KOLBE®

WINDOWS & DOORS

NEW CONSTRUCTION

FLASHING ROUGH OPENINGS for a Membrane/Drainage System

APPLICATION INSTRUCTIONS

READ AND COMPLETELY UNDERSTAND THESE INSTRUCTIONS BEFORE STARTING FLASHING APPLICATION

www.kolbewindows.com

INTRODUCTION

ASTM E 2112-23 and AAMA Installation Masters Method A-1 (Side Jamb Flashing After Unit Installation) are illustrated in the following pages. Method A-1 describes applying the weather-resistant barrier paper before window or door installation and flashing. However, all other ASTM E 2112 and AAMA Installation Masters methods are also acceptable.

The primary purpose of flashing a rough opening is to ensure a proper seal between the weather-resistant surface of the window or door unit and the building envelope's primary water-shedding surface. The following instructions offer general guidelines, but it's important to consult local building codes for specific materials and application procedures.

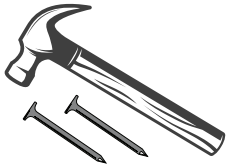
Membrane Drainage System

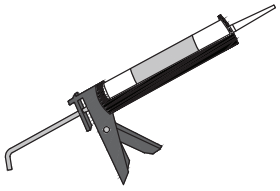
- A "membrane/drainage" system utilizes a primary surface and a secondary path to channel water away.
- This installation includes a building envelope with exterior elements such as stucco, siding, veneers, panels, or shingles (e.g., wood, metal, tile), which serve as the primary water-resistant surface.
- Behind this first surface, the secondary or backup surface acts as a barrier to prevent air and water infiltration.
- This membrane drainage system category also includes building envelopes designed with a cavity between two walls, where the inner wall serves as the secondary barrier.
- When installing a unit into this system, it is essential to recognize that exterior siding alone does not fully protect a structure from moisture.

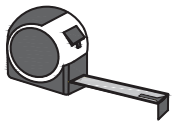
Membrane drainage systems require the use of strips of approved self-adhering exterior weather barrier flashing tape with a width of 9 inches (229mm).
Other widths, as small as 4 inches (102mm), are acceptable if the flashing tape is self-adhering.

TOOLS AND ITEMS REQUIRED BY OTHERS (INSTALLER)

- Safety glasses/goggles
- 4" or 9" Weather Barrier Self Adhering Flashing Tape
- Utility Knife
- Hammer
- Roofing Nails
- Sill Pan Material
- Silicone/caulking
- Caulking Gun
- Measuring Tape







⚠ CAUTION

Do not rely solely on the outer surface of a "membrane/drainage" system for sealing the connection between the window or door unit and the building envelope.

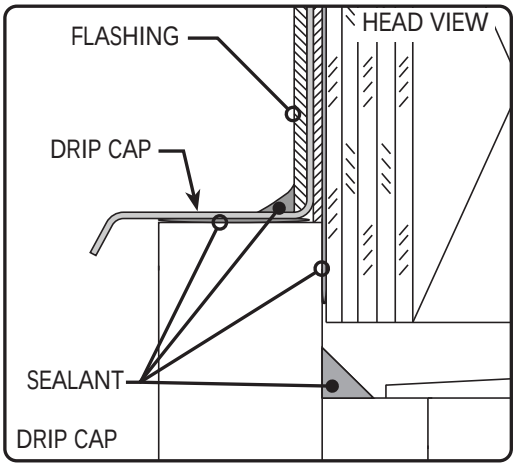
NOTE

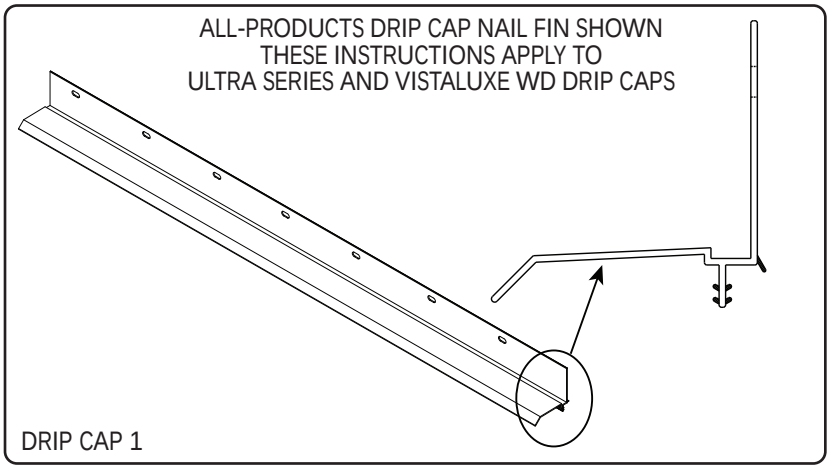
Flashing material must be made of barrier-coated reinforced material and provide a minimum of 24 hours of water penetration protection when tested according to ASTM D-779. Any sealant used with the flashing must be compatible; consult the sealant manufacturer for specific recommendations.

