

Installation Guide

for Andersen® Architectural Exterior Clad Outswing
Coastal Patio Doors

Andersen®
architectural
windows and
doors

INSTALLER: Please leave this guide with the building owner to file for future reference.

Congratulations! You have just purchased one of the many fine Andersen® products. Proper assembly, installation and maintenance are essential if the benefits of your Andersen product are to be fully attained. Therefore, please read and follow this instruction guide completely. If your abilities do not match this procedure's requirements, contact an experienced contractor. You may direct any questions about this or other products to your local Andersen dealer, found in the Yellow Pages under "Windows" or call Andersen WindowCare® service center at 1-888-888-7020 Monday through Friday, 7 a.m. to 7 p.m. Central Time and Saturday, 8 a.m. to 4 p.m. Central Time. Thank you for choosing Andersen.

Important Safety, Assembly, and Installation Information

Every assembly and installation is different (windloads, structural support, etc.). Andersen strongly recommends consultation with an Andersen supplier or an experienced contractor, architect, or structural engineer prior to the assembly and installation of any Andersen product. Andersen has no responsibility in regard to the post-manufactured assembly and installation of Andersen products.

⚠ WARNING

Use caution when working at elevated heights and around unit openings. Follow manufacturers' instructions for ladders and/or scaffolding. Failure to do so may result in injury or death.

⚠ WARNING

Follow manufacturers' instructions for hand or power tools. Always wear safety glasses. Failure to do so may result in injury and/or product damage.

⚠ WARNING

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

⚠ WARNING

Unless specifically ordered, Andersen windows and doors are not equipped with safety glass, and if broken, could fragment causing injury. Many laws and building codes require safety glass in locations adjacent to or near doors. Andersen windows and doors are available with safety glass that may reduce the likelihood of injury when broken. Information on safety glass is available from your local Andersen dealer.

⚠ CAUTION

- Factory supplied Head Flashing and Installation Flanges **DO NOT** take the place of standard window and door flashing. Unit must be properly flashed and sealed with silicone for protection against water and air infiltration. Use non-reflective flashings.
- Do not apply any type of film to glass. Thermal stress conditions resulting in glass damage could occur.
- Use of movable insulating materials such as window coverings, shutters, and other shading devices may damage glass. In addition, excessive condensation may result causing deterioration of windows and doors.

⚠ WARNING

Metal fasteners and other hardware components may corrode when exposed to preservative treated and fire-retardant treated lumber. Obtain and use the appropriate metal fasteners and hardware as called out by the installation guide to fasten unit to any rough opening made from pressure treated and fire-retardant treated lumber. Failure to use the appropriate materials for the installation may cause a failure resulting in injury, property or product damage.

⚠ WARNING

DO NOT carry door unit horizontally, interior side down. Door panels may swing open causing product damage and/or severe injury.

CAUTION

Follow instructions from foam, sealant and flashing manufacturer regarding material application and compatibility with this product.

Parts Included

- (1) Installation Guide
- (1) Care, Finish & Maintenance Guide
- (1) Door Unit
- (1) Screw Pack
- (4) Corner Gaskets
- (1) Multi-Point Lock Set

Tools Needed

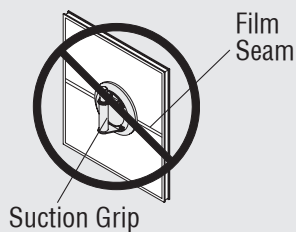
- Safety Glasses
- Tape Measure
- 4' Level
- Pry Bar
- Caulk Gun
- Putty Knife
- Drill/Driver
- Staple Gun
- Utility Knife
- $\frac{3}{16}$ " Drill Bit
- $\frac{1}{8}$ " Drill Bit
- $\frac{3}{8}$ " Counterbore

Supplies Needed

- Formable Self-adhering Sill Flashing
- Flashing
- House Wrap Tape
- Drip Cap (full width)
- Shims (waterproof)
- Foam Backer Rod
- Staples
- Low Expanding Foam
- Sealant
- $\frac{3}{8}$ " Wood Plugs
- Fasteners (Stainless Steel, if required)
 - #10 x 1 $\frac{1}{2}$ " Screws
 - #10 x 2 $\frac{1}{2}$ " Screws
 - #10 x 3" Screws

Glass

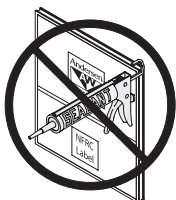
⚠ WARNING



Suction grips will not hold if placed over seam of film to lift or move unit. Unit will fall causing damage or injury.

- Laminated safety glass is not standard and must be special ordered. Check local building codes.
- Leave protective film in place until after construction is finished. Leave (NFRC) performance label in place until final inspection.
- Argon gas blend not available with high altitude glass.

CAUTION



Sealants will damage exterior coating on glass.

Film Removal

⚠ WARNING

Static created when removing film can ignite flammable materials or cause a shock.

See warning label on glass.



- Remove protective film from seam or corner using plastic scraper if needed.
- Remove protective film within nine months of installation and when temperature is above 32° F.

⚠ WARNING

Dispose of film immediately after removal. Film may pose suffocation hazard to children.

Cleaning

CAUTION

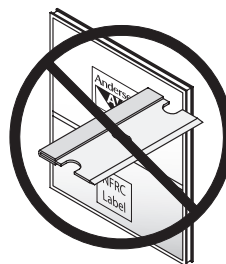
Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.

- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.

CAUTION

Abrasive cleaners will damage glass surface.

CAUTION



Metal razor blades can damage glass surface and exterior coating.

Maintenance

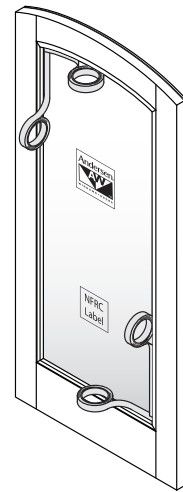
- Do not apply any type of film to insulated glass. Thermal stress and glass damage can result. Shading devices (insulated covers, shutters, etc.) may also cause thermal stress and condensation damage.
- For more information contact your local Andersen dealer or visit www.andersenwindows.com.

Finishing

CAUTION

Finish wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and/or may bow and split.
Do not stain or paint weatherstrip, vinyl, glass, or hardware. Product damage may occur.

- Film is not a substitute for masking.



- Apply interior casing to complete installation.
- Finish all hidden wood surfaces
- Do not overload brush with stain/paint when finishing. Finish may wick between glass stop/grille on glass.
- Read and follow “Care, Finish, and Maintenance Guide”.
- **Read and follow finishing product instructions and warnings on finishing materials.**

1. Unit Preparation

⚠ WARNING

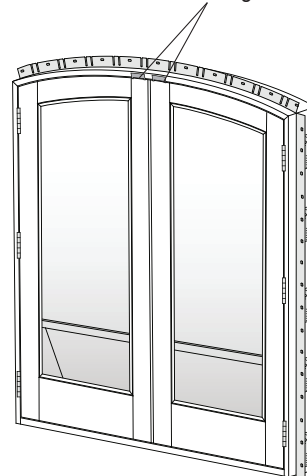
Door panels must be secured in closed position until unit is installed. **DO NOT** remove Steel Locking Brackets or Gussets until unit is secured in opening. Failure to do so may result in door panel inadvertently opening causing injury, property, and/or product damage.

CAUTION

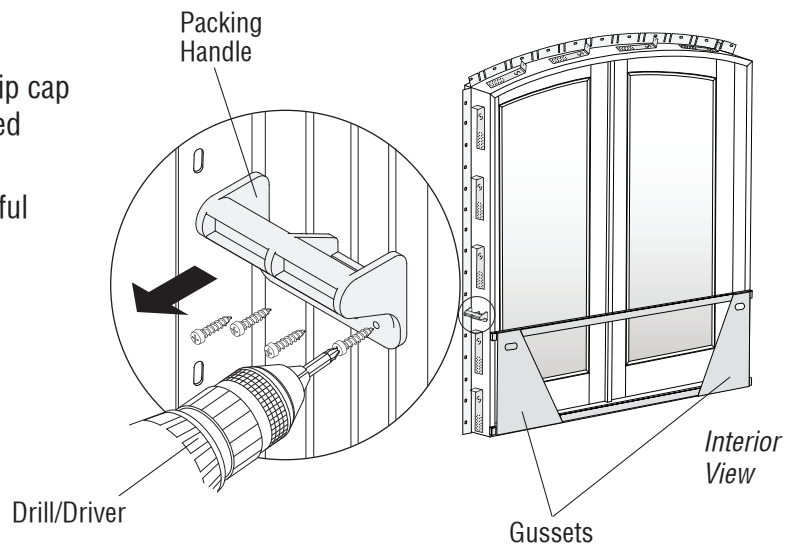
Gussets keep door unit square until installed. **DO NOT** remove Gussets until unit is secured in opening. Failure to do so may effect product performance.

- Remove unit from packaging.
- Remove loose items such as interior trim or drip cap (full width). Extension jambs are factory applied unless ordered loose.
- Remove shipping braces, if needed, being careful not to damage unit. **DO NOT** remove *Steel Locking Brackets* or *Gussets* from the interior side of unit until secured in rough opening.
- Remove packing handles and discard.

