNRCAPI
Internal Corner Cap

CLADSTAKECNR
Plastic Staking Corner



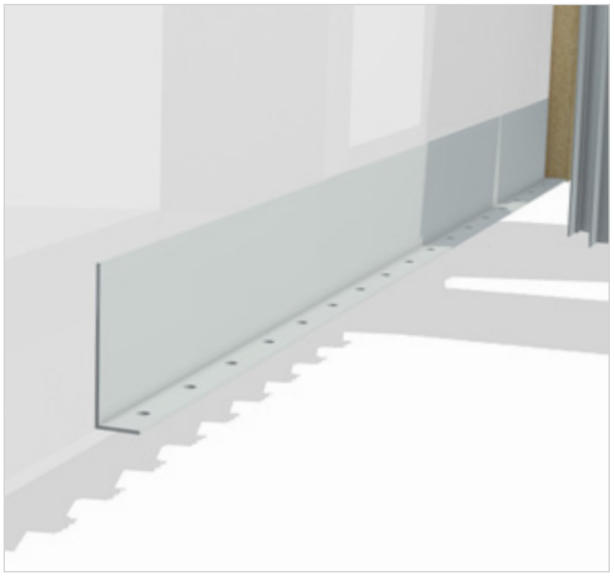
Installation

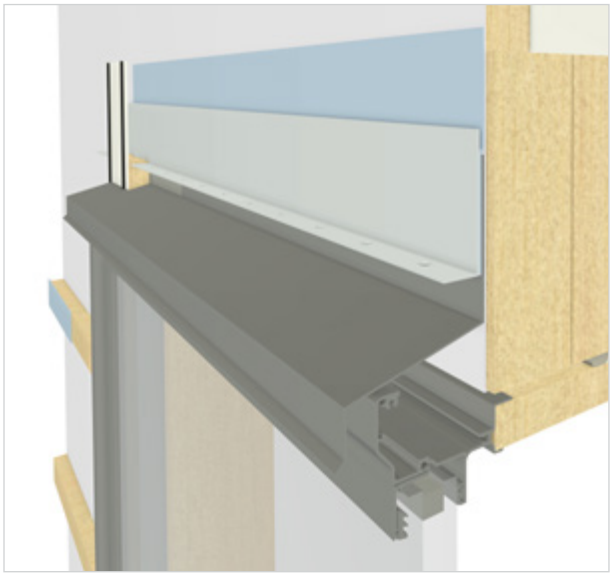
1. Preparation

Check all aspects of preparatory work, including but not limited to:

- Verify that the timber wall framing complies with NZS 3604, or in accordance with NZS 3603 and AS/NZS 1170 for specific designs, and aligns with UltraClad® requirements. Except for UltraClad installed in a vertical orientation, where the nogs/dwangs must be installed at maximum of 600mm centres.
- Ensure the framing has studs at a maximum of 600mm centres and nogs/dwangs at a maximum of 800mm centres, is plumb and aligned, includes all necessary blocking for cavity batten fixing at openings, joints, corners, and soffits, and has a maximum moisture content of 24% at the time of cladding installation. Except for UltraClad installed in a vertical orientation, where the nogs/dwangs must be installed at maximum of 600mm centres.
- Confirm that the specified rigid air barrier has been installed according to NZBC requirements and the manufacturer's recommendations, with all finishing tapes, flashings, etc., at windows, doors, corners, and penetrations correctly incorporated to provide a continuous seal.
- Ensure all preparatory materials are lapped to direct any water flow to the exterior.
- Verify that any rigid air barrier for unlined gables and external garage walls is installed with an absorbent flexible underlay according to E2/AS1 Table 23 and the manufacturer's recommendations.
- Check that ground levels slope away from the building to prevent ponding against the building and ensure that the ground will remain clear of the cladding by at least 100mm at all times in accordance with E2/AS1.
- Pay particular attention to the installation of the building underlay and sill and jamb tapes around window and door openings to ensure a continuous seal and protect all exposed wall framing in the opening.