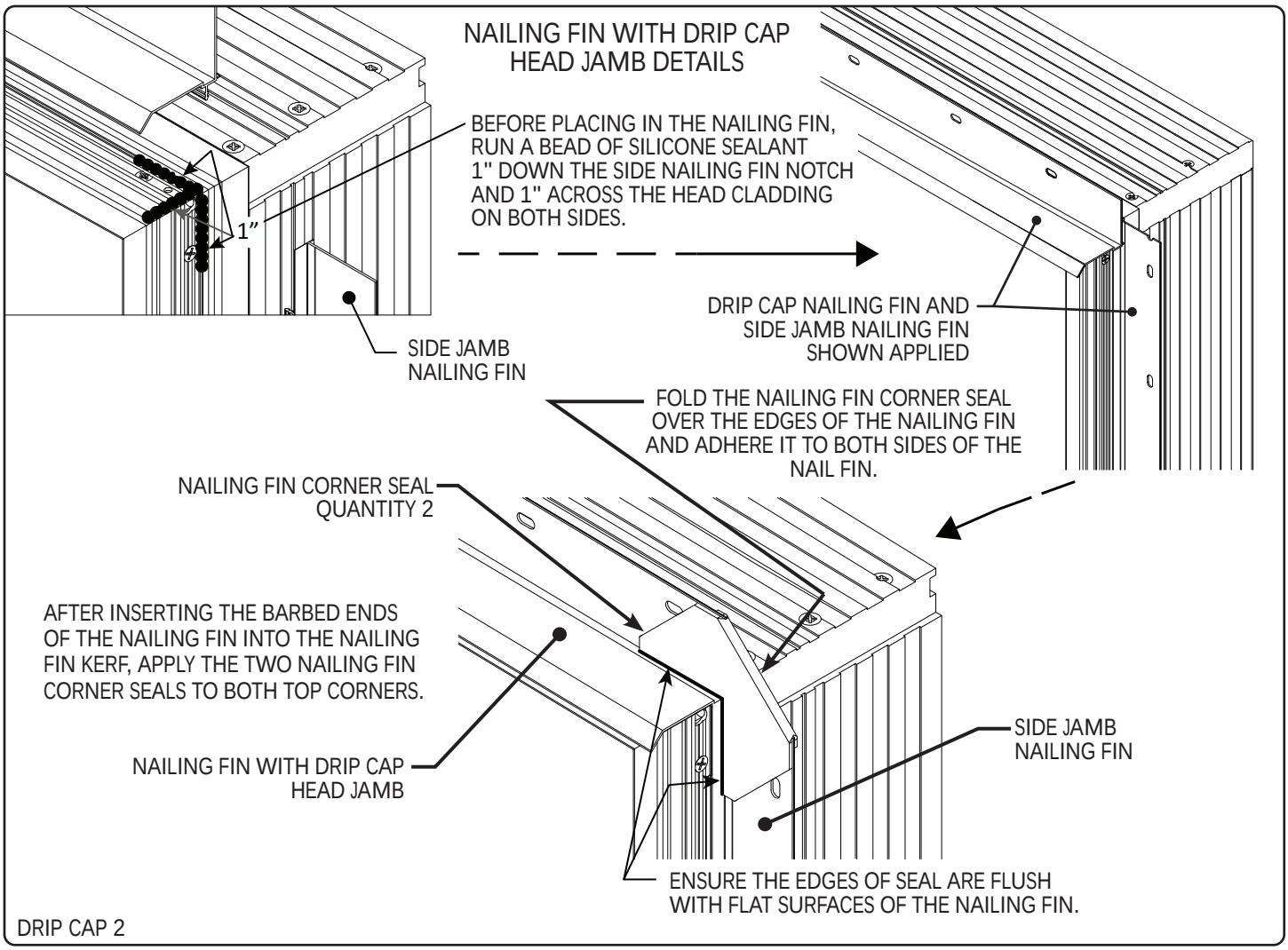
DRIP CAP APPLICATION FOR ULTRA SERIES AND VISTALUXE WD PRODUCTS

A drip cap must be installed/applied to direct water away from the window or door. *(This is required by most building codes and a requirement of proper installation for all Kolbe products.)*

