LENMAK
Exterior Innovations Inc.

Installation guide

for OmniClad Panel Assemblies

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Custom cladding

Welcome

Lenmak Exterior Innovations Inc. is one of North America's most advanced manufacturers in exterior architectural solutions, light gauge pre-finished metal panels, and state-of-the-art aluminum and steel cladding, insulated back panels, roofing, and flashing based out of Edmonton, Alberta, Canada.

Introduction

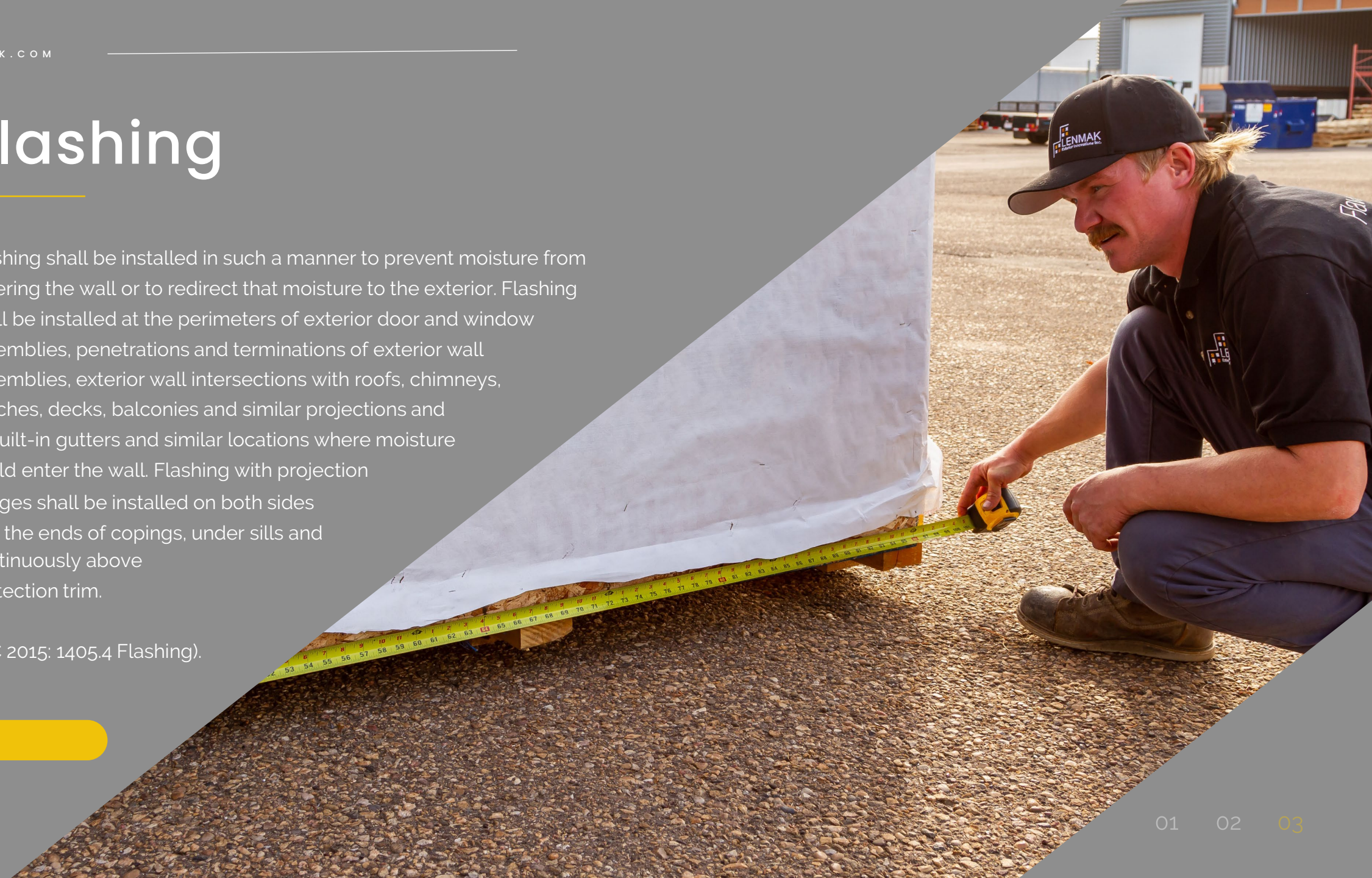
This instructional guide for OmniClad is intended for experienced professionals with a background of installing siding, soffit and metal cladding systems. All Lenmak products should always be installed by a professional.

Prior to the installation of OmniClad, ensure that a water-resistive barrier is installed correctly to the manufacturers' instructions.

Flashing

Flashing shall be installed in such a manner to prevent moisture from entering the wall or to redirect that moisture to the exterior. Flashing shall be installed at the perimeters of exterior door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies and similar projections and at built-in gutters and similar locations where moisture could enter the wall. Flashing with projection flanges shall be installed on both sides and the ends of copings, under sills and continuously above protection trim.

(IBC 2015: 1405.4 Flashing).



1

Drip Flashing – Coping.

Prepare the base drip flashing to lap into the next piece by notching the flashing.

2

Drip Flashing – Coping.

For best practice, use snips or shears to notch the flashing. Abrasive cut off tools should never be used.

Drip Flashing– Lap Joint.