Steel Locking Brackets



Exterior View



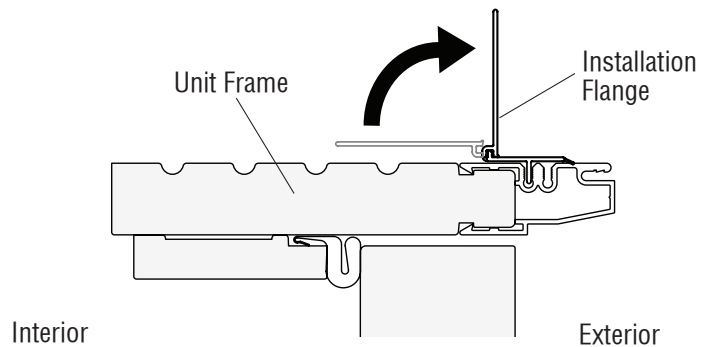
Interior View

Gussets

2. Apply Corner Gaskets

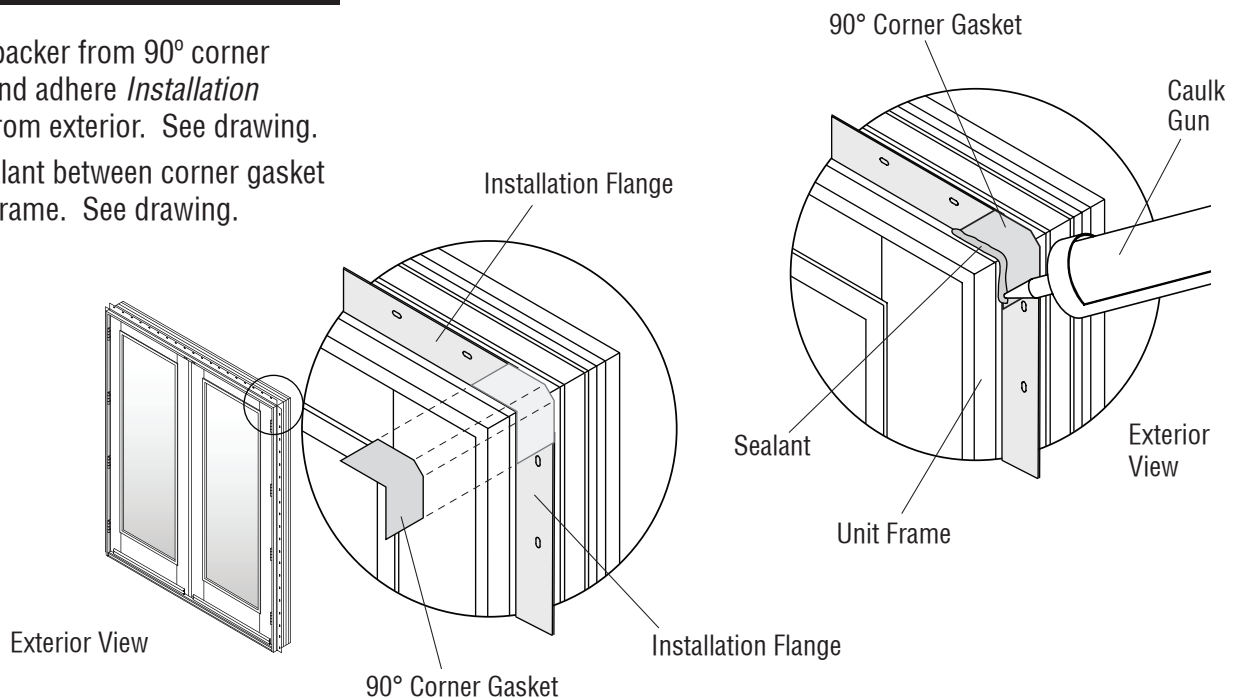
If Corner Gaskets are installed, proceed to next step.

- Lift *Installation Flanges* and snap into position perpendicular to frame. Not required on curved frame section(s).



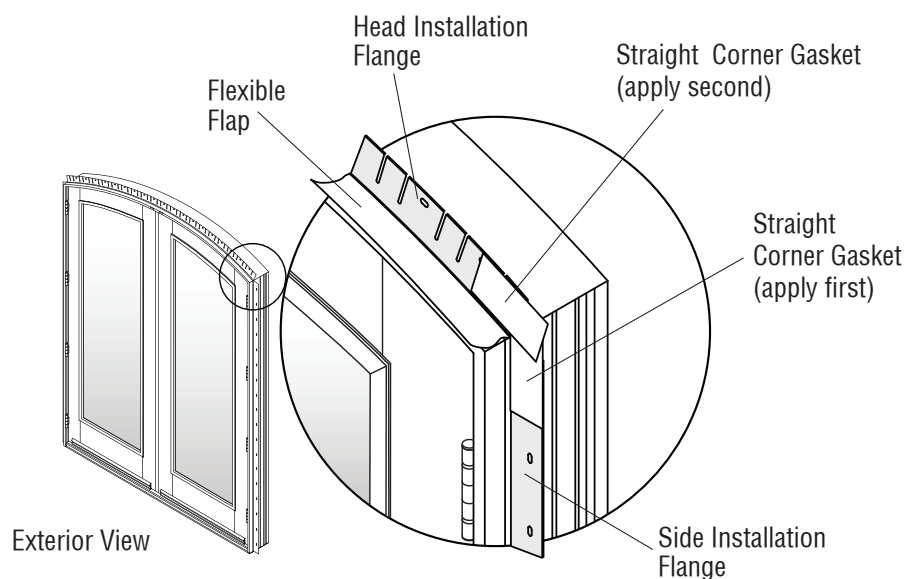
90° Corners

- Remove backer from 90° corner gaskets and adhere *Installation Flanges* from exterior. See drawing.
- Apply sealant between corner gasket and unit frame. See drawing.



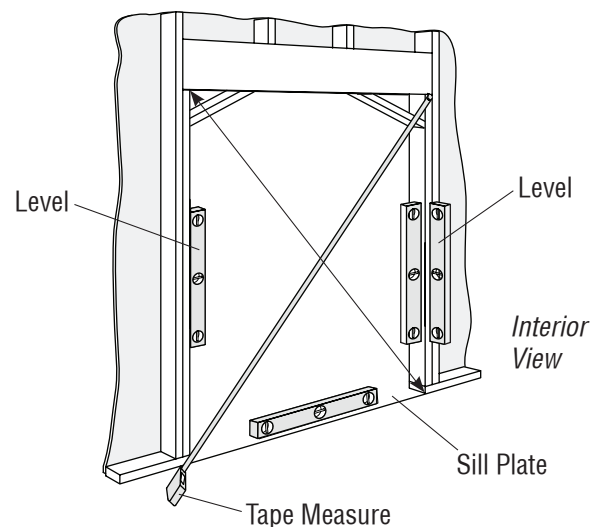
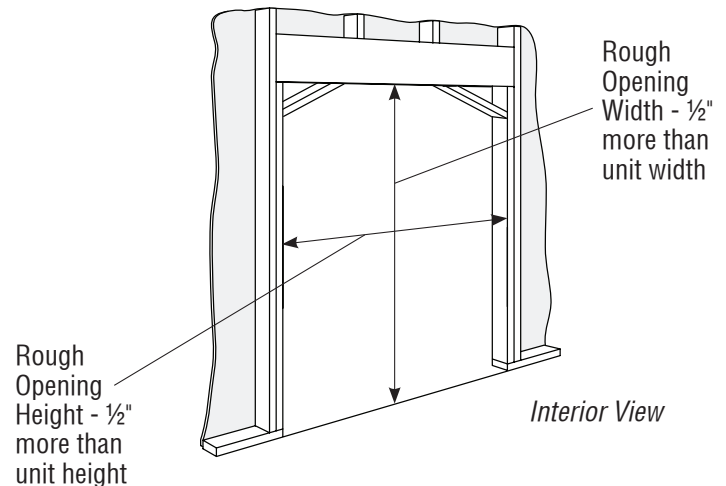
Non-90° Corners

- Remove backer from straight corner gaskets.
- Adhere first straight corner gasket to side jamb *Installation Flange* extending half the gasket between head and side *Installation Flanges* from exterior.
- Adhere second straight corner gasket to head *Installation Flange* overlapping onto first straight corner gasket from exterior.
- Apply sealant between corner gaskets and unit frame.



3. Prepare Rough Opening

- Width of rough opening should be $\frac{1}{2}$ " more than unit width. Height of rough opening should be $\frac{1}{2}$ " more than unit height. Allow for flashing thickness.
- Check sill plate for level. Sill **must** be level. Shim if needed.
- Check rough opening for plumb and level. If rough opening is **not** plumb or level, correct as needed.
- Check rough opening for square by measuring diagonally across, upper left to lower right and upper right to lower left corner. If measurements are within $\frac{1}{8}$ ", opening is square. If rough opening is **not** square, correct as needed.



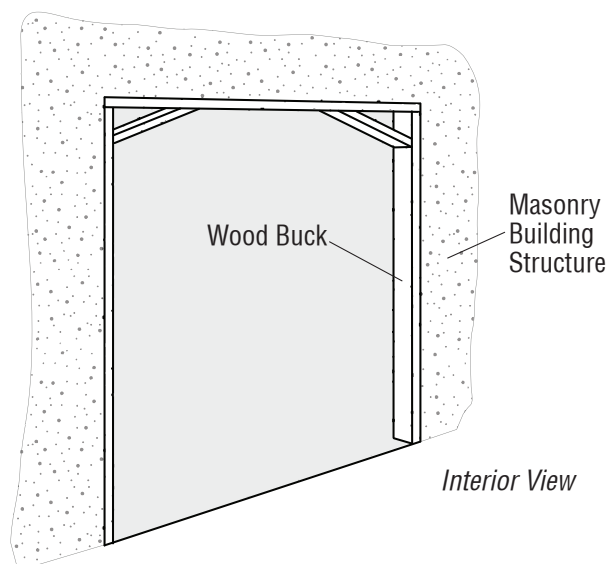
Masonry Construction

CAUTION

DO NOT install unit with unfinished wood in direct contact with masonry/concrete. Apply proper finish to wood surface, or place barrier (i.e. tar paper or ice/water membrane) between wood and masonry/concrete surface. Failure to do so may result in product and/or property damage.

