

INSTALLATION GUIDE

Cladding Systems

Castellated Cladding

WELCOME TO COMPOTECH SOLUTION

Thank you for choosing Compotech Solution.

Our high-performance WPC products are designed to provide a natural timber aesthetic with superior durability and low maintenance.

Purpose of This Guide

This document serves as a reference guide for the installation of Compotech products. It does not replace professional training, local building codes, or the expertise of a licensed contractor.

It is the responsibility of the installer to ensure the project complies with the National Construction Code (NCC) and local council regulations.

DISCLAIMER & WARRANTY CONDITIONS

Installation & Handling: Please be advised that the Compotech Solution Warranty does not cover damage resulting from improper installation, intentional misuse, or any handling that deviates from the instructions provided in this guide.

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SAFETY & ENVIRONMENT



Personal Protective Equipment (PPE)

Always wear appropriate safety gear during installation.

- **Eye Protection:** Safety glasses or goggles to protect against flying debris.
- **Respiratory Protection:** Dust masks (P2 recommended) to avoid inhaling composite dust during cutting.
- **Hand Protection:** Durable work gloves for handling boards.
- **Footwear:** Non-slip safety boots for site safety.



Safe Tool Operation

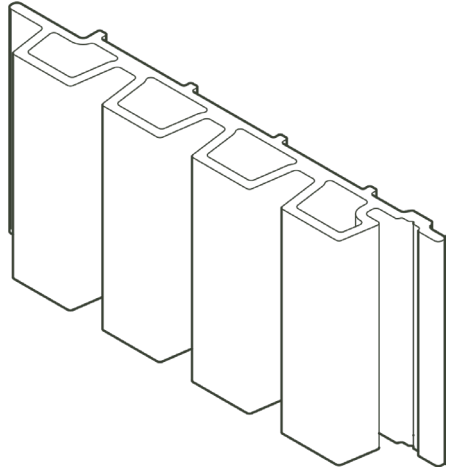
- Use standard woodworking tools with sharp, carbide-tipped blades for clean, professional cuts.
- Ensure all electrical tools are in good working condition and tagged if required for commercial sites.



Storage & Environment

- **Flat Storage:** Store boards on a flat, level surface with supports every 500mm to prevent sagging or permanent warping.
- **Acclimatisation:** Boards must sit on-site for a minimum of 48 hours prior to installation. This allows the material to adjust to the local temperature and humidity, reducing movement after installation.
- **Installation Weather:** Avoid installation during rain, high winds, or when temperatures exceed 30°C to ensure precise gapping and installer safety.

