
CodeMark Australia

CMI CERTIFICATION
Certificate CM40253

PERMATIMBER®

# CLADDING RANGE INSTALLATION GUIDE

## CX Original

1300 366 938
www.permacomposites.com

# GENERAL GUIDELINES AND PRECAUTIONS

With correct installation, PermaTimber® Original Cladding will provide years of enjoyment. Please ensure you read these instructions thoroughly prior to and during installation, failure to adhere to the installation guidelines will void your warranty.

PermaTimber® contains nature-inspired elements, and as you would be aware nature has different appearances. To ensure PermaTimber® does look natural, it may also experience variations in each board, and in some instances slight variations in colour, tone and grain.

Failure to adhere to the following will void your warranty:

The customer / installer is responsible for inspecting each board for colour, finish, size and other issues prior to installation. If you have a large project please ensure all materials are ordered together, this guarantees that all materials are from the same batch. If boards on-site are from different batches, contact your local distributor before installation. Please note that any colour variation is not covered under warranty claims.

PermaTimber® Original Cladding must be installed in accordance with applicable building standards, regulations and PermaTimber® installation guidelines.

Cladding boards are never to be butt joined.

Expansions trim must always be used. All cladding boards and trims must also start and stop on the centre of a batten or stud.

PermaTimber® Original Cladding must be supported by a BCA compliant structure. It is not intended for use as columns, support posts, beams, joist stringers or any other primary load-bearing members.

It is the responsibility of the designer / specifier to ensure that all components comply with the requirements of relevant standards and the BCA.

A waterproof membrane / system is to be installed in accordance with BCA requirements.

There must be ventilation / drainage at the base of the wall and as required.

Internal walls must be straight and flush prior to installation. Allowance must be made for studs or battens in window reveal sizing.

Failure to use galvanized screws or equivalent will void your warranty.

Failure to provide clearance holes to allow for expansion and contraction will void your warranty.

Perma Composites® warranty information can be found at:
https://www.permacomposites.com/warranty/

You can download the guide by scanning the QR Code or visiting www.permacomposites.com/brochure-installation-guide-library/

# SUBFRAME INFORMATION

PermaTimber® Cladding may be fixed directly to framework, however, if using battens, preparation is crucial for an easy installation.

## WATERPROOFING

Please ensure that a waterproof breathable or Vapour Permeable Barrier is installed over the studs or frame, keeping all overlaps pointing downwards with tape on all joins.

## FIXING:

Holes to mount the cladding are to be drilled at batten centres. It is important that this hole is a clearance hole with a diameter of 5mm. This allows for local expansion and contraction of the cladding board. Failure to drill a clearance hole will void your warranty.

Each cladding board and trim accessory must always finish on a batten. The ends of the cladding boards and trim accessories must never be left unfixed.

Cladding and Trims must be pre-drilled before fixing with screws.

## EXPANSION GAPS

Thanks to its special combination of recycled materials, PermaTimber® Original Cladding will expand and contract along its length by up to 2mm per lineal metre over a 40 degree Celsius temperature change.

Please refer to the Temperature Gapping Requirements Chart below.

| Gapping Requirements | |
|---|---|
| Ambient Temperature (°C) | Gap Size (mm) |
| 45 | 0 |
| 40 | 1 |
| 35 | 2 |
| 30 | 3 |
| 25 | 4 |
| 20 | 5 |
| 15 | 6 |
| 10 | 7 |
| 5 | 8 |
| 0 | 9 |

## STEEL SUBFRAME: THERMAL BREAK

The Building Code of Australia states that both residential and commercial buildings must have a thermal break, consisting of a material with an R-Value of not less than 0.2, installed between the external cladding and any metal frame.

## FRAMING AND BATTENING

Battens should be no less than 70 x 22mm. H3 Treated Timber is recommended or metal, spaced at either 450mm or 600mm spans (centre to centre).

Please Note: The span should never exceed 600mm. Fixing the cladding at a span in excess of 600mm centre to centre will void your warranty.

Appropriate framing or battening for all trims (around doors & windows) is required. Ensure all frames or battens are flat across the surface (using packers where appropriate).

