

# Field Guide

Caulk-Free Version

Panels  
Starter Bars  
Spacers  
Clips  
Screws  
Joiner Bars  
Face Fasteners



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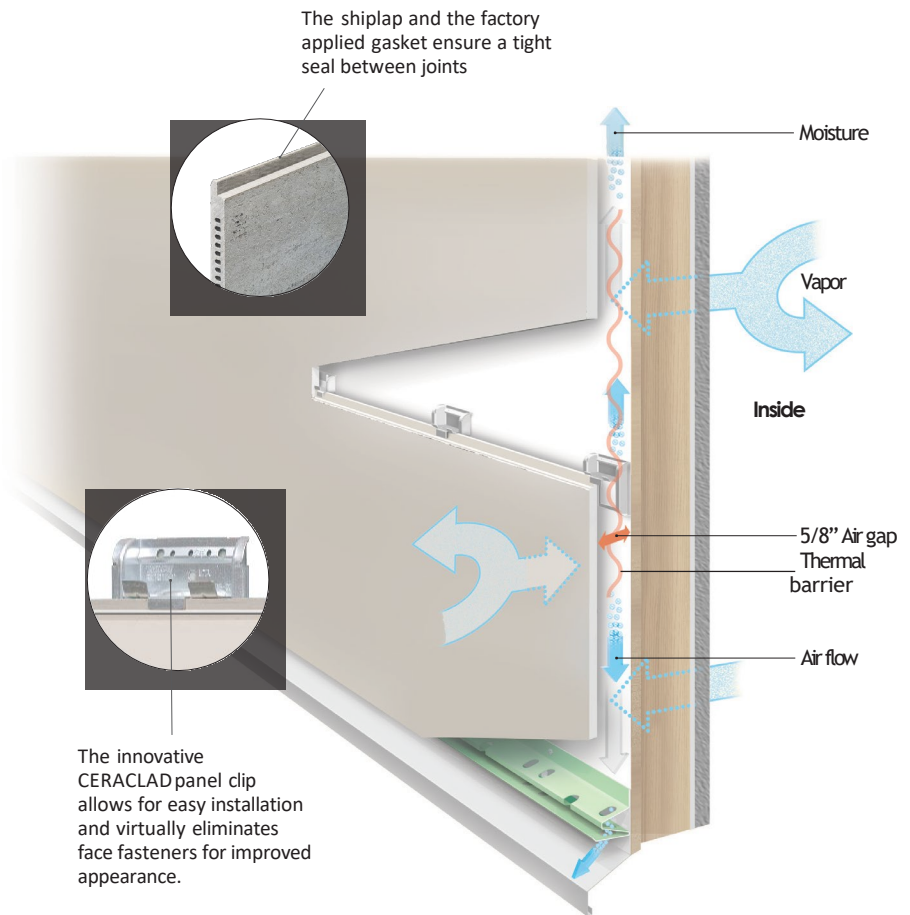
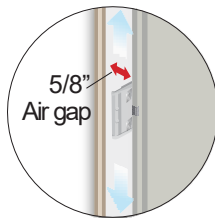
# CERACLAD Introduction

## Rainscreen Moisture Management

**CERACLAD's** Rainscreen Moisture Management System is an advanced wall assembly that incorporates proven rain-shielding technology. The system consists of pre-finished siding panels and innovative mounting clips and accessories that are manufactured and designed for durability and ease of installation.

Our exclusive technology combines a durable weather-resistant exterior with an internal ventilation layer that allows moisture to escape.

- Moisture management
- Air cavity
- Air flow
- Helps to prevent mold from growing



CERACLAD is a fiber cement rain screen system manufactured in Japan for over 30 years. For more information about our products, or for technical assistance, please contact us using the information below.

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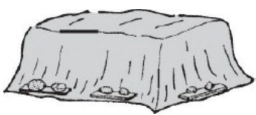
# Material Handling and Storage

Indoor storage (as shown) is recommended. Due to the difficulty of controlling conditions, outdoor storage should be on a short-term / temporary basis only, and only with additional precautions to limit panel exposure to the elements.

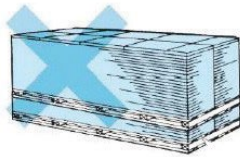
When storing panels at the jobsite for an extended period of time, store indoors with the following additional precautions: cover with a tarp and store flat in the manufacturer's original packaging in a secure, dry, temperature-stable environment away from the elements, and away from potential physical damage. Particular care is needed to avoid humidity and moisture when storing panels.



**Manufacturer cannot be responsible for panel failure or damage due to improper storage.**



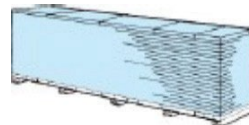
Always cover CERACLAD with plastic sheeting or a tarp, or store inside.



Do not stack a pallet with more panels on top of a pallet with fewer panels.



Protect more delicate shiplapped edges from being damaged during storage or while moving product.



Don't place panels directly on the ground. Stack panels on risers or pallets.



Carry the panel lengthwise tucked under your arm. Full panels should be handled by 2 people

## Handling the Material

Handle panels carefully to protect the finished face, corners, edges, and shiplapped edges.

Lift panels from the stack; do not drag panels across other panels or rough surfaces.

Carry full panels on edge with two people. Keep hands or gloves clean while handling panels.

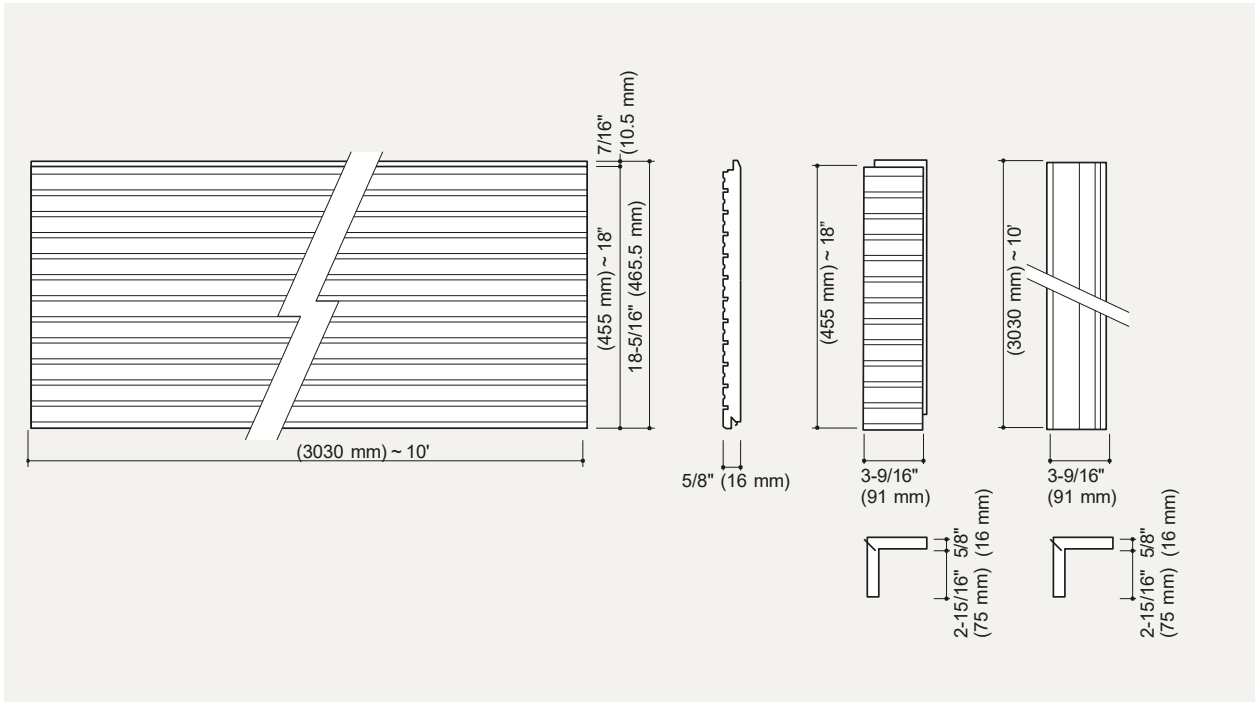
Do not stack wet, dirty, or cut panels face-to-face without a clean, nonabrasive separator, as this will result in permanent damage that would not occur if properly handled.

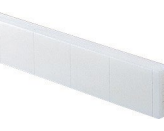
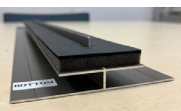
Avoid scuffing the finished face during cutting, stacking, or moving. Keep cut panels covered, clean, dry, and separated from abrasive surfaces.

Care should be taken not to allow the finished surface to be moved across any surface that may cause chips, scuffs or scratches in the finished panel surface.

# Panel and Accessories

CERACLAD offers a complete installation package including panels, accessories, and hardware. All products are individually packed and marked for your convenience.



| Installation Accessories                                                            |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Panel Clip                                                                          | Corner Clip                                                                         | Starter Bars                                                                        | Metal Trims/Flashings                                                               | Face Nail                                                                            |
|  |  |  |  |   |
| Face Screw                                                                          | Wood/Steel Screw                                                                    | Touch-up Paint                                                                      | Spacer Block                                                                        | Repair Putty                                                                         |
|  |  |  |  |  |
| Gasket Joiners                                                                      | L-Joiners                                                                           | Saw Blade                                                                           | Waterproof Sealer                                                                   | Cutting Guide                                                                        |
|  |  |  |  |  |

Please note CERACLAD panel actual dimensions: Imperial: 17.91" wide x 119.29" long; Metric: 455mm wide x 3030mm long. When measuring and laying out the panels, it is crucial to ensure accuracy and avoid compounding small measurement variations.

# Tools and PPE

- Dust proof safety glasses
- Respirator or dust mask
- A panel saw or circular saw with a diamond-tipped fiber cement blade
- Always use a vacuum-equipped saw or local exhaust system (e.g., HEPA-rated dust extractor) to minimize airborne particles
- Proper cutting setup
- Dry soft cloth, natural bristle brush, or clean, dry compressed air to clean dust off the panels
- Drill, drill bits and countersinking tool
- Level, square, measuring tape, hammer, soft faced mallet and chalk line



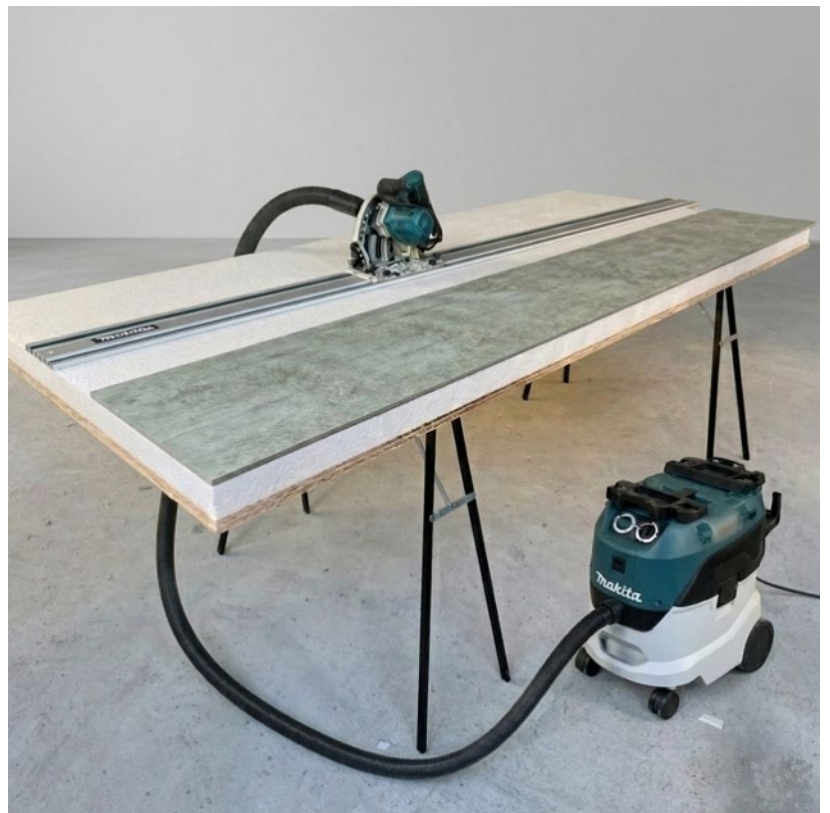
## Wear Safety Equipment

Work safely and use the proper precautions.



## Proper Cutting Setup

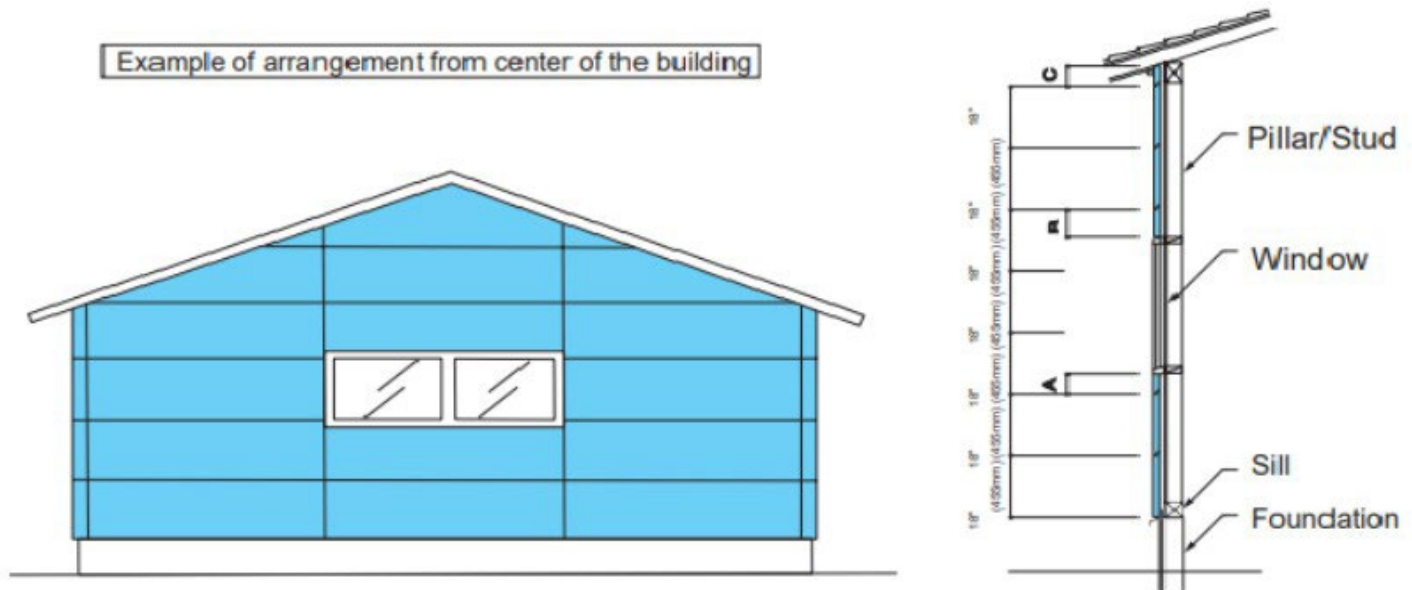
Support the panel full length. Cut with the finished face protected and use effective dust collection



# Panel Arrangement

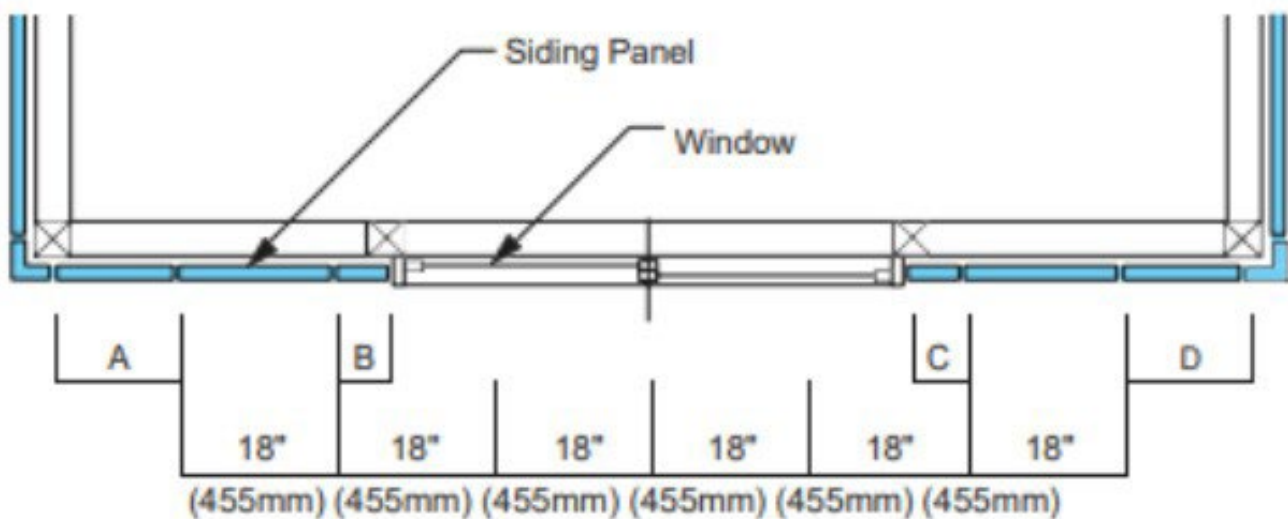
## Horizontal Application

Pay attention to window locations and eave soffit height to provide more than 2 1/2" for the panels above and below window frames (A, B, figure below right) and panels below the soffit (C). Avoid installing panels that are less than 2 1/2" wide in these locations.



## Vertical Application

Arrange the panels from the center of the building wall. Make sure the panels along both window frame sides (B and C) and the sides of the outside corners (A and D) are at least 2-1/2" wide.



