



# FOLDED WALL

INSTALLATION GUIDE



## Introduction

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This LUX Metal Craft Series - Folded Wall installation guide is intended to advise our valued clients and distribution partners about the proper installation of the Folded Wall product. This guide is designed to be illustrative and as a result, the complex installation details have been kept to a minimum. Professional installers will need to apply their knowledge and experience to certain areas of installation that will not be covered by this guide. The Folded Wall is designed to be efficient and simple to install but precision and attention to detail are required for success. It is highly recommended that an experienced professional install the product.

## Getting Started

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When beginning the installation of your LUX Architectural Products order, always check for any potential issues with your product such as damage that might have occurred during shipping, post-manufacturing defects, or deformity from improper unpacking.

Also, check to make sure that your colour and product match your order. This is imperative because once installation has begun, any outstanding issues become the responsibility of the installer. If you find an issue, contact LUX immediately before starting the installation.

It is crucial that you ensure you have enough product to complete your installation. Although LUX Folded Wall's finish is generally very consistent, all pre-painted metals are batch-sensitive. This means it is paramount you have enough product to complete your installation from one order as the product is not guaranteed against paint batch inconsistency.

LUX Folded Wall is designed to be tailored to the requirements of your project. This means the LUX installation begins before the material is ordered in the way of pre-planning your install. A planned install yields the most efficient installation and pleasing aesthetic, making sure every trim and plank ordered is utilized correctly.

After ensuring you have received your order free of issue, it is time to begin installing LUX. Below lists the methods for installing each particular LUX trim for different starting and termination points.

## LUX Architectural Panel - Folded Wall - Features & Properties

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LUX Architectural Panel is a 24-gauge ASTM A792 55% Al-Zn Alloy Coated Steel that is prepainted in a PVDF high endurance paint. LUX Panel has Class A fire ratings in fire tests, can withstand extreme weather changes and winds, is impervious to insects, requires virtually no maintenance and is warranted for 40 years. Unlike wood, it will never rot, mould or mildew and is easy to clean and maintain.

## Safety Considerations

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Always wear and use appropriate Personal Protective Equipment (PPE), taking all precautions to protect eyes during installation and cutting. Gloves are recommended as there are sharp corners and edges on the Folded Wall and Trims. When cutting or being exposed to airborne particles, always wear an appropriate dust mask. Refer to the OHS Code for further requirements and safety measures for job site siding installations.

## Storage

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When storing the Folded Wall, be sure it is on a flat surface that will support the product. Never store your Folded Wall directly on the ground, and ensure the bottom of the stack of product is slightly elevated from the ground.

## Temperature Considerations

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While the expansion and contraction coefficient of LUX Metal is extremely low, it is recommended that you follow the instructions regarding spacing against trims. Also, avoid over-tightening screws in order to allow the panel some room to float. When installing the Folded Wall into J-Trims at least 1/8" should be left for expansion and contraction as well as to ensure J-inserts are seated well. Other Joiner and Starter Trims are designed to allow expansion and contraction without any special measures. LUX will float over minor wall imperfections if installed correctly.

## Transportation and Handling

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In order to maintain the integrity of LUX Folded Wall, precautions must be taken when loading and unloading the product.

When transporting LUX Folded Wall, ensure that it is not stacked too high or it could result in damage to the product below. Be aware of tiedown tension as overtightening can damage the product, and never stack other materials on top of the panels. When the products arrive, immediately check for any damage caused during shipping. Do not install damaged products.

## Warranty

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Your warranty may be void if proper application practices are not followed. That includes the practices outlined in this guide. Additionally, your warranty may be void if you do not follow local building codes.

The information provided in this document is reliable and offered in good faith but is made without warranty, expressed or implied, as to merchantability or fitness for a particular purpose. Readers should review this document in conjunction with their design professional's advice, construction drawings, manufacturer's technical literature, building code, and fire code. LUX does not assume any responsibility for the reader's compliance with applicable laws and regulations.

