



HYGIENE CLAD

HANDLING | INSTALLATION | CARE

IMPORTANT NOTICE

*IMPROPER STORAGE, IMPROPER INSTALLATION OR INADEQUATE GAPS
FOR EXPANSION AND CONTRACTION MAY CAUSE WARPING, BUCKLING
AND PERMANENT DAMAGE OF MATERIAL*

TABLE OF CONTENTS

INTRODUCTION	3
Hygiene Clad Trim Pieces	4
PREPARATION	5
Ordering Guidelines	5
Storage	5
Site Prep	6
Fasteners / Sealants	7
Tools	8
INSTALLATION	9
Ceiling Installation	10
Wall Installation	11
Installation Checklist	12
Cleaning	13

1 INTRODUCTION

Start Here:

Please read this guide completely before commencing installation.

Follow all of the recommended fastening and installation procedures.

● *Note that improper installation of Hygiene Clad PVC Wall Liner may cause buckling and permanent damage of the products which will void any warranty.*

The purchaser is solely responsible for determining the suitability for use or application of Hygiene Clad PVC Wall Liner and all components thereof.

The purchaser is also responsible to determine if materials meet all requirements of applicable local building and safety codes for the specific applications.

The purchaser is solely responsible for ensuring that selected fasteners and any support structure (e.g. timber frame, masonry walls etc) receiving these fasteners, are structurally adequate for their purpose in fixing the panels in place, for the required duration of their use.

Improper handling, storage or installation of Hygiene Clad PVC Wall Liner may void warranty agreements.



Hygiene Clad PVC Wall Liners are made to cover your walls or ceiling areas quickly. The panels are 456mm wide, 9mm thick and available in custom lengths to fit your project requirements. The panels have a smooth, glossy surface that improves overall reflective lighting. This creates a great-looking, easy-to-clean wall for corrosive or high-moisture areas while also maintaining a fresh, clean appearance.

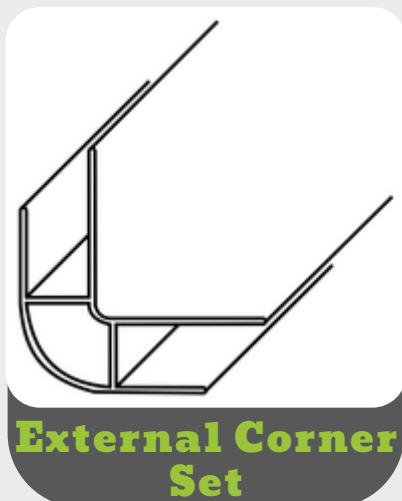
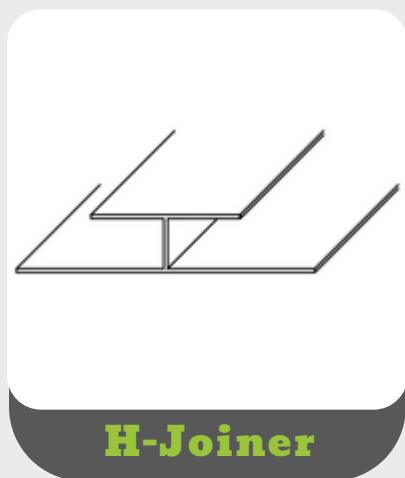
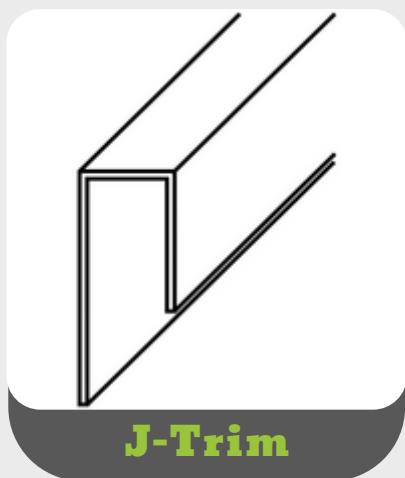
We have made this installation guide available for Hygiene Clad PVC Wall Liner to provide guidelines which should be followed to achieve the most successful construction for your project. The Ultimate Solutions team is always available to answer any questions that may arise and your feedback on this document and any part of your Ultimate Solutions experience would be gratefully received.

PH: 0800 160 101 | SALES@ULTSOL.CO.NZ

HYGIENE CLAD

Trim Pieces

This table shows all of the Hygiene Clad Trim Pieces currently available.