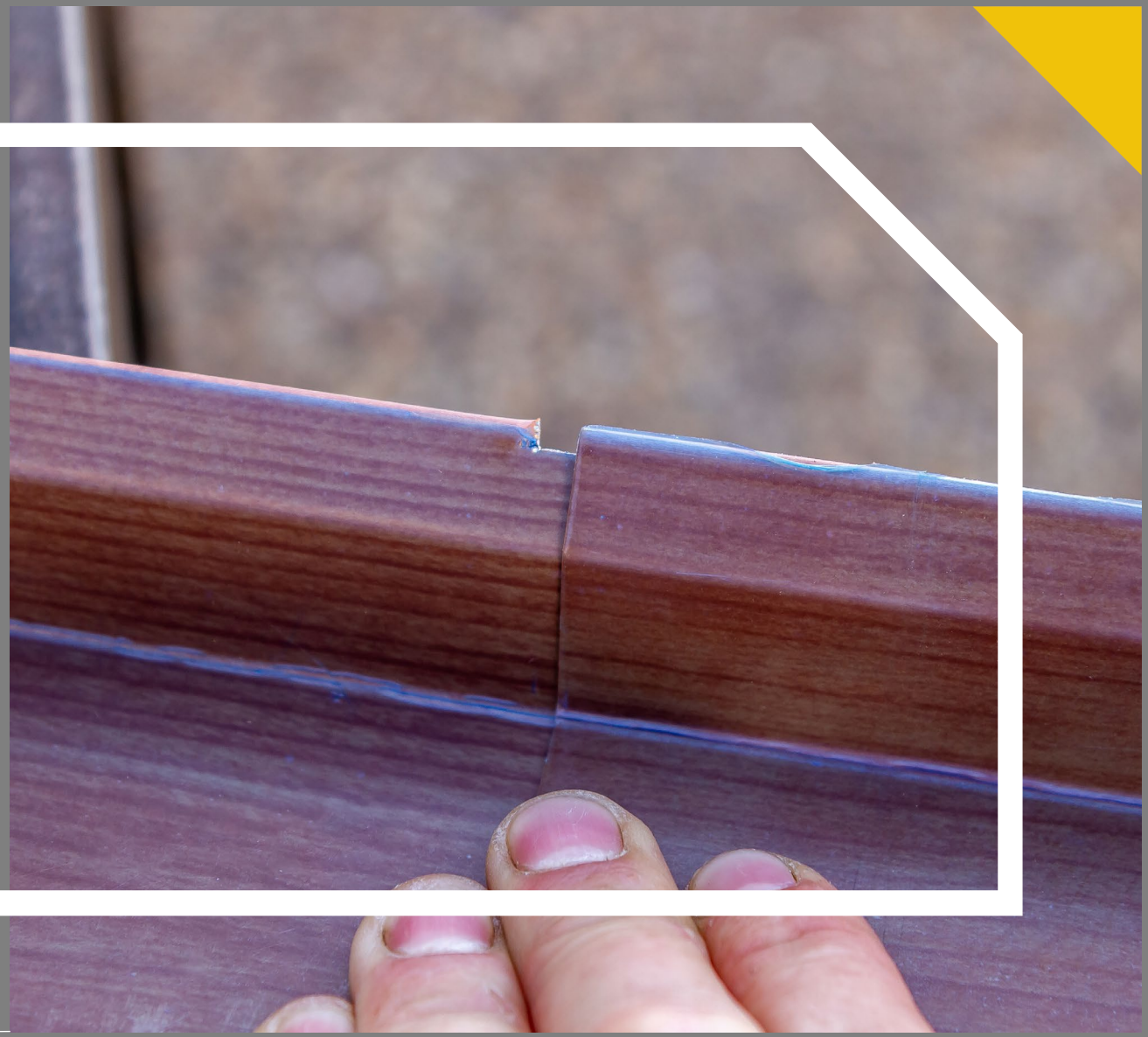
3

Using a pry tool, open the hem more on the piece to allow it to slide over the trimmed flashing easier.

4

Drip Flashing – Lap Joint.

Slide the notched flashing behind the other drip flashing and into the open hem.



Drip Flashing – Lap Joint.

Using sheet metal pliers, close the open tight onto the other flashing.

If there is protective film on the flashing, peel it back before closing hem with the pliers.

Drip Flashing – Installation.

Secure drip flashing with #8 or larger screws.

Drip Flashing – Corner Transition.

Prep end of drip flashing as previously shown above.

Drip Flashing – Corner Transition.

Measure remaining length of the corner including the notch on the previous flashing.

Drip Flashing

Corner TRANSITION

Now take your last measurement and mark out your first line on the nail flange of the drip flashing. Using a speed square, draw a line 45° towards the hem. Draw another 45° line from the hem back towards the nail flange. Then create a line at this end and mark out your centre line.

Drip Flashing

Corner Transition

1

Cut

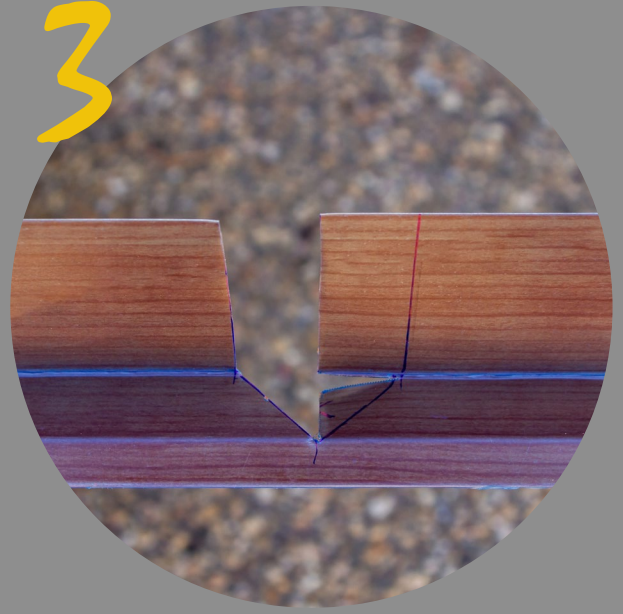
Cut out one side.

2

Cut

Cut along 45° line.

3



Fold

Fold Tabs at remaining lines.

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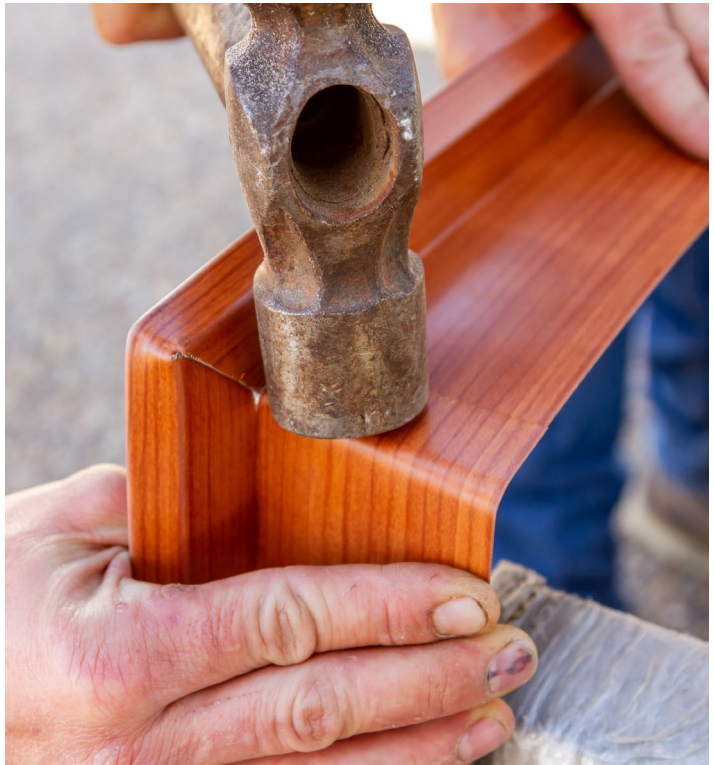
First Fold

Bend the flashing 90° at the centre point of the hem.

Second Tap



Using a hammer, gently tap along the fold you made previously.

DRIP FLASHING

CORNER TRANSITION.

Slide the newly formed corner base drip flashing over your previously notched drip and screw in place. Make sure to lock the hem using sheet metal pliers (as previously shown).

1

2

3

DRIP FLASHING

Cover the nailing flange of the Drip flashing with the existing Air/Water barrier.

Base Installation

2-piece Corner

Measure

The length from the drip flashing to the underside of the soffit.

Cut

Using snips or a cold cut saw blade. Never use abrasive cut off wheels with metal flashing.

2-PIECE CORNER BASE - INSTALLATION

Secure 2-Piece Corner Base Flashing with screws. Ensure 45° pocket is inline with the corner of the building.

1. **Measure** and cut 2-piece J-Trim base.
2. **Drill** a weep hole in bottom of J-Trim base before installing.
3. **Secure** in place with screws.

LOWER 2PC BASE J -

TRIM INSTALL.

This step is optional depending on the orientation of the OmniClad panels and if there is a factory edge on the panels at the base of the wall.

Upper 2-piece Base J-Trim Install.