## Code Compliance

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The applicable Building Codes and Fire Codes are determined based on the project site location. There can be various code changes per province, city, and region. LUX Architectural Panel cannot address all the various codes in this guide. Project Designers, Builders, Architects, and Engineers must understand the applicable codes and install exterior cladding products within the guidelines of these codes. The requirements of the Local Building Codes must be observed as a minimum requirement of the installation of LUX Folded Wall. LUX Products adhere to the CGSB-93.4-92 as per standards Council of Canada, National Research Council Canada, National Building Code of Canada.

## Care & Maintenance

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While factory-applied finishes for metal building panels will last many years longer than ordinary paints, it is recommended to clean them thoroughly on a routine basis, especially when the finish is not washed by rain. Cleaning will generally restore the appearance of these products and render repainting unnecessary. An occasional light cleaning will also help maintain an aesthetically pleasing appearance.

Examples of applications requiring maintenance cleaning and inspection include roof cladding, soffits, wall cladding under eaves, garage doors, and the underside of eave gutters.

Washing should be completed at least every six months. Cleaning may be required more frequently if your building is located in coastal areas, areas where marine salt spray is prevalent, or in areas where high levels of industrial fallout occur. Mild solutions of detergents or household ammonia will be sufficient for the removal of most dirt.

The following cleaning solutions are recommended:

- One cup of detergent (ex. Tide®), containing less than 0.5% phosphate, dissolved into five gallons of warm water. (NOTE: The use of detergents containing greater than 0.5% phosphate is NOT recommended for use in general cleaning of building panels. **NEVER BLEND CLEANSERS AND BLEACH.**)
- One cup of household ammonia dissolved into five gallons of water (at room temperature).

## Care & Maintenance

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To clean the surfaces, use either solution and work from the top to the bottom of panels with a well-soaked cloth, sponge, brush (with soft bristles), or low-pressure spray washer. The application of the cleaning solution should be gentle to prevent shiny spots.

Refrain from using scouring powders or industrial solvents, since these agents may damage the paint film. Cleaners that contain solvents, such as Fantastik®, are very effective and can be used without concern. If mildew or other fungal growth is a problem and cannot be removed as outlined above, household bleach mixed at a concentration of one gallon of bleach to five gallons of water together with one cup of mild soap (ex. Ivory®) is recommended. The surface should be thoroughly rinsed with clean water after cleaning to remove traces of detergent.

All exposed metal areas, such as scratches in the finish, are susceptible to rust and should be spot-painted with touch-up paint. Also, accumulated debris such as metal particles, leaves, branches, trash, dirt, pollution fallout, etc., should be removed. Removing debris and the regular cleaning of surfaces by hosing will help prevent the settling of localized areas where accelerated corrosion can occur. Accumulations of salt deposits in coastal locations can have a particularly aggressive effect on metal products. These deposits are easily removed by a gentle hosing with clean water.

## Best Practices for Working with Folded Wall

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- Never use a grinder to cut LUX Products. The warranty will be void as it may damage the integrity of the finish and the Galvalume Metal.
- Folded Wall Clips should never be spaced farther than 24" apart.
- Install panels with care; take precautions not to scratch the panel while installing on the wall or resting on the ground.
- A proper support base must be used at the bottom of the Folded Wall. The U-support and Box Base are the methods provided for the Folded Wall, but similar sturdy support will also work.
- Installers must ALWAYS follow local building code as it applies to the installation of cladding, including all rainscreen requirements.

## Cutting LUX Panels

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There are many ways that LUX Folded Wall can be cut and modified. Create clean cuts of the panels and trims by using a quality ferrous blade, a skill saw, a mitre saw, or a radial arm saw. Use nibblers or snips to clean up cuts or to cut lengthwise down the center of a panel. Always wear proper protective equipment when cutting LUX and ensure that the panel and saw are on a level plane.