2. Cavity Vent Strip/Closure





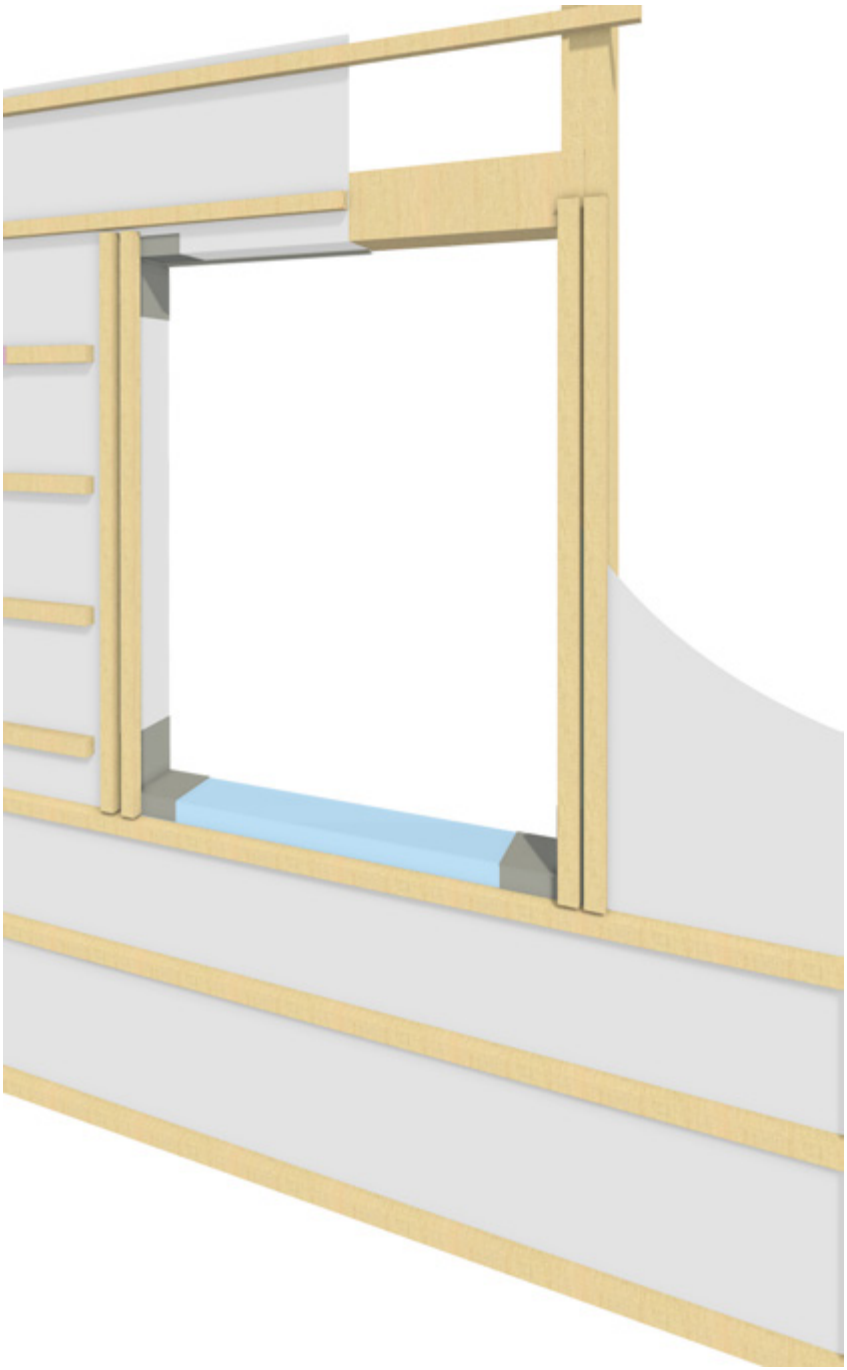
2.1 Install the Cavity Vent Strip so that the bottom of the vent strip is flush with the underside of the bottom plate (or flush with the underside of the cavity battens). Note: A minimum 15 mm drip edge to the bottom of the UltraClad® weatherboard must be maintained at all times.