Measure and cut the J-Trim base to length. Any joints in the flashing can be butted together.

OmniClad INSTALL VERTICAL

Measure the length between the flashing for the starter strip and panels. Subtract ¼"(6mm) for clearance.

Starter Strip

Preparation

01 Measure

Mark out the length on the starter strip.

02 Cut

Using snips cut along your line. The starter strip might deform slightly at cut location but is easy to straighten with pliers.

Starter Strip – Install.

Starter Strip -

Install.

MEASURE

Measure back ¾"(19mm) from edge of 2pc Base flashing.

PIN

Secure one end of the flashing with a #8 screw.

LEVEL

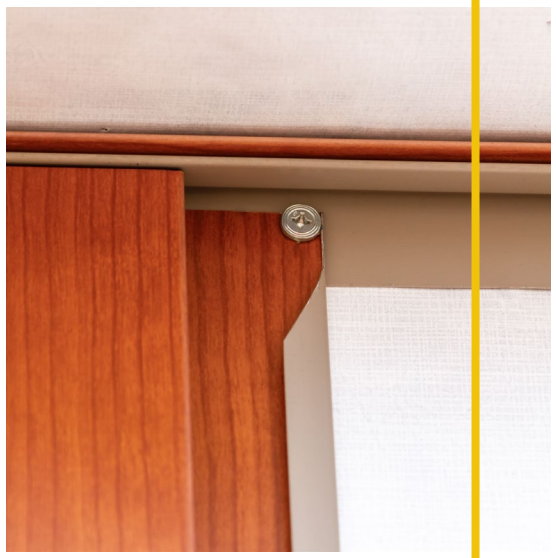
Before installing any more fasteners level the starter.

FASTEN

Secure with remaining screws.

Panel Prep – Vertical.

When using OmniClad in a vertical application it is recommended to top hang the panel with a screw directly through the leg at the top of the panel.



Notch

In order to keep the fastener hidden, notch out the top of the hook to provide clearance for the fastener.

PANEL INSTALL - Vertical.

Engage the panel into the starter and pin the top of the panel with a screw. Check if the panel is level and secure with clips. Maximum clip spacing is 24" OC.

Panel Install

When locking panels together to create a ¾"(19mm) reveal, cut ¾" spacers and place them in the reveal joints to keep panels parallel when securing with clips.

Panel Install– VERTICAL.

Continue to top hang each panel and then secure with clips (24" spacing max).

2pc J - Trim Top

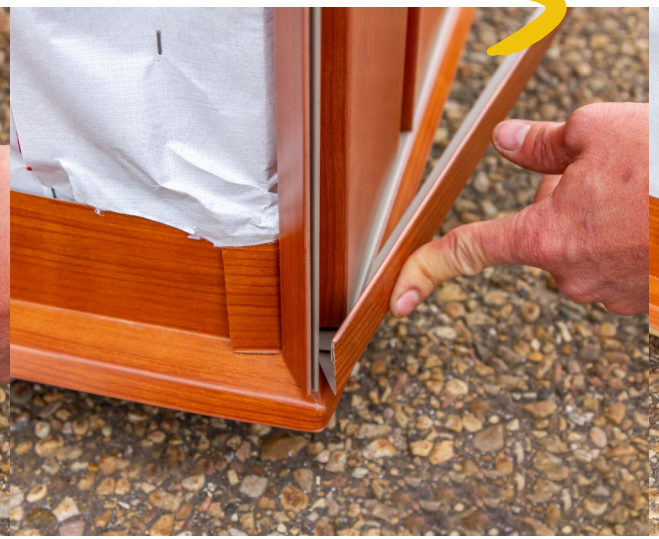
Install

Push the 2-piece J-trim top into its base. Then using a rubber mallet tap it tight into the lock.

1

2

3



4

FLASHING

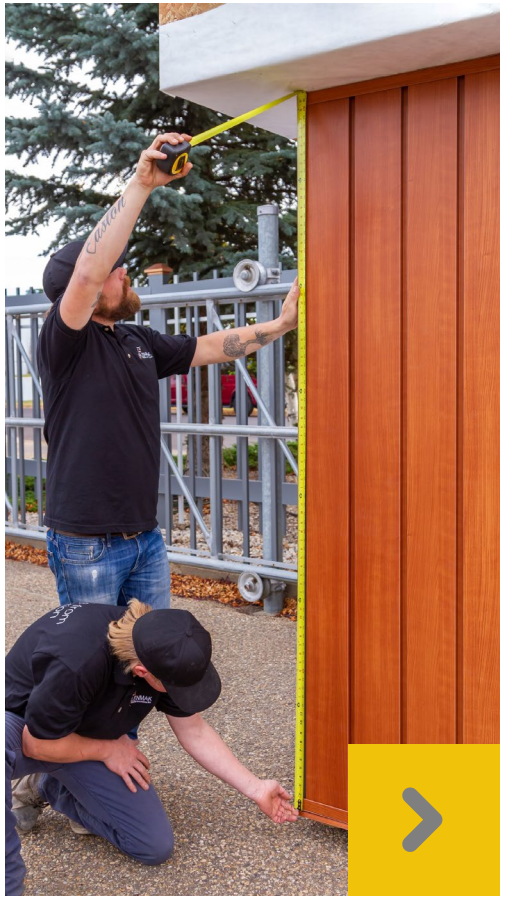
D E T A I L S

PANEL INSTALL VERTICAL.

FINISH WORK

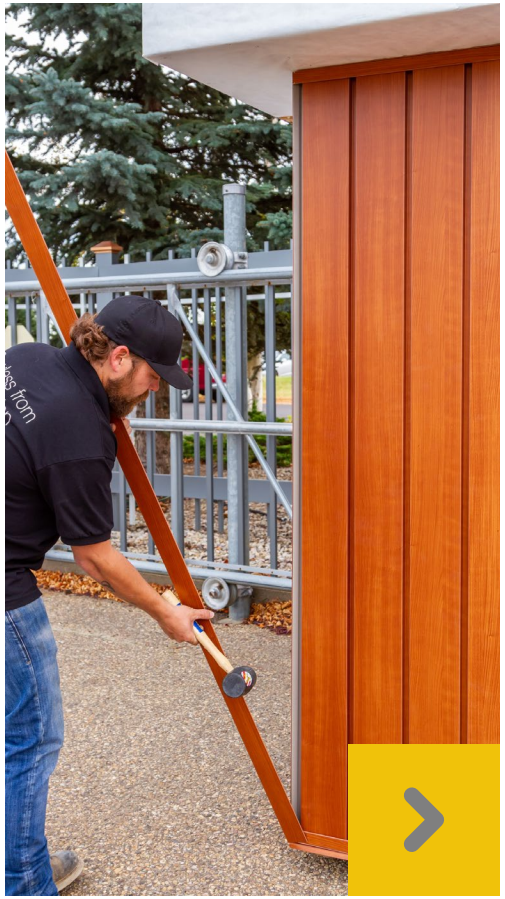
When using the 2pc corner, install all other 2pc J-trim caps before installing the corner cap.