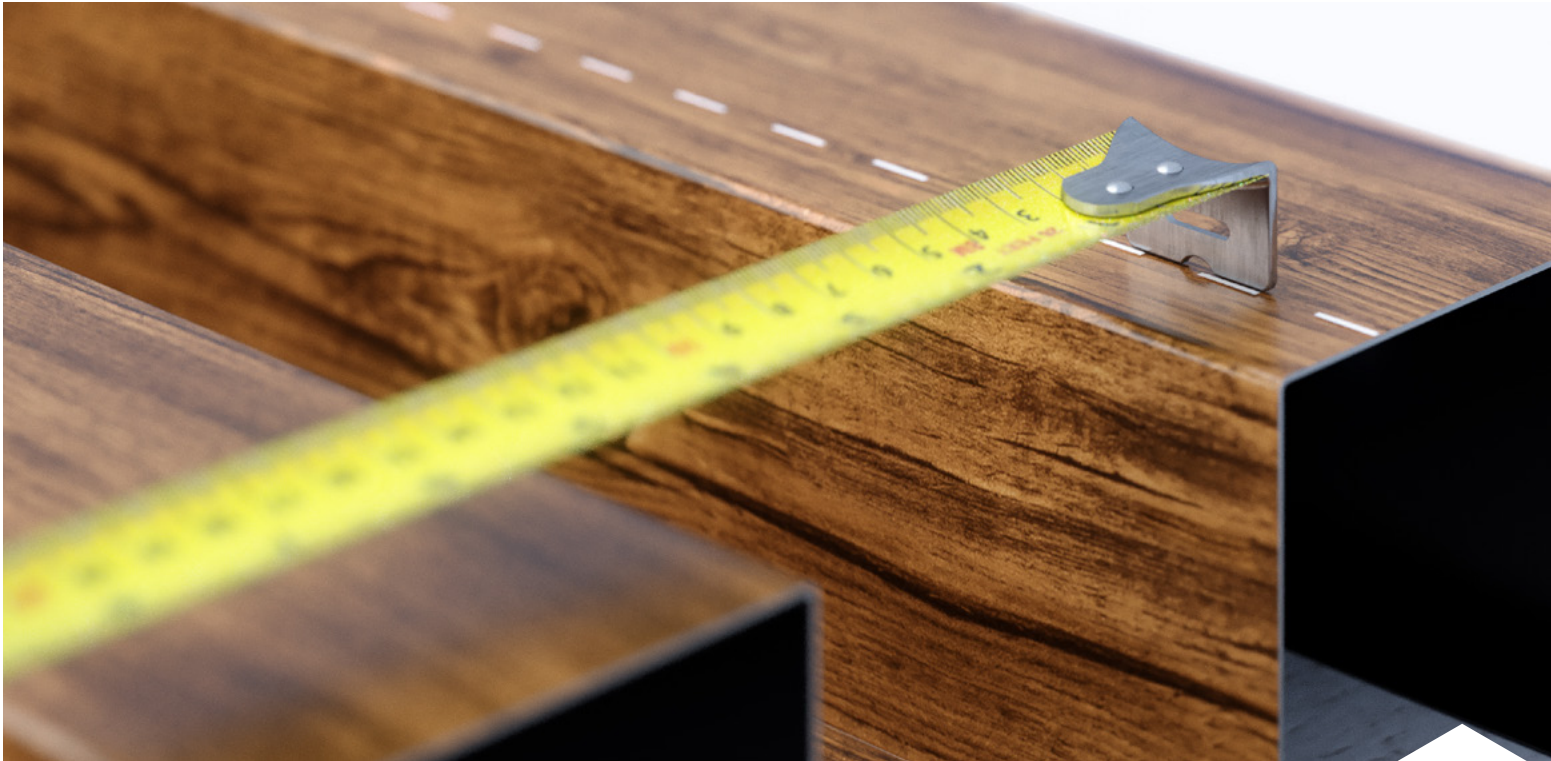
LUX Folded Wall can be cut using metalworking snips, metalworking nibblers, or various power saws. A metal cutting blade such as Freud Diablo Steel Demon 48 tooth TCG Ferrous Metal Cutting Blade is recommended.

\*Using a grinder will void the warranty as it damages the integrity of the finish and the Galvalume Metal.