# Cutting

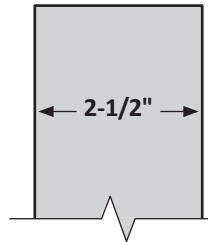
- A. Cut panels from the backside.
- B. Cut panel width must be greater than 2 1/2".
- C. Fiber cement panels contain silica. When drilling, cutting, or abrading panels during installation or handling, observe the following precautions:
  - a) work outdoors in a well-ventilated area
  - b) wear a dust mask or use a respirator
  - c) warn other workers and building occupants in the area
  - d) advise building occupants to close windows in the immediate area of work.
- D. Use a panel saw or circular saw with a vacuum attachment to cut CERACLAD panels. Use of a wet saw to cut product is not permitted.
- E. When possible, cut panels with the finished side facing down on a rigid foam base, or similar, to protect the finished surface. If panels must be cut face-up, use a clean, padded surface and ensure the cutting table is free of debris
- F. Cleaning During and After Cutting is needed. Immediately after cutting, use one or more of the following cleaning methods prior to installation:
  - a) Soft microfiber cloth to wipe the finished surface.
  - b) Clean, dry compressed air to blow off dust and loose particles.
  - c) Soft-bristle brush (non-abrasive) to gently dislodge dust from textured surfaces or edges
  - d) Remove drilling and cutting dust quickly and thoroughly. Avoid abrasive brushes, pads, solvents, or harsh cleaners, which may damage the coating.



CERACLAD Blade (B49321)

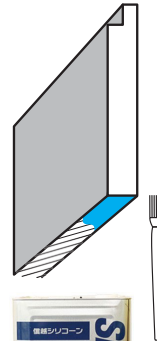
## FIBER CEMENT BLADE

Use a panel saw, or a circular saw with a diamond-tipped fiber cement blade. Change out blades frequently to prevent chipping of panel finish.



## MINIMUM PANEL CUT SIZE

2-1/2" is the minimum panel size. Smaller panels may crack and break.



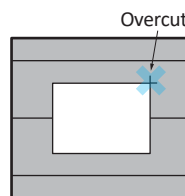
## SEALING CUT PANEL EDGES

Where panel has been cut and will not be sealed with caulk (ex: panel ends covered by metal trim or cut edges at soffits), apply CERACLAD cut edge sealer.\*



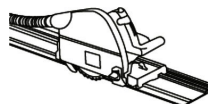
Edge sealer(LTKMB3103C)

\*L-Joint installation requires both factory and cut edges to be sealed (not shiplap edges).



## DO NOT OVER CUT

Over cutting may cause panel cracking or water intrusion.



Circular hand saw with guide rail and dust extraction.

For precise cutting, a panel saw or circular saw guide is required.

Ceraclad  
Cutting Guide  
(B49311)

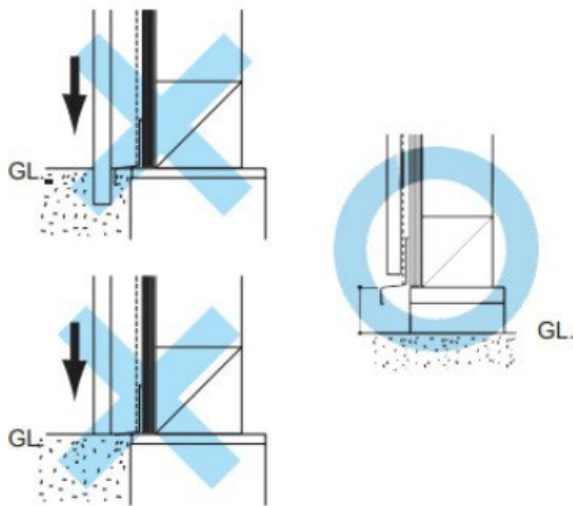
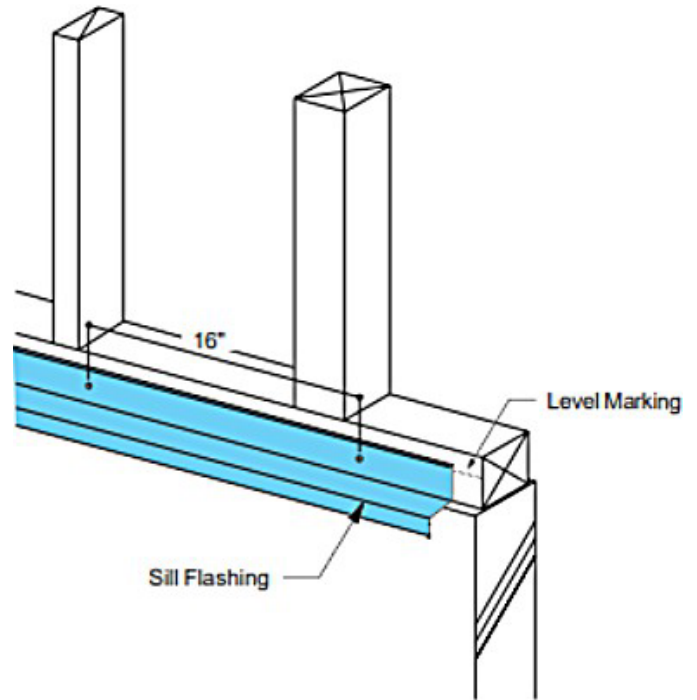


# Installation Instructions

When installing CERACLAD panels, plan panel placement carefully. Panels may be installed horizontally or vertically to achieve the desired appearance while minimizing material waste. Before installation, inspect the wall assembly to confirm proper attachment locations and required backing.

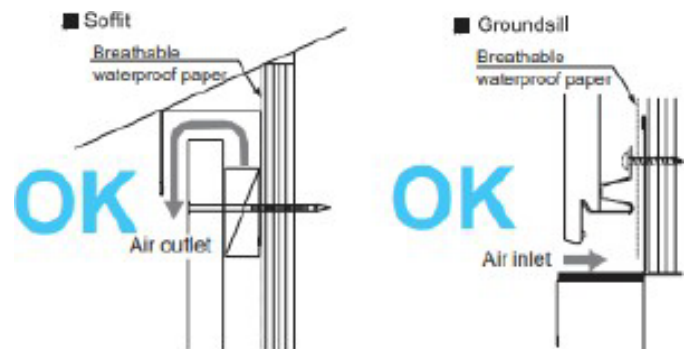
## Sill Flashing

Securely fasten sill flashing at each stud location and make sure it is level. Follow the WRB manufacturer's instructions for moisture management and proper flashing integration.



**Do not bury CERACLAD panel ends in the ground or allow them to come into contact with the ground surface.** Otherwise, panels in contact with the ground may absorb water and deteriorate.

Allow for a clearance of 6" (150mm) or more between the plywood/OSB sheathing and the ground surface.



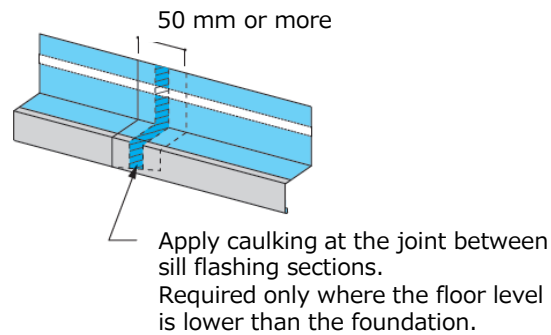
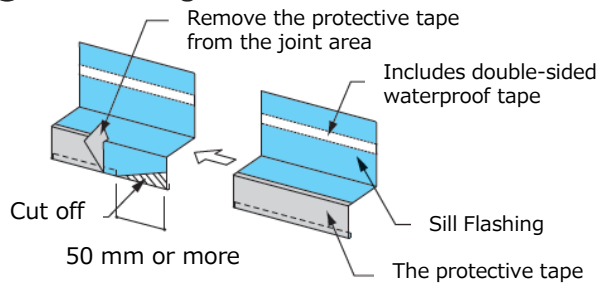
**Avoid blocking inlets, air cavities, and outlets when installing CERACLAD.**

**A code-approved WRB must be installed behind the CERACLAD Rainscreen system.** Otherwise, condensation may build up in the wall cavity, causing mold and rot problems.

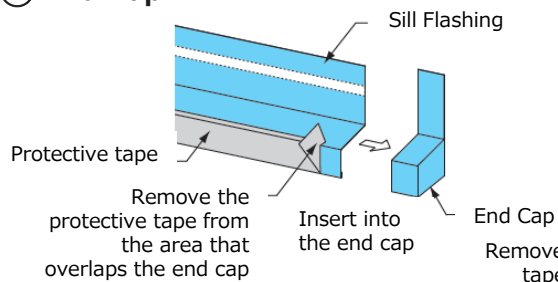
# Installation Instructions

## Sill Flashing Installation : Option with CERACLAD Accessories)

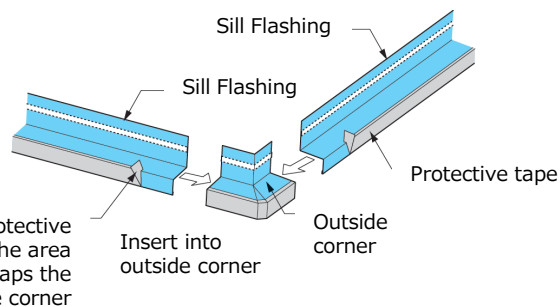
### ① Sill flashing



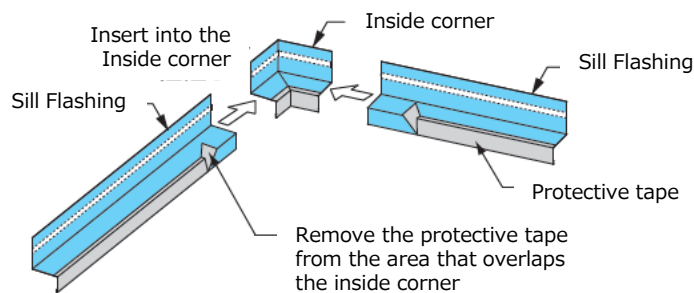
### ② End Cap



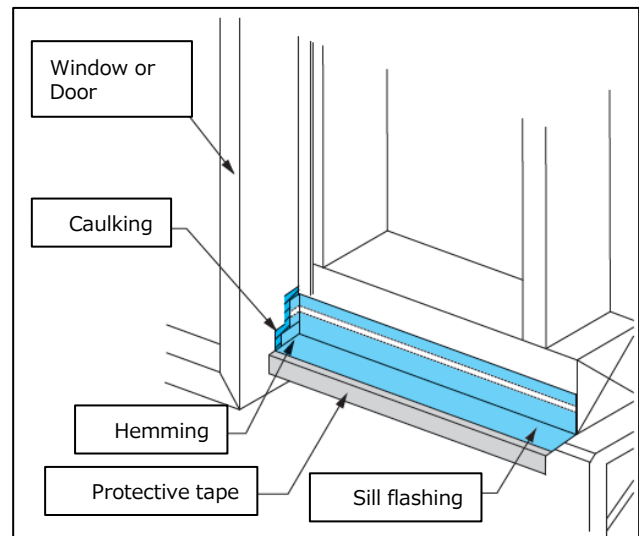
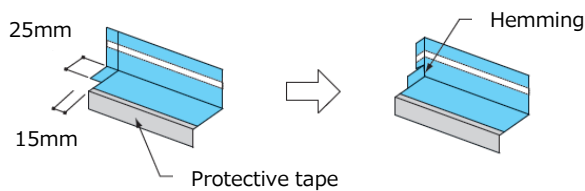
### ③ Outside corner



### ④ Inside corner



### ⑤ Window and door jamb



| SKU     | Sill flashing<br>B2322W1 | Outside Corner<br>B2322W1D | Inside Corner<br>B2322W1C | End Cap<br>B2322W1E |
|---------|--------------------------|----------------------------|---------------------------|---------------------|
| Product |                          |                            |                           |                     |

# Installation Instructions – Panel Installation

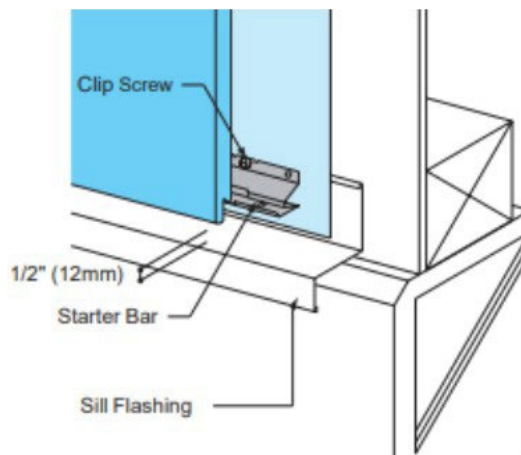
## Horizontal Panel Application

### Starter Bar

Install the horizontal Starter Bar at the base of the wall. Make sure it is level and fasten it to the studs at 16" O.C. maximum. The Starter Bar lip engages the panel bottom shiplap to support the first panel course.



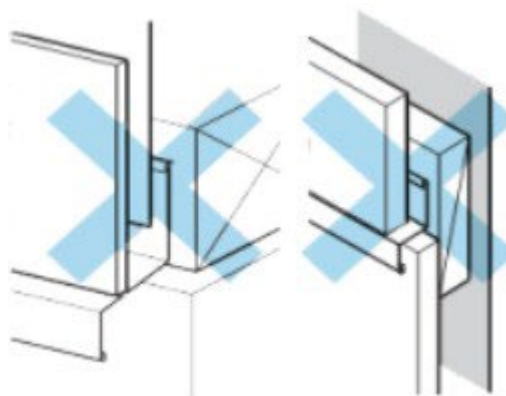
Starter bar (B101152)



### Air Gaps at Flashing Details

An air gap must be present between the panels and any sill flashing, through wall flashing or cap flashings.

A lack of a gap between the flashing and the panels can block air circulation, restrict drainage and moisture management, and lead to water retention and deterioration of the panels.



\*Select fasteners suitable for the installation method. Follow the manufacturer's recommendations for the compatible fastener type.

### CLIP SCREWS

| Name                                         | Photo | SKU#    | Material            | Length         | Diameter          |
|----------------------------------------------|-------|---------|---------------------|----------------|-------------------|
| Clip Screw for Steel Furring                 |       | B885116 | Stainless steel 410 | 16mm (5/8")    | 4.6mm (3/16")     |
| Clip Screw for Steel Studs Through Sheathing |       | B885130 | Stainless steel 410 | 30mm (1-3/16") | 4.6mm (3/16")     |
| Clip Screw for Wood                          |       | B881135 | Stainless steel 410 | 35mm (1-3/8")  | 4.1mm (#8, 5/32") |
| Clip Screw for Wood Long                     |       | B88553  | Stainless steel 410 | 55mm (2-3/16") | 4.6mm (3/16")     |

# Installation Instructions – Panel Installation

## Horizontal Panel Application

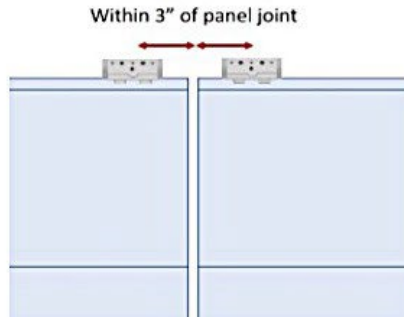
### Clip Installation

Set the bottom shiplap edge on the starter bar and put the clips on panel top shiplap and screw to the sheathing or stud. Clips have several holes for screws. Fasten clips with one screw when fastening to a wood stud or use two screws when fastening to wood sheathing or steel stud/furring.

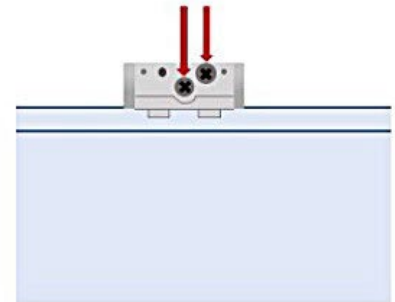
Make sure Panel clips are seated firmly on the top shiplap and panel is level and plumb. Shim behind clips as necessary\*.



Panel clips shall be spaced 16" OC or less along the panel edge.

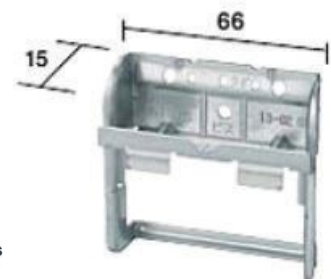
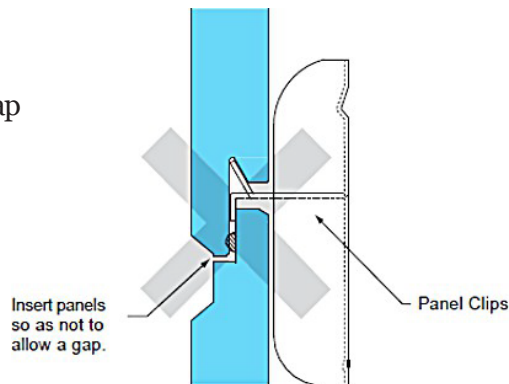


Clips shall be placed within 3" of each panel end. Additional blocking at joints may be required to accomplish this.



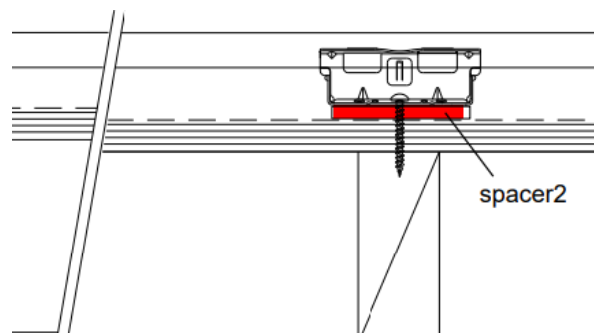
When fastening to wood sheathing or steel use two screws.

Seat Panel Clips tightly against the shiplap to prevent gaps between panels.



Panel clip (B10115)

Panel Clips can be shimmed out as necessary to create an even, flat, and plumb surface\*.



\* Refer to Ceraclad Troubleshooting guide for more information.