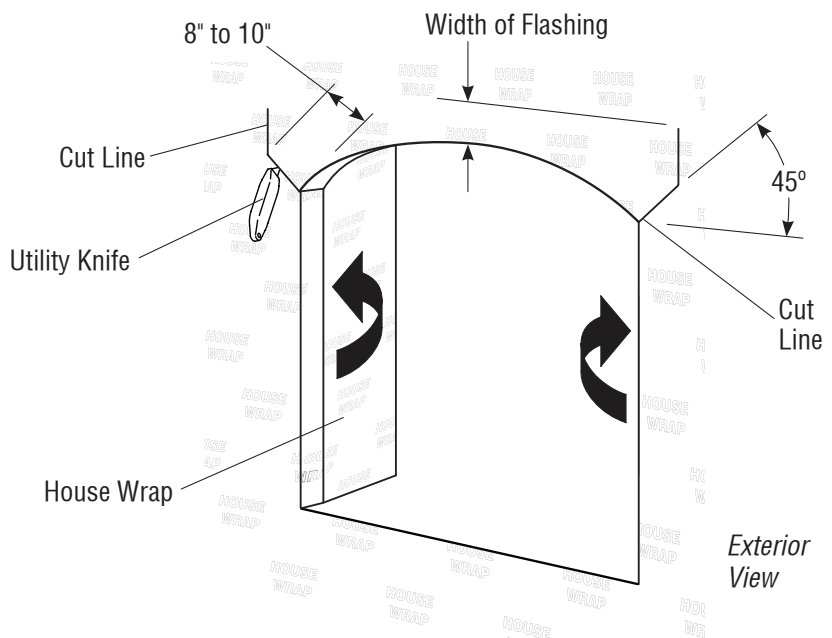
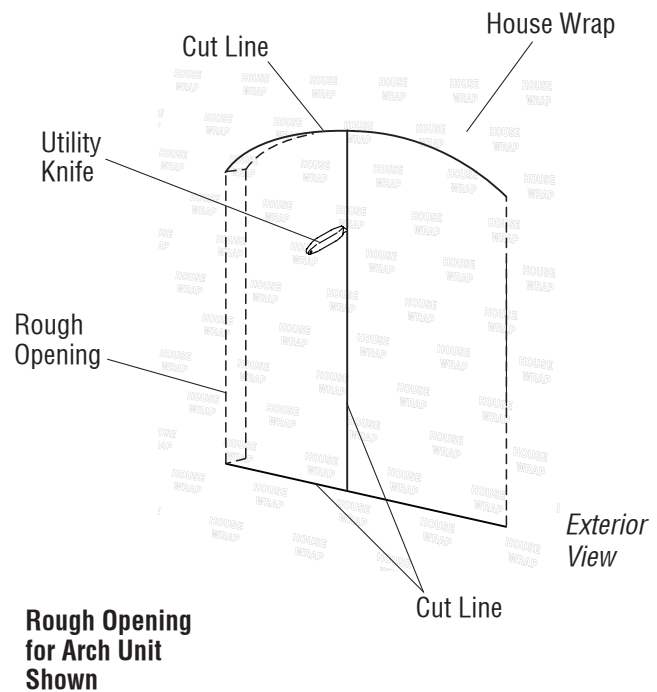
NOTICE

For masonry applications, install and securely fasten a wood buck around masonry opening before installing the door unit. If securing directly to masonry/concrete use masonry screws.



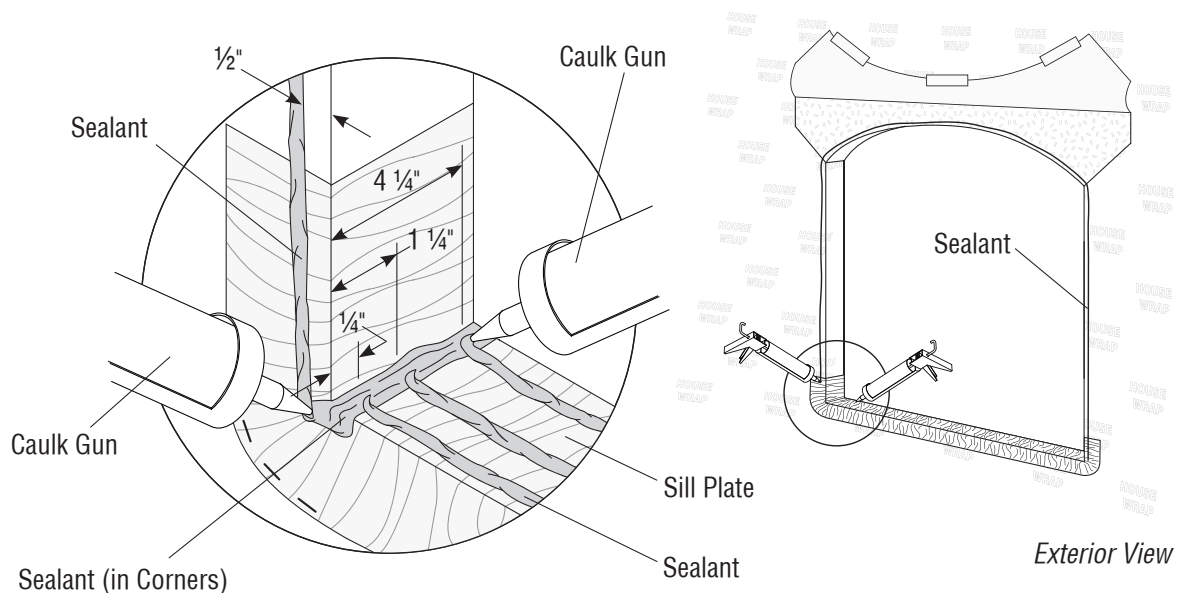
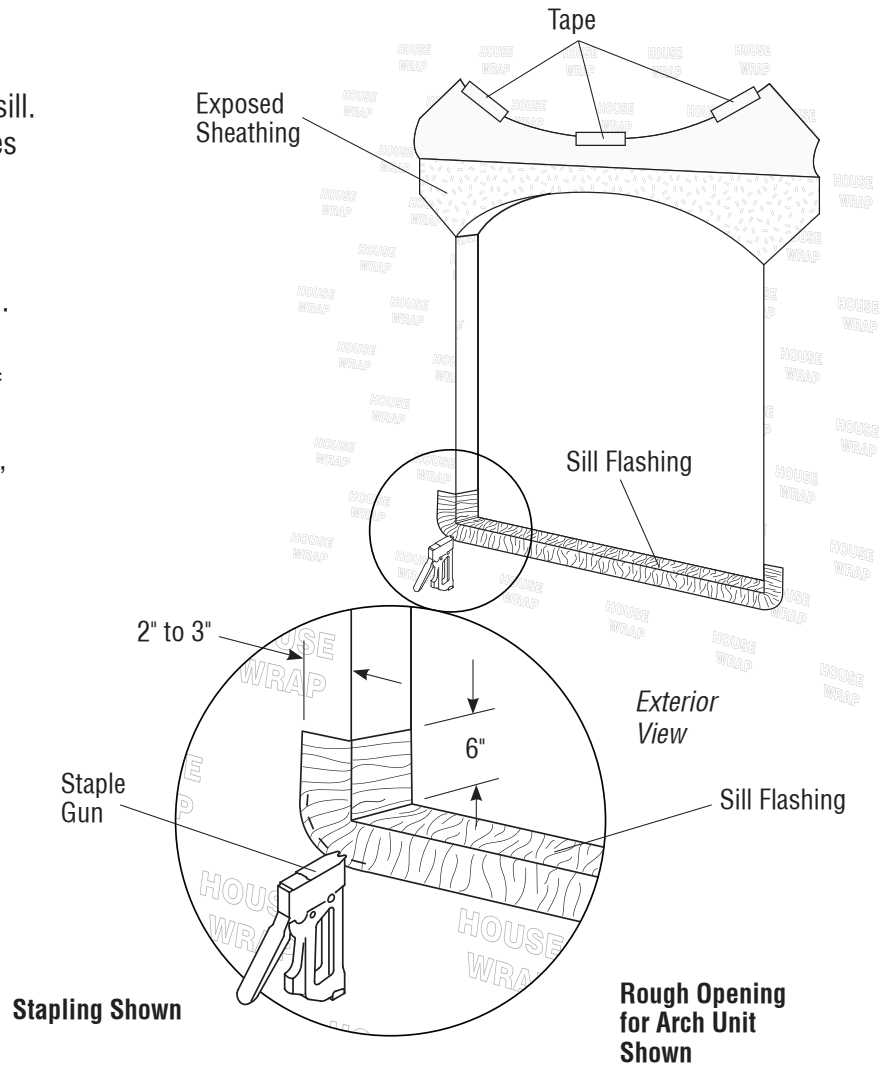
3. Prepare Rough Opening (continued)

- Cut house wrap along sill and head of rough opening.
- Cut house wrap vertically in center of rough opening from head to sill.
- Fold house wrap around to inside, trim excess and staple.
- Cut top corners of house wrap on 45° angles the width of head flashing. For arch top and Springline™ units, cut top corners on 45° angle for 8" to 10" then cut straight up until the cuts equal the width of the head flashing above the unit. See drawing.
- Fold flap up and temporarily tape in position.
- Apply sill flashing to rough opening sill. Keep sill flashing 6" above sill at sides and 2" to 3" onto house wrap around exterior.
- Secure corners of sill flashing by stapling, taping or nailing in position. Stapling shown in drawing.