If you are using a sliding compound mitre saw, the cut will be improved if the saw is pulled across the panel toward the operator and not down onto the panel.





- Always accurately measure and mark your cut paths.

01



- Trim and detail cuts can be done with shears or snips.

02



- Long cuts can be done with power saws, nibblers, or shears.

**03**



- Offcuts can be done with shears or snips.

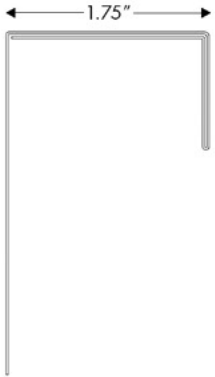
**04**



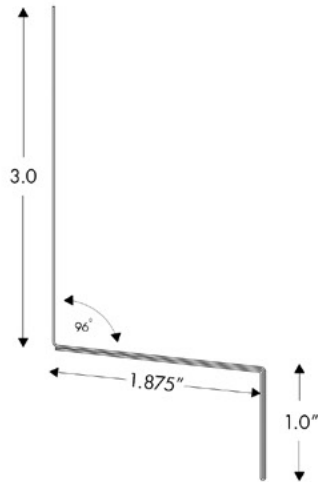
# Folded Wall Components



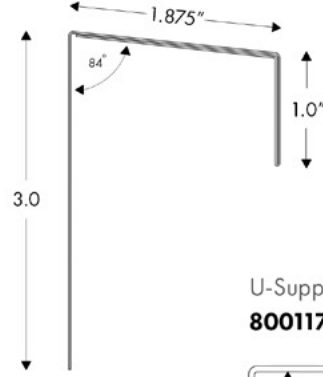
J-Trim  
**800112**



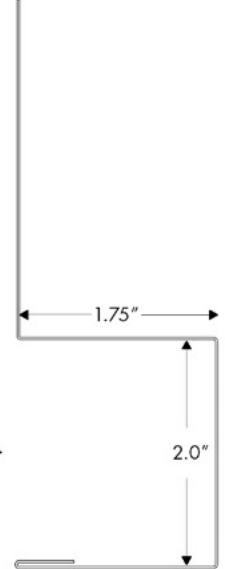
Belt Line / Window Flashing  
**800110**