1. If a drip cap has not been applied, apply now, see detail DRIP CAP below.
2. Seal the ends of the drip cap to the window or door exterior head jamb, as shown in the DRIP CAP and DRIP CAP 2.
3. Seal between the drip cap and the exterior sheathing.
4. When using building wrap to cover the exterior sheathing, seal the wrap to the drip cap.

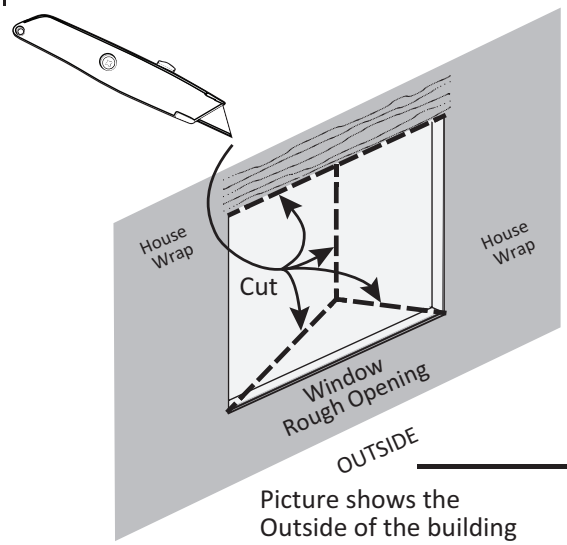






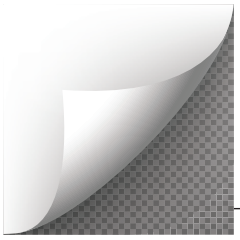
The following pages of instructions are for both windows and doors.