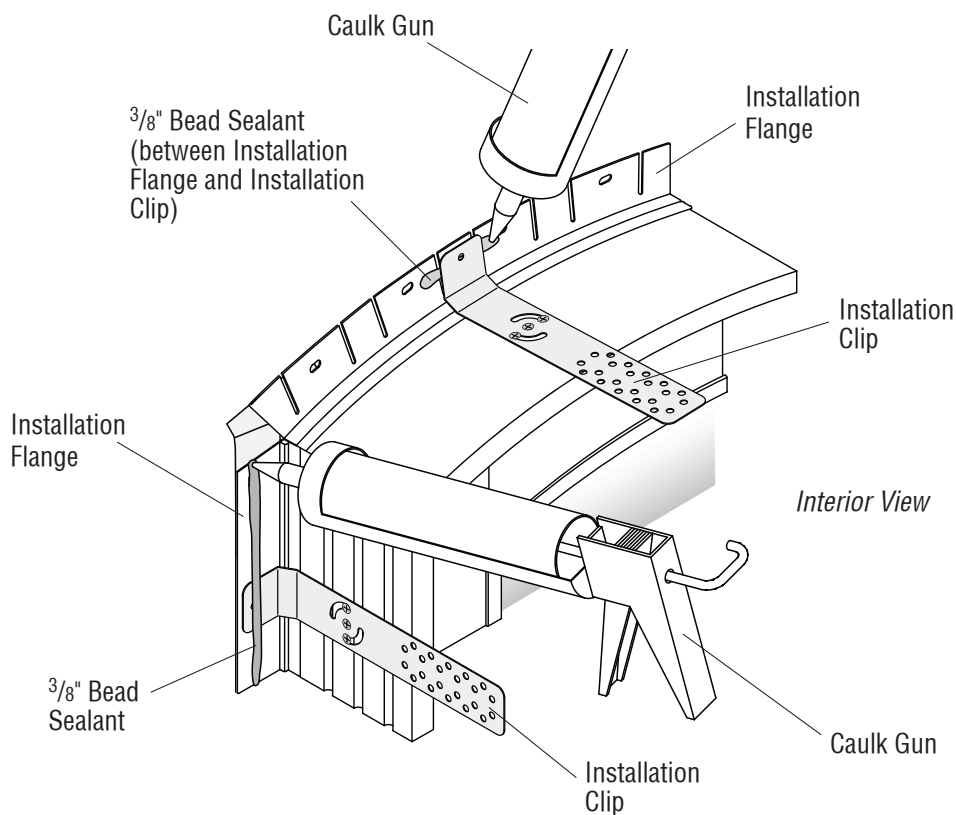
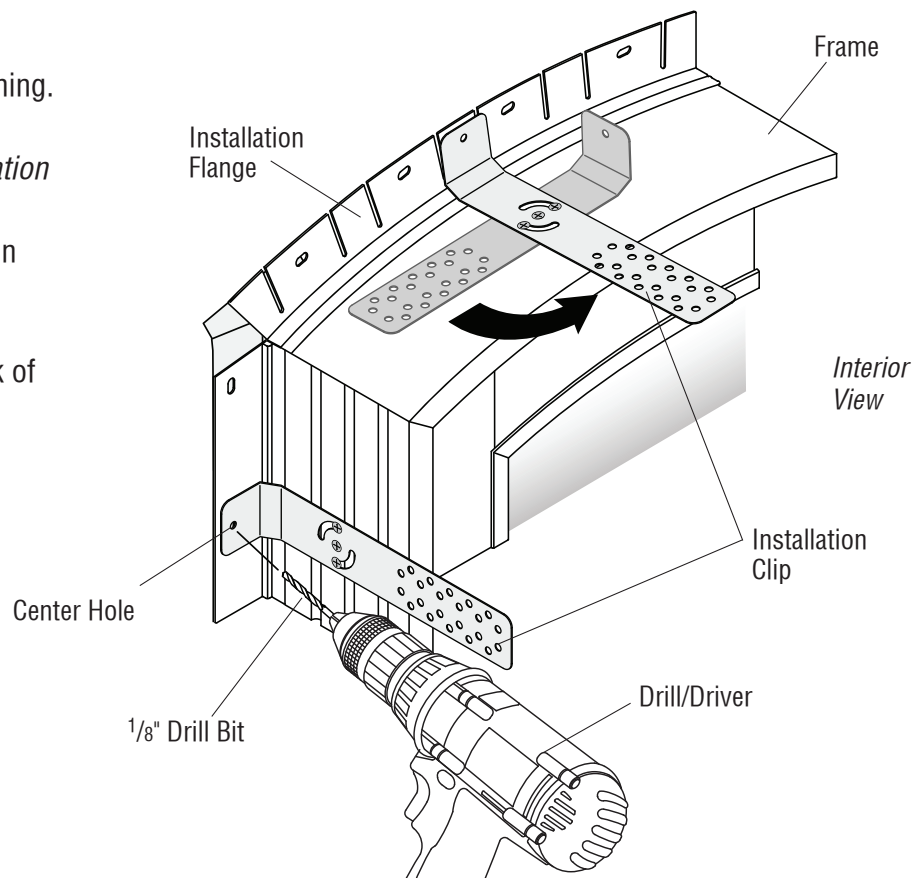
3. Prepare Rough Opening (continued)

- Fold flap up and temporarily tape in position.
- Apply sill flashing to rough opening sill. Keep sill flashing 6" above sill at sides and 2" to 3" onto house wrap around exterior.
- Secure corners of sill flashing by stapling, taping or nailing in position. Stapling shown in drawing.
- Apply three, continuous $\frac{3}{8}$ " beads of sealant along sill plate of rough opening full length. Space beads $\frac{1}{4}$ ", $1\frac{1}{4}$ ", and $4\frac{1}{4}$ " from exterior edge.
- Apply a liberal amount of sealant in bottom corners.
- Apply a continuous $\frac{3}{8}$ " bead of sealant, around exterior sides and top of rough opening, $\frac{1}{2}$ " from rough opening edge.



4. Position Installation Clips

- Rotate *Installation Clips* 90° into position around frame, as shown, before placing unit into rough opening.
- Drill $\frac{1}{8}$ " hole through *Installation Flange* using center hole in *Installation Clips* as guide. See drawing.
- Apply a $\frac{3}{8}$ " bead of sealant between *Installation Flange* and *Installation Clips*. See drawing.
- Apply a $\frac{3}{8}$ " bead of sealant to back of *Installation Flanges*. Apply extra sealant around corners.



5. Install Unit

⚠ WARNING

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

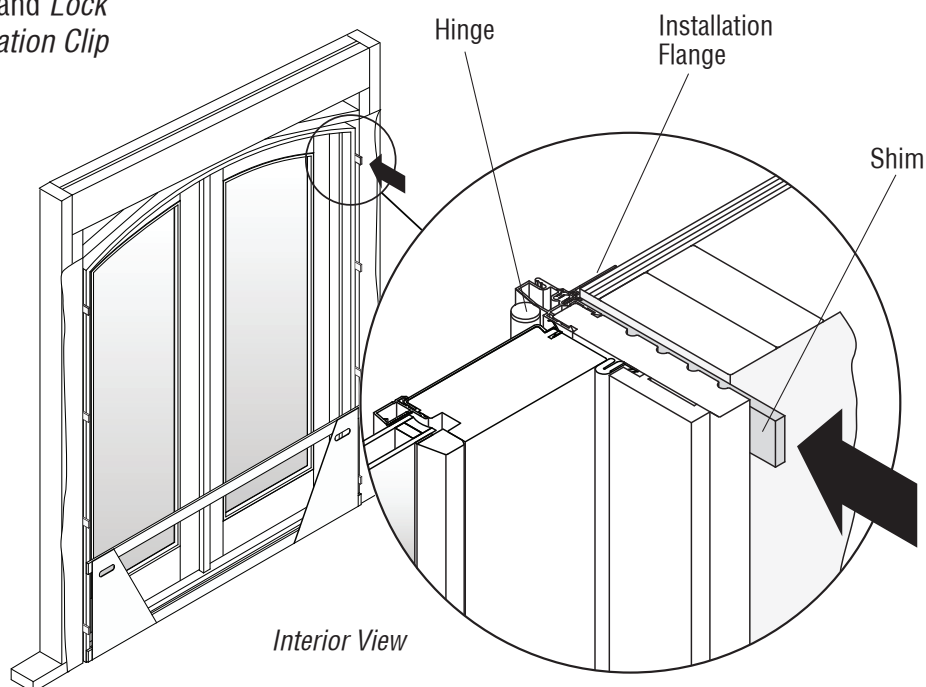
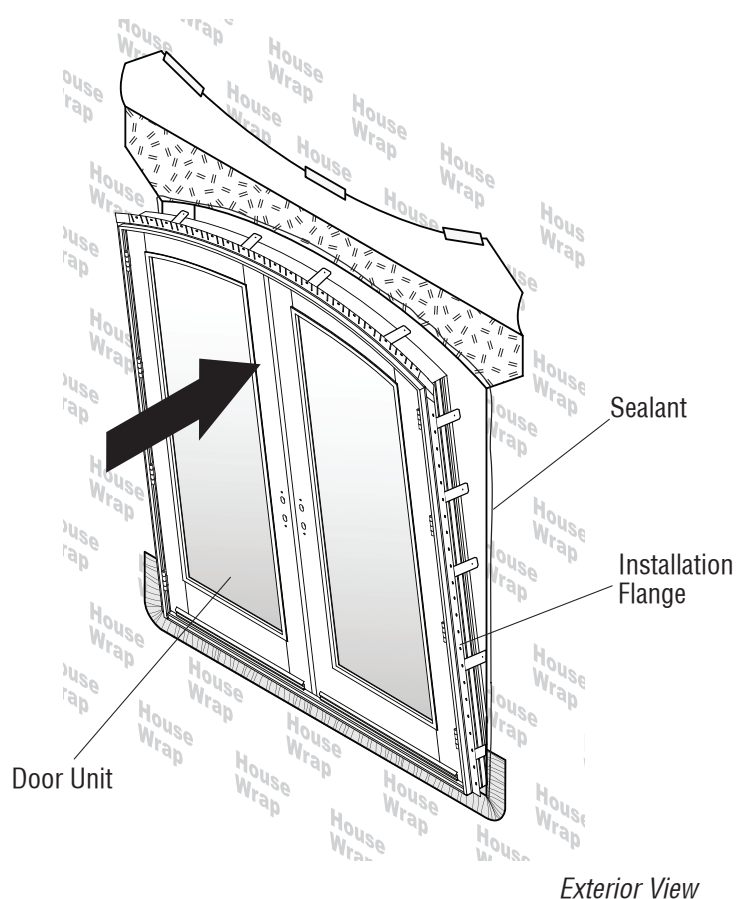
⚠ WARNING

Door panels must be kept secured in closed position. Unsecured door panels may swing open causing injury.

⚠ WARNING

Support unit in rough opening at all times until secured. Failure to do so may result in door falling out causing injury, property, and/or product damage.