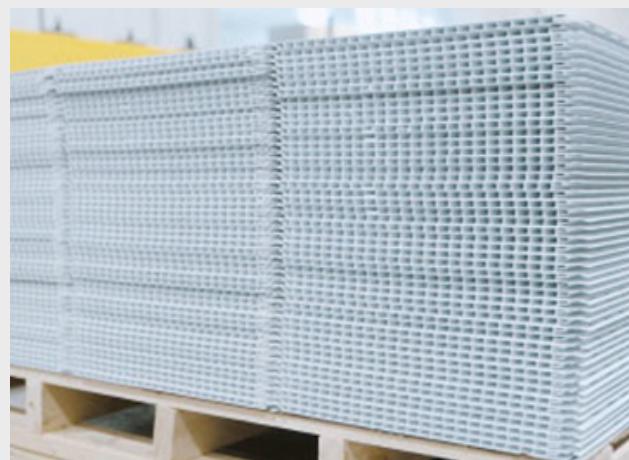
2 PREPARATION

Ordering Guidelines:

1. Hygiene Clad PVC Wall Liners can be ordered in a standard length of 5.8m. *Custom lengths are also available upon request.*
2. When ordering Hygiene Clad cut to size from the factory, ensure that all the wall heights and ceiling dimensions are consistent throughout the building and adjust the dimensions for the recommended clearances. Wall heights and ceiling dimensions may vary due to building irregularities.
3. Hygiene Clad ceiling panel should run perpendicular to roof joists or strapping; take total lineal meterage of ceiling and divide by .456. For Hygiene Clad wall panels, take lineal meter of each wall individually and add them all together.
4. Trim: Calculate total lineal meters as required and divide by 5.8m for total quantity.
5. In dry environments, Hygiene Clad PVC Wall Liner **may sit** flush with the floor. In wet environments, it **shall not sit** flush with the floor. Hygiene Clad PVC Wall Liner should be installed a minimum of 25mm above the finished floor, using the Base Trim, to allow for any water to escape.

STORAGE

1. Hygiene Clad PVC Wall Liner panels should not be restrained and/or tightly held in place for any period of time. Loosen or remove any tight packing material from packaging upon delivery to ensure no deformation occurs while in storage.
2. Hygiene Clad PVC Wall Panel shall not be stored in enclosed hot spaces, to ensure no deformation occurs.
3. Store material level and straight – panel deviations caused by improper storage can be apparent in the finished wall/ ceiling levels.
4. Store Hygiene Clad in the shade or cover with loose tarps that provide shade – but do not restrict air flow or allow any condensation. To avoid discoloration, do not store in direct sunlight.





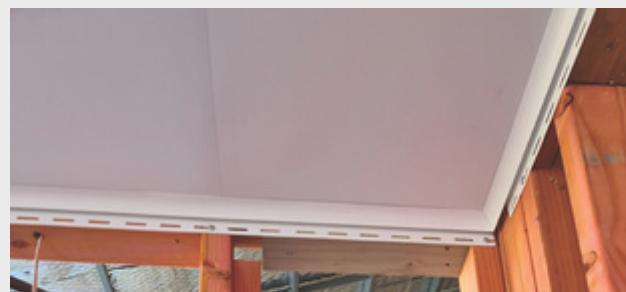
SITE PREPARATION

1. Inspect and plan the job in advance of the arrival of the Hygiene Clad to the site.
2. On receipt of product to site, check surfaces of all products for straightness and/or deformities. Contact your sales representative immediately in the event of any abnormalities.
3. Install furring, where necessary.
4. All surfaces to receive Hygiene Clad shall be uniform and straight throughout.
5. Hygiene Clad shall be supported and fastened every 400mm to 600mm maximum. Install continuous nailing strips or supports at the perimeters and around all openings to support all trims.
6. If the Hygiene Clad runs parallel to ceiling joints, roof trusses or wall studs, install additional 25mm x 75mm metal or wood furring at 400mm to 600mm maximum centers.



Any base materials (Steel, timber, block, concrete) are all suitable to receive Hygiene Clad – as long as the panels are supported and fastened every 400–600mm (max) centers and the correct method of fixing into the base material is used.

7. Install furring or strapping at the location of butt joints, for support of the H-Trim.



8. When planning to suspend lighting fixtures, install wall fixtures or other items within the installation area of the Hygiene Clad, adequate additional support shall be provided at each location where required, as specified by either the manufacturer of the products and/or the structural engineer acting for the purchaser. **Do not support anything directly from Hygiene Clad panels.**



9. Prior to start of installation, install all air, moisture and vapor barriers as required. These items are not provided as part of the Hygiene Clad PVC Wall Liner system.



FASTENERS

Use only corrosion-resistant (galvanized, stainless steel or aluminum) nails, screws and washers:

- Concrete – 5mm diameter Phillips Flat Head or similar
- Stainless steel – #8 Phillips Head or similar



The recommended fastener length is 32mm for screws and 38mm nails. 6mm inside diameter washers, or pancake screws, are recommended for use with appropriate fasteners.