# Installation Instructions – Panel Installation

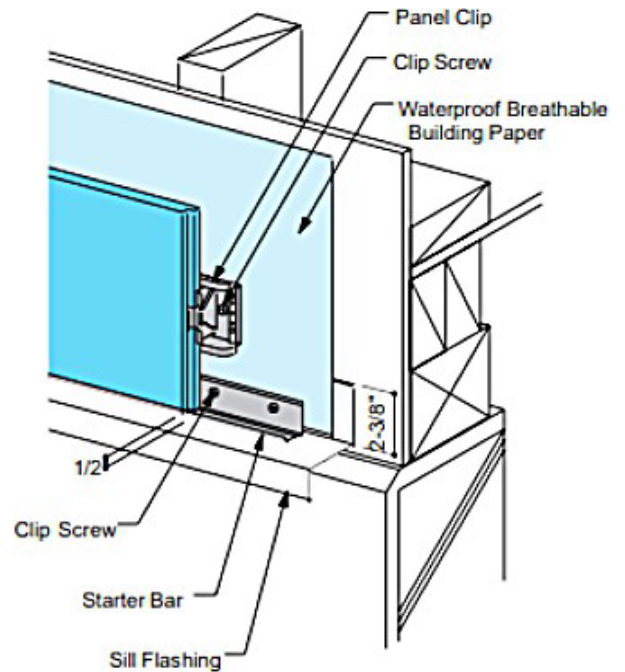
## Vertical Panel Application

### Starter Bar

Vertically oriented CERACLAD panels are supported by the Starter Bar (**B10157HG**), which acts like a ledger and carries most of the panel weight. The Panel Clips hold the panel in position, while the starter bar carries the vertical load. Therefore, it must be securely attached to a structural element, such as a stud or furring connected back to the framing.



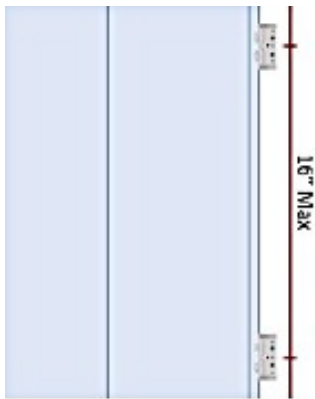
Starter bar (B10157HG)



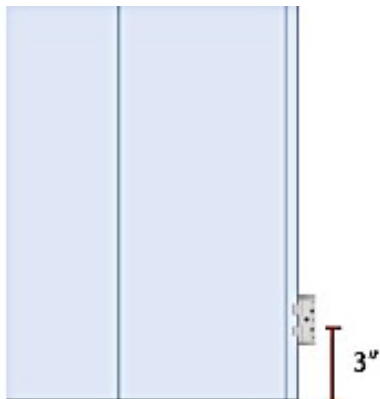
## Vertical Panel Application

### Clip Installation

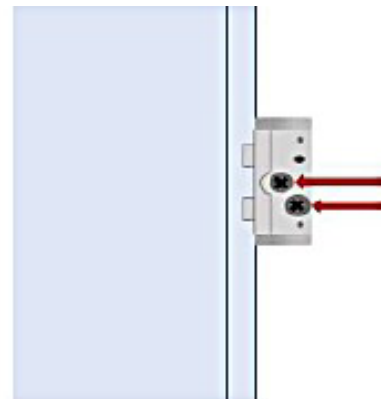
Vertical Panel application goes with the same clip as horizontal just 90 degrees rotated.



Panel clips shall be spaced 16" OC or less along the panel edge.



Clips shall be placed within 3" of the Starter Bar and 3" of the top of the panel.



When fastening to wood sheathing or steel use two screws.

Install vertical panels in one direction along the wall, with the shi lap with rubber gasket as the leading edge.

# Installation Instructions – Face Fastening

Use face fasteners and spacer blocks to secure panels in areas where shiplap edges have been removed. See pages 15 and 16 for details on which areas require face fastening.

## Face Fastening with Screws

To minimize the visibility of face screw fasteners, follow these best practices:

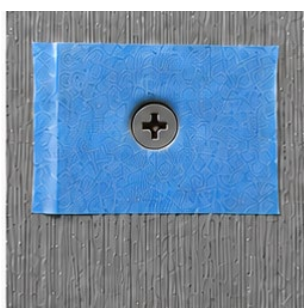
1. Pre-drill the panel 1-1/4" from the cut edge using a drill bit 1 mm smaller than the screw diameter. Countersink the hole sufficiently so the screw head can be seated slightly below the panel surface.
2. Painter's tape may be applied either before pre-drilling and countersinking or after the face screw is installed; in both cases, it must be in place before repair putty and touch-up. If applied before, keep the tape intact and firmly adhered around the fastener location during drilling and countersinking. If applied after screw installation, carefully cut out the tape around the countersunk hole using a sharp knife without damaging the panel finish.
3. Fill the countersunk hole with CERACLAD Repair Putty using the spatula provided in the kit. Finish the putty flush with the panel surface and allow it to harden sufficiently.
4. Apply the primer from the touch up kit over putty and let it dry. Apply CERACLAD Touch-Up Paint\*\* to the patched and primed area using the kit artist's brush. Remove the painter's tape after the touch-up paint has been applied.



1.A Pre-Drilling and Countersinking



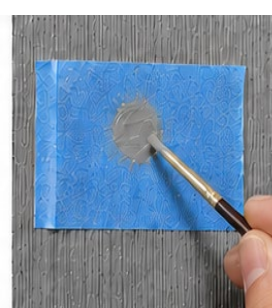
1.B Face Screw



2. Tape Application:



3. Repair Putty



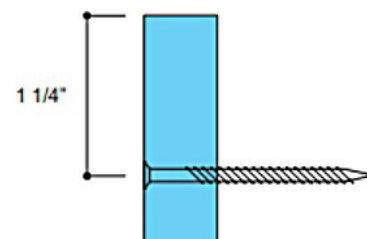
4 Touch-Up Paint\*\*

## Face Fastening with Ring Shank Nail (for Wood Studs)

For face nailing into wood studs, pre-drill the panel and drive the nails without countersinking. Apply Touch-Up Paint to the nail head.\*\*

### FACE FASTENERS

| Name                                         | Photo | SKU#      | Material                                 | Length            | Diameter*                               |
|----------------------------------------------|-------|-----------|------------------------------------------|-------------------|-----------------------------------------|
| Face Nail for Wood Long (Ringshank)          |       | B8765R400 | Stainless steel 304 with painted coating | 65mm (2-9/16")    | 3.0mm (1/8")                            |
| Face Screw for Steel Studs Through Sheathing |       | B885245   | Stainless steel 410                      | 45mm (1-49/64")   | 4.6mm (3/16")                           |
| Face Screw for Steel Studs Through Sheathing |       | B885260   | Stainless steel 410                      | 60mm (2-1/4")     | 4.6mm (3/16")                           |
| Spacer Block (15mm) Self-Adhered             |       | RY82515   | Polypropylene and polyethylene           | 3'-3/8" per strip | Depth 15mm<br>Width 40mm<br>Height 45mm |

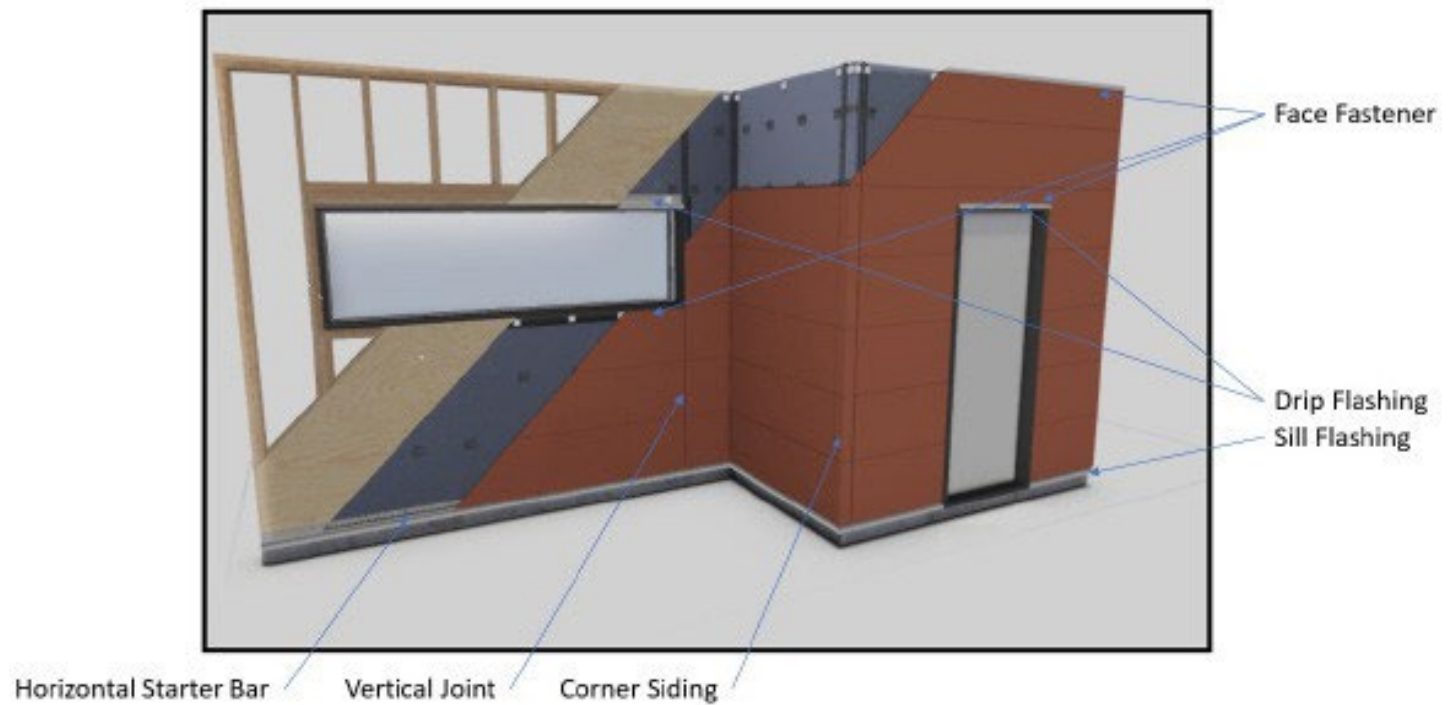


\*Pre-drill CERACLAD panel with drill bit 1mm less than the diameter of face fastener. This helps to prevent panel cracking and chipping.

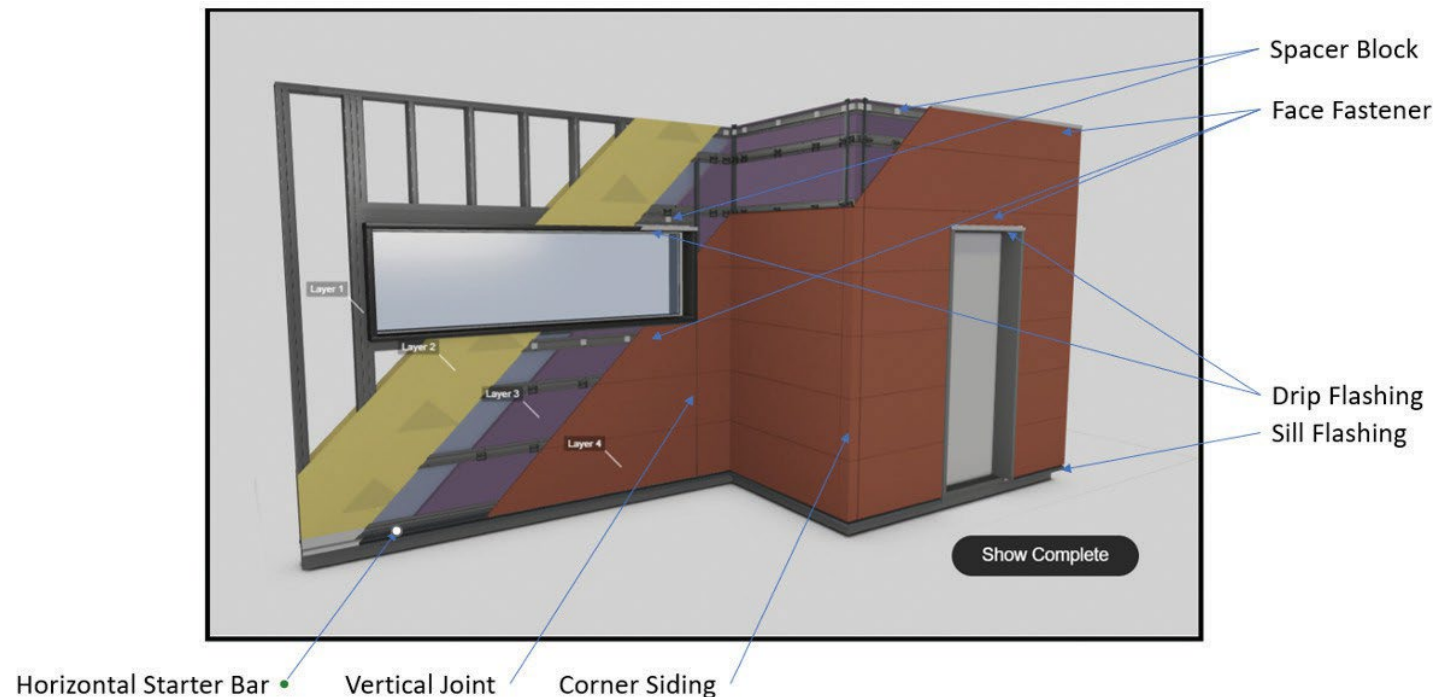
\*\* Refer to CERACLAD touch up and paint on page 33 for more instructions.

# Installation Instructions – Overall Wall View Horizontal

## Wood Framing with Structural Sheathing

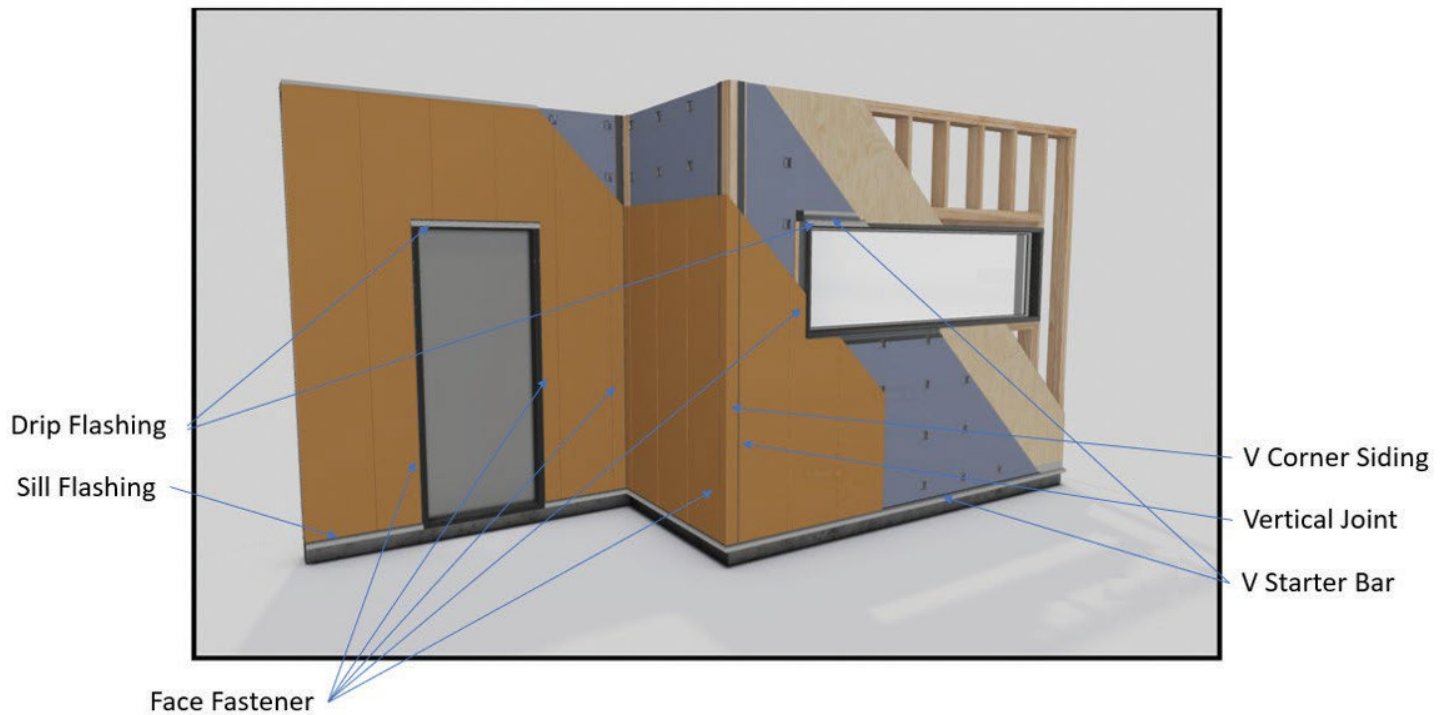


## Steel Framing, Non-structural sheathing, Continuous Exterior Insulation, Steel Furring fastened to Stud through Insulation