3. Cavity Battens/Vertical back flashing

Drawing: V00, UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.

Fix the specified cavity battens through the rigid air barrier to the framing as shown in the drawings.

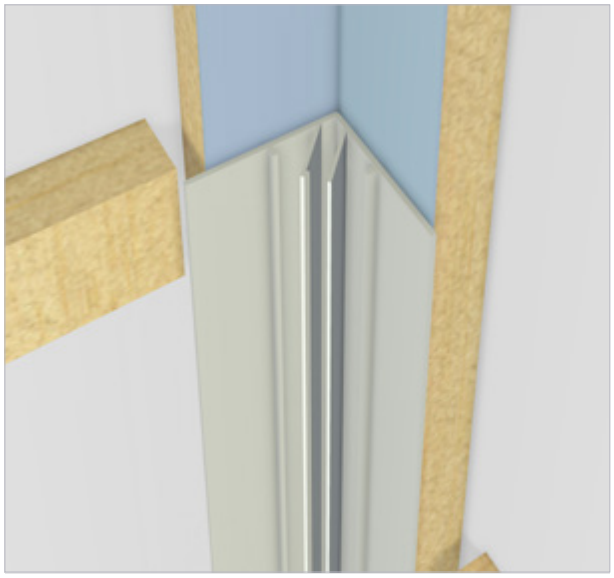
Install cavity battens over the building underlay to the wall framing at a maximum of 600mm centers where the studs are spaced at a maximum of 600mm centers, or at 400mm centers where the studs are spaced at 400mm centers. Apply continuous separation tape over the face of timber cavity battens.

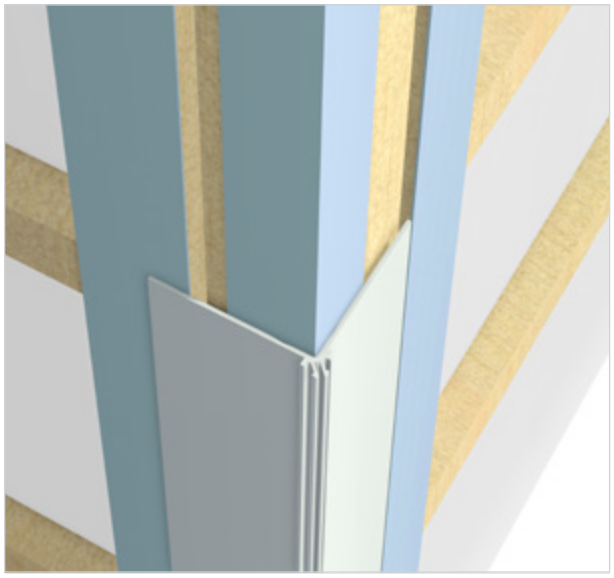


Install 0.9mm folded (hemmed) aluminium or Dynex Dynaflash polypropylene track back flashings vertically between cladding and cavity battens, located behind cladding joints, door and window jambs, and below penetrations as per manufacturer's details.

4. Inner section of Internal or External Corner Flashing, Board Jointer

Drawing: V01, V02 UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.





4.1 Cut the inner section of the internal or external corner flashing. Fix these inner sections through the cavity battens.