- Lift and center unit in rough opening, set sill of unit onto sealant, from the exterior.
- Push top in until *Installation Flange* is firmly pressed into sealant around perimeter of rough opening. *Installation Flange* must be flush with exterior of opening.
- Insert shims between rough opening and door unit, directly behind *Hinges* and *Lock Receivers* and beside each *Installation Clip* from the interior. Shims must be tight to *Installation Flange*.



5. Install Unit (continued)

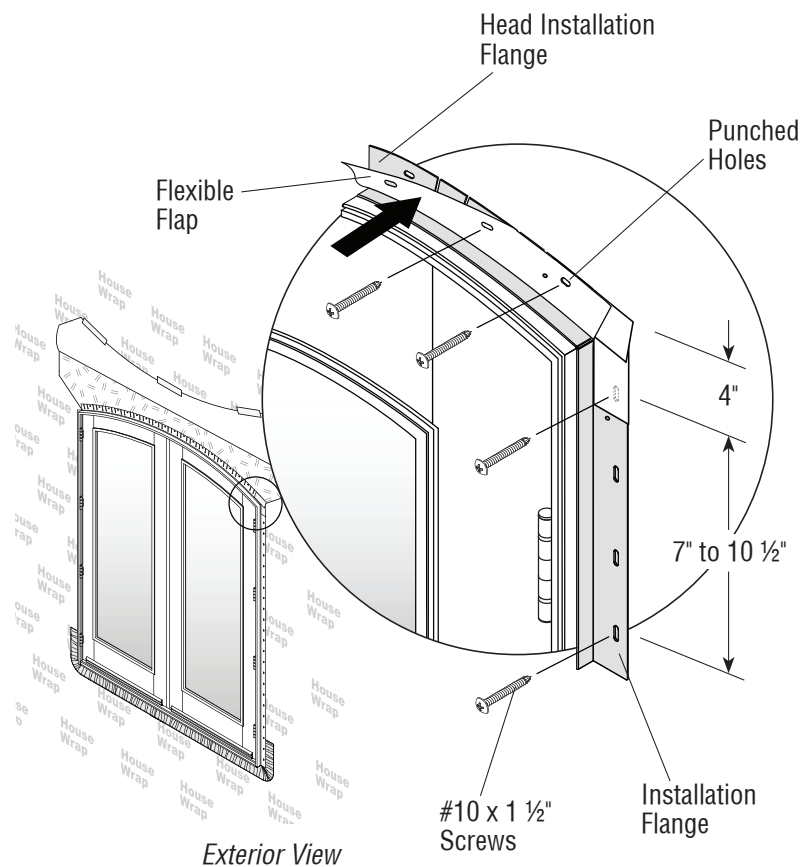
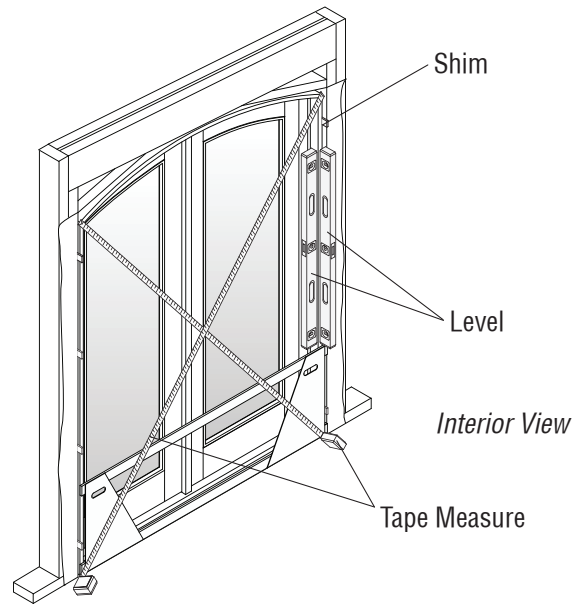
CAUTION

A minimum space of $\frac{1}{4}$ " is required around exterior perimeter of unit between unit and building framing. Failure to properly space product in opening may result in product and/or property damage.

NOTICE

Unit must be secured in the rough opening by fastening through installation flanges.

- Check unit for square by measuring diagonally, upper left to lower right and upper right to lower left corners. Both measurements must be within $\frac{1}{8}$ ". Adjust shims as needed.
- Unit must be plumb and level. Check unit for plumb and level using a level. Adjust shims as needed.
- Secure *Installation Flange* using #10 x $1\frac{1}{2}$ " screws, 4" (maximum) from each corner and every 7" to 10 $\frac{1}{2}$ " between (every 2nd or 3rd punched hole). If securing directly to masonry use $\frac{1}{4}$ " x $1\frac{1}{2}$ " masonry screws.
- For Springline™ and Arch units, flexible flap **must** be secured tight to *Head Installation Flange*. Hold flexible flap against *Head Installation Flange* before securing. Extra fasteners may be needed secure flexible flap to *Head Installation Flange*.

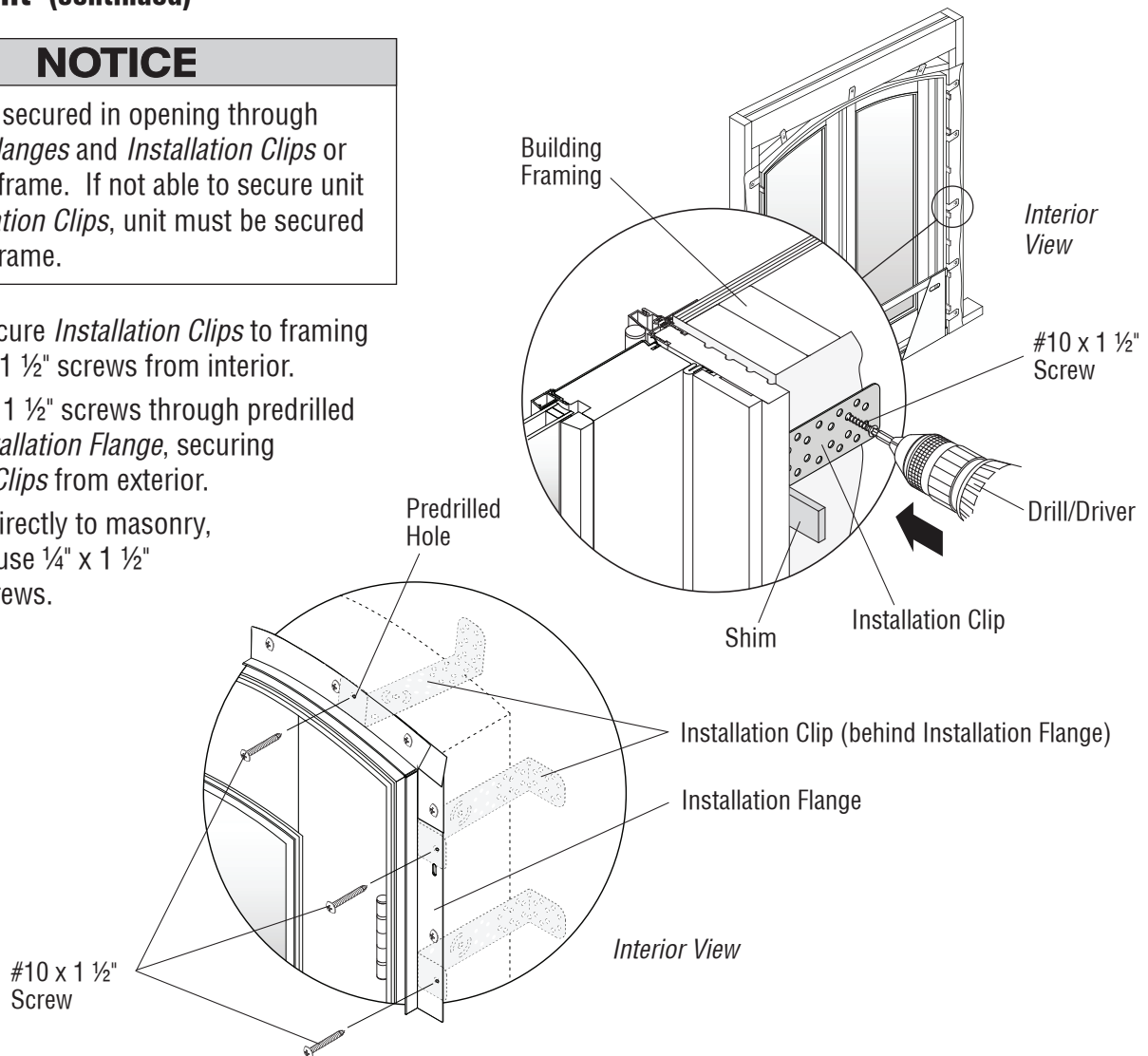


5. Install Unit (continued)

NOTICE

Unit must be secured in opening through *Installation Flanges* and *Installation Clips* or through unit frame. If not able to secure unit using *Installation Clips*, unit must be secured through the frame.

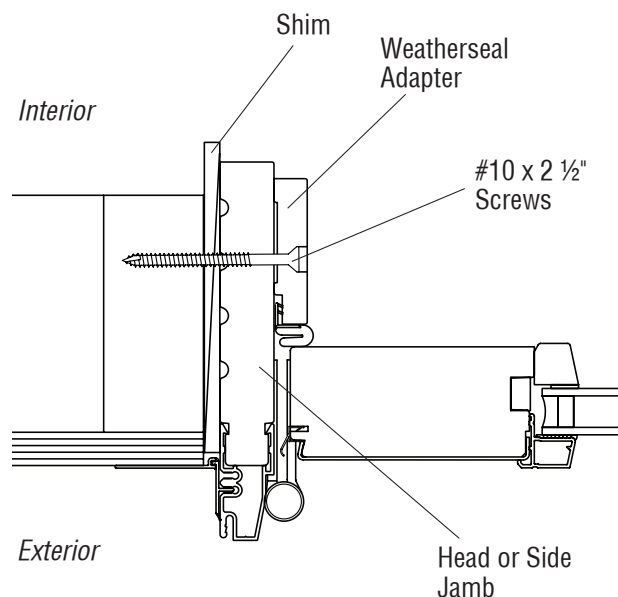
- Bend and secure *Installation Clips* to framing using #10 x 1 ½" screws from interior.
- Install #10 x 1 ½" screws through predrilled holes in *Installation Flange*, securing *Installation Clips* from exterior.
- If securing directly to masonry, predrill and use ¼" x 1 ½" masonry screws.



