PermaTimber®

Cladding Install Guide

Please ensure you follow these instructions carefully when installing your PermaTimber® Eco Cladding.

1300 366 938

www.permatimber.com.au

Installation Guidelines

With correct installation, PermaTimber® Eco 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 natural timber elements, and as you would be aware timber has different natural appearances. To ensure PermaTimber® does look like timber, it may also experience natural variations in each Cladding board, and in some instances slight variations in colour, tone and grain.

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.

Perma Composites® warranty information can be found at **www.permatimber.com.au/warranty**

IMPORTANT NOTES:
Failure to adhere to the following will void your warranty.

✓ PermaTimber® Eco 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® Eco 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 stainless steel screws will void your warranty.

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

Subframe Information

PermaTimber® Eco 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.

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.

EXPANSION GAPS
Thanks to its special combination of recycled materials, PermaTimber® Eco 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 Temp (°C)	Gap Size (mm)
45	0
40	1
35	2
30	3
25	4
20	5
15	6
10	7
5	8
0	9

FRAMING AND BATTENING
Battens should be no less than 70 x 22mm H3 Treated Timber. Battens should be spaced centre to centre as per the following table..

Wind Classification	Batten Spacing
N1	600mm
N2	600mm
N3	600mm
N4	600mm
C1	450mm
C2	450mm
C3	450mm

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).

Please Note: The span should never exceed the above mentioned batten spacing . Fixing the cladding at a greater span centre to centre will void your warranty.

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.

SCREW REQUIREMENTS:

Product	Sub-Frame	Min Screw Size
Boards	Timber	8g x 30mm
	Steel	8g x 30mm
Trims	Timber	10g x 50mm
	Steel	10g x 60mm

All screws to be stainless steel.

Installation

1. STARTER TRIM

Note: For verticle installation please see page 9

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 (Figure 1).

Figure 1:

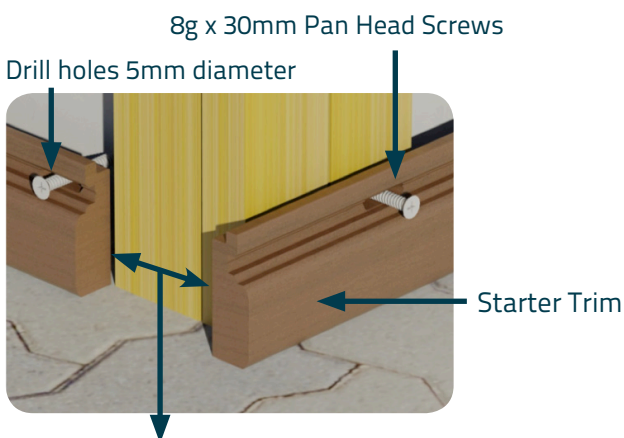Batten spacing 600mm

Holes line up with batten centres
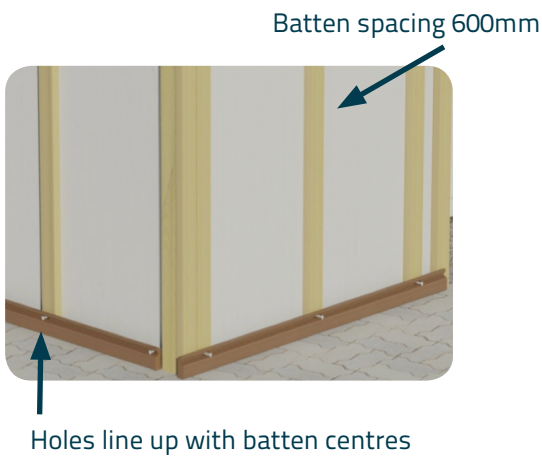
4. Fix Starter Trim using 8g x 30mm Pan Head Screws. Ensure you use appropriate torque setting so that the Starter Trim isn't over tightened, as this will restrict expansion & contraction.

    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.