Do not use staples.

Do not use power nailing guns.

Overtightening of fasteners may damage panels and void warranty.

NOTE: The purchaser is solely responsible for ensuring that selected fasteners and any support structure (e.g. timber frame, masonry walls etc) receiving these fasteners for the Hygiene Clad, are structurally adequate for their purpose in fixing the panels in place, for the required duration of their use.

SEALANT

If sealant is being used with Hygiene Clad, ensure that all materials specified by your team are suitable for use with PVC.

Typical products include those with one part neutral cure, oxide silicone such as:

- **Gorilla MS White 20600** by SOUDAL
 - ph: 0-800-70-10-80
 - https://soudal.co.nz/products/ms_sealants/gorilla-ms-sealant/
- **Gorilla White Silicone 19944** by SOUDAL
 - ph: 0-800-70-10-80
 - https://soudal.co.nz/products/gorilla_silicones-2/bathroom-and-kitchen-silicone/



RECOMMENDED TOOL LIST

<u>Ladders and/or Scaffolding</u>	<u>Putty Knife</u>
<u>Chalk Line</u>	<u>Tin Snips</u>
<u>Tape Measure</u>	<u>Hammer</u>
<u>Spirit Level</u>	<u>Drill (with Driver Bits)</u>
<u>Work Table</u>	<u>Square</u>
<u>Utility Knife</u>	<u>Hack Saw</u>

Sliding Radial Arm Saw – use a fine tooth blade (12 or 16 teeth per inch) with the blade installed in the reverse direction. Some applicators prefer hand-held circular saws with a similar blade installation.





3 INSTALLATION

1. Hygiene Clad PVC Wall Liner should only be installed at temperatures above 5°C.

2. All materials shall be stored at temperatures above 5°C for 24 hours prior to installation. At temperatures below 5°C, panels may chip when cut.

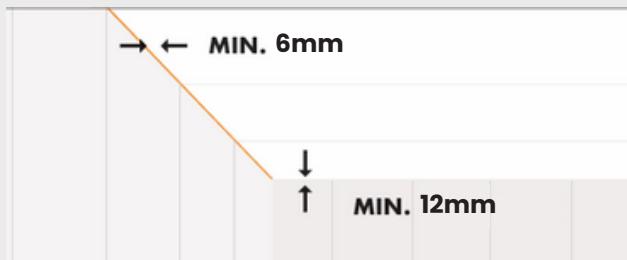
3. The recommended maximum service temperature for Hygiene Clad PVC Wall Liner is 50°C.

4. Hygiene Clad panels shall not be directly exposed to flame or radiant heat sources. Generally, all heaters, including radiant heaters shall be shielded and located more than 450mm from Hygiene Clad. Contact the manufacturer of any heater or radiant heater for installation details, heat shield requirements and all clearances from Hygiene Clad PVC Wall Liner.

5. When installing Hygiene Clad in temperatures **below 8°C**, use a blade or a knife (1.35mm) between panels as additional spacing to allow for expansion during hot weather. When installing in temperatures **below 5°C**, use a blade or a knife (1.95mm) between the panels to allow space for expansion in hot weather.

Note: The manufacturer and/or supplier of Hygiene Clad products is not responsible for problems related to storage, improper installation or temperature fluctuations

WALL CLEARANCES



6. Provide clearances between all panels during installation as follows:

- 6mm clearance minimum at each end of all Hygiene Clad ceiling panels
- 12mm clearance minimum at top of all wall panels

MINIMUM JOINT GAP



c. 1mm gap minimum between panels at interlocking joints When panel lengths are greater than 5m, double the gap for fluctuations.

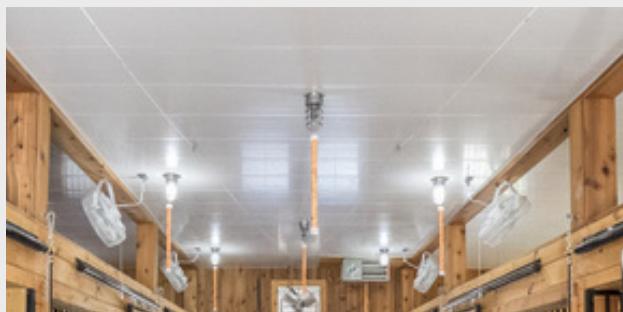
Recommended clearances are based on a maximum temperature fluctuation of 22°C and lengths not greater than 4.9m.

7. For lengths greater than 4.9m or if Hygiene Clad will be subject to greater temperature fluctuations, increased clearances and oversized holes for fasteners are recommended. Contact your Hygiene Clad account manager for recommendations to suit specific conditions.