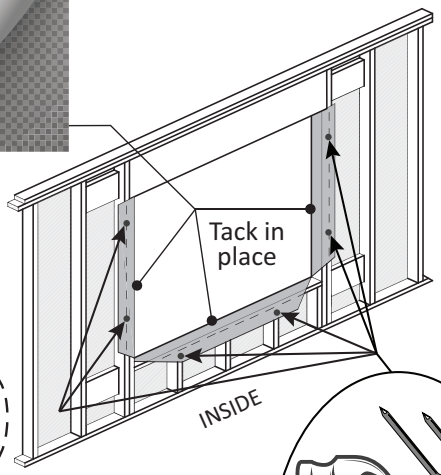
Start



Picture shows the Outside of the building

2

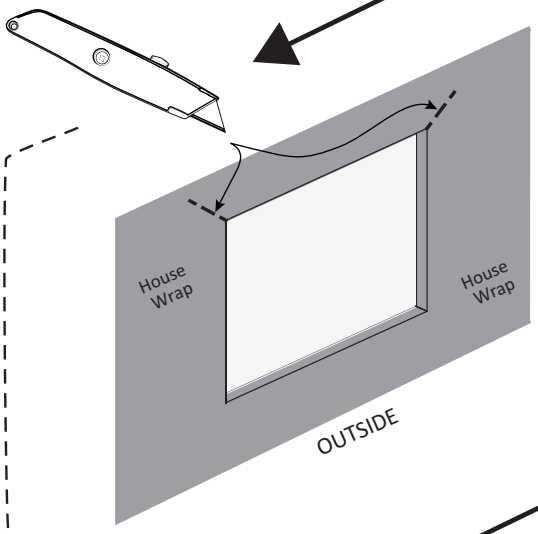


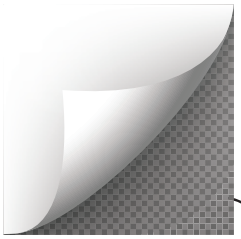


Picture shows the Inside of the building

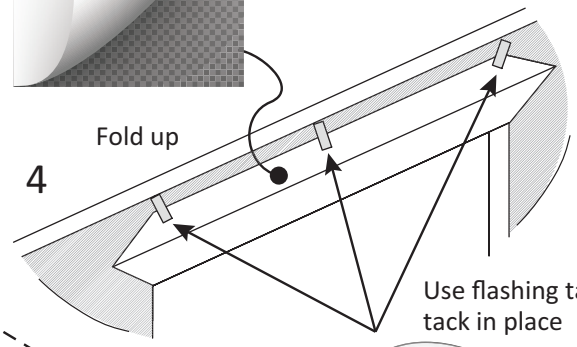
3

Cut approximately 9” cuts
45 degree from each corner



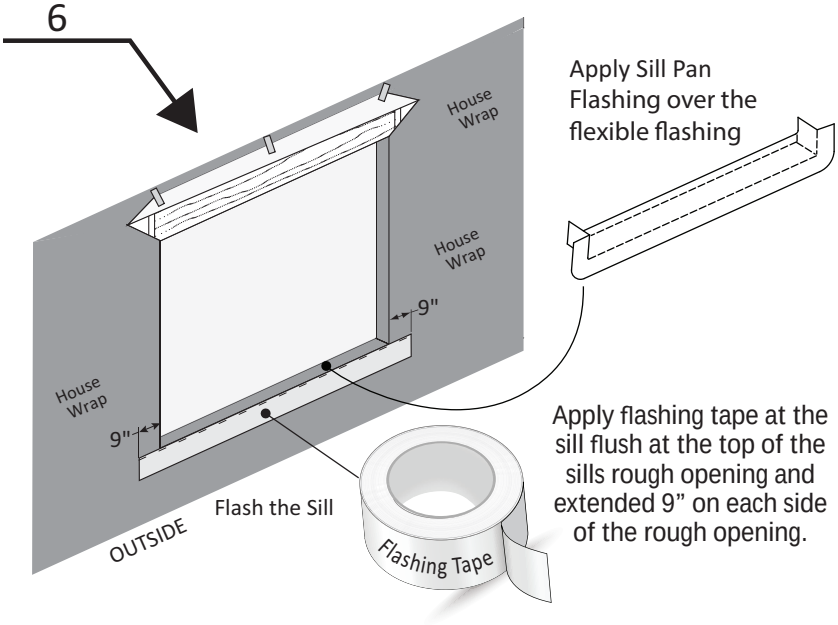


4

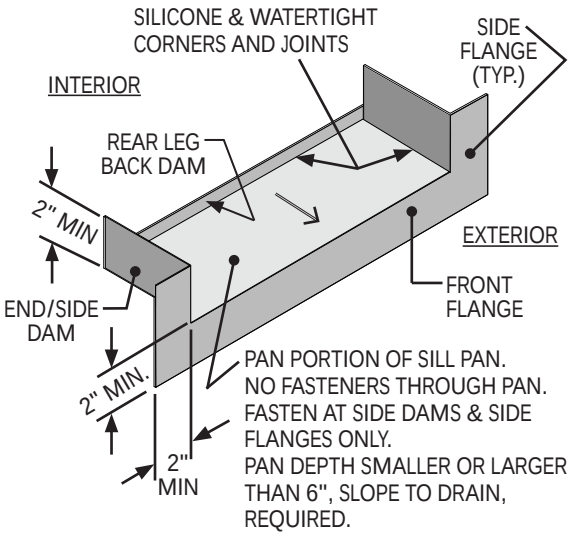


5

6



6A Typical Sill Pan Configuration



DOOR SILL SEALANT AND SILL PANS

Please Note: Seal and flash the head and jambs of the rough opening according to the previous instructions, EXCEPT for the sill.
Follow the instructions for the sill as described below.

Sill Pan Installation (If Applicable)

Notes: If the door doesn't have a sill, a sill pan is not required, however can be installed.

- Sill pans can be flexible self-adhering flashing with corner patches, single-piece, multi-piece, or one-piece rigid.
- When applicable, Kolbe recommends using a sill pan during door installation.
  Ensure compliance with ASTM E 2112-23 standards when creating and installing the sill pan.