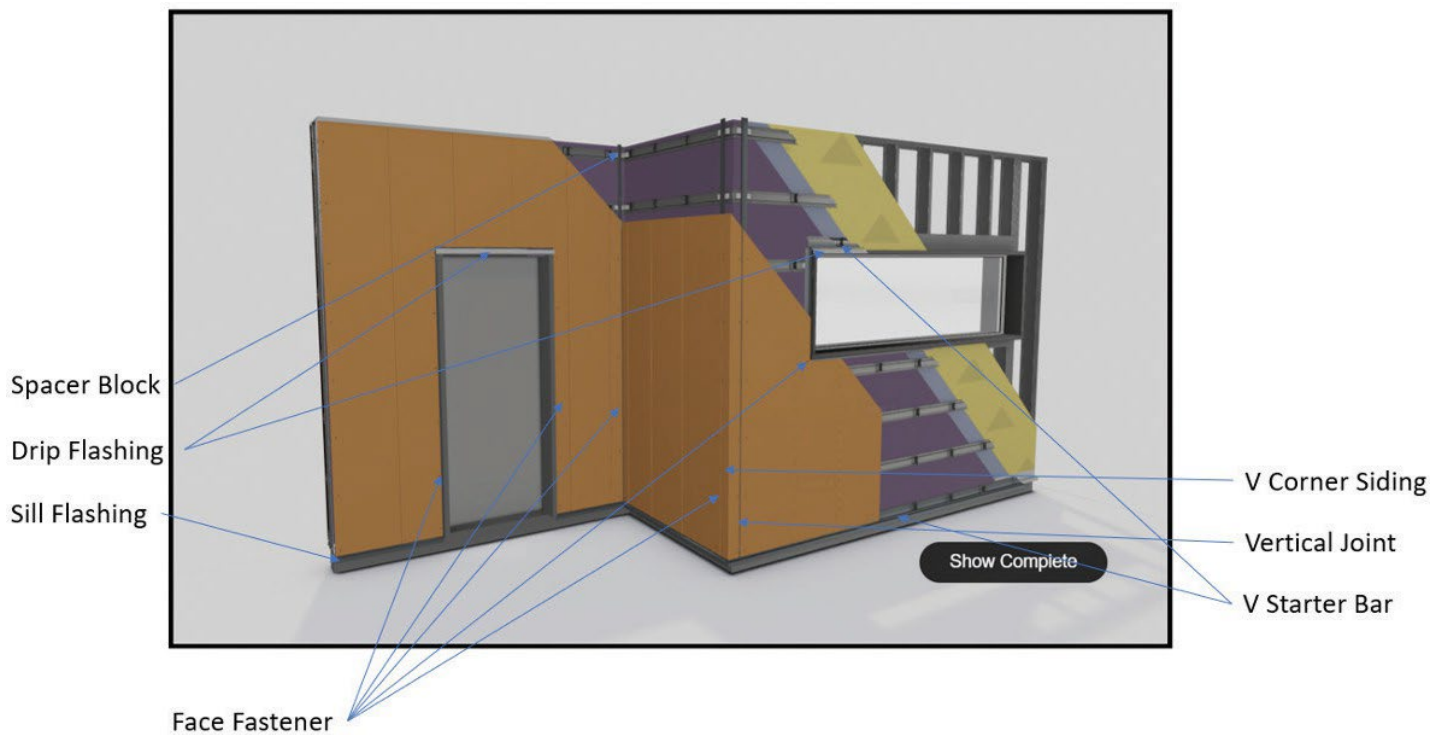


# Installation Instructions – Overall Wall View Vertical

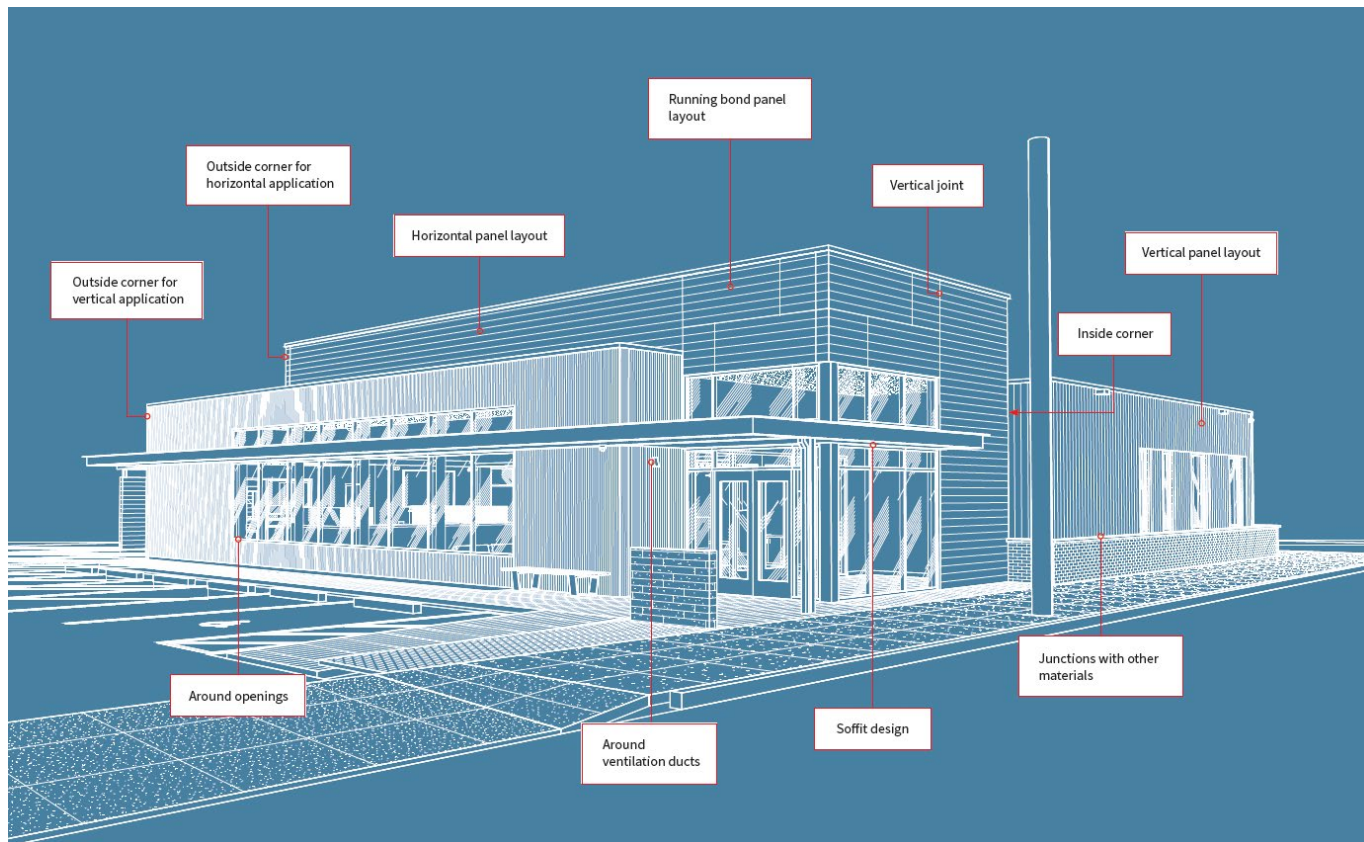
## Wood Framing with Structural Sheathing



## Steel Framing, Non-structural sheathing, Continuous Exterior Insulation, Steel Furring fastened to Stud through Insulation



# Installation Details



## Joint & Flashing Options

The following joint and flashing options are available for the **CERACLAD Caulk-Free** rainscreen system:

- 1) Caulk Free L-Joint
- 2) G-Joint (Gasket Joiner for Horizontal Running Bond application only )
- 3) Extruded Aluminum Trims
- 4) Metal flashings: Base Flashing and Overhang Flashing
- 5) Third-Party Extruded Aluminum or Brake Metal

# Installation Details – CERACLAD L-Joint Application\*

CERACLAD L-Joint application eliminates the need for caulking.

L-joint installation requires precise cutting and to achieve clean, square, joints between panels. Since the joint is free of sealant or surface trim, the panel edges are highly visible.

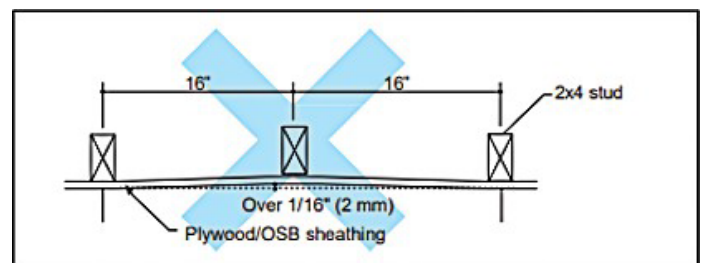
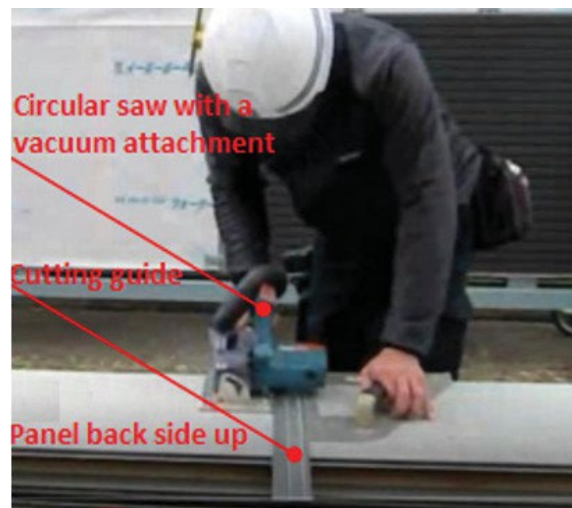
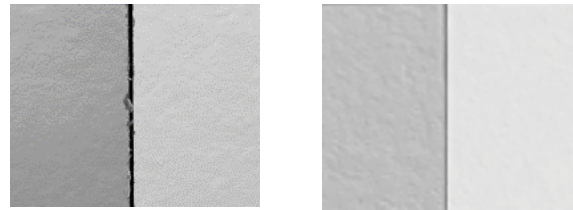
A sharp, high-quality fiber cement blade is essential for clean cuts.

- Do not cut panels freehand.
- A panel saw or circular saw guide is required for cutting panels.
- Apply KMEW-specified waterproof sealer to all square panel edges used with the L-Joiner, whether factory-cut or field-cut. Do not apply sealer to shiplap edges.

Install the L-Joiner butted to the panel and fasten it to the substrate at 24" O.C. maximum. Install Panel Clips so they do not overlap the L-Joiner flange. The maximum acceptable unevenness of the structural members, including pillars and beams, and the sheathing boards is 1/16" (2 mm) every 32". Shim as necessary\*\*.

Continue installing panels butted to the L-Joint, fastening Panel Clips as required. Where the shiplap edge has been removed, use face fasteners to secure the panel. Refer to Page 14 for Face Fastening instructions.

Repair surface chipping with touch-up paint.



| Name (SKU)                          | Photo | Material                                 | Places of Application                                                             |
|-------------------------------------|-------|------------------------------------------|-----------------------------------------------------------------------------------|
| L-shaped aluminum joiner (B3616KF4) |       | Aluminum                                 | Applied on the inside and outside corners, jambs and other vertical abutments.    |
| Spacer 15 (RY82S15)                 |       | Polypropylene                            | Used as backing for face fastener locations to eliminate deflection of the panel. |
| Water proof sealer (LTKMB3103C)     |       | Silane water repellent                   | It is applied on the panel edges                                                  |
| Cutting Guide (B49311)              |       | Main Body: Aluminum                      | It is used to assist in cutting panel                                             |
| CERACLAD Blade (B49321)             |       | Diamond tip<br>7 1/4" Fiber Cement Blade | Used with Circular saw to cut panel                                               |



\*Refer to CERACLAD L-Joint Installation Guidelines for more information.

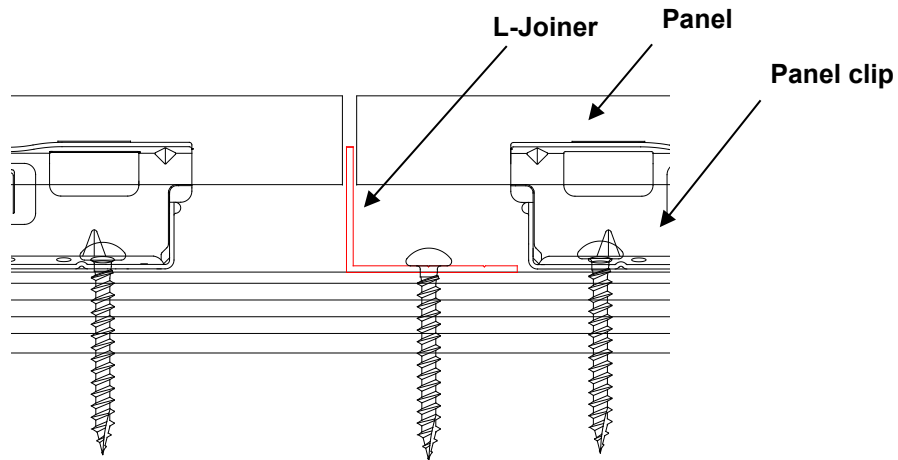
\*\* Refer to Ceraclad Troubleshooting guide for more information.

# Installation Details – CERACLAD L-Joint Application\*

## L – Joiner Alignment at vertical Joints\*\*

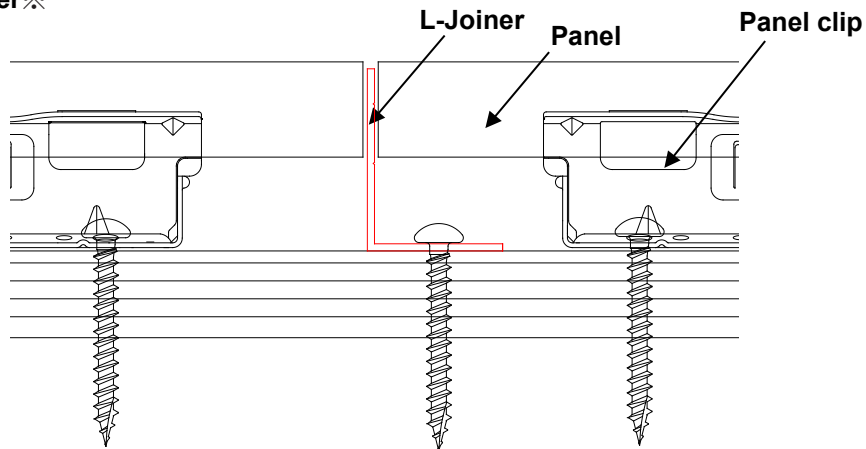
- The L-Joiner can be oriented in two ways

### ① Short side L-Joiner



① depending on the viewing angle, the joint may be noticeable.

### ② Long side L-Joiner※



※For darker panel colors, it is recommended to install per option ②. This helps minimize the visual contrast between the panel surface and the lighter-colored fiber cement core at the edges.



① Short side L-Joiner



① Short side L-Joiner



② Long side L-Joiner Color match

\*Refer to CERACLAD L-Joint Installation Guidelines for more information.

\*\*Please Contact Ceraclad Team for More Information on available metal trim options at [technical@ceraclad.com](mailto:technical@ceraclad.com)

# Installation Details

- Use L-joiners\* for vertical joints to prevent siding panel from moving horizontally. Make sure to secure 5mm gap between each 10' L-Joiner courses.

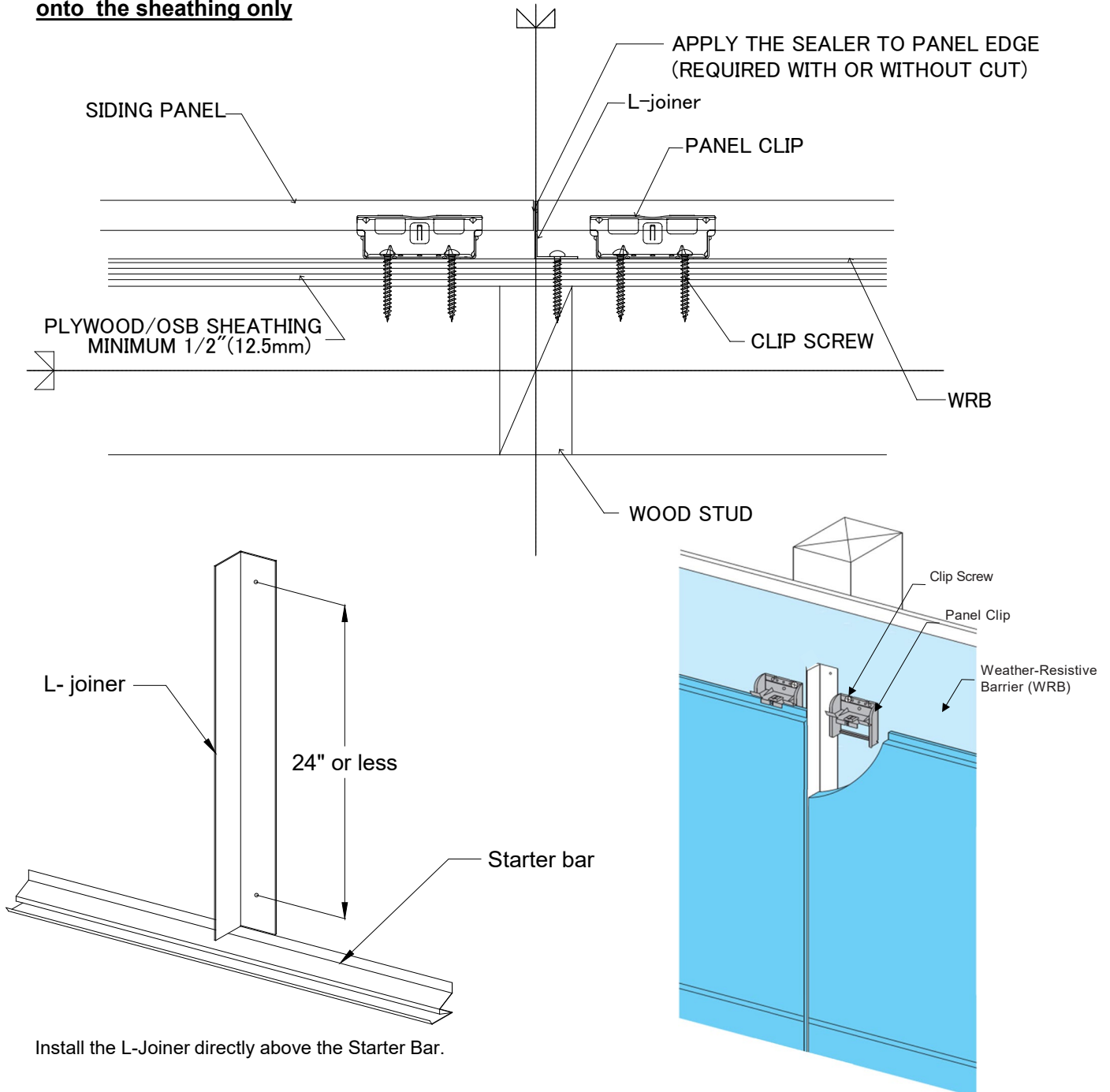
▲ **Apply KMEW-specified waterproof sealer to panel edges where L-Joiners are used, whether factory-cut or field-cut.**

▲ **Fasten the L-Joiner to the substrate at 24" O.C. maximum.**

- Install panel clips on the panels adjacent to the joiner as shown on the figure below.