Figure 2:

8g x 30mm Pan Head Screws

Drill holes 5mm diameter

Starter Trim

Leave gap 27mm for insertion of Sleek External Corner Trim

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 (Figure 3 & 4)
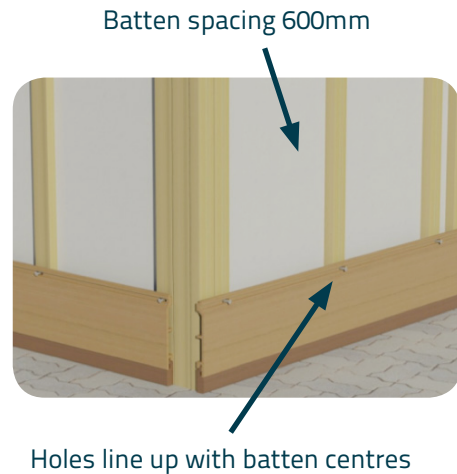
Figure 3:

Batten spacing 600mm

Holes line up with batten centres

Figure 4:

Drill holes 5mm diameter   8g x 30mm Pan Head Screws

Cladding Board

3. Fix Cladding board using 8g x 30mm Pan Head 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

3. SLEEK EXTERNAL CORNER TRIM

Cladding Boards should be installed first, followed by the Sleek External Corner Trim (Figure 5 & Figure 6).

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

5. Insert plugs to conceal fixings and give a light sand with 60 grit paper to blend plugs in.

Note: CX Cladding Trims do not require a plug. Install using a face fix screw, pre drill corner trim with a 5mm hole only.

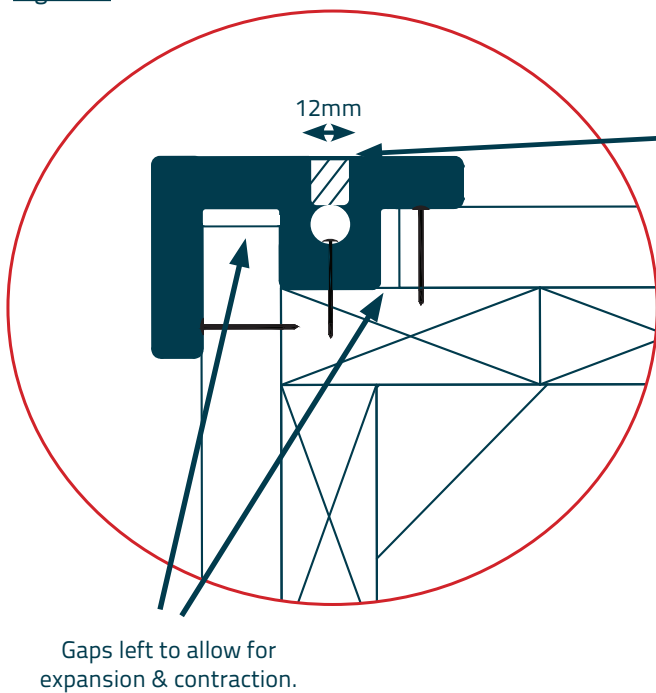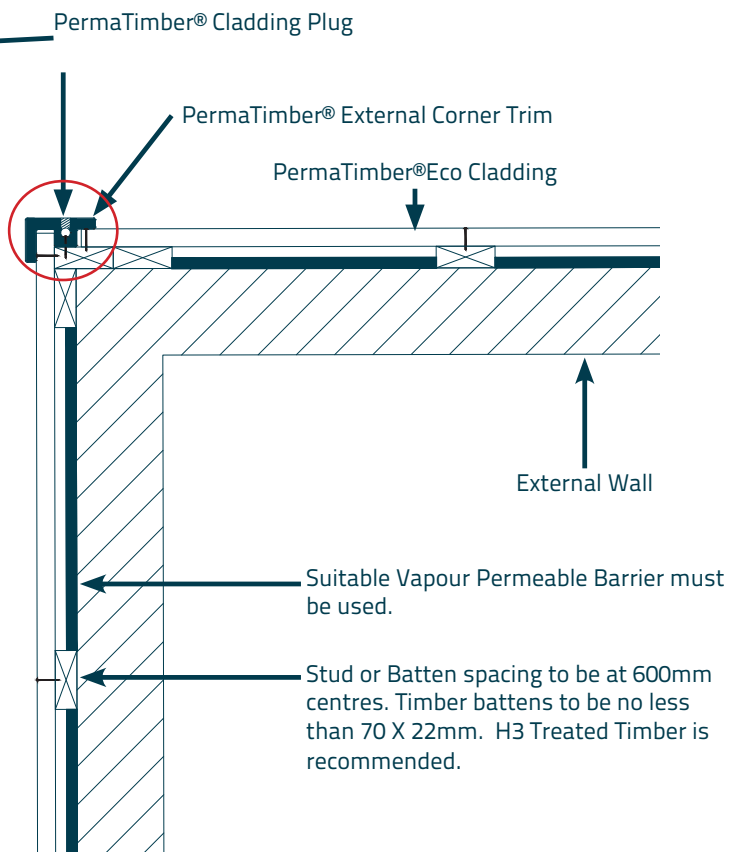Screws Required: 8g x 30mm Pan Head Screws for standard fixing with plugs.