Reverse Window Flashing  
**800118**



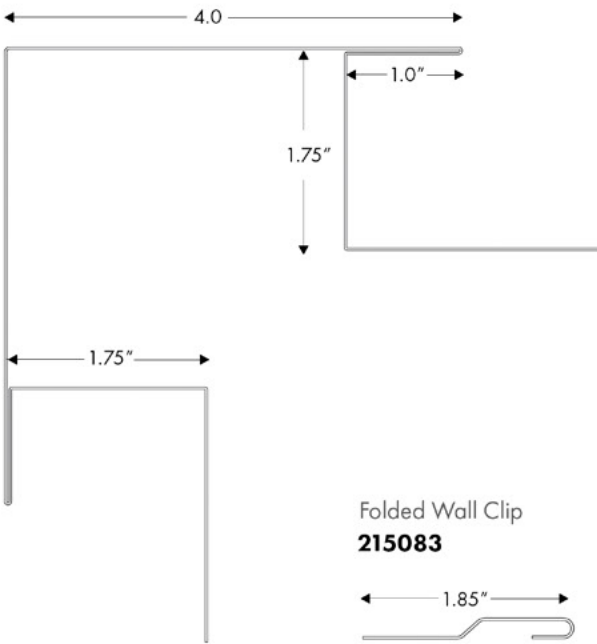
Box Base  
**800116**



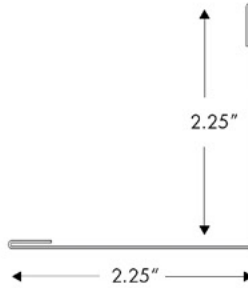
U-Support  
**800117**



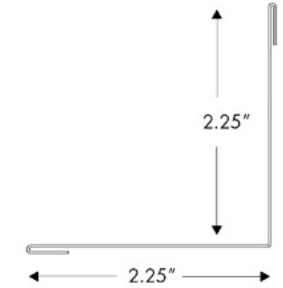
Corner Post  
**800204**



Outside L Trim  
**800200**



Inside L Trim  
**800202**



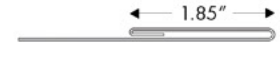
Folded Wall Clip  
**215083**



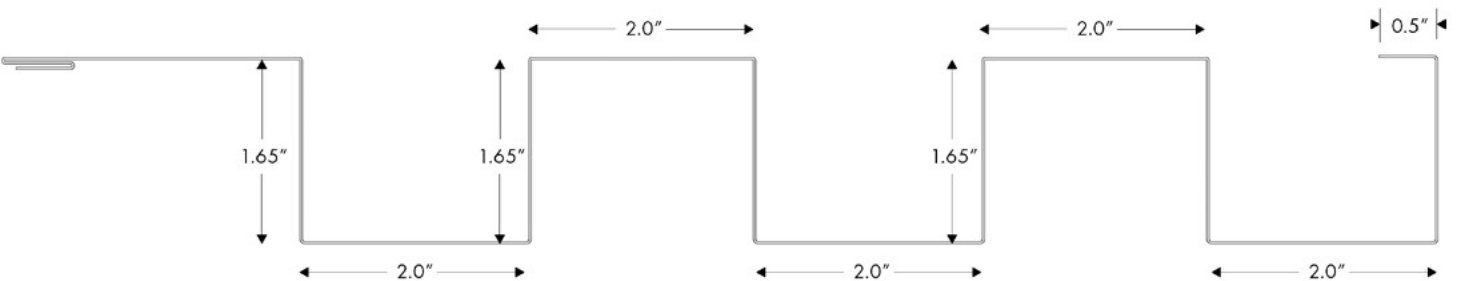
Starter Strip  
**800210**



Finish Trim  
**800208**



Folded Wall ( 20' - **800104** / 13' - **800102** / 10' - **800100** )





## **FOLDED WALL**

HORIZONTAL INSTALLATION





- In this single wall application, begin by installing the top, left side, and right side J-Trims.

**01**



- Center the starter strip and fasten, leaving a 1/2" gap underneath.

**02**





- Measure and cut your Folded Wall to size. Leave enough room to account for the pocket size of the trim so the panel can be sufficiently adjusted into place.

**03**



- Slide the Folded Wall into the J-trim. This will allow the Folded Wall enough room to slide past the J-trim on the opposite side.

**04**





- Push the Folded Wall flush against wall and pull up so the Folded Wall latches onto the starter strip

**05**



- Center the Folded Wall in place as you prepare to fasten.

**06**



- Fasten your Folded Wall in place with a Folded Wall clip mounted in the hem of the Folded Wall. If you require multiple clips, place them no greater than 24" apart.

**07**



- When installing the last Folded Wall panel, measure from the lower edge of the hem (from the previous panel) to the termination. Deduct 1/8" from your measurement.

**08**





- Once the last Folded Wall plank is cut to size, insert as shown.

09



- Slide the panel into the hem and center the panel. Next, pre-drill a hole through the J-Trim and Folded Wall and rivet it into place.

10

\*Note: This installation method will not be applicable if your Folded Wall panel terminates in such a way that the shallow part of the panel ends inside the J-Trim. Instead, please proceed to the next page in this section.





- If your Folded Wall terminates with the shallow end of the panel inside the J-trim, finish your installation by fastening a Finishing Trim over the J-trim

**11**



- Slide in your last Folded Wall panel and using either silicon or crimps, secure the end of the panel in the hem of the Finishing Trim.