▲ **Panel clips must not overlap the L-Joiner flange.**

- Fasten Panel Clips securely at 16" on center with **1 screw per clip onto a stud** or with **2 screws onto the sheathing only**

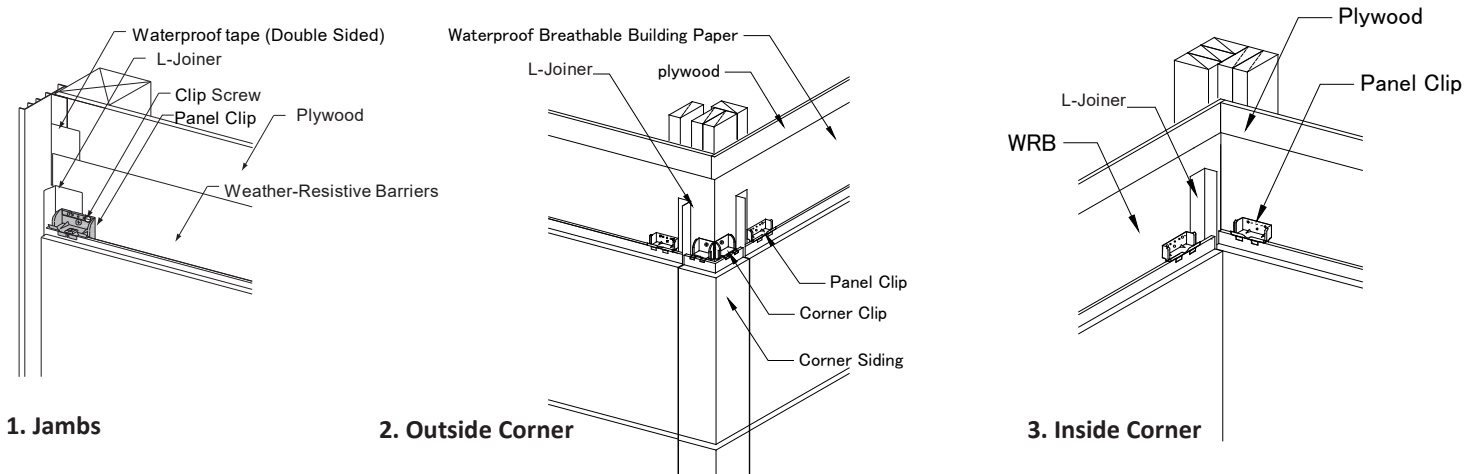


\* For horizontal panel orientation field joints, CERACLAD H-Mold (one-piece or two-piece) or two-piece U-Mold may be used in lieu of the L-Joiner. Refer to Page 26 for available metal trim options.

# Installation Details

## CERACLAD L-Joiner Horizontal Panel Application

Use L-Joiners\* at vertical joints between horizontally oriented panels and at panel abutments to openings, inside corners, and CERACLAD Preformed Outside Corners.



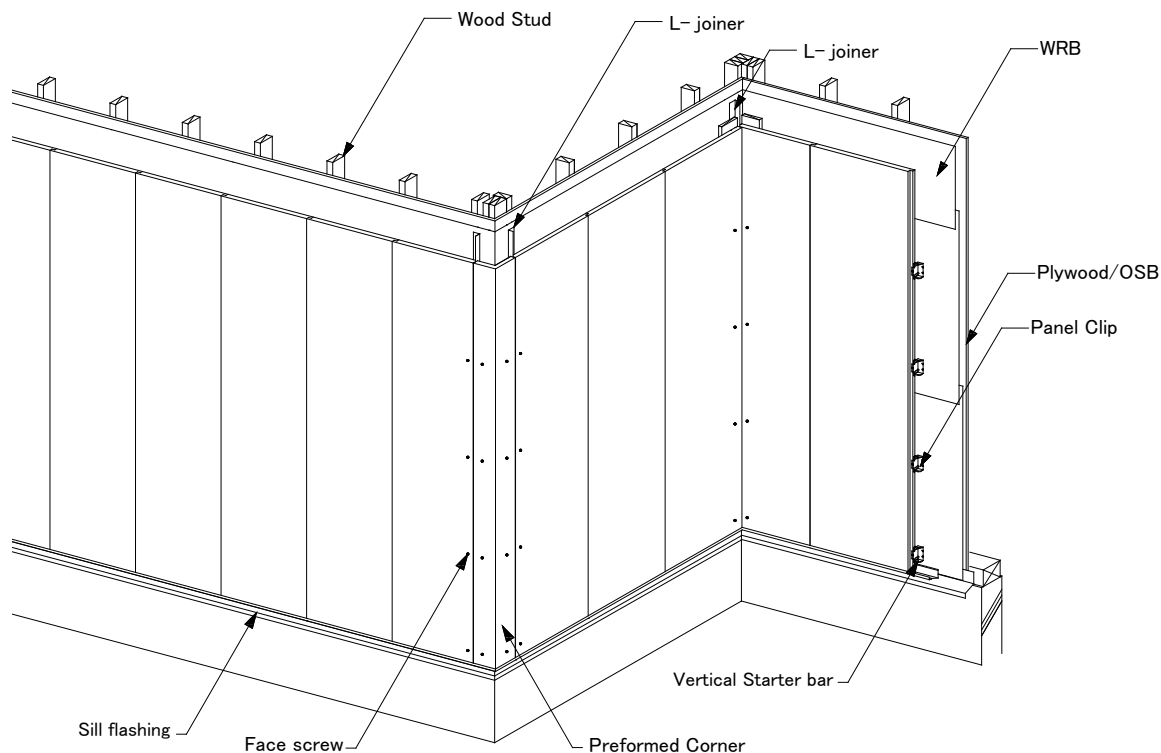
\*Additional Joints Options:

1. At openings, CERACLAD one-piece or two-piece J-Trim may be used in lieu of the L-Joiner.
2. At outside corners, CERACLAD Arrow Outside Corner Trim (one-piece or two-piece) or X-Corner Trim may be used.
3. At inside corners, CERACLAD J-Trim or Inside Corner Trim may be used.

Refer to Page 26 for CERACLAD metal trim options.

## CERACLAD L-Joiner Vertical Panel Application\*\*

For vertically oriented panels, use L-Joiners at inside corners and at panel abutments to CERACLAD Preformed Outside Corners. Install 15 mm CERACLAD Spacer Blocks or pressure-treated wood backing behind face-fastened panel edges in accordance with the face-fastening requirements on Page 14.



\*Refer to the CERACLAD L-Joint Installation Manual for additional installation requirements.

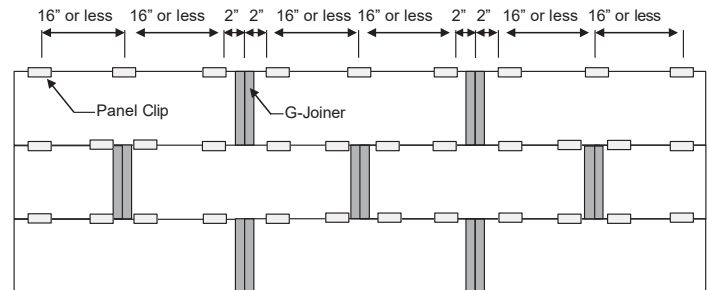
\*\*At window and door jambs with vertically oriented panels, use a J-Trim or approved flashing in lieu of an L-Joiner.

# Installation Details – G-Joint for Running Bond Application\*

CERACLAD Running Bond application is specifically designed for horizontal panel orientation. Gasket Joiners are used at vertical joints between panels. Because these joints do not use caulking or a surface trim over the panel edges, precise cutting is critical to achieve clean, square joints. Follow the panel cutting requirements outlined in the L-Joint section on Page 18 to ensure accurate cuts and proper alignment.

Arrange Gasket Joiners (G-Joiners) and Panel Clips in advance based on the general spacing shown in the figure. Project layouts may require adjustments to accommodate different panel lengths.

\*Refer to CERACLAD Running Bond Technical Guide for more information.



- Apply the specified waterproof sealer to the panel edges where G-Joiners are used.
- Panel clips should be installed at intervals of 16" (400mm) on center or less. Panel clips are fastened to wood stud with one screw, to plywood sheathing only with two screws, and to steel stud or steel sub-frame with two screws.
- Panel clip ends on either side of the G-jointer should be installed 2" (50mm) away from center line of vertical joint location.
- Locate the vertical joints in advance so that G-Joiners and panel clips do not interfere with each other.

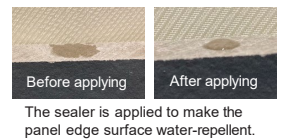
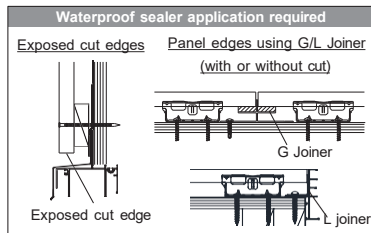
## ■ Treatment of panel edges

- Apply KMEW specified waterproof sealer to the following panel edges

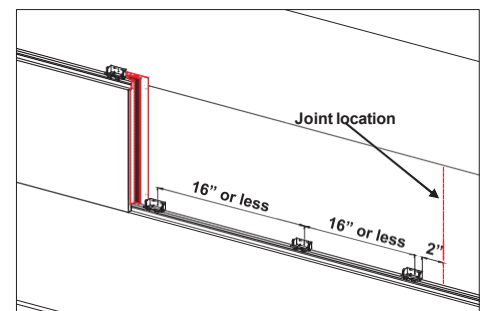
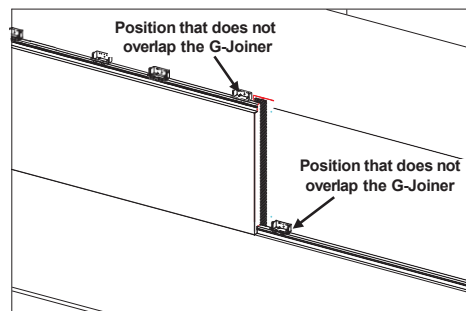
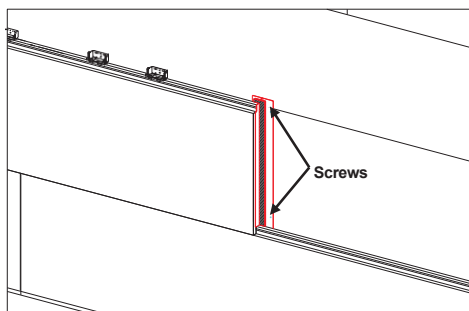
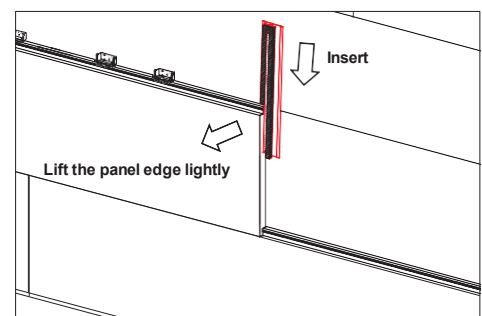
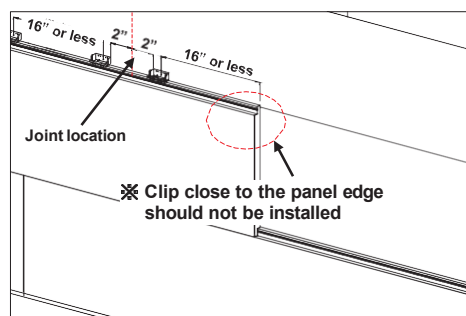
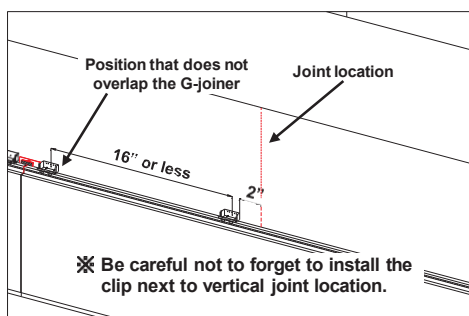


- Soak the brush with the sealer and brush back and forth from edge to edge of the application surface to ensure that the wet color is firmly applied to the panel edge surface.

△ Ensure that the sealer does not extend beyond the panel edge.



Do not apply waterproof sealer to panel edges where caulking is to be applied. It may cause the caulking to peel off.



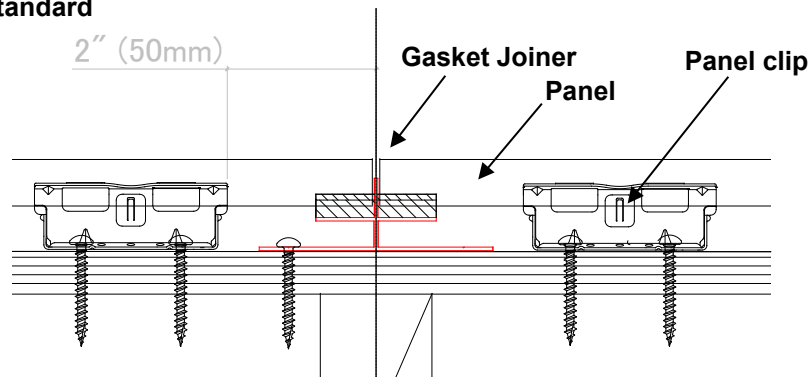
\*Contact CERACLAD at [technical@ceraclad.com](mailto:technical@ceraclad.com) for information on available Gasket Joiner options, including profiles, lengths, and colors.

# Installation Details – G-Joint for Running Bond Application\*

## G – Joiner Alignment at vertical Joints\*\*

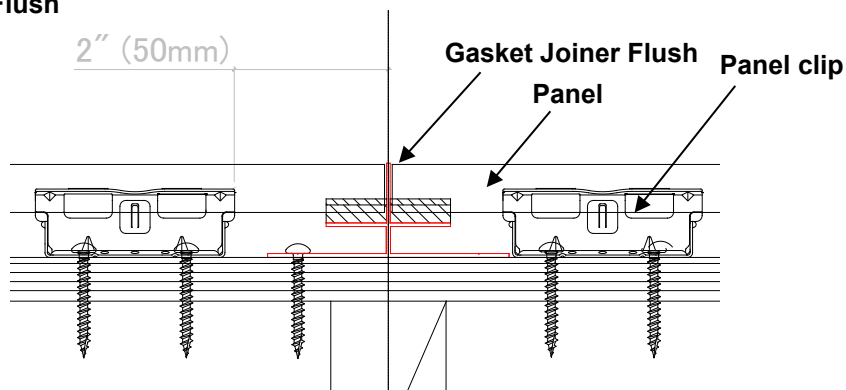
- Gasket Joiner has two design options

### ① Gasket Joiner Standard



- ① With the standard Gasket Joiner, the joint may be more noticeable depending on the viewing angle.

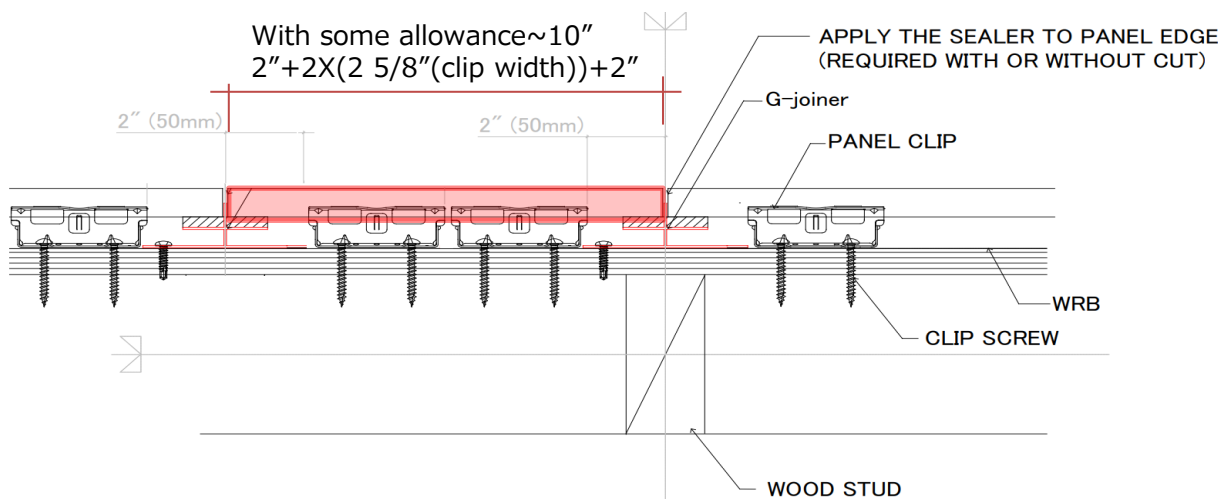
### ② Gasket Joiner Flush



※For darker panel colors, Gasket Joiner Flush is recommended to help minimize the visual contrast between the panel surface and the lighter-colored fiber cement core at the panel edges. Refer to the current Technical Data Sheet for available color options.

## ■ Minimum panel length with the running bond application

Please ensure that the panel width allow for the installation of two panel clips.