Secure Through Frame

If not securing through the frame, proceed to next step.

- If securing through frame, (where *Installation Clips* cannot be used) predrill ⅜" hole and counterbore through weatherseal adaptor around unit head and side jambs, 4" from each corner and every 16" between. See drawing for location.
- Insert shims between frame and rough opening behind ⅜" holes.
- Fasten through predrilled holes using #10 x 2 ½" screws.
- Check plumb, level, and square of unit. Adjust shims as needed.

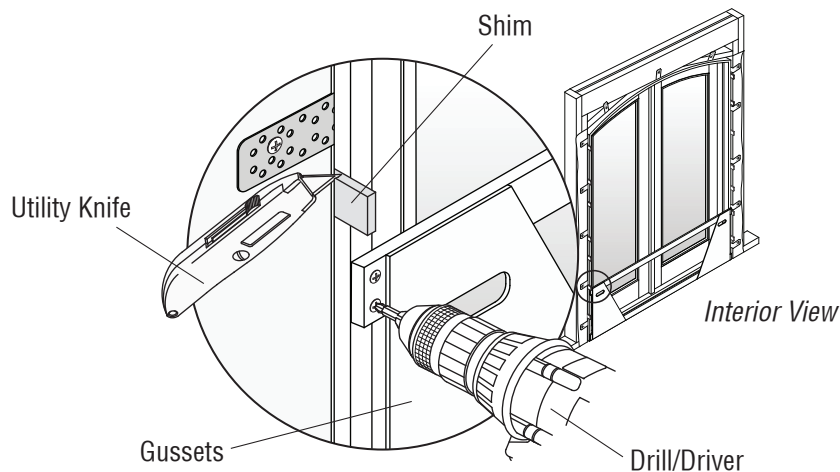
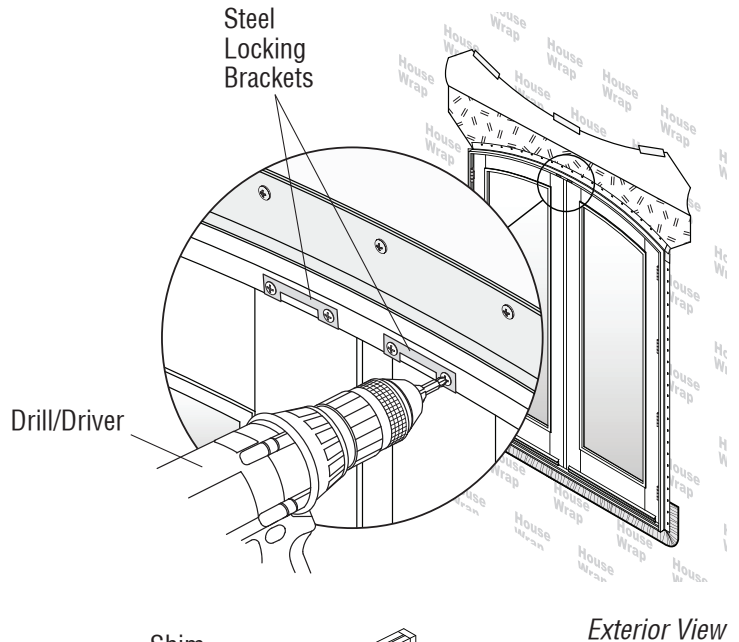


6. Remove Gussets and Brackets

CAUTION

Some units may have more than one Steel Locking Bracket. Remove all Steel Locking Brackets from frame before attempting to open door(s). Failure to do so may result in product damage.

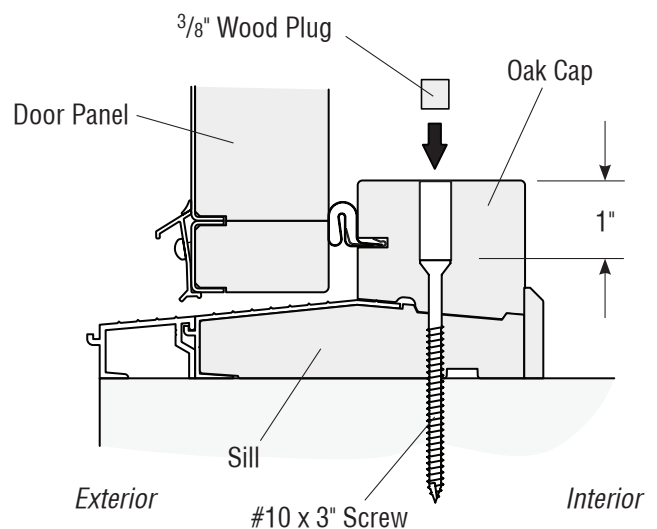
- Remove *Steel Locking Brackets* and *Gussets* from the door frame.
- Cut shims flush with door frame using a utility knife.
- Remove *Steel Locking Brackets* from door panels and discard.



7. Secure Sill, Keepers and Hinges

Securing Sill

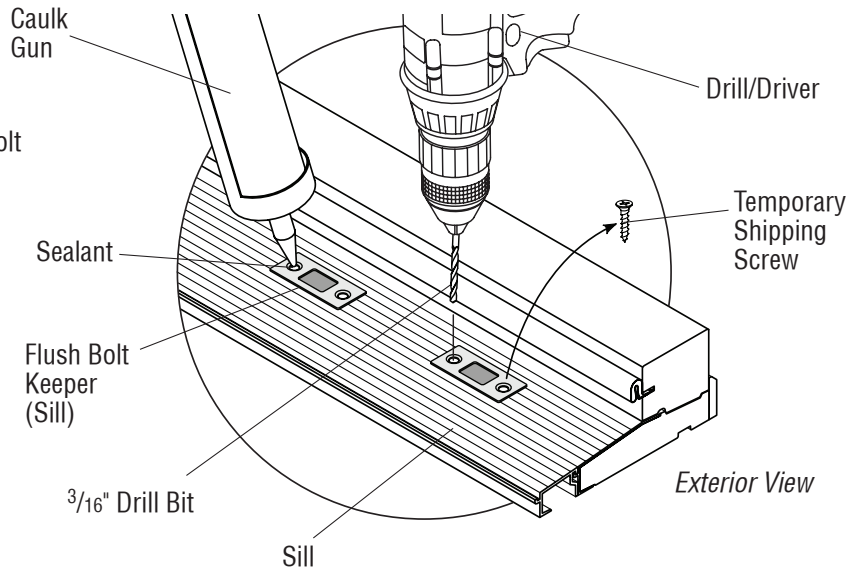
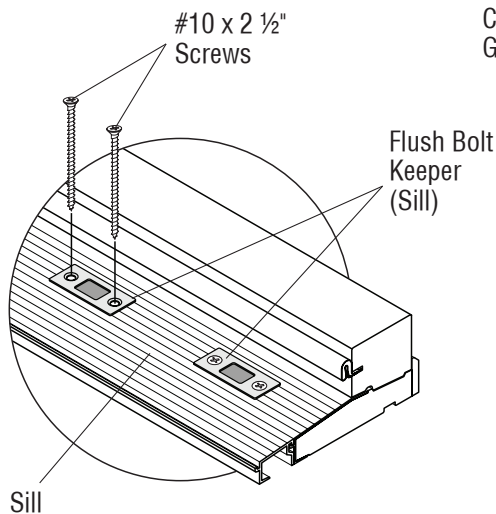
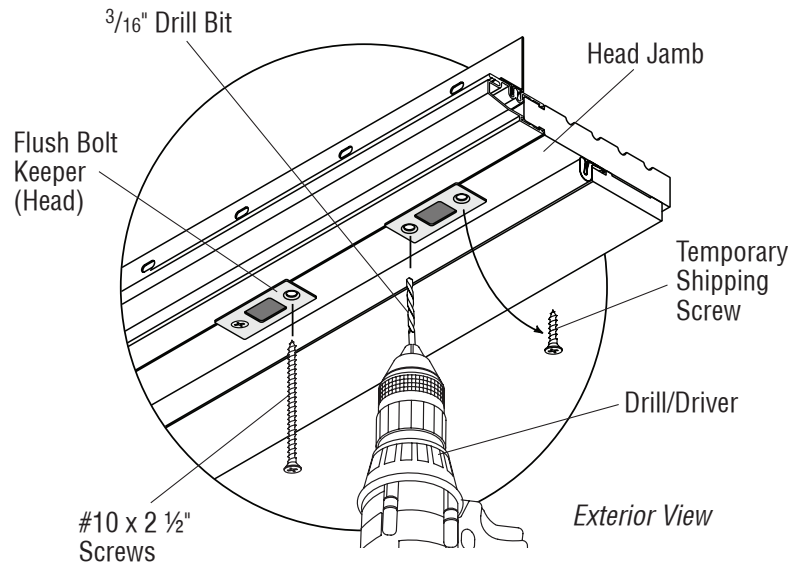
- Predrill $\frac{3}{16}$ " holes through Oak Cap and sill 4" from each corner and every 12" between.
- Counterbore hole $\frac{3}{8}$ " by 1" deep.
- Secure sill using #10 x 3" screws.
- Seal counterbored hole with $\frac{3}{8}$ " wood plug.
- If securing directly to masonry use $\frac{1}{4}$ " x 3" masonry screws.