## SCREW REQUIREMENTS:

Cladding Boards 8 Gauge x 30mm Galvanised Screws are recommended to install the PermaTimber® Original Cladding range. Original Cladding Trims will require a face-fix screw, with a 5mm diameter clearance hole.

| Product | Min Galvanished Screw Size |
|---|---|
| Timber & Steel | 8g x 30mm |

# INSTALLATION STEPS

## 1) STARTER TRIM

1. Ensure you have installed a waterproof membrane in accordance with BCA requirements.

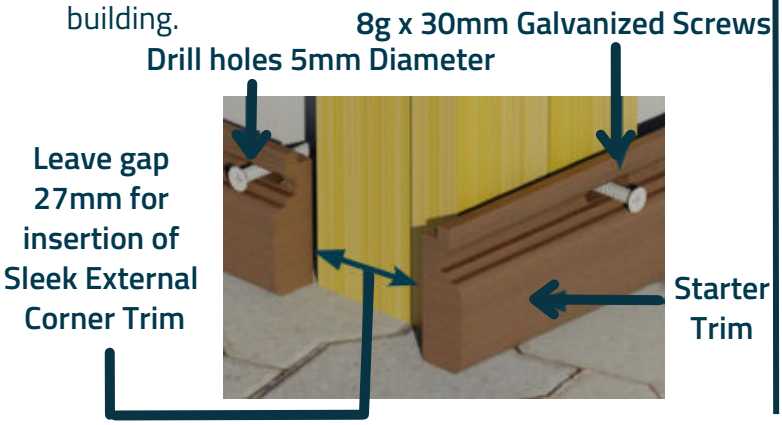
2. Mark level lines on frame or battens & place Starter Trim into position.

3. Drill holes 5mm in diameter into the Starter Trim. These holes must line up with the centre of each stud or batten. Spans should not exceed 600mm


4. Fix Starter Trim using 8g x 30mm Galvanized Screws. Ensure you use appropriate torque setting so that the Starter Trim isn't over tightened, as this will restrict expansion & contraction.

Torque settings are present on most Combi Drill Drivers, please refer to your Drill Drive Hand Guide to establish how to use correctly. If required, conduct a small test to establish which setting is most suitable.

5. Ensure Starter Trim is firmly in position lying flat across batten faces. Repeat process around building.




## 2) FIRST CLADDING BOARD

1. Place Cladding Board in the correct position on the Starter Trim.

2. Drill holes 5mm in diameter into the Cladding board. These holes must line up with the center of each stud or batten.



3. Fix Cladding board using 8g x 30mm Galvanized Screws. Ensure you use appropriate torque setting so that the Cladding board isn't over tightened, as this will restrict expansion & contraction.

4. Ensure Cladding board is secure.

5. Repeat the process, checking the levels as you progress board by board (slight adjustments may be required)

# INSTALLATION STEPS

## 3) SLEEK NATURAL CORNER TRIM

Cladding Boards should be installed first, followed by the Sleek External Corner Trim.

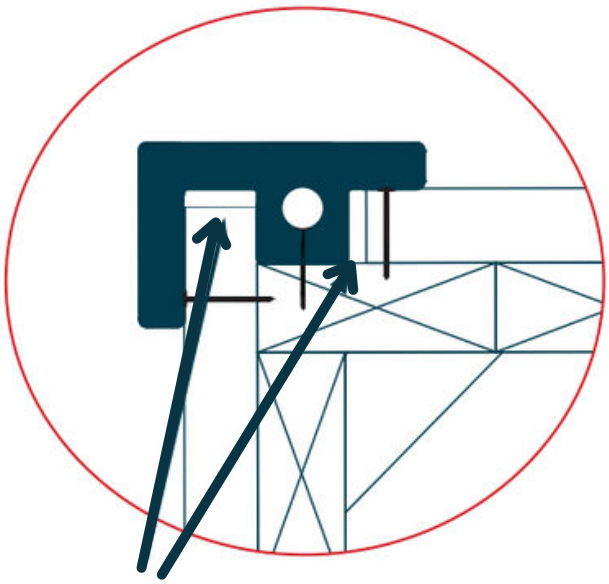
Cladding should sit in-between the recess provided, ensuring suitable gaps for expansion & contraction have been left. (Refer to the Gapping Requirements chart on Page 3). DO NOT butt cladding directly into trims.