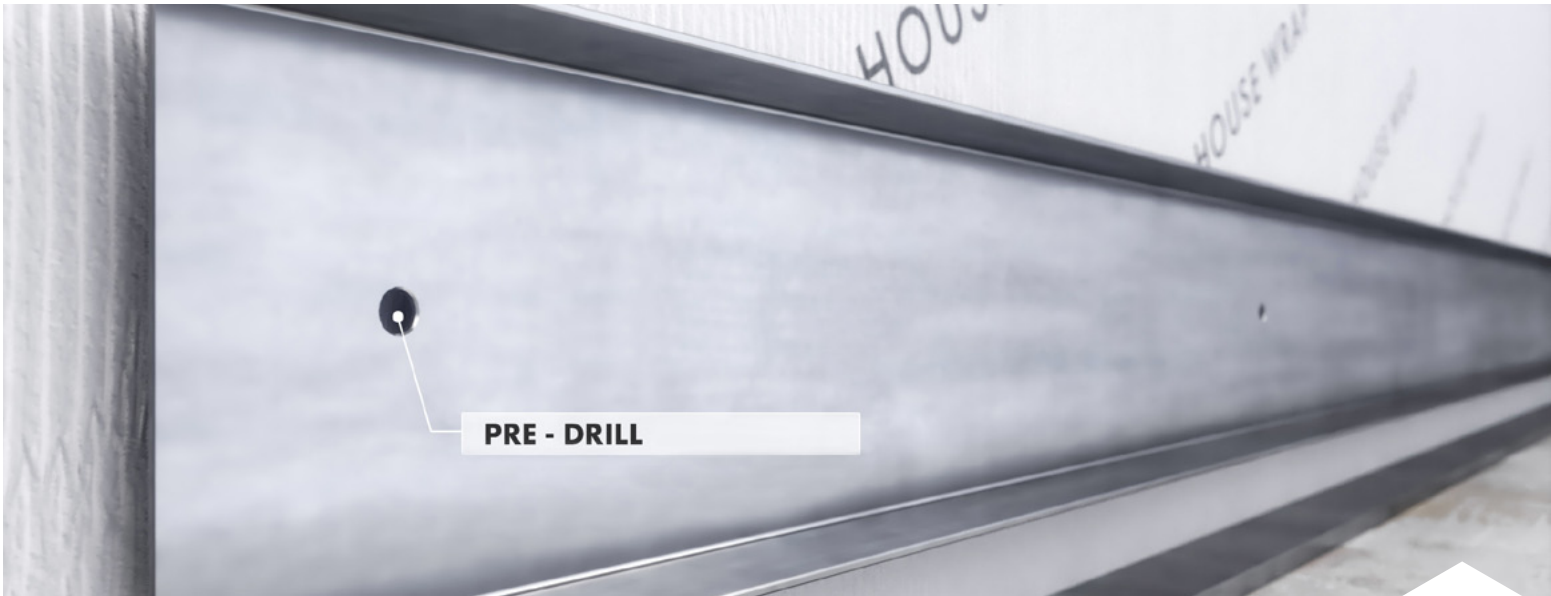
**12**





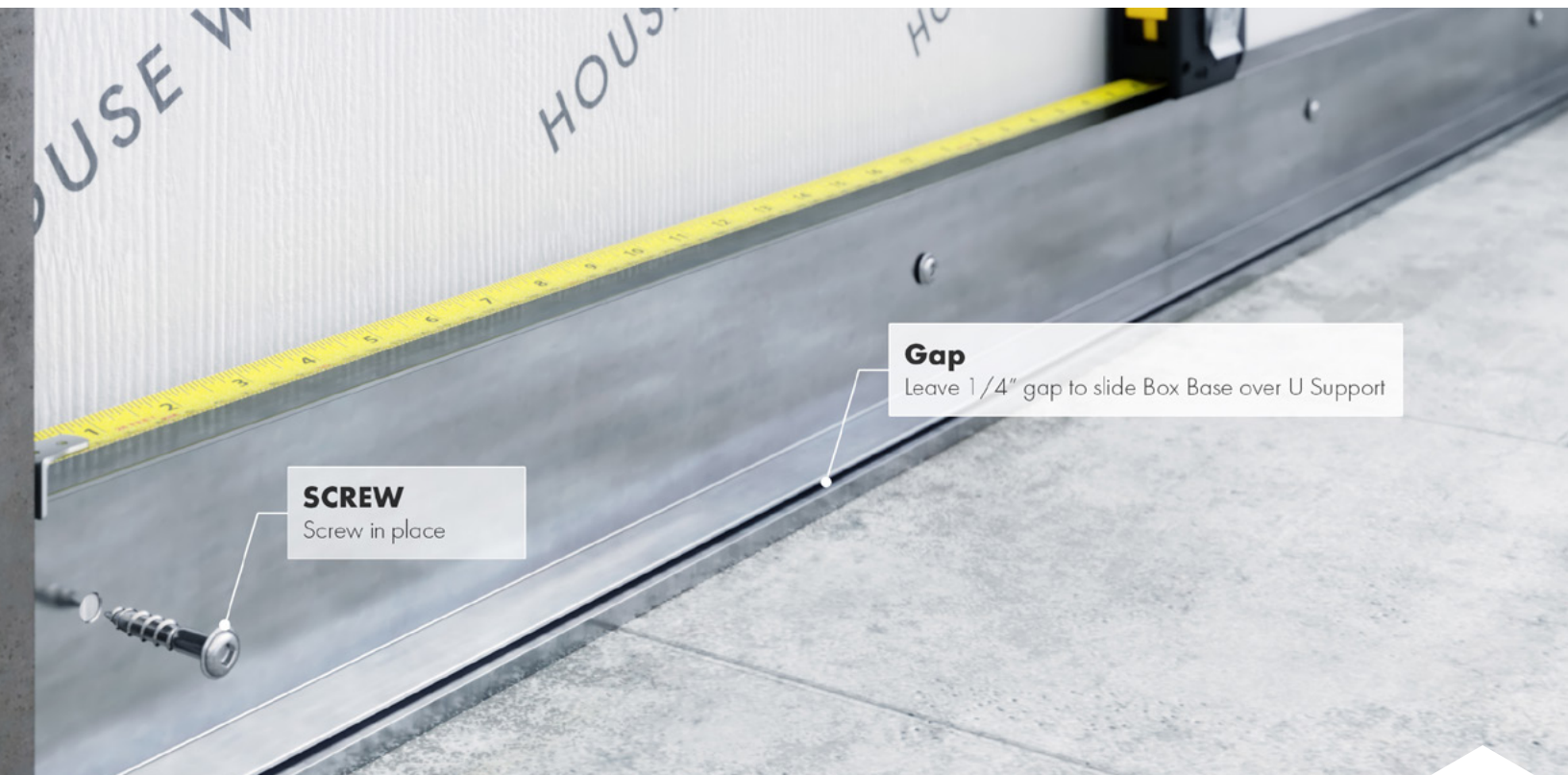
**FOLDED WALL**  
VERTICAL INSTALLATION





- The Box Base and U-Support are key components when installing Folded Wall vertically. The Folded Wall needs a solid foundation to ensure there is no distortion or sliding of the panel. Screw holes should be pre-drilled in the U-support and aligned with substrate studs.