Figure 5:

12mm

Gaps left to allow for expansion & contraction.

Figure 6:

PermaTimber® Cladding Plug

PermaTimber® External Corner Trim

PermaTimber®Eco Cladding

External Wall

Suitable Vapour Permeable Barrier must be used.

Stud or Batten spacing to be at 600mm centres. Timber battens to be no less than 70 X 22mm. H3 Treated Timber is recommended.

Installation

4. SLEEK INTERNAL CORNER TRIM

First, using a saw, cut the PermaTimber® Sleek Trim as per Figure 7...

Figure 7:

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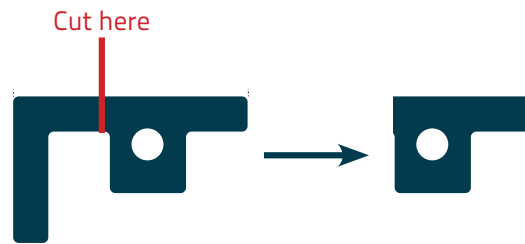
Place Sleek Internal trim in position & mark on frame or battens to see where the cladding boards will finish.

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

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

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

5. Insert plugs to conceal fixings and give light sand with 60 grit sand paper to blend plugs in.

Note: CX Cladding Trims do not require a plug. Install using a face fix screw, pre drill corner trim with a 5mm hole only.