Corner Install



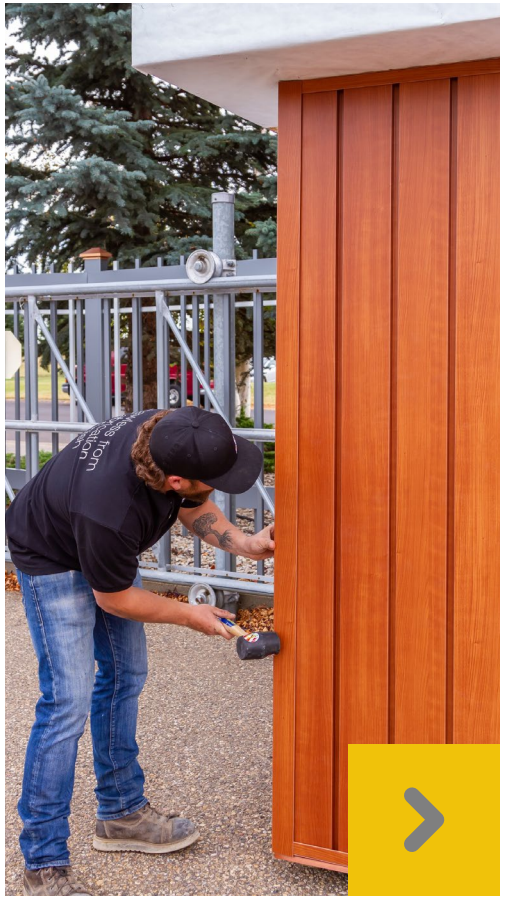
Measure

Measure from the drip cap to the bottom of the soffit



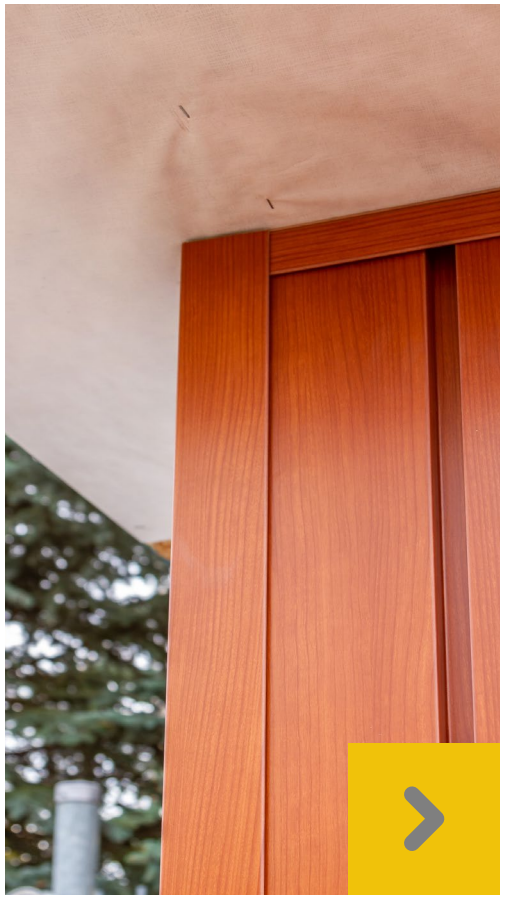
Cut

Cut to length using snips or a cold cut metal blade



Install

Start by engaging the corner in one end and slowly work your way across. Tap in place



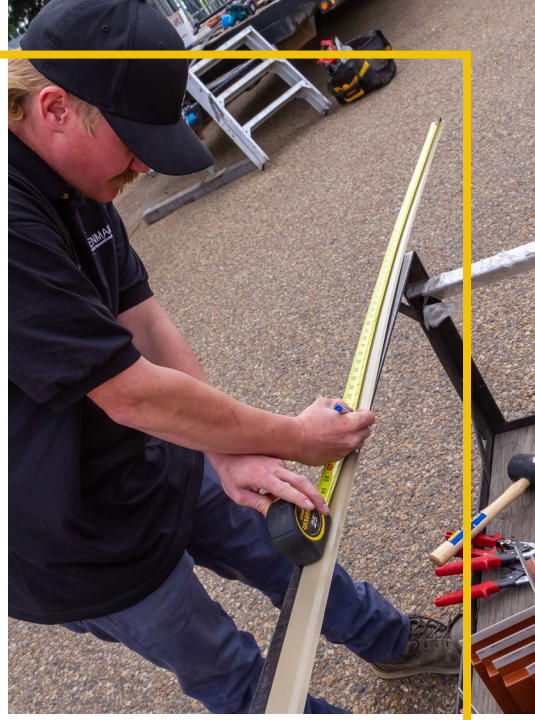
Complete

The finished corner should cover both the panel and the J-trim

OmniClad

Panel Install Horizontal

- The install starts the same way for OmniClad in a horizontal application as it did with the vertical. First, start with installing the drip flashing as previously detailed.
- Next, install the OmniClad starter strip the full length of the drip flashing if you're using our formed Omniclad corners. If you're using one of the corner flashings, install the corner before the Starter.



Starter Strip – Horizontal

The starter strip should be fastened ¾” (19mm) above the drip flashing. Make sure the starter is oriented so that the shorter legs point down toward the drip flashing.

The starter strip should be installed with a #8 or larger screw. The screw should just be snugged up to the starter strip (don’t over tighten). Max spacing for the screws is 24”.

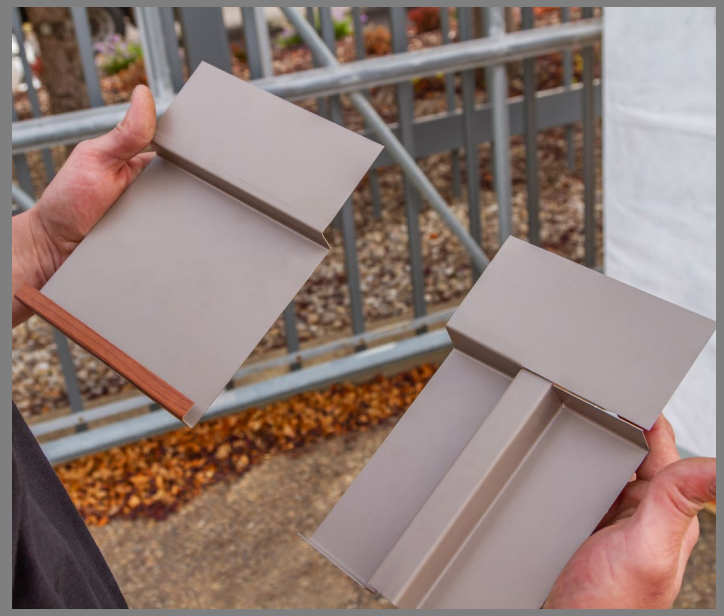
OMNICLAD – Formed CORNERS

INSTALLATION

When using the formed OmniClad corners, there are two options for the splice plate. The first is a standard splice plate that slips in behind the panel and corner. The second is our ¾" reveal plate shown in the photos to the right.