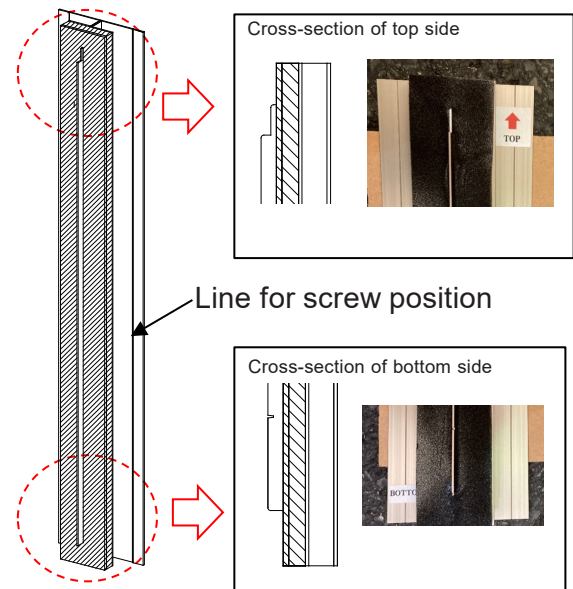


\*Refer to CERACLAD L-Joint Installation Guidelines for more information.

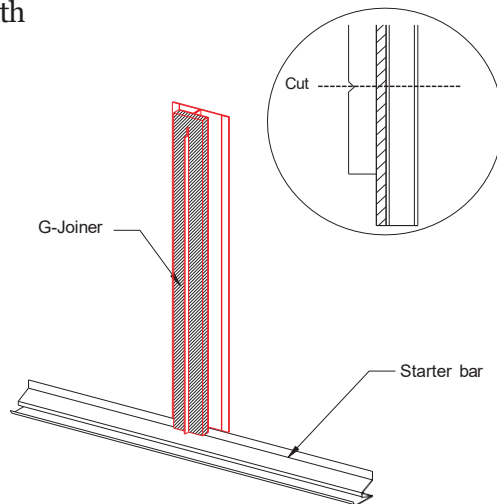
\*\*Please Contact Ceraclad Team for More Information on available metal trim options at [technical@ceraclad.com](mailto:technical@ceraclad.com)

# Installation Details – G-Joint for Running Bond Application\*

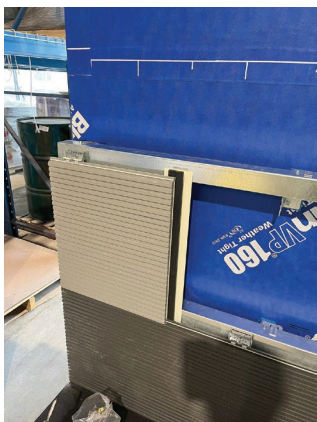
- The G-Joiner has a designated top and bottom orientation. Fasten the top and bottom of the flange to the substrate with screws.
- At the first panel course, cut the G-Joiner where it intersects the Starter Bar before installation.
- The bottom of the G-Joiner has a notch indicating the cut location so the joiner does not overlap the Starter Bar. The cut location is 2-1/8" (54 mm) from the bottom of the G-Joiner.
- After cutting, install the G-Joiner so its bottom edge meets the top edge of the Starter Bar. Do not overlap the Starter Bar.



- Cutting G-Joiner:  
Best Practice - Use a chop saw with a non-ferrous metal blade when cutting G-Joiners, such as at the starter bar, top of the wall, and openings above and below.



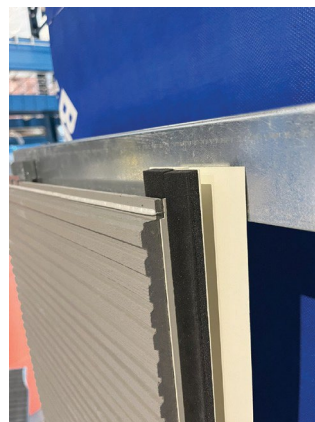
\*Refer to CERACLAD Running Bond Technical Guide for more information.



The G-joiners have a top side and bottom side, do not install the joiner upside down.



Subsequent courses do not require the joiner to be cut.



The top side of G-Joiner has a notch that follows the shape of the shiplap of the panel.



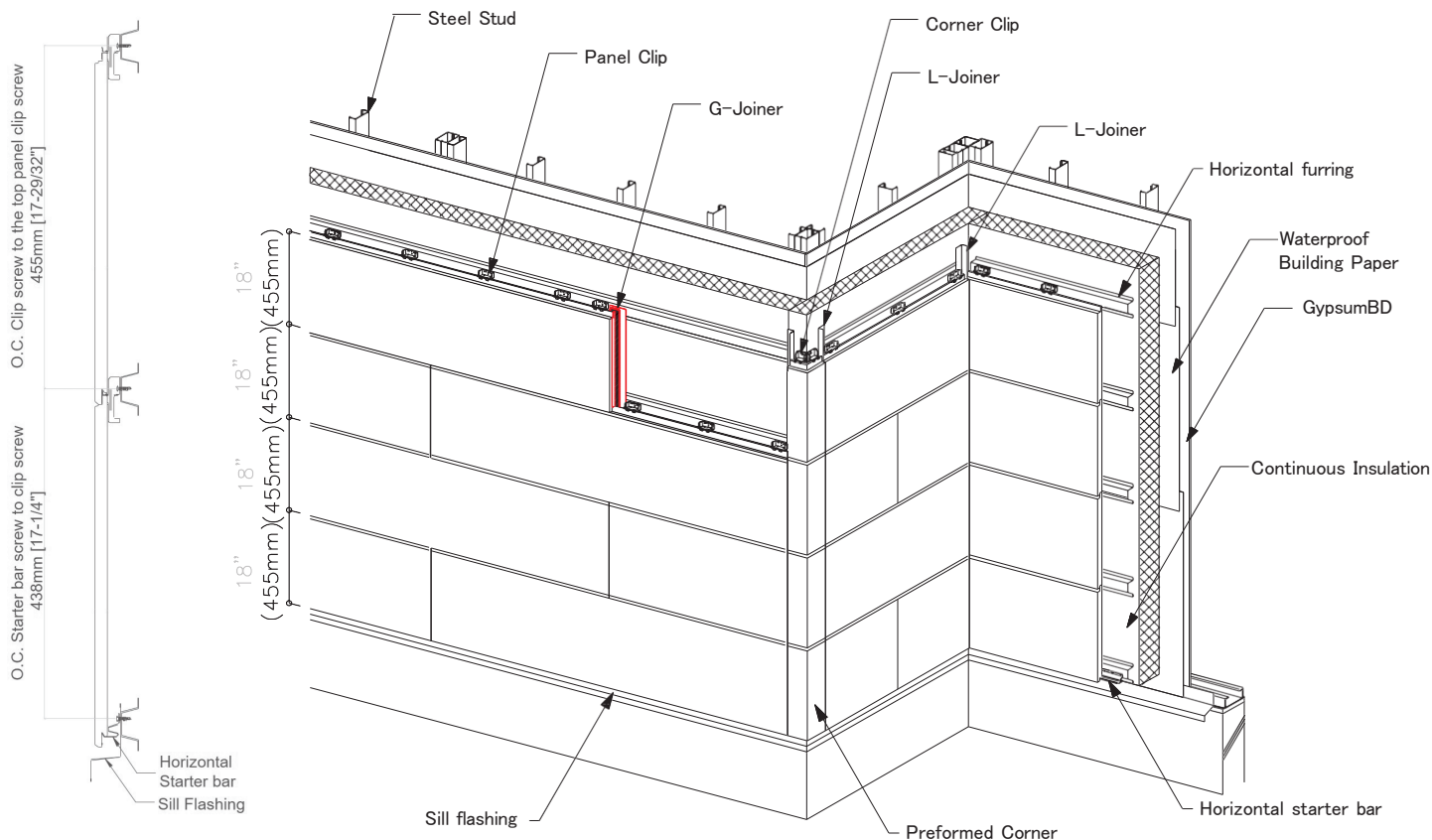
Install the panel clips in a position where they do not overlap the G-Joint (2" away from the vertical joint location).

# Installation Details – G-Joint for Running Bond Application\*

For CERACLAD Running Bond installations over continuous insulation systems,\*\* coordinate the horizontal furring layout to maintain the required fastener center-to-center dimensions for the Starter Bar course and subsequent panel courses.

The center-to-center dimension from the Starter Bar fastener to the Panel Clip fastener at the base of the wall, or at a panel-break course using a Starter Bar, is 17-1/4" (438 mm).

The center-to-center dimension from Panel Clip fastener to Panel Clip fastener for subsequent courses is 17-29/32" (455 mm).



## Common Components

| Name (SKU)                                       | photo | Material                                           | Places of application                                                                                                                                     |
|--------------------------------------------------|-------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Starter bar for horizontal application (B101152) |       | Hot-dip zinc-aluminum-magnesium alloy coated steel | Serve as a support for the first panels in the case of horizontal installation. Applied on the sill of the building before the installation of the panel. |
| Panel clip (B10115)                              |       | Hot-dip zinc-aluminum-magnesium alloy coated steel | Used for fixing the panel to substructure                                                                                                                 |
| Corner Clip (B101153)                            |       | Hot-dip zinc-aluminum-magnesium alloy coated steel | Used for fixing the preformed corners                                                                                                                     |
| Gasket Joiner *<br>Color Match Option Available  |       | Aluminum + EPDM Repellent polyurethane foam gasket | Used to form vertical panel joints of Running Bond (panel to panel)                                                                                       |
| L-shaped aluminum joiner (B3616KF4)              |       | Aluminum                                           | It is applied on the inside and outside corners, jams and other vertical abutments.                                                                       |

| Name (SKU)                            | photo | Material               | Places of application                                                             |
|---------------------------------------|-------|------------------------|-----------------------------------------------------------------------------------|
| Spacer 15 (RY82S15)                   |       | Polypropylene          | Used as backing for face fastener locations to eliminate deflection of the panel. |
| Water proof sealer (LTKMB3103C)       |       | Silane water repellent | It is applied on the panel edges                                                  |
| Repair putty (B4901)                  |       | Acrylic emulsion       | It is used for scratches, chips and holes from face screws.                       |
| Repair paint (Different for each SKU) |       | —                      | It is used on spots where putty is applied and scratches.                         |

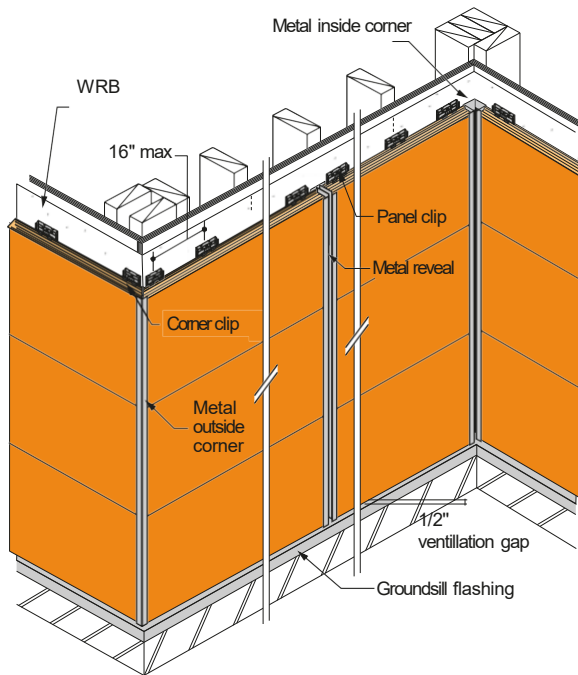
\*Refer to CERACLAD Running Bond Technical Guide for more information.

\*\*For more detailed information and guidelines on installing CERACLAD panels over Continuous Insulation, please refer to the CERACLAD Continuous Insulation Technical Bulletins.

# Installation Details – CERACLAD Metal Trims/Flashings

## Ceraclad Metal Trims

Ceraclad Metal trims can be used for corners, abutment to openings, and transitions, as well as vertical field joints.



**METAL TRIM APPLICATION**



**H Mold 1 - 1/4"**



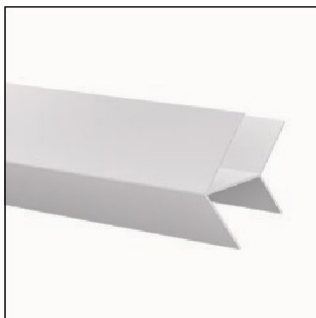
**H Mold 2 Piece 1 - 1/4"**



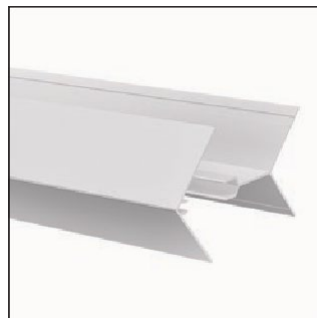
**J Trim 1 - 1/4"**



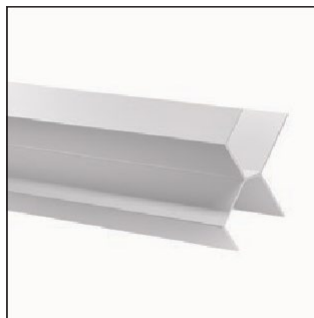
**J Trim 2 Piece 1 - 1/4"**



**Arrow Outer Corner - 1 - 1/4"**



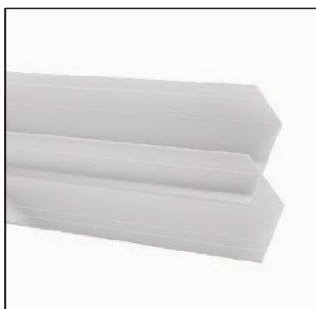
**Arrow Outer Corner 2 Piece  
1 - 1/4"**



**X Corner 1 - 1/4"**

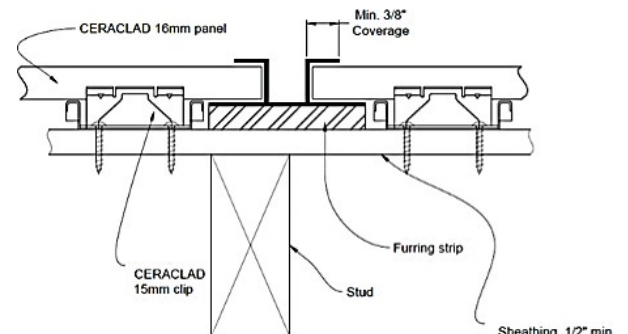


**U Mold 2 Piece 1 - 1/4"**



**Inside Corner 1 - 1/4"**

When using third-party metal trims, the trim face must provide a minimum 3/8" coverage over the panel face at each panel end. Select trim channels sized for the CERACLAD panel thickness and install them in accordance with the trim manufacturer's instructions.



# Installation Details

## Through Wall Flashings

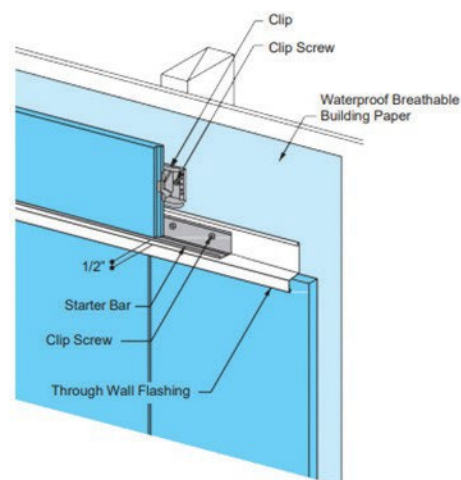
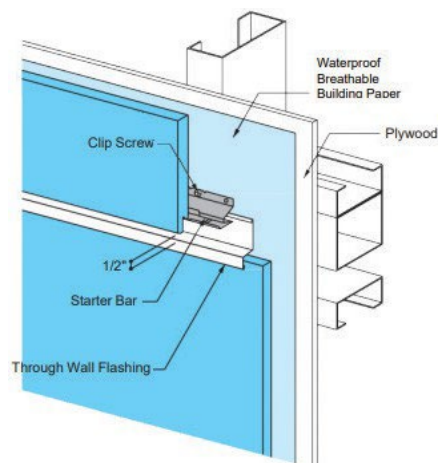
Horizontally installed CERACLAD panels shall be interrupted with a through-wall flashing and Starter Bar at maximum vertical intervals of 50 ft, or at shorter intervals where required by the applicable building code or authority having jurisdiction.

For horizontal application, secure the top cut edge of the panel below the flashing by face fastening it to the framing 1-1/4" below the panel cut edge. Install CERACLAD face fasteners at 16" O.C. maximum with a 15 mm Spacer Block behind each fastener location. Refer to Page 14 for Face Fastening instructions. Securely attach the flashing at each stud or approved attachment location using appropriate fasteners.

For vertical application, securely attach the flashing at each stud or approved attachment location using appropriate fasteners. Install a Panel Clip within 3" of the panel edge at the through-wall flashing. Face fastening is not required at the bottom panel edge below the flashing for vertical panel application.

Vertically installed panels shall not be stacked; provide a through-wall flashing and Starter Bar at each vertical panel course.

Follow the weather-resistive barrier (WRB) manufacturer's instructions for moisture management and proper flashing integration.



## Ceraclad Through Wall Flashing Trims

CERACLAD offers aluminum through-wall flashing in one-piece and two-piece configurations for use at required panel breaks.

### One-Piece Through-Wall Flashing – 1-1/2"

A one-piece extruded aluminum flashing for standard installations where the flashing can be installed and integrated with the wall assembly before installation of the panel course above.

### Two-Piece Through-Wall Flashing – 1-1/2"

A two-piece extruded aluminum flashing option that can assist with installation sequencing where a separate two-piece configuration is preferred.

Available Finishes:

Clear Anodized

Primed Finish – Field Paint

Powder Paint Finish – Custom Color

Wet Paint – Black

Wet Paint – White

Refer to the CERACLAD Trims Technical Data Sheet for SKU and finish availability.