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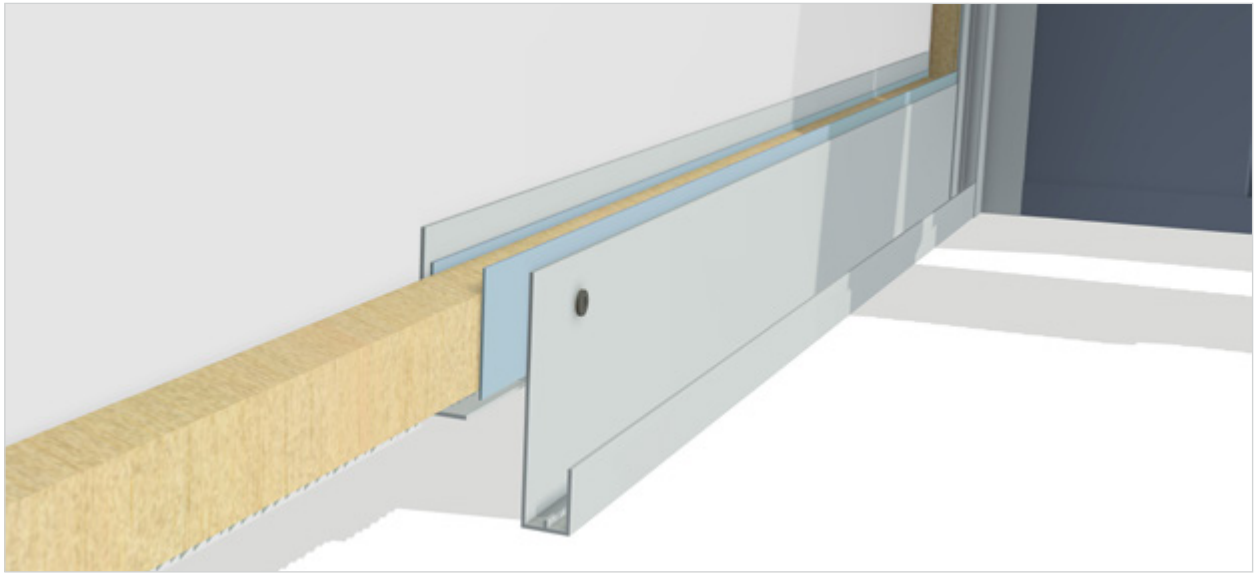
5. Vertical Wall Starter

Drawing: V04, V07 UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.



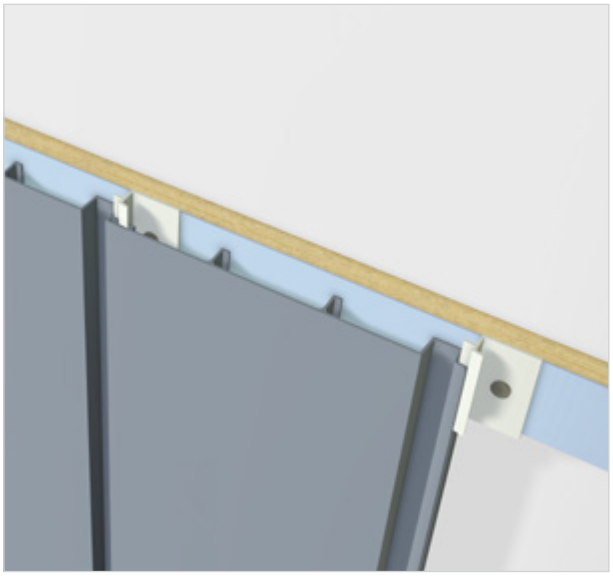
5.1 Fix the UltraClad® Starter Strip to the framing at a minimum of 50mm below the bottom plate, floor structure or as detailed.

6. Inner Soffit Clip

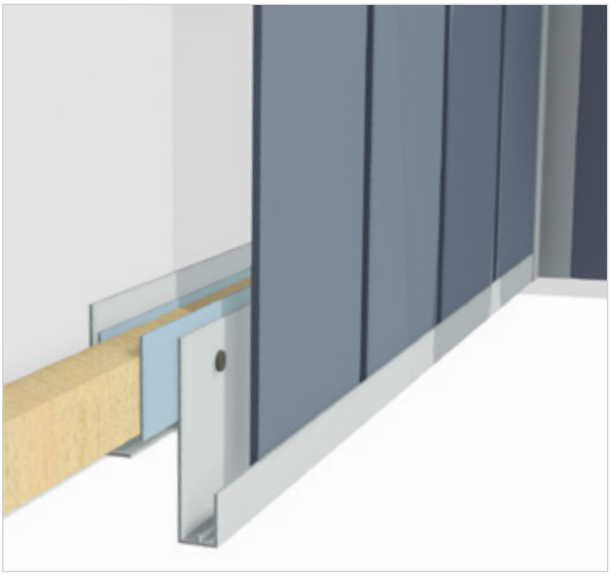
Drawing: V05, V06 UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.