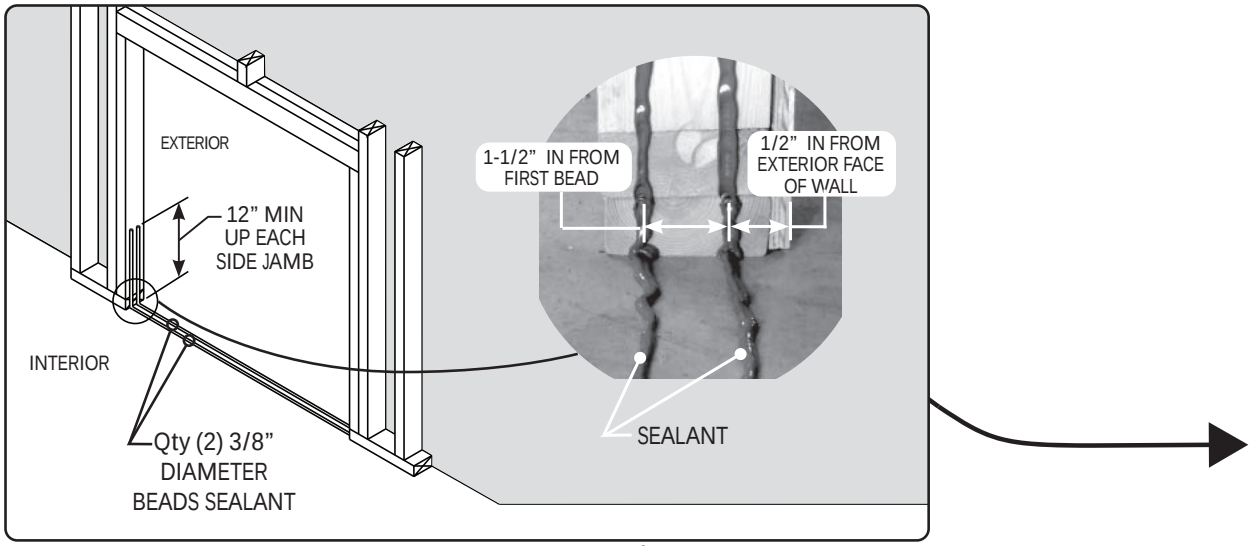
When a sill pan is used, the following requirements must be met, also see 6A above:

- The sill pan flashing must be properly integrated with the water-resistant barrier and other flashing materials.
- The sill pan flashing should not slope towards the interior.
- The height of the rear upturned leg (back dam) of the sill pan must be appropriate for the product being installed.

Apply sealant to rough opening sill when no sill pan is used (7):

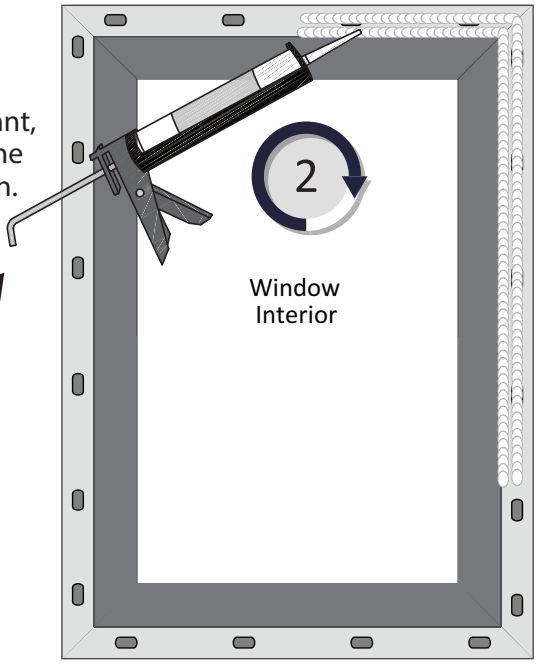
Run two 3/8" (10mm) diameter beads of sealant across the entire width of the subfloor and up each side jamb a minimum of 12" (305mm), allowing the sealant to pool in the corners. Run the first bead 1/2" (13mm) in from the exterior face of the wall, and run the second bead 1-1/2" (38mm) in from the first bead.