front

back



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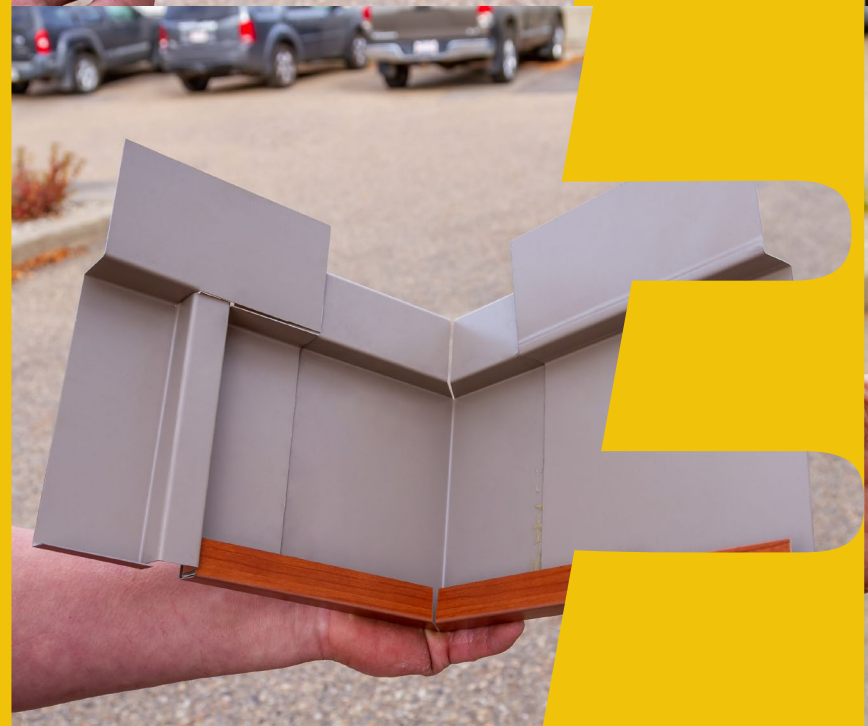
CORNER -

SPLICE OR REVEAL INSTALL.



Corner Assembly

Firmly snap corner over the splice plate or reveal plate.

Install

Level the corner and secure in place with a clip.

COMPLETED CORNER ASSEMBLY

Once the corner is installed with a splice plate on each end, its ready for the panel install.

Panel Install

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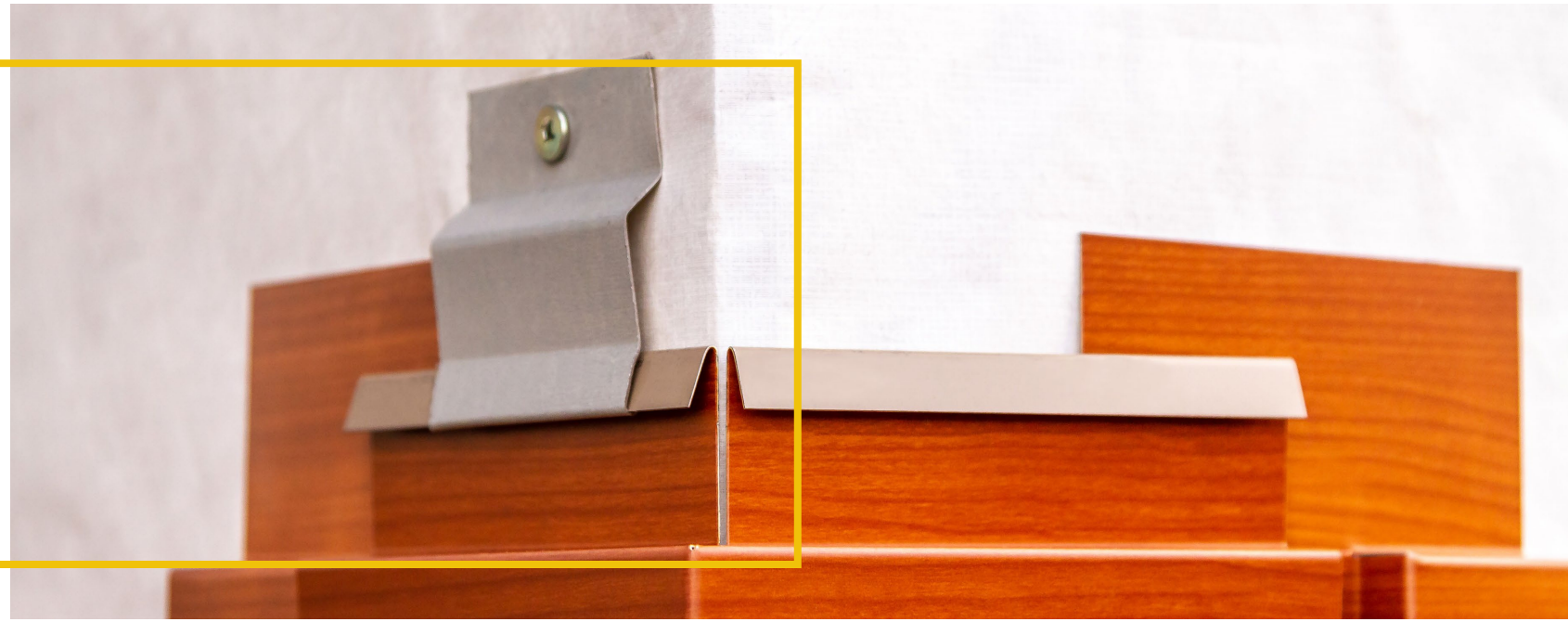
Snap the panel over the splice plate and secure with a clip near the corner. Continue to install clips along the panel and fasten in place (Max 24" clip spacing).

STARTING THE NEXT ROW

Follow the same assembly process from the first corner install and lock the bottom of the corner assembly into the previous one to create a ¾" reveal. Using ¾" spacers in the reveal will help hold it in the correct position when installing with a clip.



Second
Panel Layer

Lock the bottom of the new panel into the hook of the panel below to create a ¾" reveal.

Mid Wall Joint

Both the splice plate and the reveal plate can be used to create a transition to the next panel in a horizontal installation.

1. Snap in place
2. Slide panel to align with reveal plate
3. Secure in place with clip

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INSTALLATION GUIDE

Note: when locking the panels to create a ¾" reveal, the panels may allow you to create a reveal slightly larger then ¾" when pulling up too hard on the lock. Using a ¾" spacer or shim will help keep the panels properly spaced and parallel.

TWO
Piece J-Trim

1. Our two-piece J-trim is used to cover the cut edges of panels or create a transition in the wall.

2. Our two-piece base is installed before the panels. Once the panels are installed, the top cap snaps in to cover the ends of the panels.

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Two-Piece J-Trim

Installation

Measure the length required for the two-piece base and cut with snips or a cold cut metal blade. Secure in place with a pancake screw.

Order of The Flashing

When installing the two-piece base, or any flashing, the higher flashing should always overlap the lower one.

Pocket Corner

Flashing

01. EASE OF INSTALL

Our pocket corner offers the quickest and easiest install out of all our corner options.

02. HORIZONTAL AND VERTICAL

Works with OmniClad in both vertical and horizontal applications.

03. LARGE FACE

The Pocket corner has a face that starts at 4" wide and creates a very rigid profile.