6.1 At the top of the wall, fix the inner soffit clip through the cavity battens.

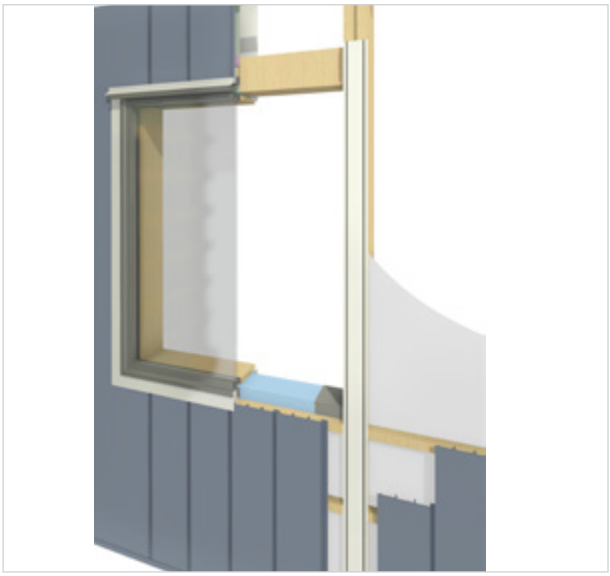
7. Weatherboard Installation



7.1 Secure the top of the weatherboard to each stud at a maximum of 600mm centres with locator clips fixed with 50mm (65mm when there is substrate) stainless screws.



7.2 Install boards from the starter strip, working upwards, ensuring they are true to line and level. Keep cladding lines consistent and true along walls and around corners.



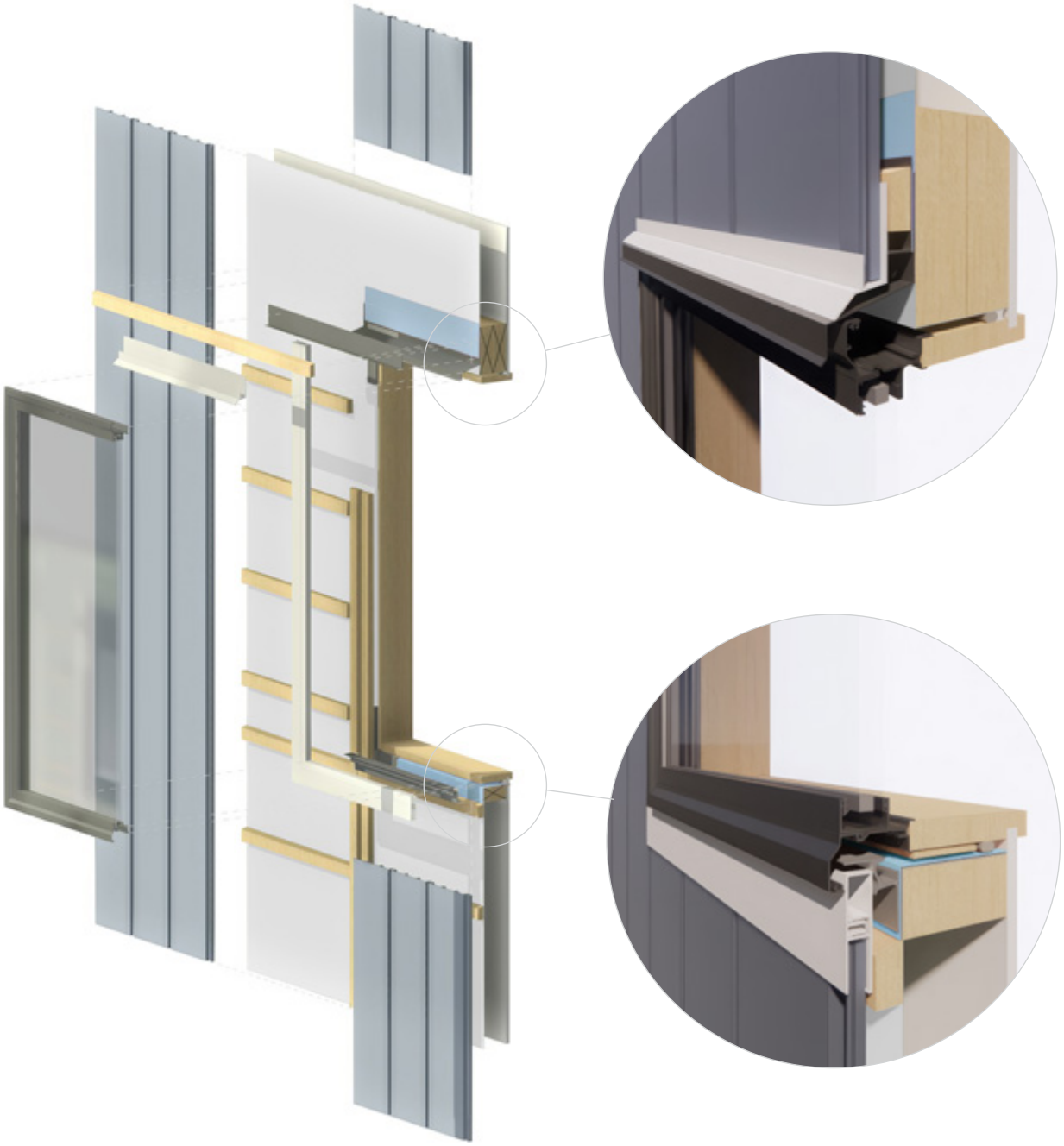
7.3 Continue installing the weatherboards up to the underside and side of the window opening, securely locating the bottom of each board over the locator clip and fixing the top of the board to each stud as detailed. If a section of the weatherboard overhangs the window opening, cut away this section of the board and fix the weatherboard in place. ***Note: Do not install a locator clip at the window opening at this stage.***