MATERIAL IDENTIFICATION



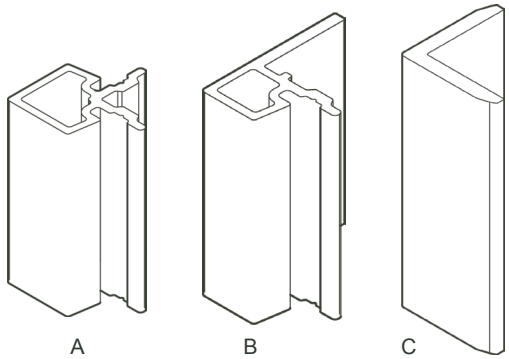
CLADDING

Composite Wall Cladding
213 × 33mm
Length: 4.8m

TRIMS

Length: 4.8m

- A. External Corner Trim
- B. Start/ Ending Trim
- C. L-Shape Trim



Fastening Recommendation

SCREWS

- For Timber Batten
7g × 32mm
- For Metal Batten
7g × 32mm



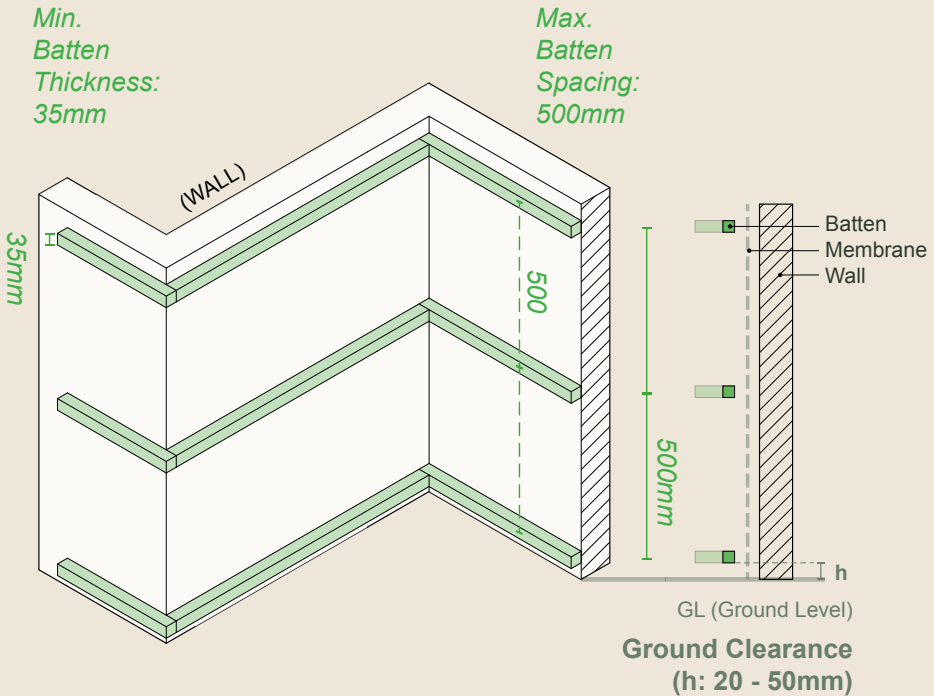
SUBSTRUCTURE PREPARATION

A solid, level, and well-ventilated substructure is essential for a successful installation.

Subframe / Battens

(Isometric View)

(Section View)



Wall Surface Inspection

- **Surface Leveling:** Ensure the wall structure is straight, plumb, and level before beginning installation.
- **Non-Load Bearing:** The cladding system is non-loadbearing and is not intended to contribute to the structural performance of the building.

Moisture Management

- **Waterproofing:** Apply a waterproofing system or membrane to the wall surface in accordance with NCC standards before installing battens.
- **Drainage & Ventilation:**
 - **Batten Ground Clearance:** Battens should end 20 - 50mm above the ground level (GL) or flashing to prevent moisture wicking.
 - **Board Clearance:** Maintain a minimum 5mm gap between the bottom of the cladding boards and the ground or trim to allow for drainage and airflow.

Batten Installation Specifications

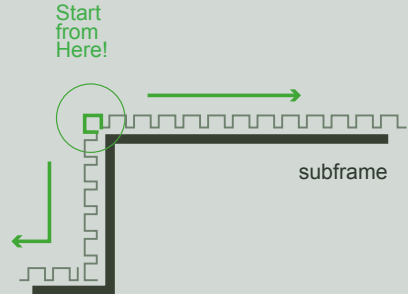
- **Material & Size:** Use timber or metal battens with a minimum thickness of 35mm to ensure sufficient airflow and structural integrity.
- **Maximum Spacing:** Battens must be installed at a maximum of 500mm centre-to-centre (C-to-C).
- **Structural Support:** Additional battens must be positioned at all corners, window/door openings, and board ends to ensure secure fixing for trims and panels.

INSTALLATION GUIDES

Different Site Conditions

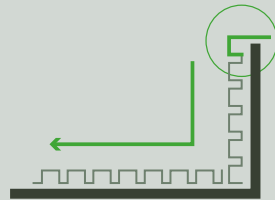
1 External Corner

Install the *External Corner Trim* first, ensuring it is perfectly plumb. Fix both sides of the trim to the battens before sliding in your first boards.