Pocket Corner Installation

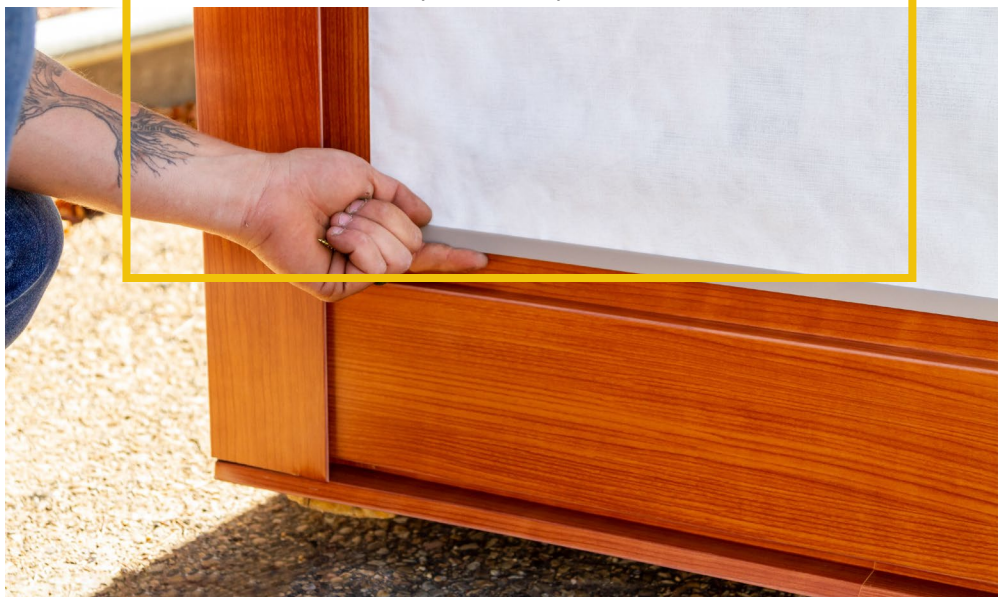
Install the Pocket Corner of the base drip flashing. Level the corner and secure in place with a pancake screws spaced no more than 24”.

- **Slide**

  Slide the panel into the pocket of the corner.

- **Lock**

  Then pull up on the panel to lock into starter or previous panel.



WINDOW FLASHING INSTALLATION.

Upper Drip *Flashing*

Start with prepping the drip flashing for above the window for installation. Measure the width of the window and cut the drip flashing 2” longer.

END DAM PREP

Notch 1” from the hem on both sides of the drip flashing.

UPPER DRIP FLASHING

END DAM.

1. Using sheet metal pliers, align the front of the pliers to the notch in the hem and fold flat 90 degrees.
2. Using the pliers begin squishing the part of the nailing flange that bent with end dam.
3. Squeeze the fold to get it as close to 180 degrees as possible.
4. Using a hammer or mallet, gently tap on the fold to get it to lay completely flat.

INSTALL

UPPER DRIP FLASHING.

Secure the drip flashing above the window and align the end dam with the side of the window.

SECURE THE DRIP FLASHING

ALIGN THE END DAM

SEAL DRIP FLASHING

Install approved vapour barrier over nailing flange of drip flashing and seal with tuck tape.

INSTALL APPROVED VAPOUR BARRIER

Window

SIDE FLASHING

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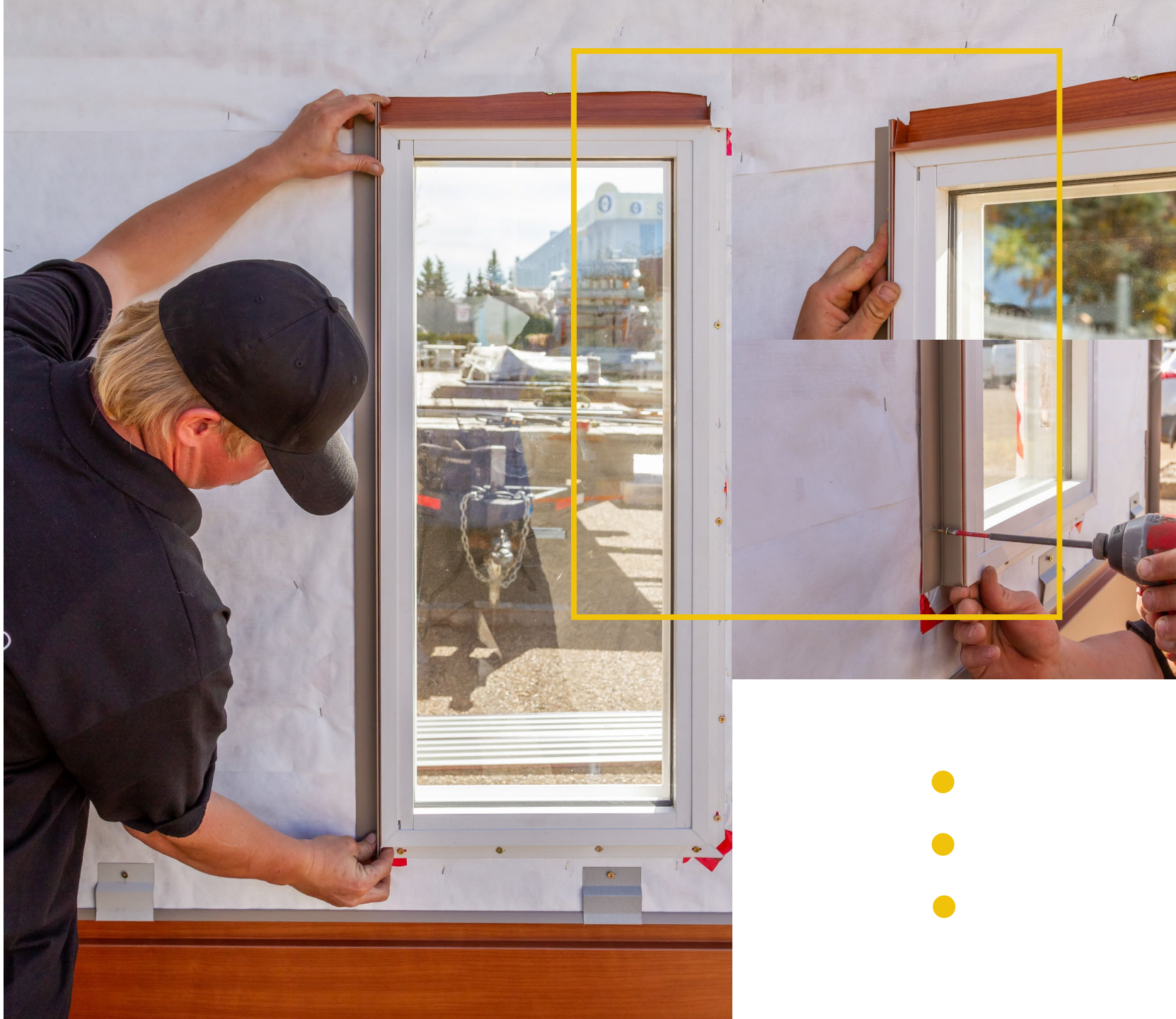
Measure the height of the window, add 1” for the end dam and cut the two-piece base using snips.

The base should align with bottom of the window and the top of the end dam. Secure in place with a pancake screw.



UPPER AND LOWER WINDOW FLASHING.

TWO-PIECE

BASE FLASHING.

Measure the distance between the pockets of the two side flashings. Cut the two-piece base flashing to length for above and below the window.

Upper and Lower Window Flashing

1.