Installing the Sleek External Corner Trim:

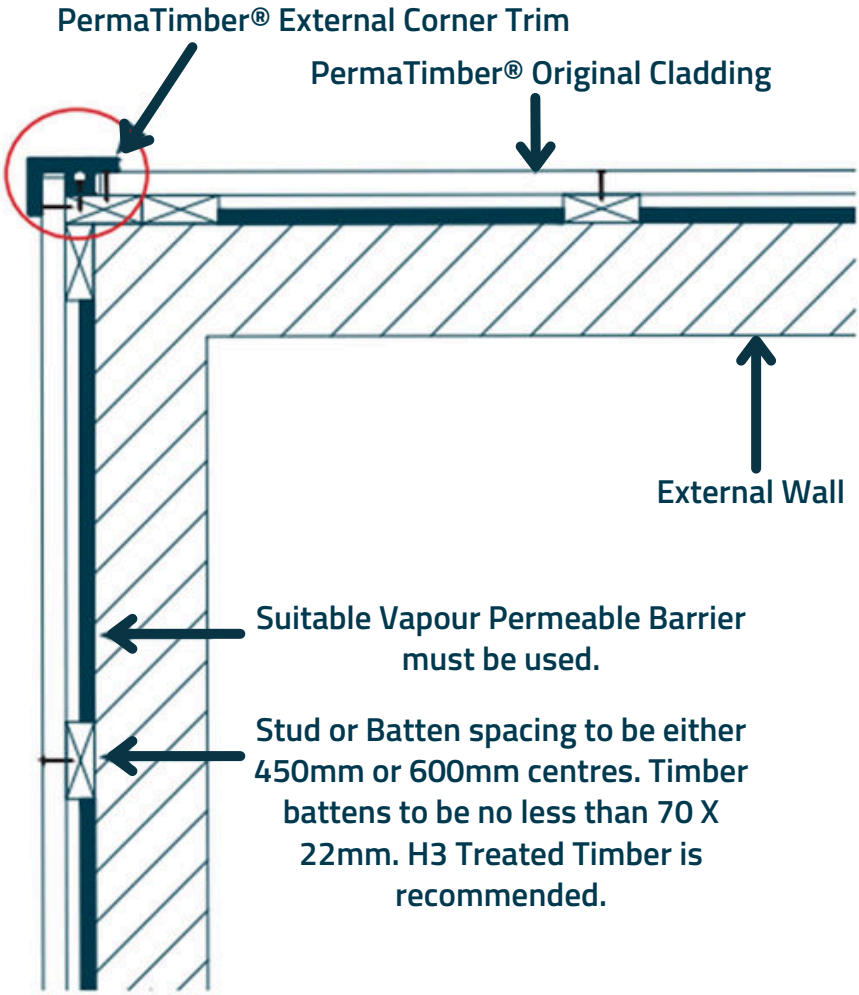
1. Place Sleek External Corner Trim into position.

2. Pre-drill bottom web with 5mm diameter holes

3. Fix External Corner Trim into position through bottom skin only ensuring it is level.



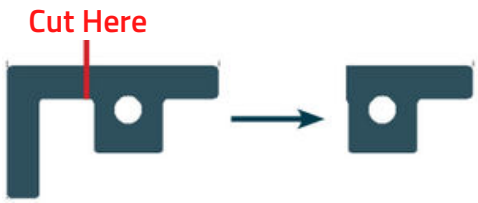
**Gaps left to allow for expansion & contraction**



# INSTALLATION STEPS

## 4) SLEEK INTERNAL CORNER TRIM

First, using a saw, cut the PermaTimber® Sleek Trim as the image below.




Place Sleek Internal trim in position & mark on frame or battens to see where the cladding boards will finish.