01

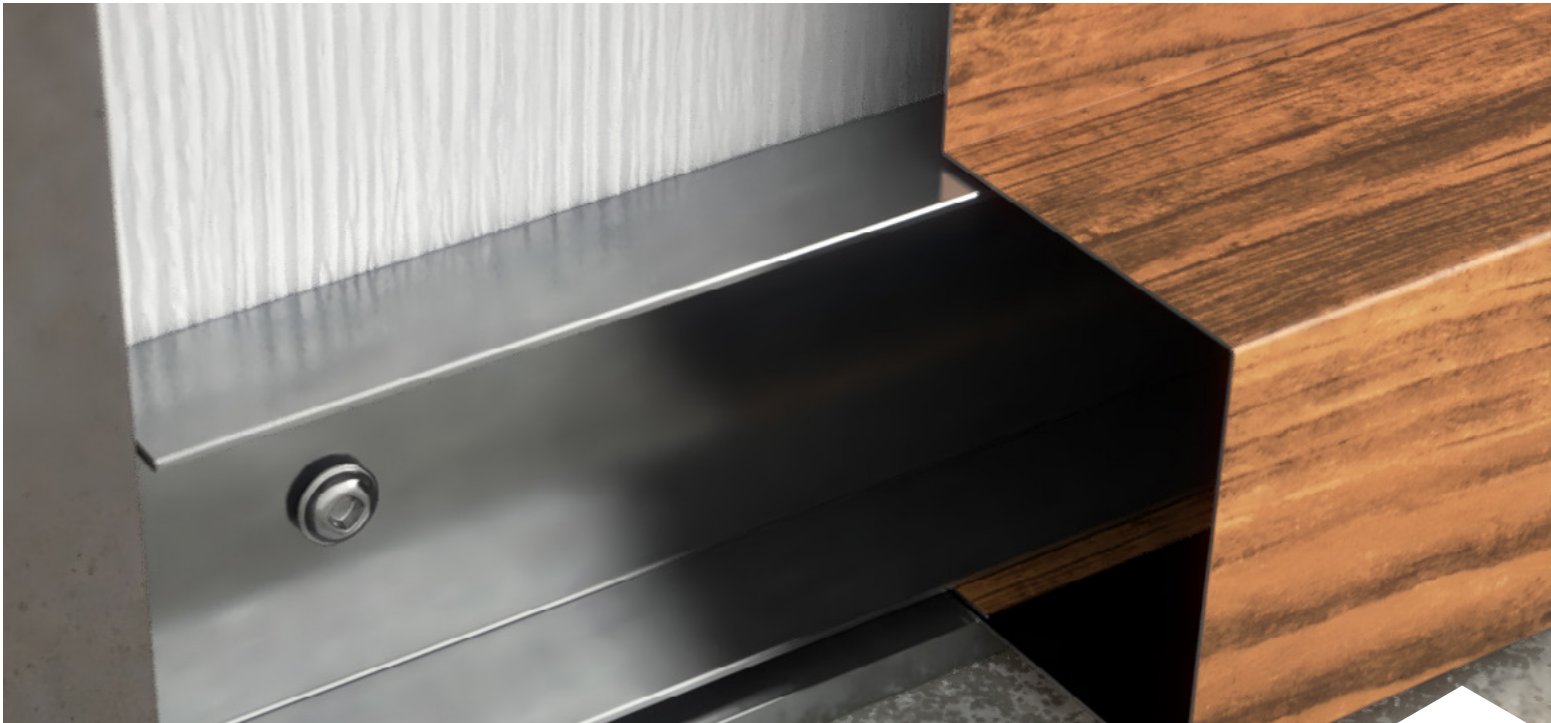


- Before installing the U-Support, pre-drill your screw holes (no farther than 24" apart). Attach the U-Support 1/4" from the ground or bottom level. Screw in place using appropriate fasteners for wood or steel.

02

\*Always follow local building codes for the installation of rain screens.





- The next step is to measure & cut your Box Base to fit over your U-Support. Ensure that the top of the bend in the Box Base is seated on the top of the U-Support.

**03**



- Pre-drill your holes and fasten the Box Base over the U-Support using the appropriate fasteners for wood or steel. Fasten the Box Base to the substrate studs.

**04**



- Here we have a J-Trim fastened over the Box Base. Once again, pre-drill your holes before fastening.

05



- Next, a Starter Strip is installed over the J-Trim and above the Box Base. Leave a 1/2" gap between the starter and inside edge of the J-Trim. This provides space for the next Folded Wall panel to be fastened in place.

06





- After the Starter Strip is fastened in place, slide the Folded Wall panel into the J-trim.

**07**



- Pull the Folded Wall back and ensure it latches onto the Starter Strip.

**08**





- Once the Folded Wall is securely latched onto the Starter Strip, fasten your Folded Wall in place with a Folded Wall clip mounted on the hem of the panel.

09

Using the fastened Folded Wall clip, install your next panel and ensure it is securely latched on the Folded Wall clip.



- Continue the process and complete the installation of your Folded Wall section over the Box Base.

10