7. Secure Sill, Keepers and Hinges (continued)

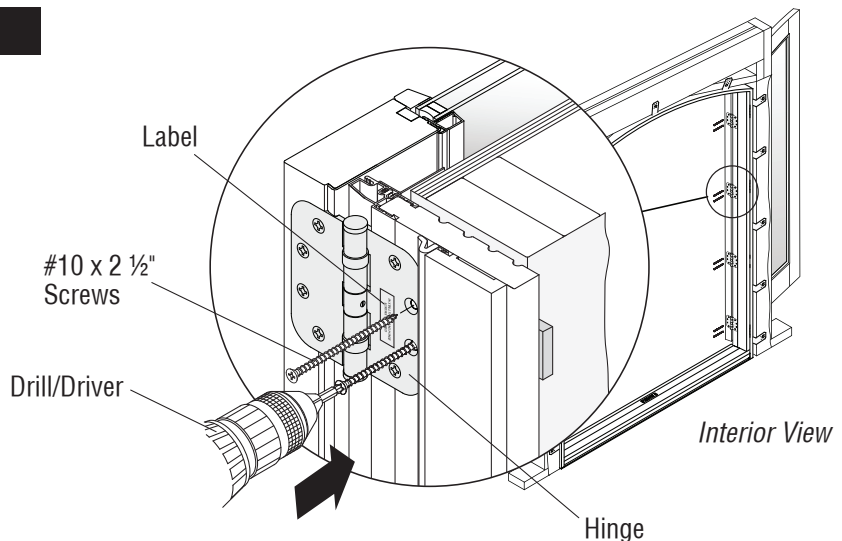
Securing Flush Bolt Keepers (Double Doors)

- Remove temporary shipping screws from flush bolt keepers on both sill and head.
- Drill $\frac{3}{16}$ " clearance holes through sill and head using flush bolt keeper as guide.
- Insert shims between head jamb and rough opening behind flush bolt keepers.
- Fill $\frac{3}{16}$ " clearance holes in sill with sealant.
- Install supplied #10 x 2 $\frac{1}{2}$ " screws in flush bolt keepers.
- If securing directly to masonry use $\frac{1}{4}$ " x 3" masonry screws.



Securing Hinges

- Secure *Hinges* by installing supplied (from screw pack) #10 x 2 $\frac{1}{2}$ " screws through center holes of *Hinges* where labelled.
- Check clearance and operation of door panels. Adjust shims as needed.

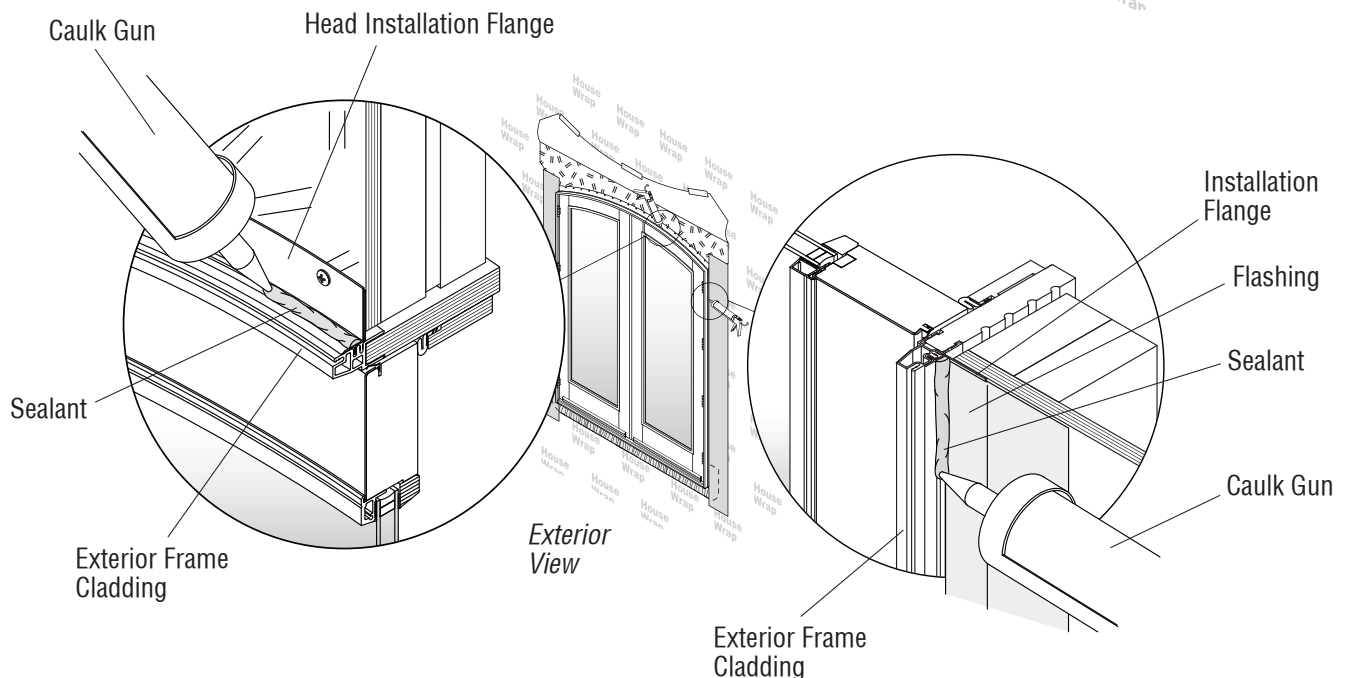
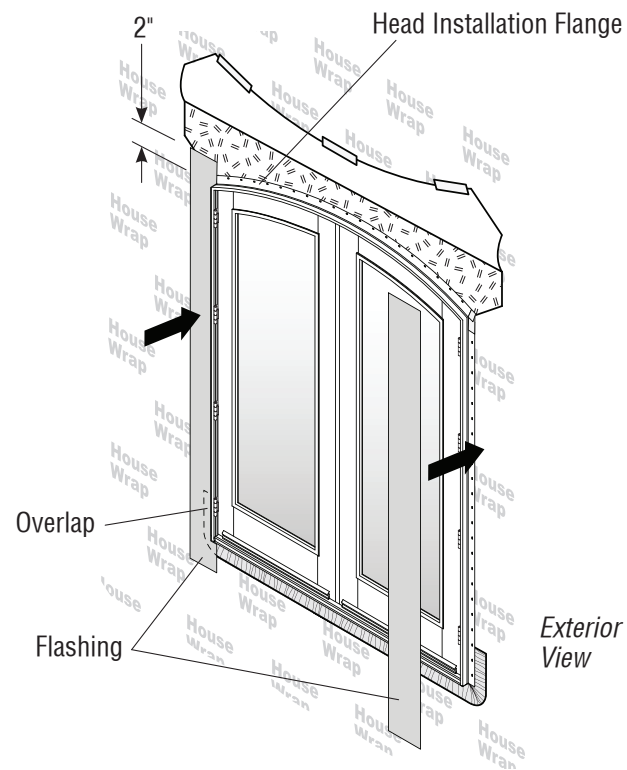


8. Install Trim Set

- For factory supplied *Multi-Point Hardware*, install trim set as directed by supplied instructions.

9. Flash and Seal Unit

- Close door panel(s).
- Apply flashing at sides, overlapping sill flashing and extending 2" above head installation flange.
- Apply $\frac{3}{8}$ " bead of sealant along head and sides sealing *Installation Flanges* to exterior frame cladding.