7

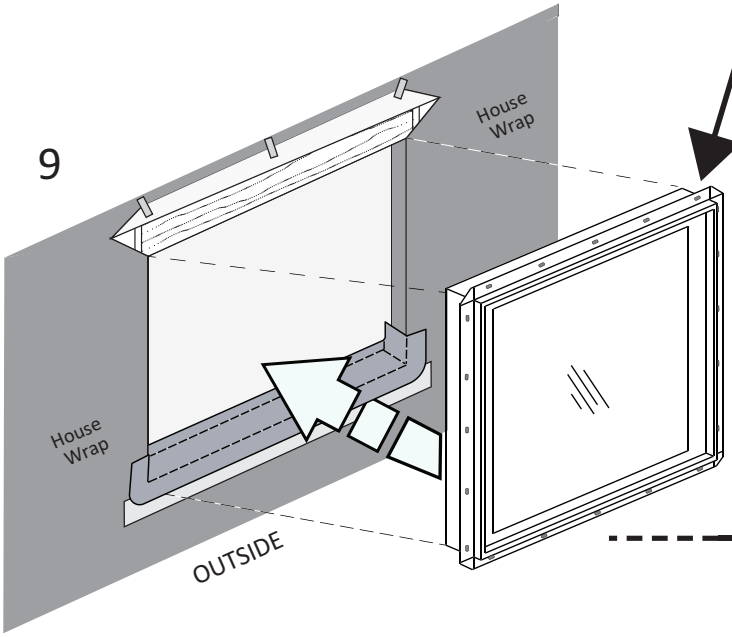


8

Apply 2 Rows of Sealant, all the way around the interior of the nail fin.



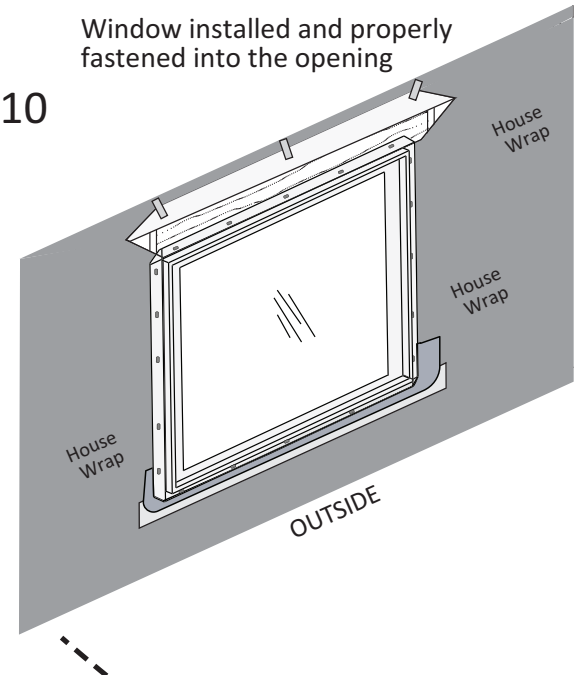
9



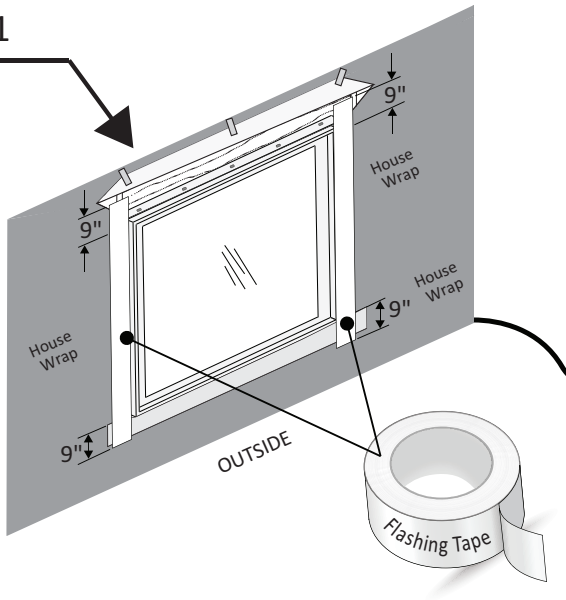
Install the window into the rough opening.
Follow Kolbe instructions to secure window into the opening.