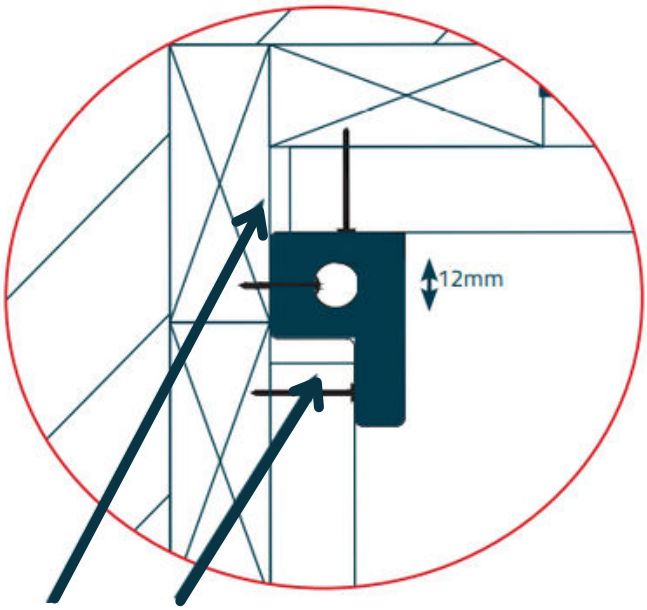
Note: Cladding Boards should be installed first, followed by the Sleek Trim.

Cladding should sit in-between the recess provided, ensuring suitable gaps for expansion & contraction have been left. (Refer to the Gapping Requirements on Page 3). DO NOT butt cladding up tight directly into trims Installing the sleek internal trim:

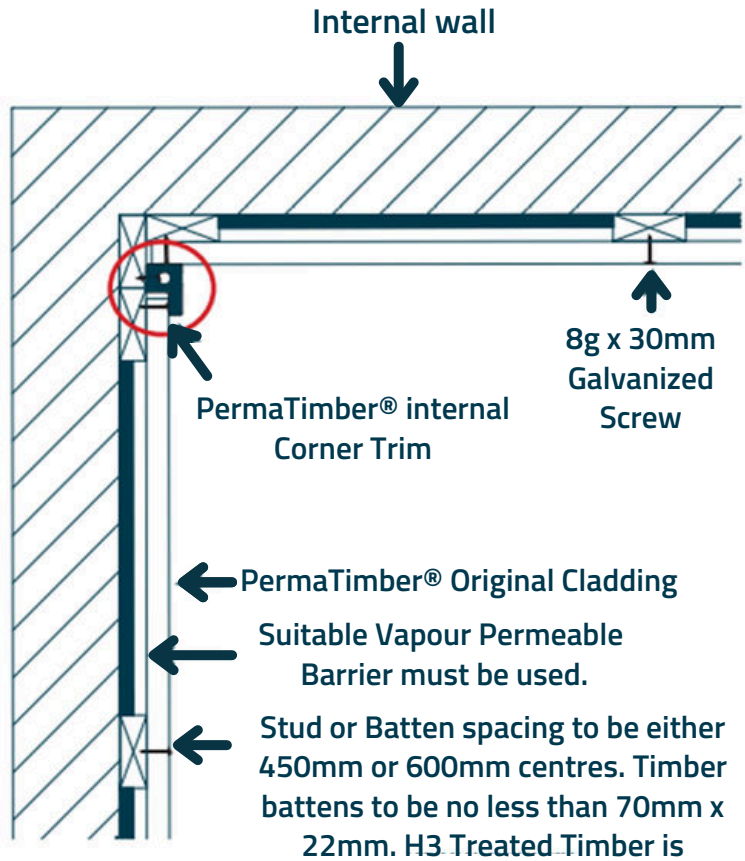
1. Place trim in place

2. Pre-drill bottom web with 5mm diameter holes

3. Fix Internal Corner Trim into position through bottom skin only ensuring it is level.



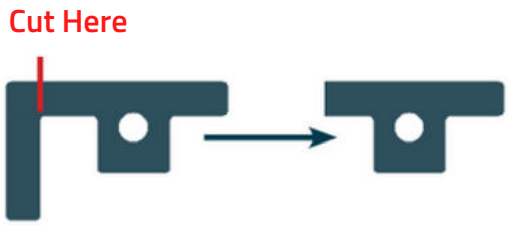

**Gaps left to allow for expansion & contraction**



# INSTALLATION STEPS

## 5) EXPANSION TRIM

First, using a saw, cut the PermaTimber® Sleek Trim as per the image below.