8. Window & Door Openings

Drawings: V08,V09,V10,V11,V12,V13,V14 UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.

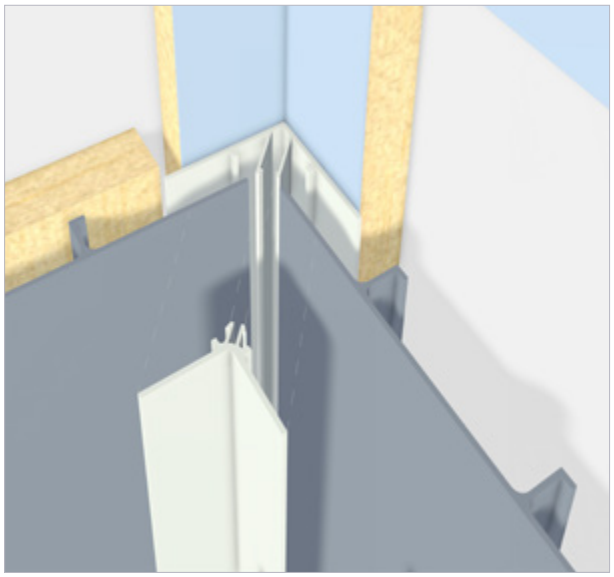
Ensure that the window fabricator sizes all joinery to the correct set-out and depth in accordance with UltraClad® requirements and as shown in the drawings.

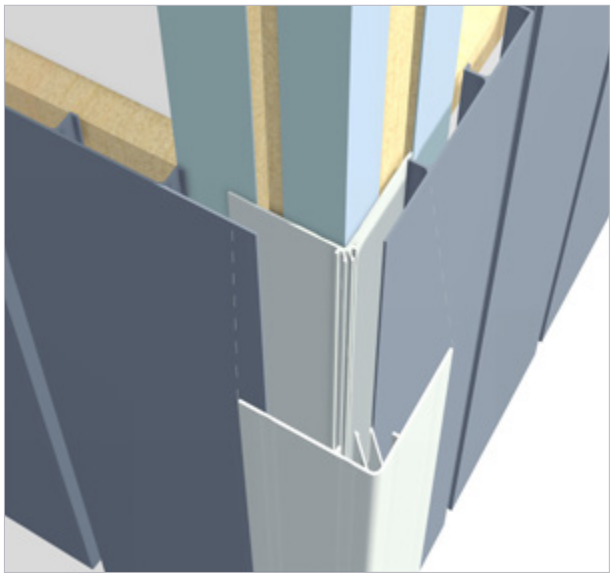
UltraClad® mouldings and flashings around windows, doors, and openings should be carefully constructed, fixed, and finished according to the details shown in the drawings and the UltraClad® technical statement.