Window installed and properly fastened into the opening

10

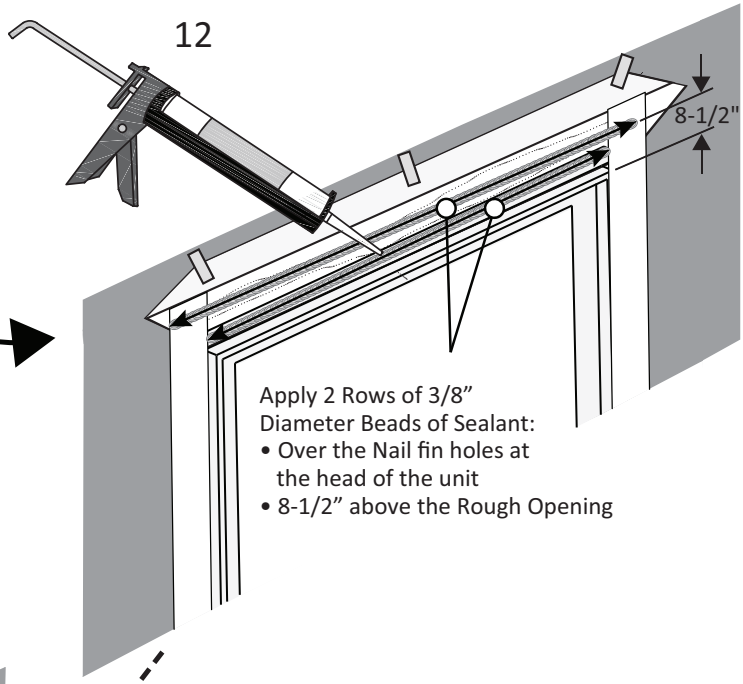


11



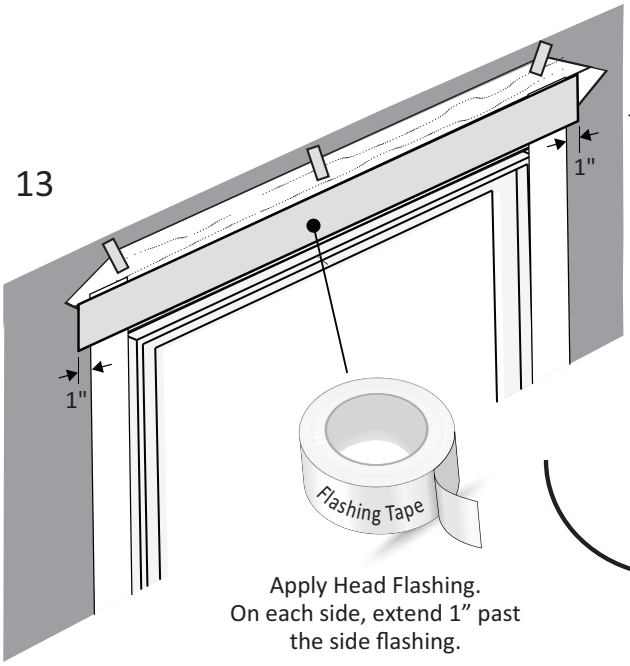
Apply self-adhering flashing tape at the jambs. 9” beyond the top and 9” beyond the bottom of the rough opening.

12



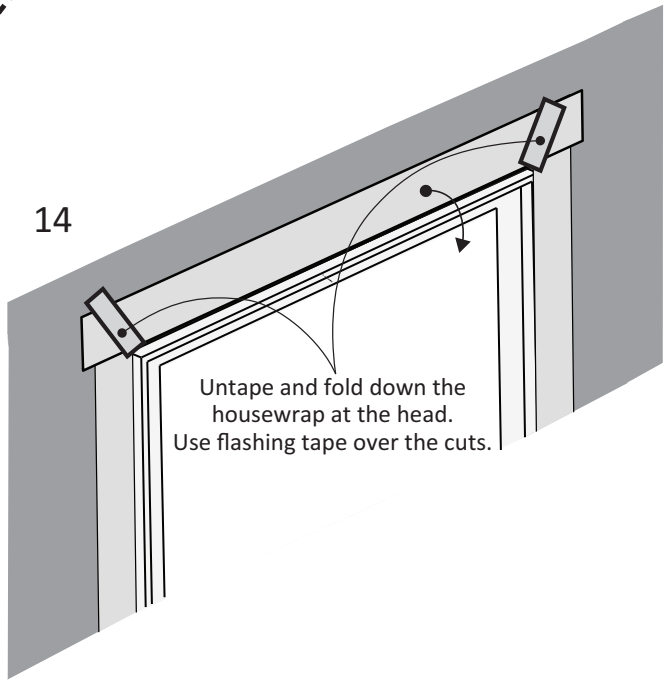
Apply 2 Rows of 3/8” Diameter Beads of Sealant:
- Over the Nail fin holes at the head of the unit
- 8-1/2” above the Rough Opening

13



Apply Head Flashing. On each side, extend 1” past the side flashing.

14



Untape and fold down the housewrap at the head. Use flashing tape over the cuts.

THANK YOU
FOR PURCHASING KOLBE PRODUCTS

Kolbe & Kolbe Millwork Co., Inc. reserves the right to change specifications without notice.

Contact your Kolbe window and door supplier or visit us at www.kolbewindows.com for further information.