Through Wall Flash 2 Piece  
1 - 1/2"



Through Wall Flash 1 - 1/2"

# Installation Details – CERACLAD Preformed Corners Installation

Install CERACLAD Preformed Corners before proceeding with panel installation. Do not wrap Preformed Corners around window heads or sills.

## 18" Corners for Horizontal Panel

### Application:

CERACLAD 18" Preformed Corners have shiplapped edges for easy installation and integrate with the Starter Bar and Corner Clips.

Securely attach the Starter Bar to the framing or approved sheathing on both sides of the wall where the Preformed Corner will be installed.

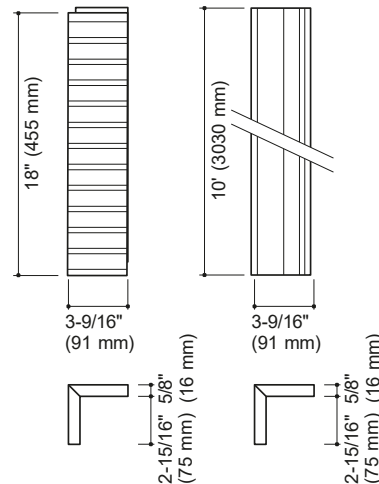
Place the CERACLAD 18" Preformed Corner on the Starter Bar, making sure the bottom shiplapped edges engage the Starter Bar lip.

Fasten the top shiplap of the Preformed Corner using two Corner Clips. Secure each Corner Clip with one appropriate clip screw. Make sure the corner is plumb and level. Shim if necessary.\*

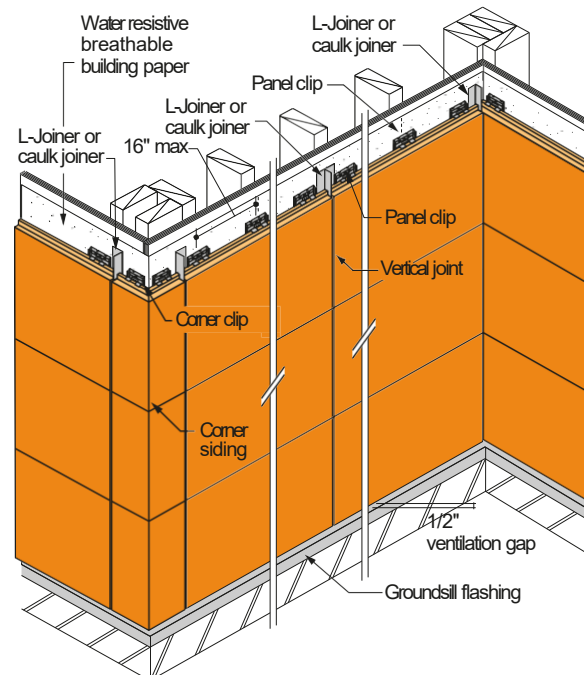
Stack and secure additional Preformed Corners using the same method to the required height. Cut the last corner to the required height and face fasten it over a 15 mm Spacer Block.

Install the specified L-Joiner on both sides of the Preformed Corner and fasten it to the substrate as required.

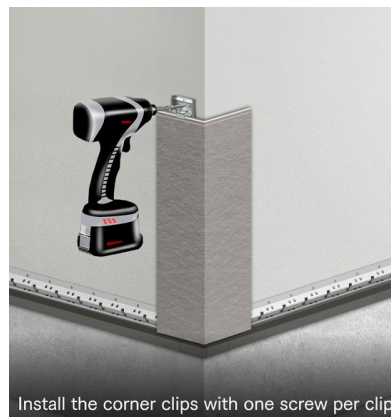
Refer to L-Joiner for Horizontal Panel Application on page 21.



### HORIZONTAL APPLICATION



Corner clip (B101153)



Install the corner clips with one screw per clip.

\* Refer to Ceraclad Troubleshooting guide for more information.

# Installation Details – CERACLAD Preformed Corners Installation

## 10' Corners for Vertical Panel Application:

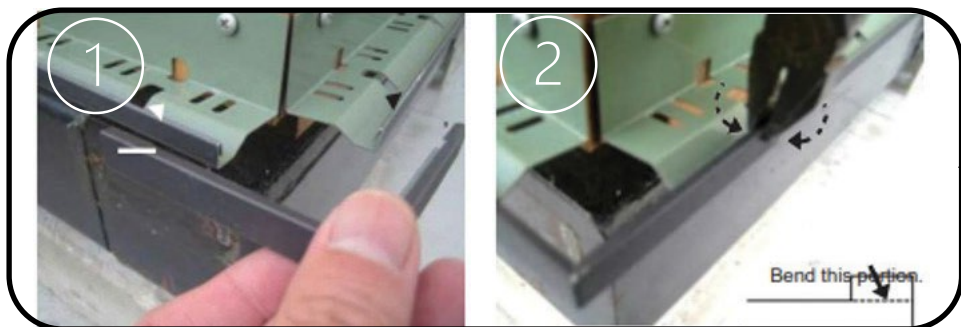
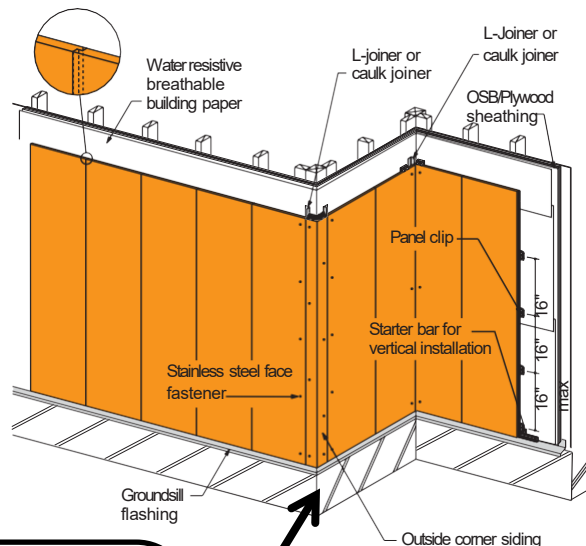
Begin by installing the Starter Bars for the vertical panel application. These support the bottom flat edge of both the panels and the 10' Preformed Corner.

Place the corner tool at the intersection of the two installed Starter Bars, as shown below. One corner tool is packaged with every five Starter Bars.

10' Preformed Corners are face fastened only; Corner Clips are not used.

Provide backing for the Preformed Corner and adjacent vertical panels by installing Spacer Blocks behind the face-fastening locations. Predrill the corner and panels for face fastening, maintaining a minimum 1-1/4" distance from panel edges. Shim as necessary.\*

### VERTICAL APPLICATION



### Face Fastening Spacing:

Edge of panel adjacent to outside corner: 16" on center.

### Preformed Corner:

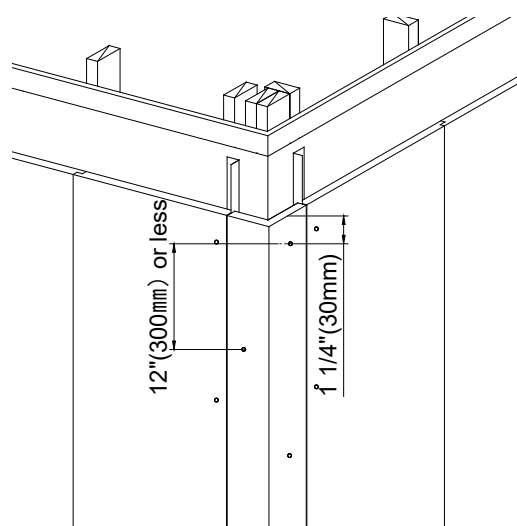
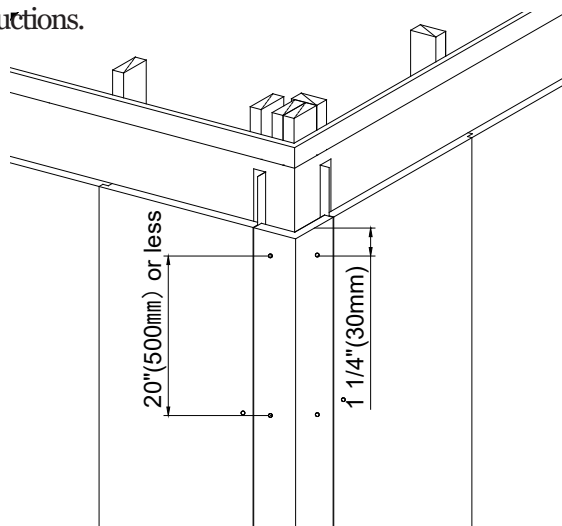
- (a) For parallel installation on both sides: 20" or less.
- (b) For staggered installation on both sides: 12" or less.

Refer to L-Joiner installation on page 21 for more instructions.

Remove the panel bottom shiplap edge of the first panel installed at the pre-formed corner.

Continue panel installation in one direction down the wall with the top ship lap with rubber gasket as the leading edge.

\* Refer to Ceraclad Troubleshooting guide for more information.



(a) 20" or less for parallel installation on both sides

(b) 12" or less for staggered installation on both sides.

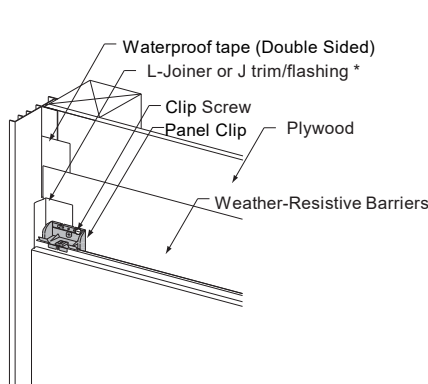
# Installation Details – Window Sill, Jambs and Head Flashings

For horizontal panel applications, the CERACLAD L-Joiner may be used for panel termination at window jambs. For vertical panel applications, use a J-Trim at window jambs. CERACLAD-supplied one-piece and two-piece J-Trim options are available. Alternate jamb termination methods include CERACLAD caulk joiners with an approved sealant, or appropriately designed locally supplied aluminum trims or brake-metal J-Trims.

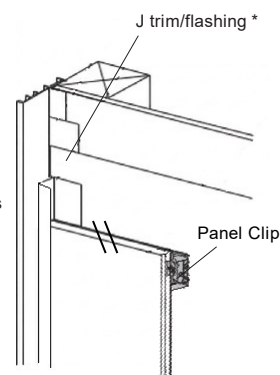
CERACLAD panel system depth is 1-1/4". Windows that project less than 1-1/4" from the substrate require an exterior metal extension jamb or other suitable termination detail. The final window termination and joint detail shall be specified by the architectural or building-envelope designer.

**For Recessed Windows:** Install the window manufacturer's sill flashing/extension attachments or other flashing cap where the panels will terminate. This will ensure the edges of the panels have a termination at the sill and jambs.

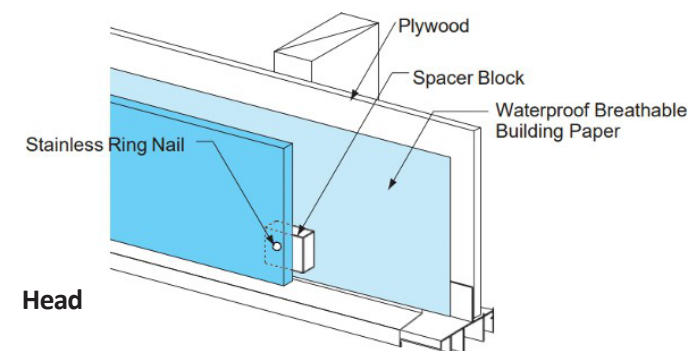
Windows should always be finished with a head/drip flashing. Do not use Horizontal J trim at the bottom edge of the panel since its exterior flange can catch and hold water.



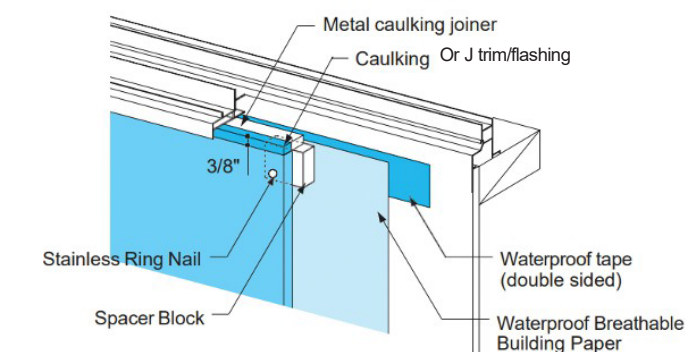
L-Joiner at Window Jamb  
only for Horizontal Panel  
Application



\*For Vertical Panel  
Application use CERACLAD  
one-piece or two-piece J-  
Trim or locally sourced  
custom flashing at window  
jambs; L-Joiner cannot be  
used at this condition.

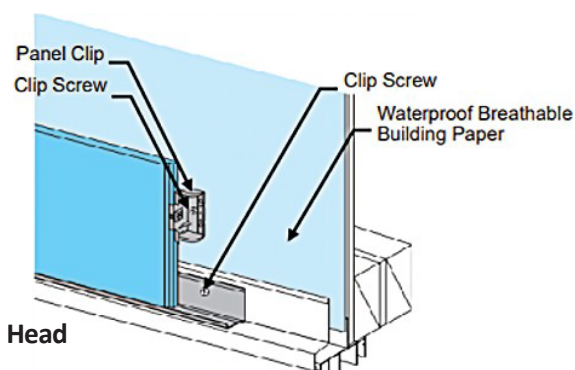


Head

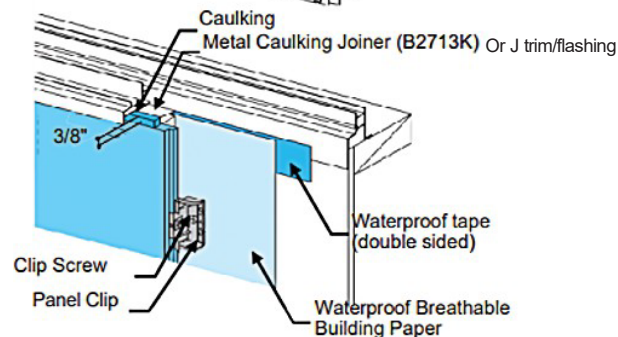


Sill

Horizontal Panel Application



Head



Sill

Vertical Panel Application

# Installation Details – Other Details

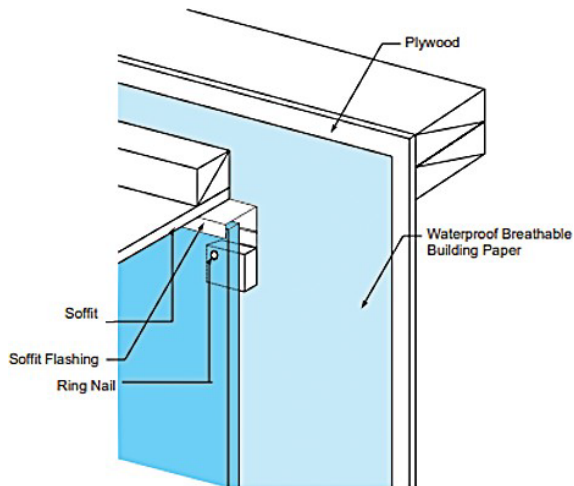
## Top of Wall

Maintain a 1/4" gap between the panel and the soffit flashing.

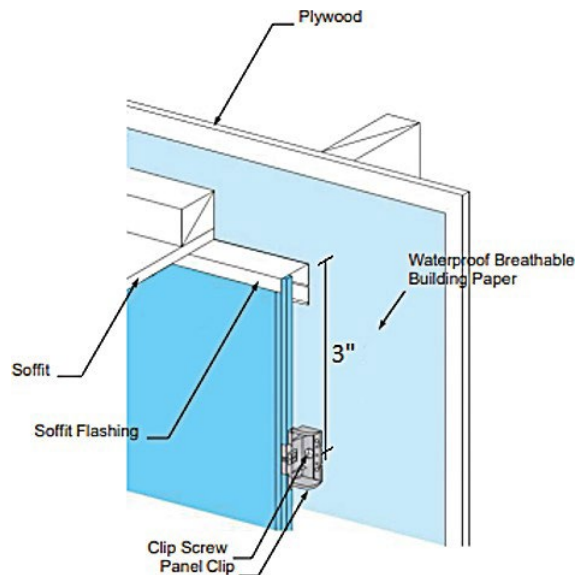
For Horizontal application install spacer blocks or pressure treated furring, predrill pilot holes at least 1-1/4" from the edge and fasten the panel with ring nails or face screw every 16".

For Vertical application install top panel clip within 3" of the top edge, no face fastening is required.

### Horizontal Panel Application

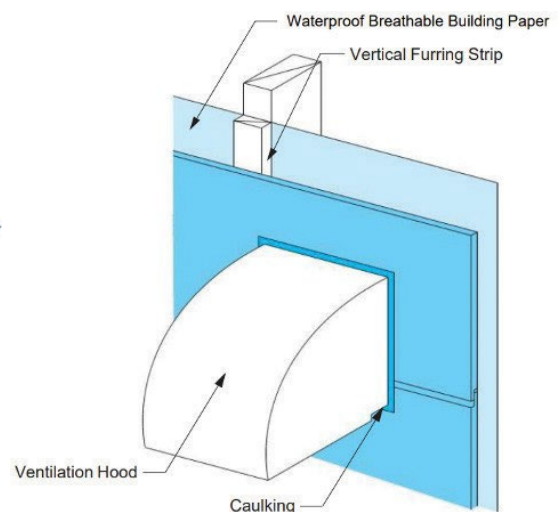
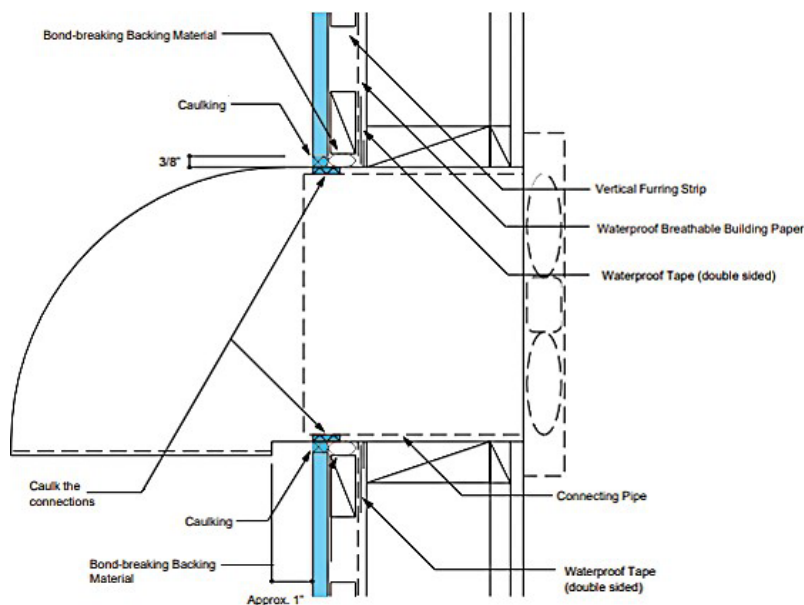


### Vertical Panel Application



## Ventilation Ducts

Keep 3/8" between the ducts and the panels and apply caulking. Project the exhaust cap at least 1" from the siding panel surface.