2.

3.

4.

INSTALLING

WINDOW DETAIL.

After installing the upper and lower two-piece base flashing, measure the distance for the panel that needs to be notched out for the bottom of the window.

Panel Notching

WINDOW DETAILS

1. Using snips or a cold cut saw, cut out your notch to clear the window.
2. Slide the panel in place and secure with clips.
3. Depending the length of the notch, a Z-trim may be required to support the cut edge. You can also use the piece that was notched out and flip it around to use as a support.

Window Detail

Continued

Panel Install

Measure and cut the panels to length on either side of the window. Continue to install panels until you get to the top of the window.

WINDOW DETAIL

UPPER PANEL.

Prepare and install the panel at the top of window. Depending on how the panel aligns with the top of the window it may need to be notched out.

1. MEASURE HEIGHT OF NOTCH.
2. MEASURE WIDTH OF NOTCH.
3. LEAVE SOME CLEARANCE AROUND THE WINDOW.

WINDOW

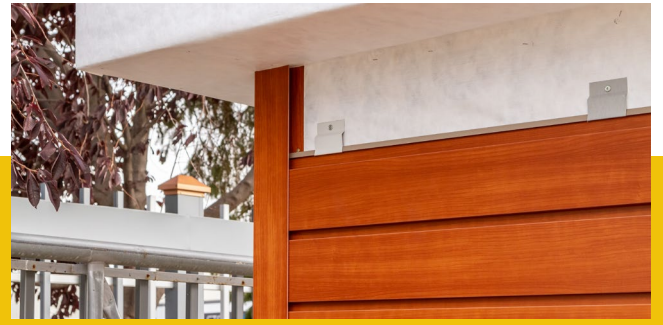
DETAIL

Install the notched panel above the window. Like the panel under the window, the cut out may need to be supported by a Z-flashing.

OmniClad Installation

Guide

Continue to install panels above to windows until you reach the top of the wall.

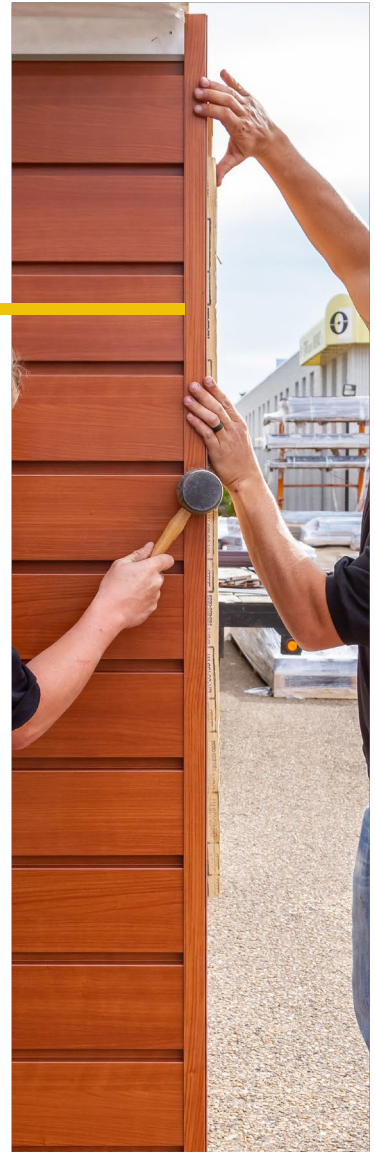


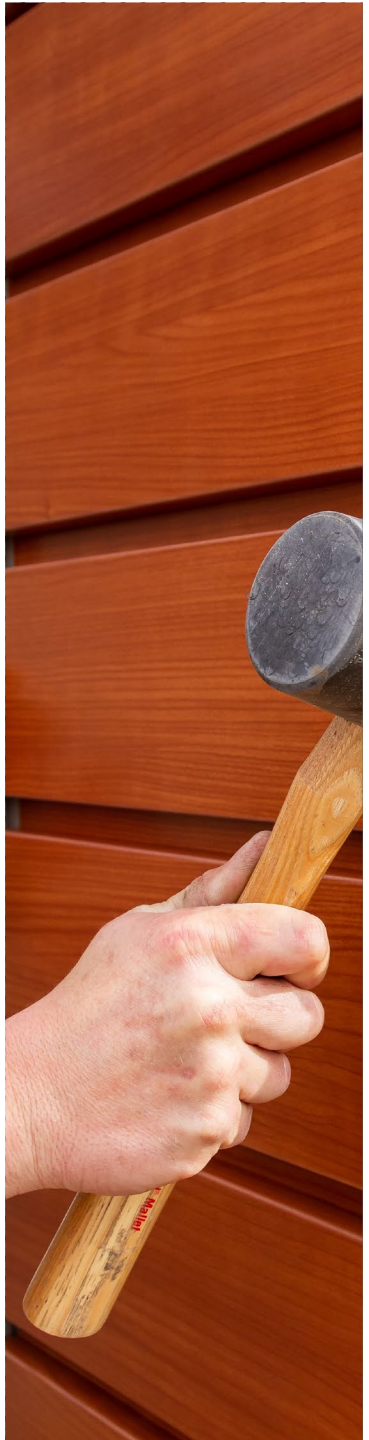
Periodically check that panels are staying level.