8. On receiving Hygiene Clad PVC Wall Liner material, check all materials received against the shipping list and notify your Hygiene Clad sales representative of any abnormalities.



CEILING INSTALLATION



1. Where Hygiene Clad is being installed on both walls and ceilings, **install the ceiling panels first.**
2. Determine panel layout and width of first panel so that the first or last panel in each course will be a minimum of 200mm wide.
3. Use a chalk line to establish a straight line across the ceiling for the end of the first course. Plan the layout of H-Joiner and Inside Cove Corner to achieve an even balance or to align with adjacent work.
4. Always ensure that 4mm space is maintained for expansion at panel sides and minimum 6mm expansion at panel ends for panels up to 5m in length.
5. Fasten every 600mm maximum along the length of the Hygiene Clad, positioning fasteners in the center of the slots. Do not fasten tightly. Fasten within 100mm to 150mm of the end of the panels.
6. Install H-Joiner at joints leaving 6mm minimum for expansion. Nail the H-Joiner on the other side to wood supports at 600mm on center.
7. For best appearance, monitor the joints to ensure that the panels are aligned and remain parallel.
8. For the last course, cut the length of the panels to suit, leaving room for the expansion of 6mm minimum at each end and 9.5mm on the side.



WALL INSTALLATION

1. Where Hygiene Clad is being installed on both walls and ceilings, **install the ceiling panels first**.
2. Plan the layout of the Hygiene Clad PVC Wall Liner and trims to achieve an even spacing and to align with other adjacent work.
3. Determine panel layout and width of first panel so that the first and last panel in each wall section will be a minimum of 200mm wide.
4. Use a chalk line to establish a horizontal line across the base of the wall and a vertical line for the edge of the first panel.
5. In wet environments (e.g. vehicle wash), begin by installing J-Trim or base trim along the bottom of the wall at least 25mm above top of slab or finished floor level.
6. Drill 6mm diameter drain holes in the bottom of the J-Trim at 400mm on center or as appropriate for the application of the particular project requirements.
7. Install Trim at the top of walls if the top of panels are not hidden behind other ceiling finish. Install panels into Corner Trim or J-Trim. Install Inside Cove Corner or “base” pieces first, then the panels, and finish the walls by installing the “cap” pieces.





INSTALLATION CHECKLIST

All panels shall be able to slide freely, within the fastener slot holes, after installation to allow for expansion and contraction over time. Allow a minimum, of 1.6mm between the back of the fastener head and the nailing strip of the Hygiene Clad or trim.

Do not nail/fasten tightly into position . Doing so may cause the Hygiene Clad to be permanently damaged and/or deformed .

- Fasteners shall be not more than 600mm apart and located 100mm to 150mm maximum from ends of panels and trims.
- Always place fasteners in the center of the slots. If you must fasten near the end of a slot to hit a furring strip, extend the length of the slot with a slot-punch tool or router.

Do not fasten at the end of a slot . Doing so may cause the Hygiene Clad to be permanently damaged and/or deformed .

- Leave a minimum of 6mm clearance at each end of all panels and trims to allow for expansion and contraction.

No clearance at panel ends can cause ripples in the finish . Doing so may cause the Hygiene Clad to be permanently damaged and/or deformed

- For vertical panels supported at the bottom, provide minimum of 12mm clearance at top for panels 5m or shorter. If panels are greater than 5m, allow a minimum of 19mm.

Inadequate clearance can cause ripples in the panel and may cause the Hygiene Clad to be permanently damaged and/or deformed .

- Do not face-fasten the panels as Hygiene Clad expands and contracts with temperature changes.

Face fastening can cause ripples in the panel and may cause the Hygiene Clad to be permanently damaged and/or deformed .

- Install panels with a slight gap 1mm between panels at the interlocking joint to allow for expansion and contraction. Use the blade of a putty knife to set the width of the joint.

Do no fasten with tight joints in cold weather or cooler than normal ambient temperatures . Doing so may cause the Hygiene Clad to be permanently damaged and/or deformed .

- Use a one-part, neutral cure, oxide, silicone sealant to seal all corners, to seal around all fixtures and to repair small holes.



CLEANING

To remove common dirt and grime and to maintain the appearance of Hygiene Clad PVC Wall Liner, wash using a general cleaner, applied with sponge or soft bristle brush.

Some solvent cleaners may damage the finish of the Hygiene Clad and must be tested on a small sample area first.

Some cleaners not recommended:

- Clorox
- Pine Power
- Tide Power
- Grease Relief
- Paint Thinner
- Nail Polish Remover.

Protect eyes and skin from direct contact with cleaning agents at all times.

Always follow the precautionary labeling and manufacturer instructions for all cleaning agent containers