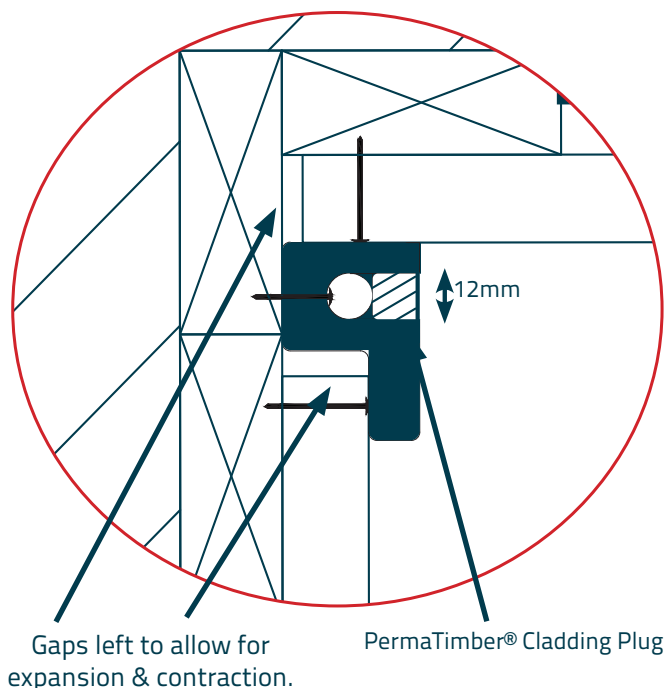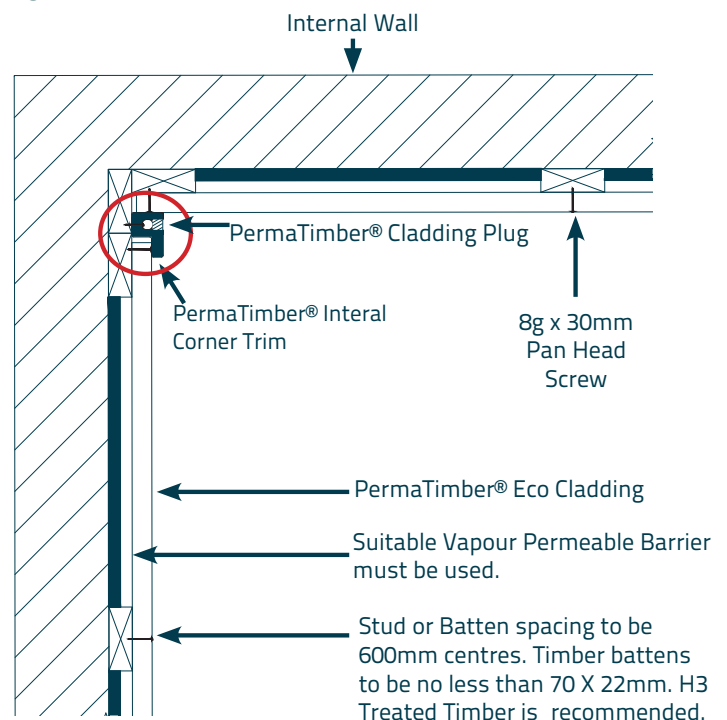Screws Required: 8g x 30mm Pan Head Screws for standard fixing with plugs.

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Figure 8:

12mm

Gaps left to allow for expansion & contraction.

PermaTimber® Cladding Plug

Figure 9:

Internal Wall

PermaTimber® Cladding Plug

PermaTimber® Interal Corner Trim

8g x 30mm Pan Head Screw

PermaTimber® Eco Cladding

Suitable Vapour Permeable Barrier must be used.

Stud or Batten spacing to be 600mm centres. Timber battens to be no less than 70 X 22mm. H3 Treated Timber is recommended.

Installation

5. SLEEK EXPANSION TRIM

First, using a saw, cut the PermaTimber® Sleek Trim as per Figure 10...

Figure 10:

Cut here for Standard Cladding

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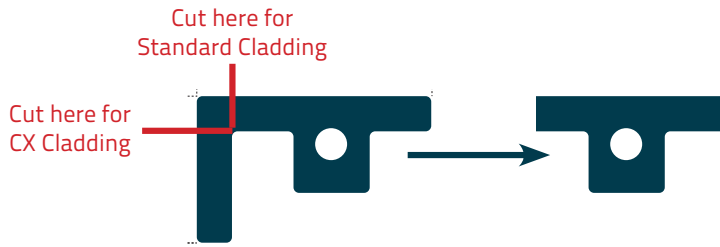
Place Sleek Expansion trim in position & mark on frame / battens to see where the cladding boards will finish.

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 (Figure 11).

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

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

5. Insert plugs to conceal fixings and give light sand using 60 grit sand paper to blend plugs in.

Note: CX Cladding Trims do not require a plug. Install using a face fix screw, pre drill corner trim with a 5mm hole only.