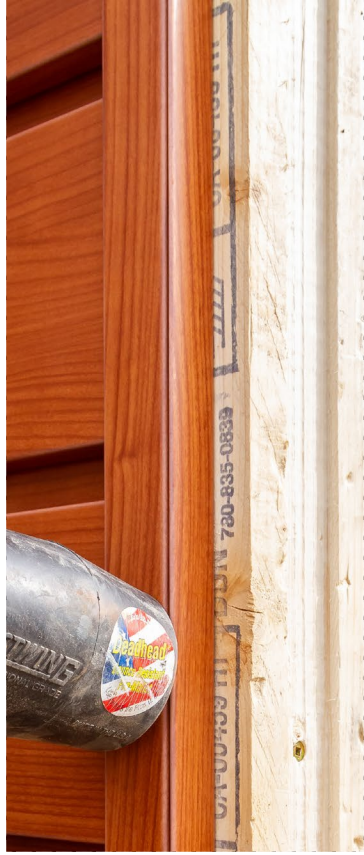
Two-Piece Cap Install

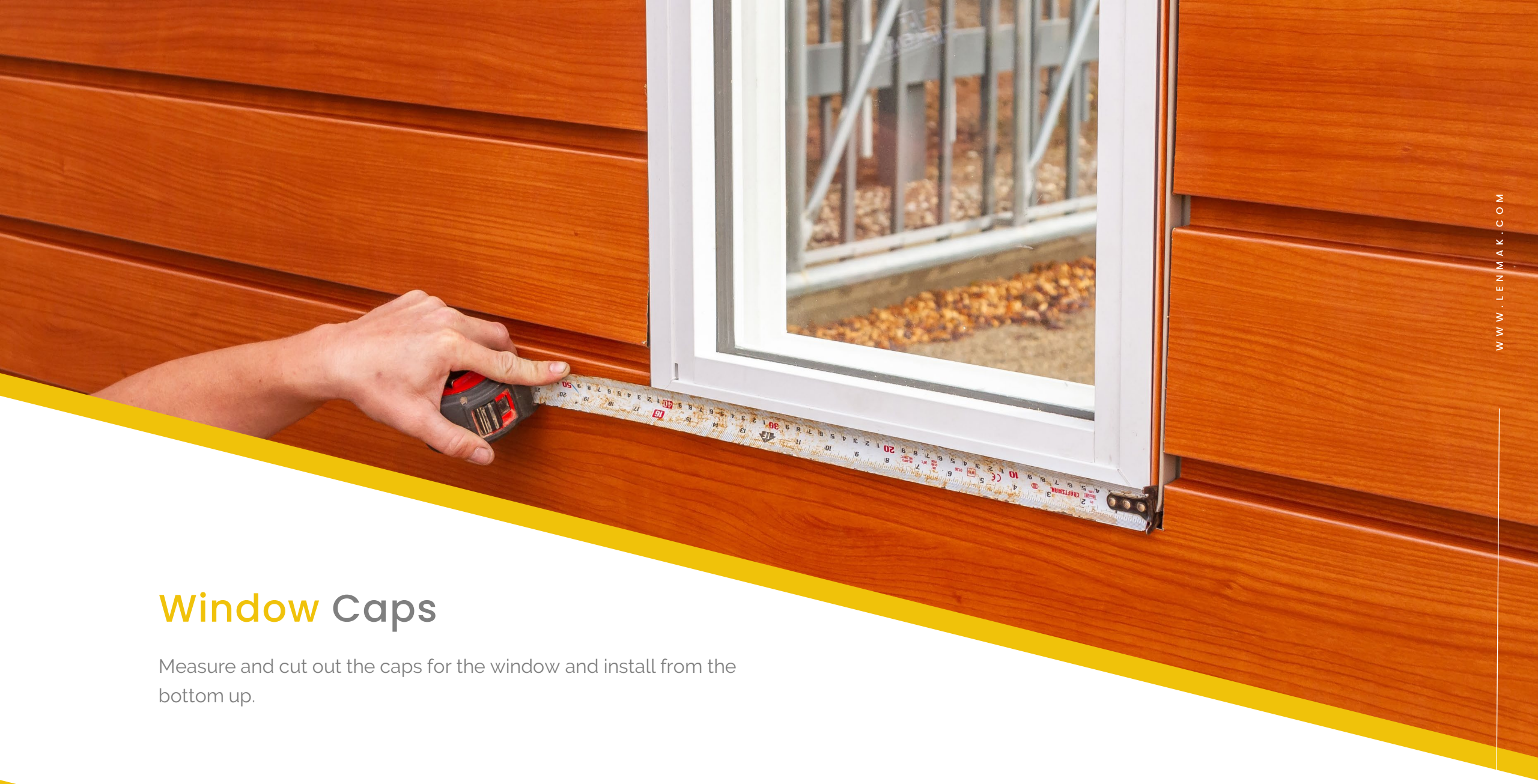
Cut the two-piece J-trim cap flashing to length and snap it in place. It's recommended to start installing the cap into one end of the base and work your way along.

Start engaging the cap by hand and tap it into place with a rubber mallet.



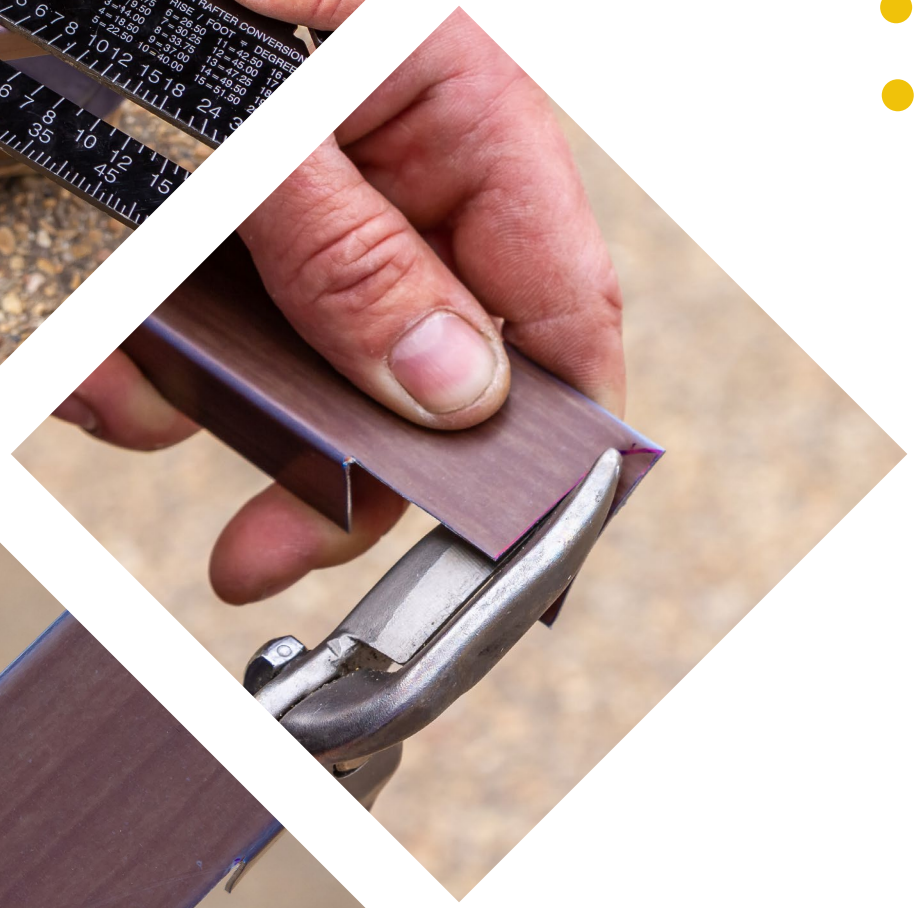






Window Caps

Measure and cut out the caps for the window and install from the bottom up.



WINDOW

Cap Detail

MEASURE AND NOTCH

Measure the width of the window and add 2” to the length of the cap.

Notch the bottom cap as shown in the image so the face can extend 1” past each side of the window.

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Window Cap

Installation

SNAP IN PLACE

A rubber mallet may be required to fully seat the cap into the base. Gently tap with the mallet to avoid damaging the flashing.

WINDOW CAP Sides

Measure the length from each pocket of the upper and lower base flashing. Add two inches to the length of the flashing. Notch 1” from each side of the cap along the back edge. Mitre each end of the cap flashing.

WINDOW CAP

Upper flashing

Repeat the same process as the other caps around the window. Add 2" to the length and notch cap 1" on each end to fit in the pocket.

OMNICLAD

Multiply Your Options

Order Today

The OmniClad™ product line from Lenmak Exterior Innovations Inc. is made to order and produced on demand to meet your needs – and your budget. Available in a rainbow of colours and finishes, three widths, and a standard depth of ¾", this concealed fastener cladding system offers multi-dimensional flexibility with panel lengths up to 26'. A floating clip system allows free expansion and contraction for the best possible performance and value.

LENMAK
Exterior Innovations Inc.

Get in Touch

We look forward to learning more about your project or custom metal needs.

Address

10404 – 176 Street Edmonton NW, AB
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Contact

(888) 451-5482 / (780) 451-5482

orderdesk@lenmak.com

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