# Touch-up Paint



## Please read before proceeding

- Paint should be finished within the same day of mixing the paint ingredients. If the application cannot be completed within the same day, be sure to finish painting within 24 hours of applying the primer.
- Failure to follow the procedures below can result in poor color matching and may cause repaired portions to discolor over time. Please note that we assume no responsibility for such a case.
- Use no caulking materials in touch up repairing. Caulking used for touch-up will fade over time.
- Although the solid paint base may appear hard, it will work properly after vigorous mixing with the liquid hardener.
- Please refer to the material identification key to identify the ingredients.

### Material Identification Key.



**Blue Label:**  
Paint Base

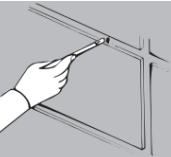
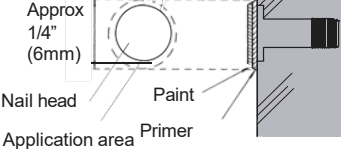


**Red Label:**  
Primer



**Green Label:**  
Hardener

- Follow these directions when applying touch-up paint.

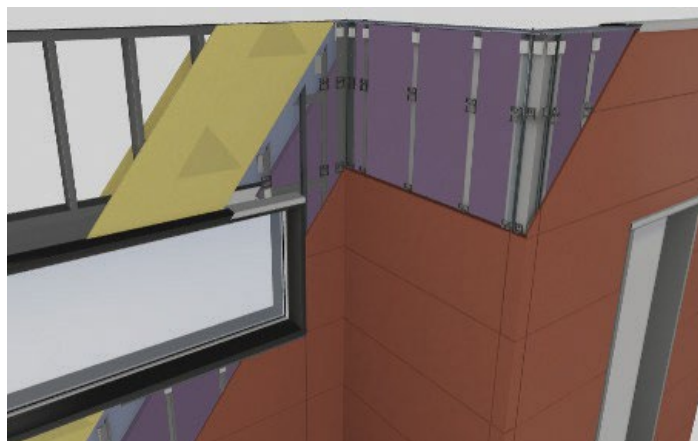
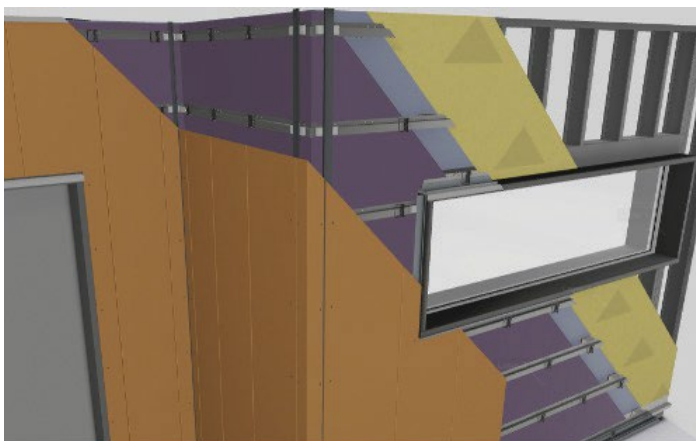
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1) Preparation</p>                   | <ul style="list-style-type: none"> <li>• Ensure that the siding surface is completely dry. Avoid painting when it is rainy and wet or the temperature is 40°F or less.</li> <li>• Clean dirty painting portions.</li> </ul> <div>  <p>Be sure to finish application within a day, if possible, as both the primer and the paint have a working life.</p> </div>                                                                                                                                                                                                                                                                                                                                                              | <p>Touch up Paint Kit</p> <div>    </div> <p>Paint Base      Primer      Hardener</p> <p>Brushes </p>                                                                                                  |
| <p>2) Mixing of touch-up paint</p>      | <ul style="list-style-type: none"> <li>• Pour the entire bottle of hardener into the base paint bottle. Shake the bottle well.</li> <li>• The mixed paint is susceptible to air humidity; be sure to close the lid tightly after mixing and agitation.</li> <li>• The mixed paint should be used after 30 minutes and within 8 hours of mixing.</li> </ul> <div>  <ul style="list-style-type: none"> <li>• For best results mix the entire quantities of the two bottles. Incremental mixing may result in poor performance.</li> <li>• Leave the mixed paint alone for 30 minutes after mixing to stabilize the color tone.</li> <li>• Apply the mixed paint within 24 hours after applying the primer.</li> </ul> </div> | <div>   </div> <p>Paint Base      Hardener</p> <div>  <p>Put all of the hardener into the paint base bottle.</p> </div> <div>  <p>Shake the bottle well until paint color becomes even.</p> </div> |
| <p>3) Primer application</p>            | <ul style="list-style-type: none"> <li>• Avoid dripping during application. In case of dripping, remove it immediately with a clean cloth.</li> <li>• The primer is susceptible to air humidity; be sure to close the lid tightly after use.</li> </ul> <div>  <ul style="list-style-type: none"> <li>• For best results, apply sparingly.</li> </ul> </div>                                                                                                                                                                                                                                                                                                                                                               | <p>Brush </p> <p>Primer</p> <div>  <p>Apply the paint carefully to prevent dripping.</p> </div>                                                                                                                                                                                                                                                                          |
| <p>4) Drying</p>                        | <ul style="list-style-type: none"> <li>• Allow 30 minutes for the primer to dry.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>5) Application of touch-up paint</p> | <ul style="list-style-type: none"> <li>• The mixed paint should be used after 30 minutes and within 8 hours of mixing.</li> <li>• Use the included brushes to apply the paint without dripping.</li> <li>• Apply the paint over portions applied with the primer.</li> <li>• Apply the paint within 24 hours after applying the primer.</li> </ul> <div>  <ul style="list-style-type: none"> <li>• For best results, use the paint sparingly and cover only the nail head.</li> <li>• Prime all locations before painting.</li> </ul> </div>                                                                                                                                                                               | <div>  </div> <div>  </div>                                                                                                                                                                                                                                                                                                                                               |
| <p>6) Inspection</p>                    | <ul style="list-style-type: none"> <li>• Check for uncoated sections. Paint as needed.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

# Attaching CERACLAD Over Continuous Insulation

When utilizing exterior continuous insulation, CERACLAD panel clips can be attached over up to 1-5/8" of rigid foam insulation/gypsum sheathing with proper fasteners through to the framing.

For thicker insulations, a structural solution is required to provide secure attachment points for CERACLAD panels, such as a furring grid from a third-party. The following furring materials and attachment specifications are allowable:

- **Proprietary exterior insulation attachment system (e.g., Cascade clips, Knight Wall, NVELOPE, ISOClip, etc.)**
- **Steel hat channel, rails, or Z-shaped furring: 18-16 gauge**
- **Pressure treated wood**
- **Other materials as approved by the project engineer**



For more detailed information and guidelines on installing CERACLAD panels over Continuous Insulation, please refer to the CERACLAD Continuous Insulation Technical Bulletins.

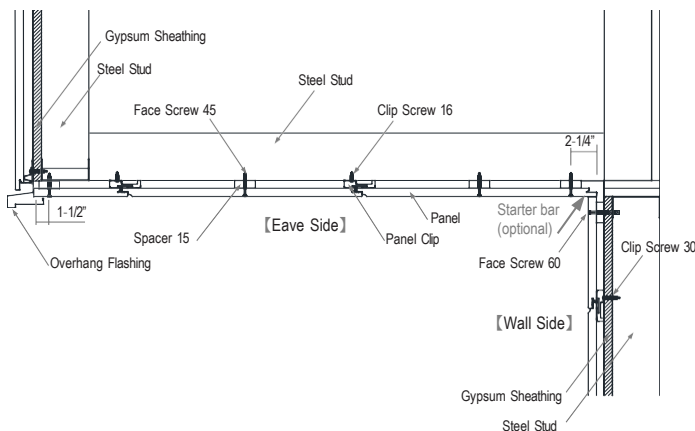
\*Disclaimer: KMEW USA is not responsible for the engineering or ultimate design of the attachment support system (ie-furring) for CERACLAD over continuous insulation or any other non-structural substrates. It is important to consider all live and dead loads, insulation thickness, and the applicable building codes for your region when choosing an appropriate sub-framing system and fastening schedule. Please consult your project architect or engineer for further direction.

# CERACLAD Soffit Application\*

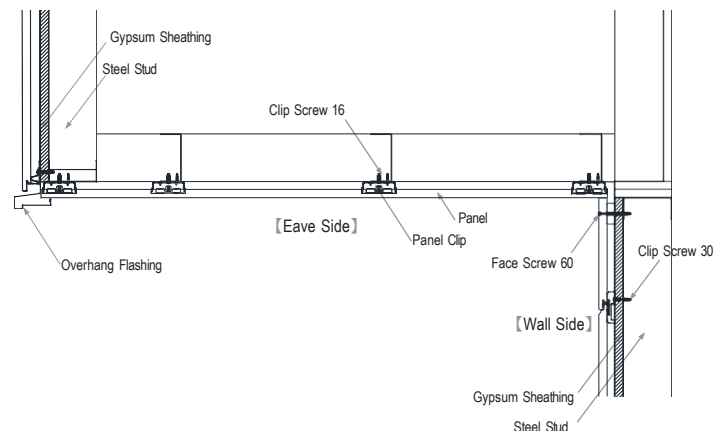
## CERACLAD Soffit Installation Standards:

- Panel length must be at least 16" and panel clips must be fastened to each stud.
- Installing the starter bar is optional and can help with alignment of the first panel course.
- Panel clips should be secured with one screw per clip for wood stud framing and two screws per clip for steel stud frame.
- At the center of the panel, fasten one face screw to each stud.
- At the start and end of the panel, fasten one face screw to stud at 16" on center.
- Before driving face screw, install spacer blocks behind the panel and predrill pilot holes with diameter of 4.8mm through the panel. When driving face screw, keep a minimum distance from the edge of the panel. (1-1/4" from the panel edge except for shiplap, 2-1/4" from the shiplap upper lip)
- The screws to be used depend on the substrate. Please check the tables below for more details.
- Ventilation should be properly implemented under the responsibility of the project engineer.
- Face Screw heads shall be touched up. Refer to CERACLAD Touch-Up Paint on Page 32 for additional instructions.
- It is recommended to apply KMEW specified waterproof sealer to exposed cut edges.

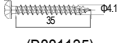
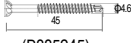
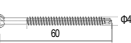
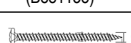
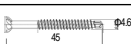
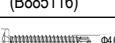
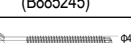
### Horizontal Application (Wall: Horizontal Application)



### Vertical Application (Wall: Horizontal Application)



### Fasteners Table

| Structure | Sheathing                                    | Screw (Product No)                                                                            |                                                                                               |
|-----------|----------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|           |                                              | For panel clip                                                                                | For face fastener                                                                             |
| Wood      | None                                         |  (B881135) |  (B885245) |
|           | Plywood/OSB (1/2")                           |  (B881135) |  (B885260) |
|           | Plywood/OSB (1/2") + Glass Mat Gypsum (5/8") |  (B88553)  | Purchase locally                                                                              |
| Steel     | None                                         |  (B885116) |  (B885245) |
|           | Glass Mat Gypsum (5/8")                      |  (B885130) |  (B885260) |
|           | Glass Mat Gypsum (5/8") × 2                  | Purchase locally                                                                              | Purchase locally                                                                              |

### Substrate Standards

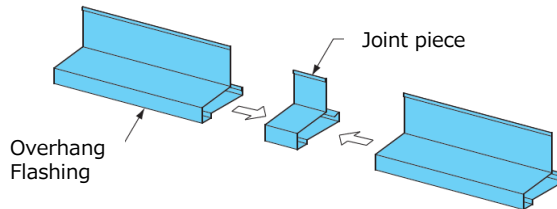
|                             |                  | Wood                                                                                                                                                  | Steel                         |
|-----------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Stud                        | Way to construct | Perpendicular to the direction of panel installation                                                                                                  |                               |
|                             | Interval         | 16" (400mm) or less                                                                                                                                   |                               |
|                             | Dimension        | 2" × 4", 2" × 6"                                                                                                                                      | 3-5/8" × 1-5/8"<br>18GA~16GA  |
|                             | reinforcement    | Appropriate implementation under the responsibility of the project engineer. (The substrate must be constructed to support the weight of the panels.) |                               |
| Sheathing                   |                  | None                                                                                                                                                  | None                          |
|                             |                  | Plywood/OSB (1/2")                                                                                                                                    | Glass Mat Gypsum (t 5/8")     |
|                             |                  | Plywood/OSB (1/2") + Glass Mat Gypsum (5/8")                                                                                                          | Glass Mat Gypsum (t 5/8") × 2 |
| Substrate Flatness          |                  | 2mm or less                                                                                                                                           |                               |
| Ensure ventilation of walls |                  | Appropriate implementation under the responsibility of the project engineer.                                                                          |                               |

# CERACLAD Soffit Application

## Overhang Flashing Installation CERACLAD Optional Components

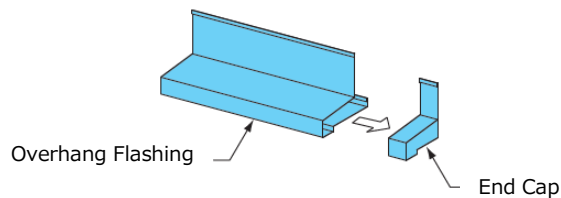
### ① Joint piece

Insert the flashing into the joint piece, align the edges of the flashings, and position the joint so that it is centered within the joint piece.



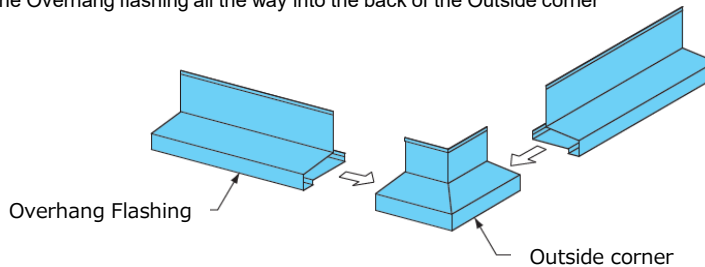
### ② End Cap

Attach a joint piece to the end of the flashing.



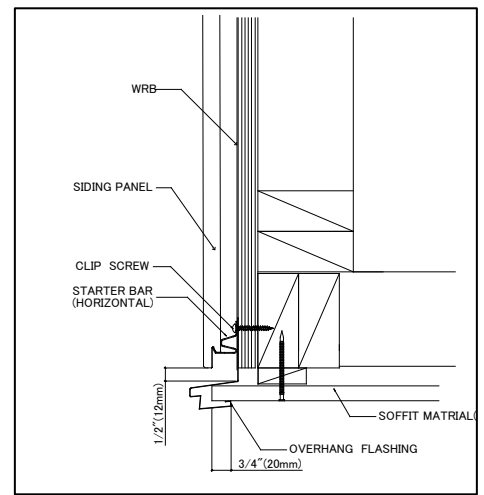
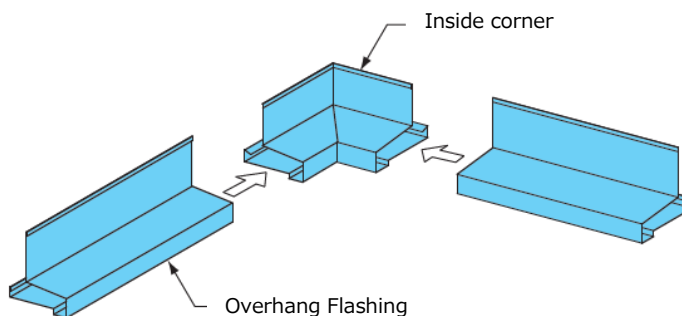
### ③ Outside corner

Insert the Overhang flashing all the way into the back of the Outside corner



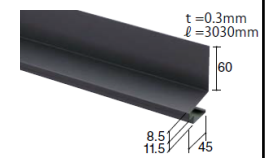
### ④ Inside corner

Insert the Hangover flashing all the way into the back of the Inside corner



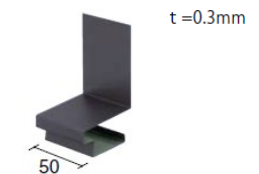
#### Overhang flashing

SKU# B243W1



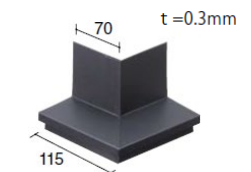
#### Joint Piece

SKU# B243W1J



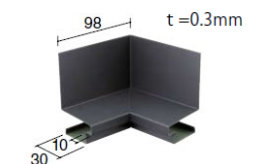
#### Outside Corner

SKU# B243W1D



#### Inside Corner

SKU# B243W1C



#### End Cap

SKU# B243W1E



# Index

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