Place Sleek Expansion trim in position & mark on frame / battens to see where the cladding boards will finish.

Note: Trim should be installed after the cladding. Ensure that sufficient gaps have been allowed.

Cladding should sit in-between the recess provided, ensuring suitable gaps for expansion & contraction have been left. (Refer to the Gapping Requirements on Page 3). DO NOT butt cladding up tight directly into trims.

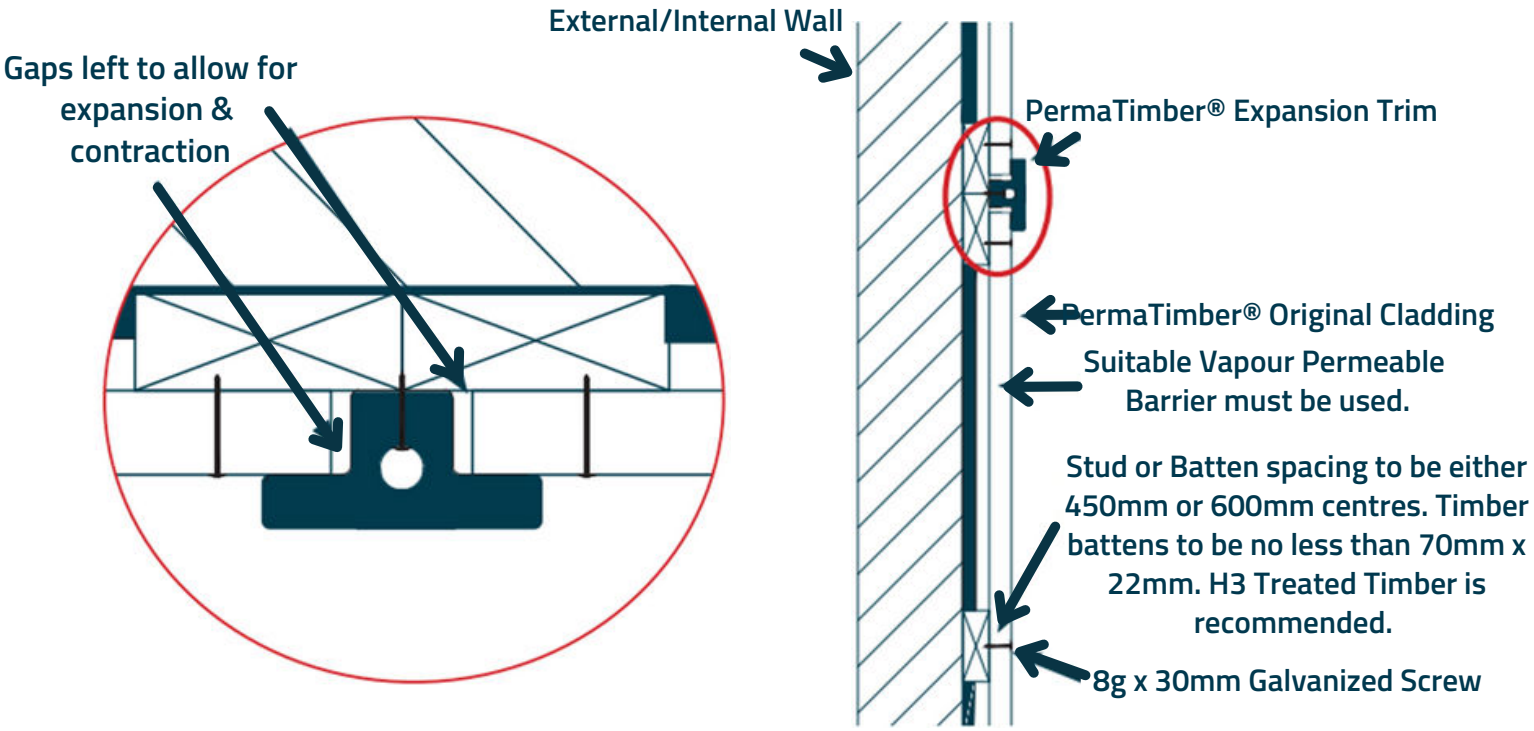
Installing the Sleek Expansion Trim:

1. Place trim in place

2. Drill 12mm holes into the outer surface to allow for plugs to conceal fixings.

3. Pre-drill bottom web with 5mm diameter holes

4. Fix Expansion Trim into position through bottom skin only ensuring it is level.



# INSTALLATION STEPS

## 6) TOP WINDOW & DOOR TRIM

Top/Window & Door Trim can be cut down to suit depending on the recess of the window or door frame. Place trim in position mark & cut where appropriate.

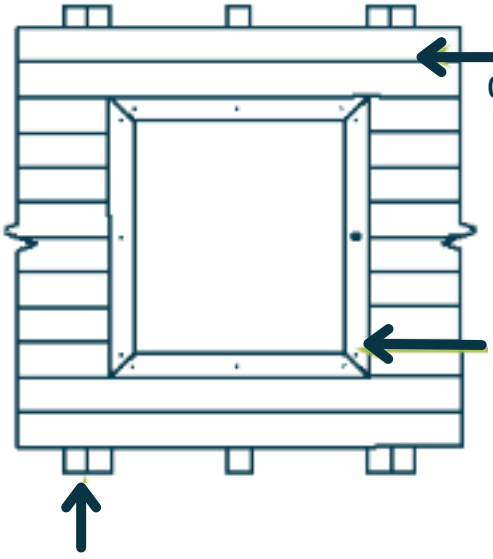
When installing the Top/Window & Door Trim mitring or butt joining is acceptable. (Please note: butt joining will leave an open end exposed, you will be required to make a small cap from the excess window trim.)

Fix trim through second surface (concealing screw head in box section. Mark frame or batten centres on trim profile with pencil to establish drilling positions.

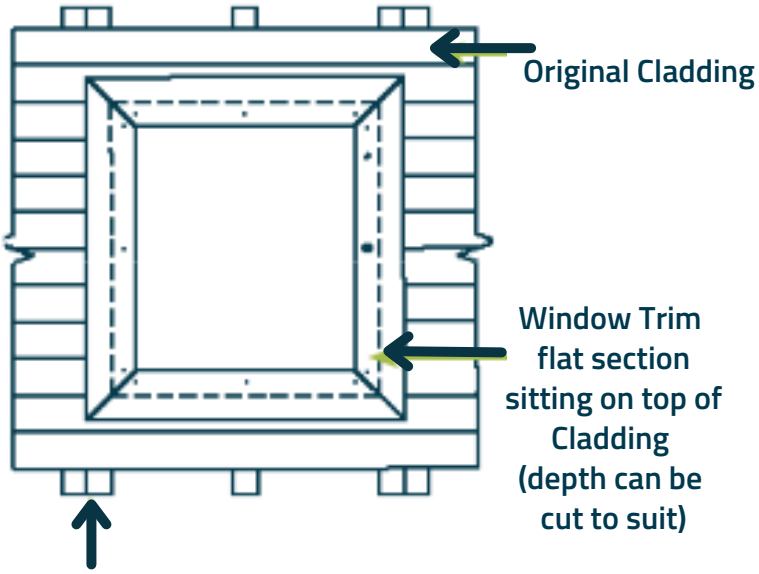
second face hole must be 5mm diameter.

Fix trim though second surface (concealing screw head in box section).

### Window Trim Flat Section Sitting on Sill




### Window Trim Flat Section on Top of Cladding



## INSTALLATION STEPS

PermaTimber® Original Cladding an be installed in both horizontal and vertical applications.

To install vertically, fix the Cladding Boards, Sleek External Trim, Sleek Internal Trim, Sleek Expansion Trim and Top Win dow / Door Trim as per the instructions on Page 3 - Page 8. Verticle starter trim (Aluninium Drp Trim) is to be installed as per the instructions below.

The use of Battens or Studs in this application will be required to suit a maximum of 600mm spacing of fixing.