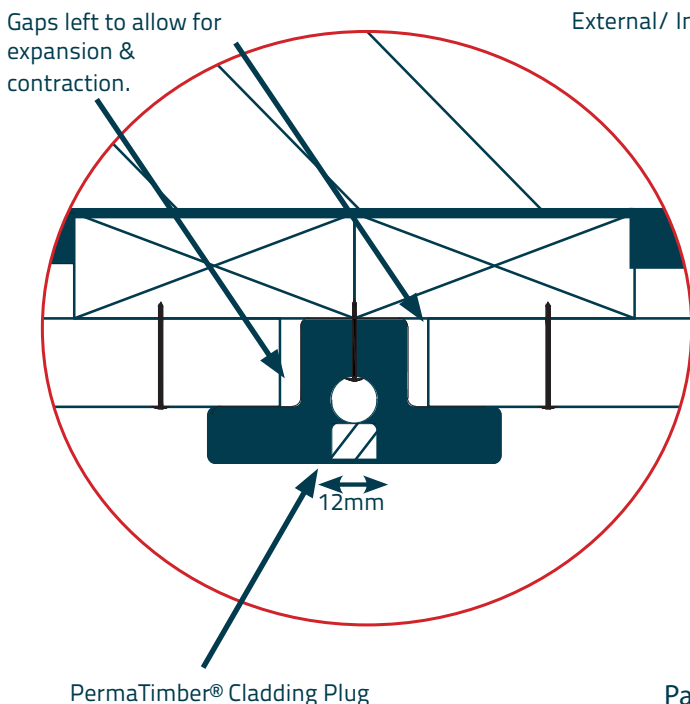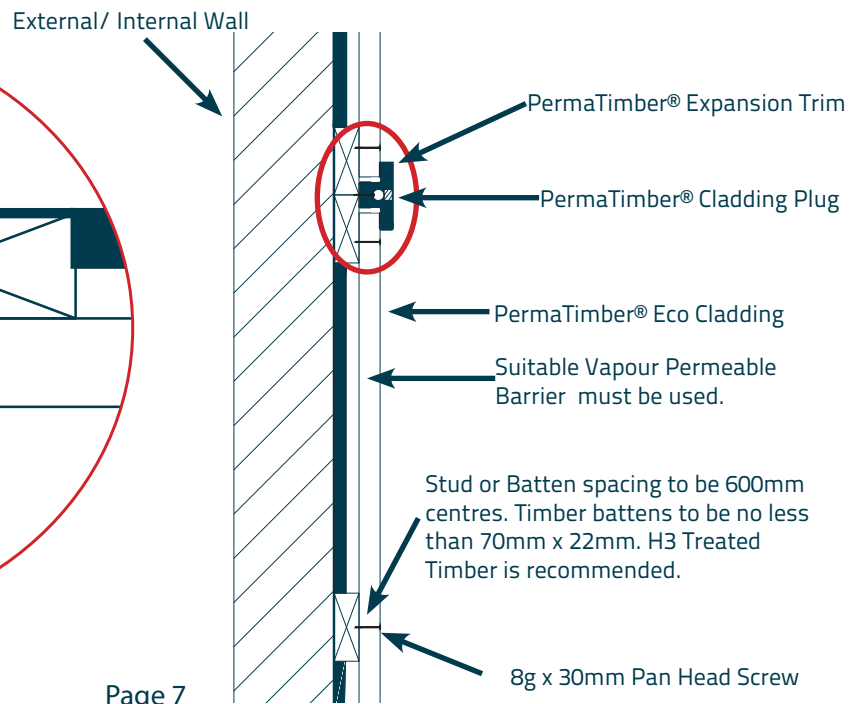Screws Required: 8g x 30mm Pan Head Screws for standard fixing with plugs.

Figure 11:

Figure 12:

Gaps left to allow for expansion & contraction.

12mm

PermaTimber® Cladding Plug

External/ Internal Wall

PermaTimber® Expansion Trim

PermaTimber® Cladding Plug

PermaTimber® Eco Cladding

Suitable Vapour Permeable Barrier must be used.

Stud or Batten spacing to be 600mm centres. Timber battens to be no less than 70mm x 22mm. H3 Treated Timber is recommended.

8g x 30mm Pan Head Screw

Installation

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.)