2 Internal Corner

Begin with a *Start/Ending Trim* or an *L-Shape Trim*. Complete the run by finishing with an *L-Shape Trim* at the opposite end.



3 No Corners

Start from either end. Use a *Start/Ending* or *L-Shape Trim* to secure the first board.



INSTALLATION GUIDES

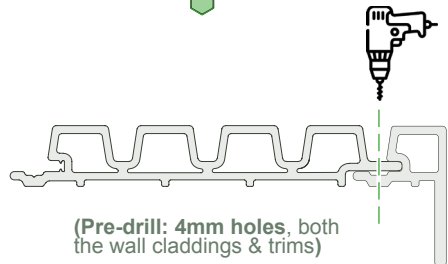
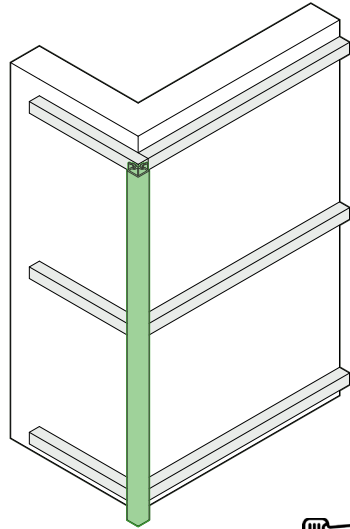
General Steps

STEP 1 Choose Your Starting Point & Install Trims

****Always start from an External Corner if present.*

Pre-drill: Position the starter strips or trims. Pre-drill **4mm holes** through the flanges to allow for natural movement.

Fixing: Secure them to the battens. Ensure the trims are flush against the structure.



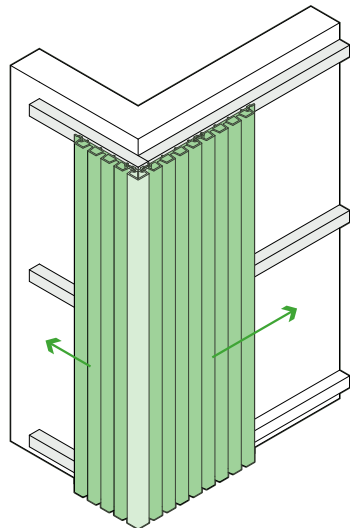
STEP 2 Install the First Board

Slide the first cladding board into the trim's channel.

STEP 3 Repeat Installation

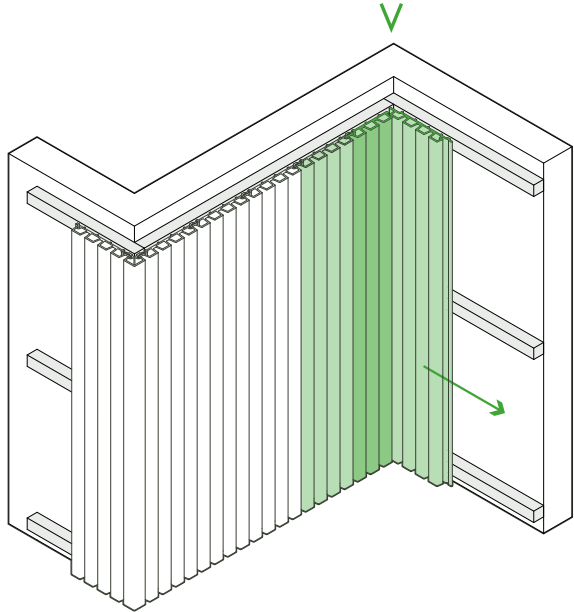
Slot the next board into the previous one (tongue/groove) and fasten with screws.

Continue until you reach an opening, a corner, or the end of the wall.