9. Outer Soffit Clip, Internal and External Corner Flashings

Drawings: V01, V02, V03, V05, V06 UltraClad Vertical Weatherboard Cavity System, Rev 11, 2024.



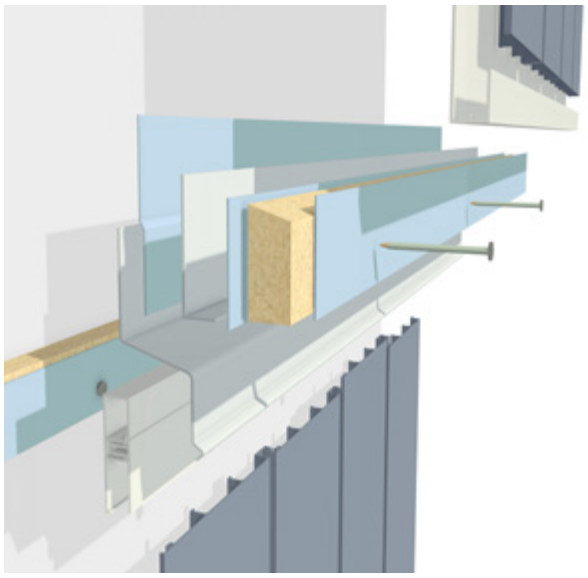


9.1 Cut the outer section of the internal and external corner flashings to allow a 50mm overhang past the bottom plate, and secure in place. *Note: Refer to drawings V03 for the corner caps detail.*

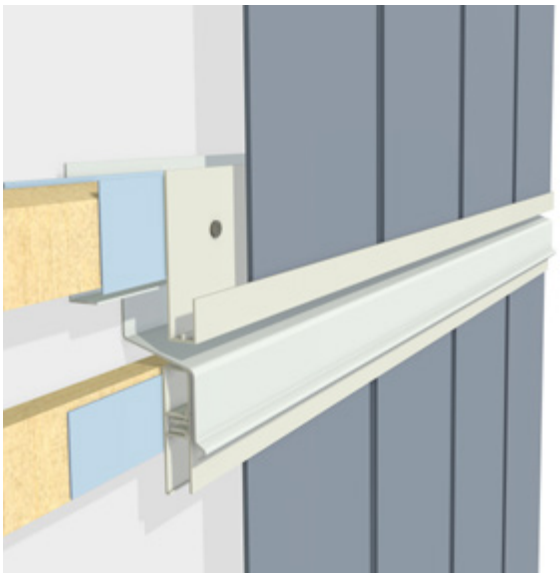
9.2 Measure and cut the outer soffit clip to finish tight between the internal and external corner flashings and secure in place.

10. Inter-storey Joints

Drawings: V23, UltraClad® Vertical Weatherboard Cavity System, Rev 11, 2024.



10.1 Inter-storey joints flashed with UltraClad Inter-storey Flashing (extruded aluminium powder coated finish, colour matched with weatherboards) installed in accordance with UltraClad requirements.



10.2 Inter-storey drainage joints are required for three storey construction, with powder coated aluminium flashing colour matched with weatherboard, as detailed and in accordance with UltraClad® requirements.

11. Completion

Check that the weatherboards have been installed correctly, that all joints, trim and accessories have been completed correctly, and that all openings and penetrations have been flashed and sealed correctly. Check that no damage or marking has occurred to any installed weatherboard or component, replace as necessary.

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