Mark frame or batten centres & drill a 12mm diameter hole for plug (Figure 13).

Screws Required: 8g x 30mm Pan Head Screws

Fix trim through second surface (concealing screw head in box section) (Figure 14). 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).

Figure 13:

Type 1: Window Trim Flat Section Sitting on Sill

Eco Cladding

Cladding Plug

Window Trim flat section sitting on sill
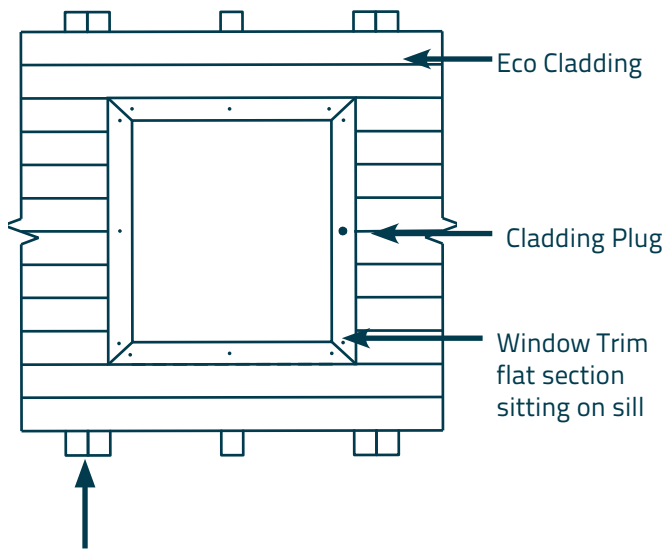
Battens to be no less than 70mm x 22mm H3 Treated Timber with 600mm centres.

Figure 14:

Type 2: Window Trim Flat Section on Top of Cladding

Eco Cladding

Cladding Plug

Window Trim flat section sitting on top of Cladding (depth can be cut to suit)
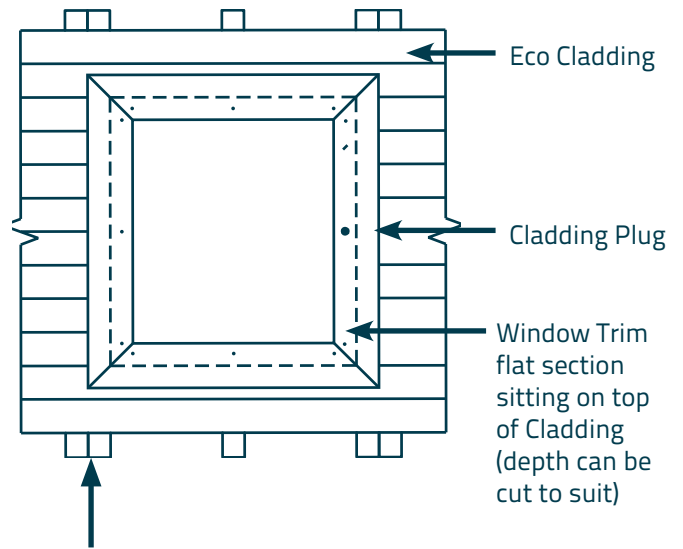
Battens to be no less than 70mm x 22mm H3 Treated Timber with 600mm centres.