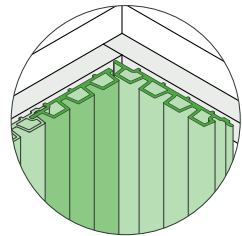
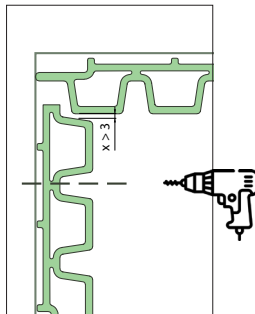
STEP 4
Handling Internal Corners

- Cut the boards to fit neatly into the corner.
- **Expansion Gap:** Always leave a minimum 3mm gap at corners (between cladding profiles) to allow for expansion.



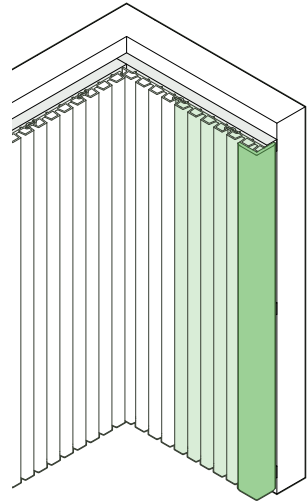
- **Fixing:** If the screw channel is cut off, secure the board by placing a screw through the last groove of the cladding into the batten.

min. 3mm gap



STEP 5
Finishing the Wall (Final Board)

Trim the final board to the required width.



(Final Trim Option)

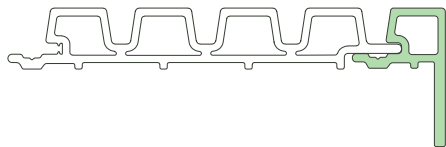
Option A _Using Start/Ending Trim

Slide the board into a pre-installed Start/Ending Trim.

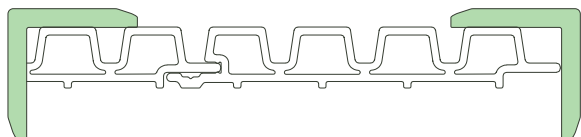
Option B _Using L-Shape Trim

Fasten the board through its last groove, then cover the exposed edge with an L-Shape Trim. Ensure the trim's screw channel faces the opposite side of the batten for a clean look.

(Start/Ending Trim)



(L-Shape Trim)



CARE & MAINTENANCE

General Cleaning

- **Regular Wash:** To keep your cladding looking its best, periodically wash the wall surface with warm soapy water and a soft-bristled brush to remove accumulated dust or debris.
- **Dirt & Debris:** Thoroughly wash down the cladding surface. A mild dish soap is usually sufficient to break down surface grime.
- **Mold & Mildew:** If mold appears due to lack of sunlight or high humidity, use a specialized composite cladding cleaner. Regular cleaning is the best prevention.
- **Hard Water Spots:** For white mineral deposits from sprinklers, use a solution of white vinegar and water, then rinse thoroughly.

Surface Protection

- **Physical Impact:** Avoid leaning heavy, sharp, or metallic objects directly against the cladding surface to prevent structural dents or scratches.
- **Heat Sources:** Keep BBQs, fire pits, and high-heat sources at a safe distance from the wall. Excessive heat can cause the composite material to deform or discolour.
- **Vegetation:** Keep plants and vines trimmed back from the cladding to ensure adequate airflow and prevent moisture buildup against the wall boards.

Important Warnings

- **Avoid Harsh Chemicals:** Do not use bleach, strong acids, or abrasive chemical solvents, as they may discolour or damage the boards.
- **High-Pressure Cleaning:** If using a pressure washer, keep it under 1500 PSI. Maintain a distance of at least 300mm from the surface and spray in the direction of the wood grain.
Note: Avoid spraying directly into the ventilation gaps behind the cladding.
- **No Metal Tools:** Never use metal scrapers or sharp tools to remove stubborn dirt, as they will permanently scratch the composite surface.





CUSTOMER SUPPORT

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