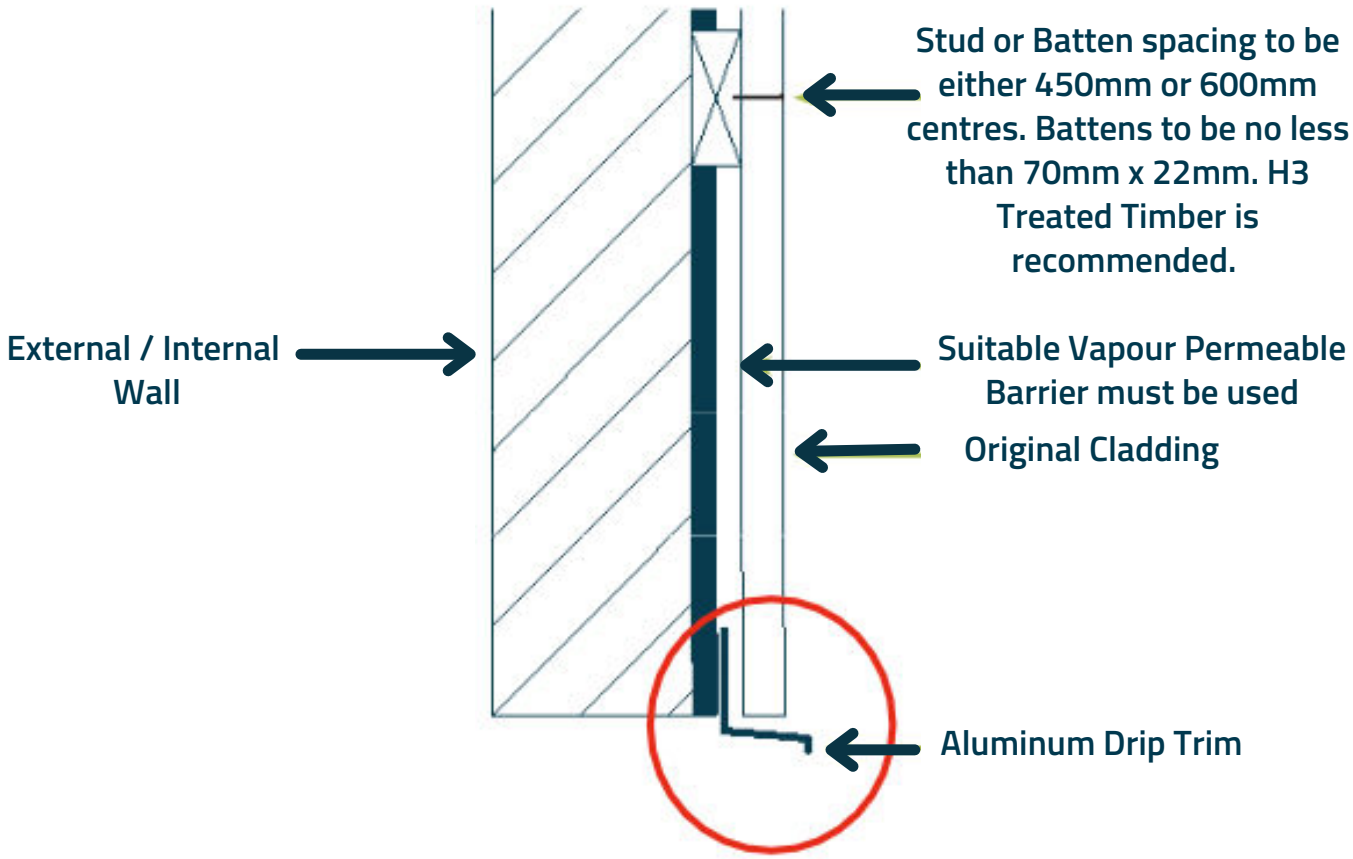
When installing vertically, you may also be required to use the PermaTimber® Aluminium Drip Trim

Note: When battening, please allow for batten thickness in window / door reveals, as the Cladding will need to fit into the Aluminium window / door reveal.

## ALUMINIUM DRIP TRIM

Soffit / Facade Junction Detail.

Fix Aluminium Drip Trim to support wall / batten prior to installation of cladding.



# NOTES

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