Vertical Installation

PermaTimber® Original Eco Cladding and PermaTimber® WideBoard Eco Cladding profiles can 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 Window / 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 (Figure 15).
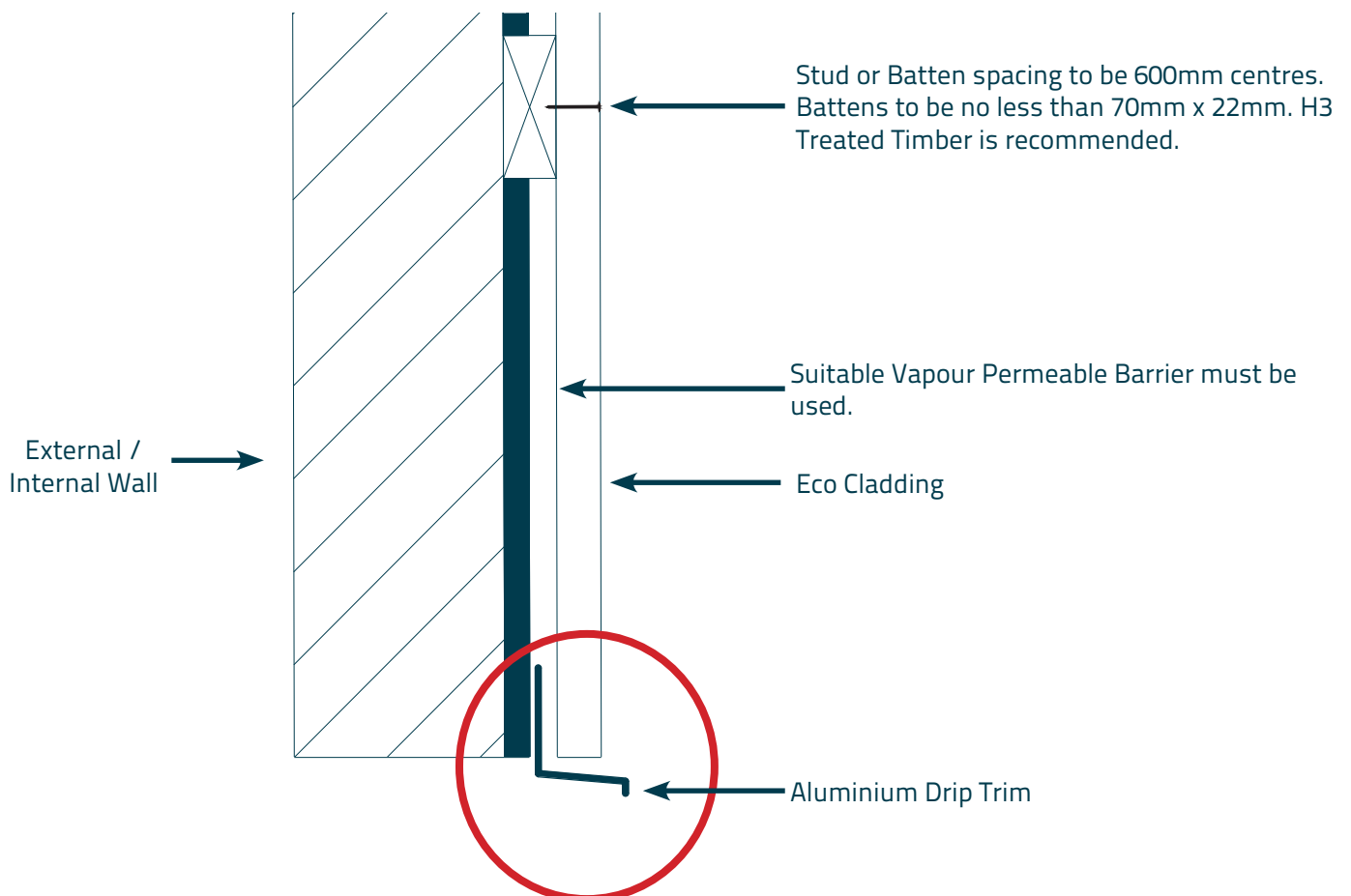
Note: When battening, please allow for batten thickness in window / door reveals, as the Cladding will need to fit into the Aluminium window / door reveal.

7. ALUMINIUM DRIP TRIM

Soffit / Facade Junction Detail.

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

Figure 15:

Stud or Batten spacing to be 600mm centres. Battens to be no less than 70mm x 22mm. H3 Treated Timber is recommended.

Suitable Vapour Permeable Barrier must be used.

External / Internal Wall

Eco Cladding

Aluminium Drip Trim

The full suite:

Cladding

QuickBoard™
Ceiling & Wall Lining

Screening

Decking

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