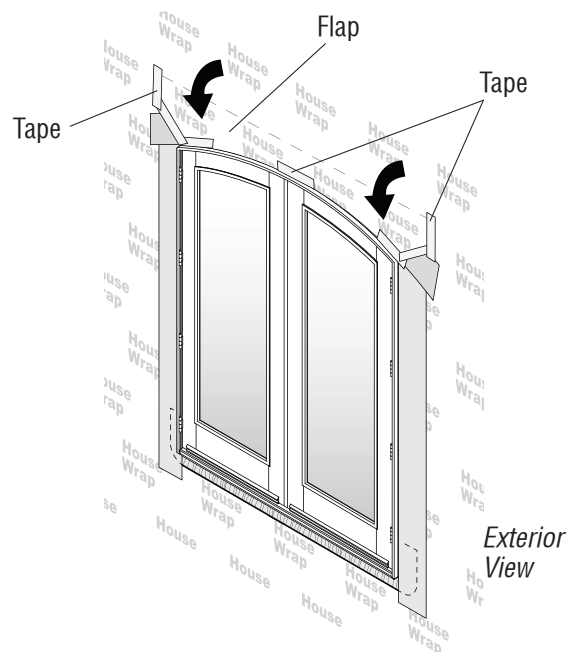
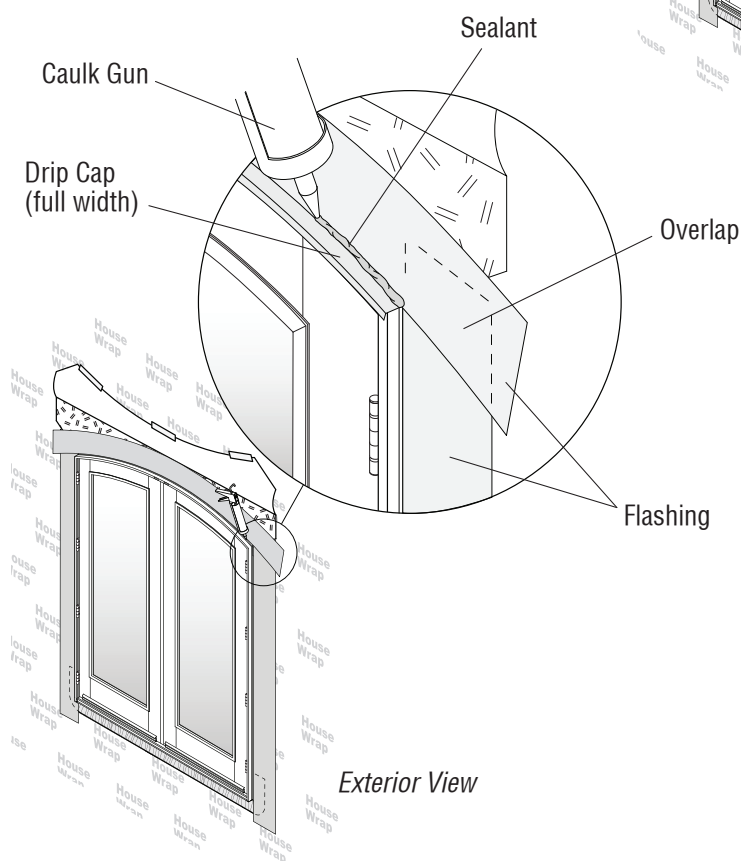
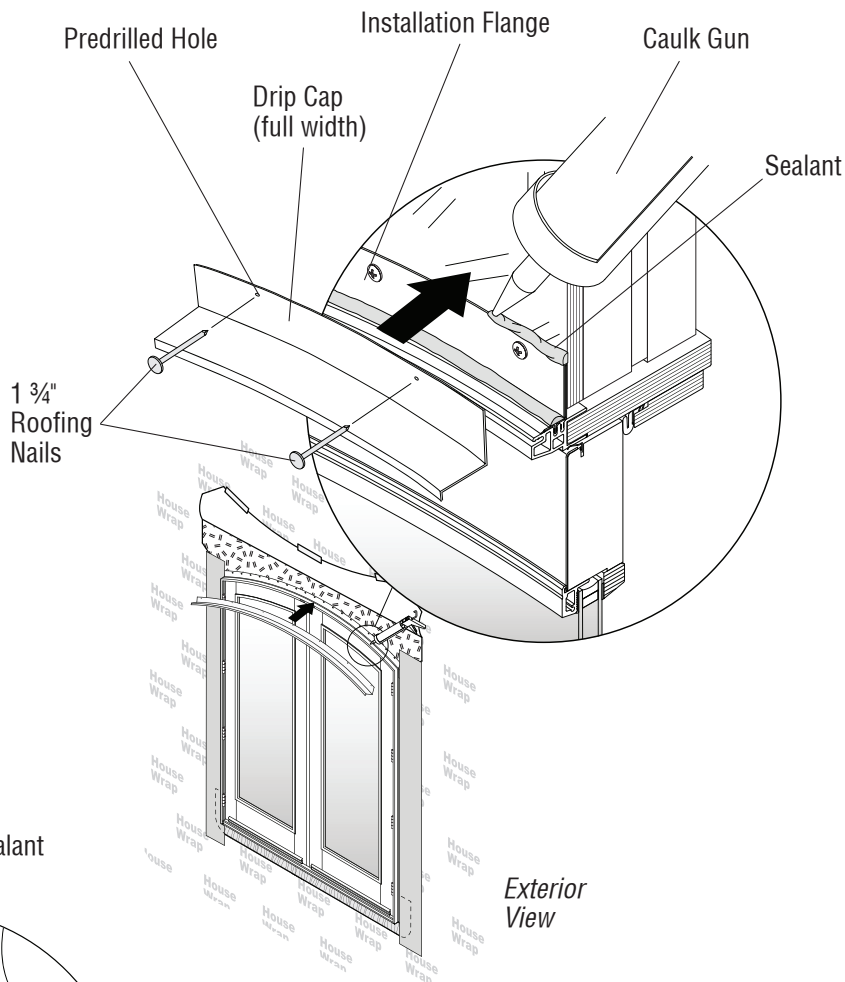


9. Flash and Seal Unit (continued)

If not installing drip cap (full width), proceed to **Units without Drip Cap (full width)** on Page 17.

Units with Drip Cap (full width)

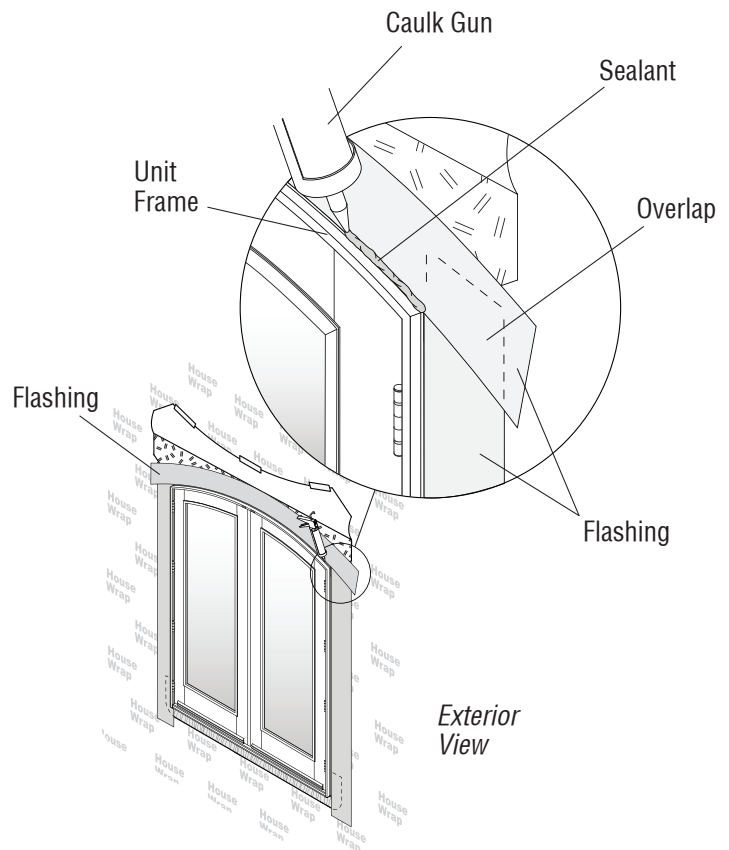
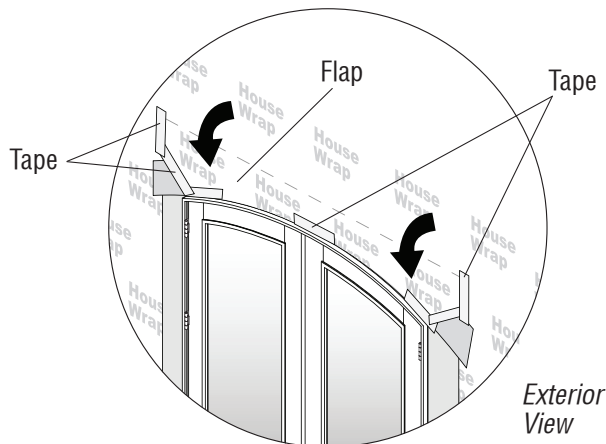
- Apply $\frac{3}{8}$ " bead of sealant along top edge of *Head Installation Flange*.
- Place drip cap (full width) in sealant at head, centered over unit. Secure to building structure using 1 $\frac{3}{4}$ " roofing nails through the predrilled holes.
- Apply flashing over drip cap (full width) at head, overlapping flashing at sides.
- Apply sealant between flashing and drip cap (full width) along head.
- Fold house wrap flap down and secure with house wrap tape.



9. Flash and Seal Unit (continued)

Units without Drip Cap (full width)

- Apply flashing over *Installation Flange* at head, overlapping flashing at sides.
- Apply sealant between flashing and unit frame along head.
- Fold house wrap flap down and secure with house wrap tape.

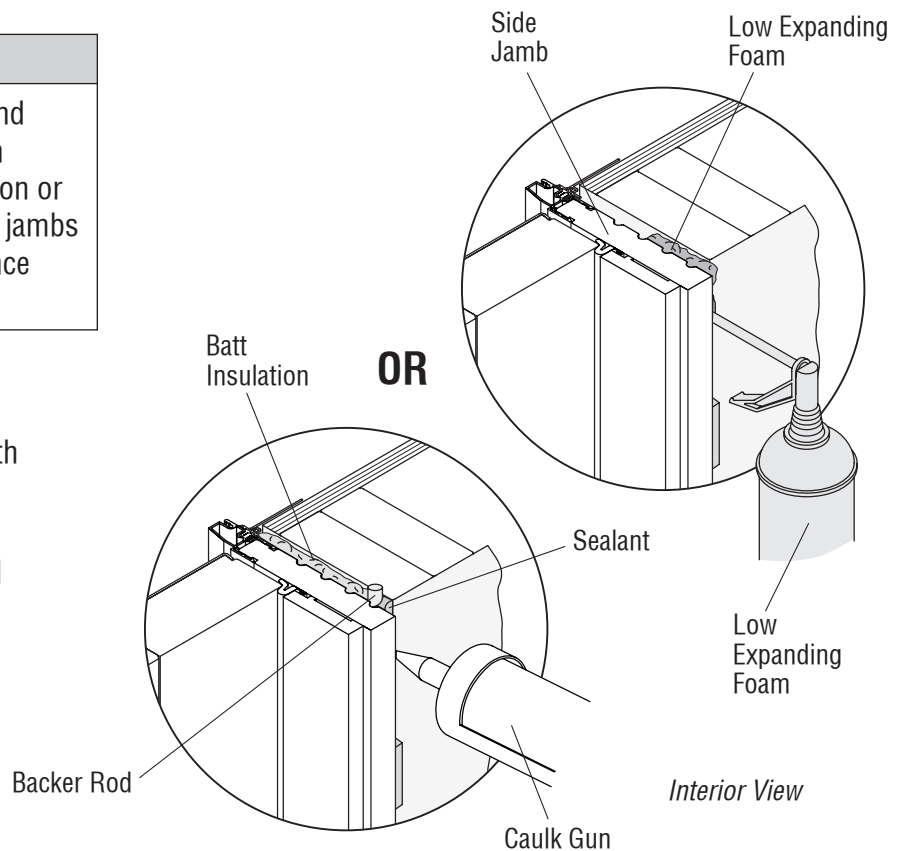


10. Insulate Around Unit

CAUTION

When insulating between unit frame and rough opening, or between units when joining, **DO NOT** overpack batt insulation or overfill with expandable foam. Bowed jambs will result affecting product performance and/or unit operation.

- Insulate between frame and rough opening at sides and head. **DO NOT** overpack batt insulation or overfill with low expanding foam.
- Seal gap between frame and rough opening from interior along sides and head with backer rod and sealant, if not insulating or insulating with batt insulation.

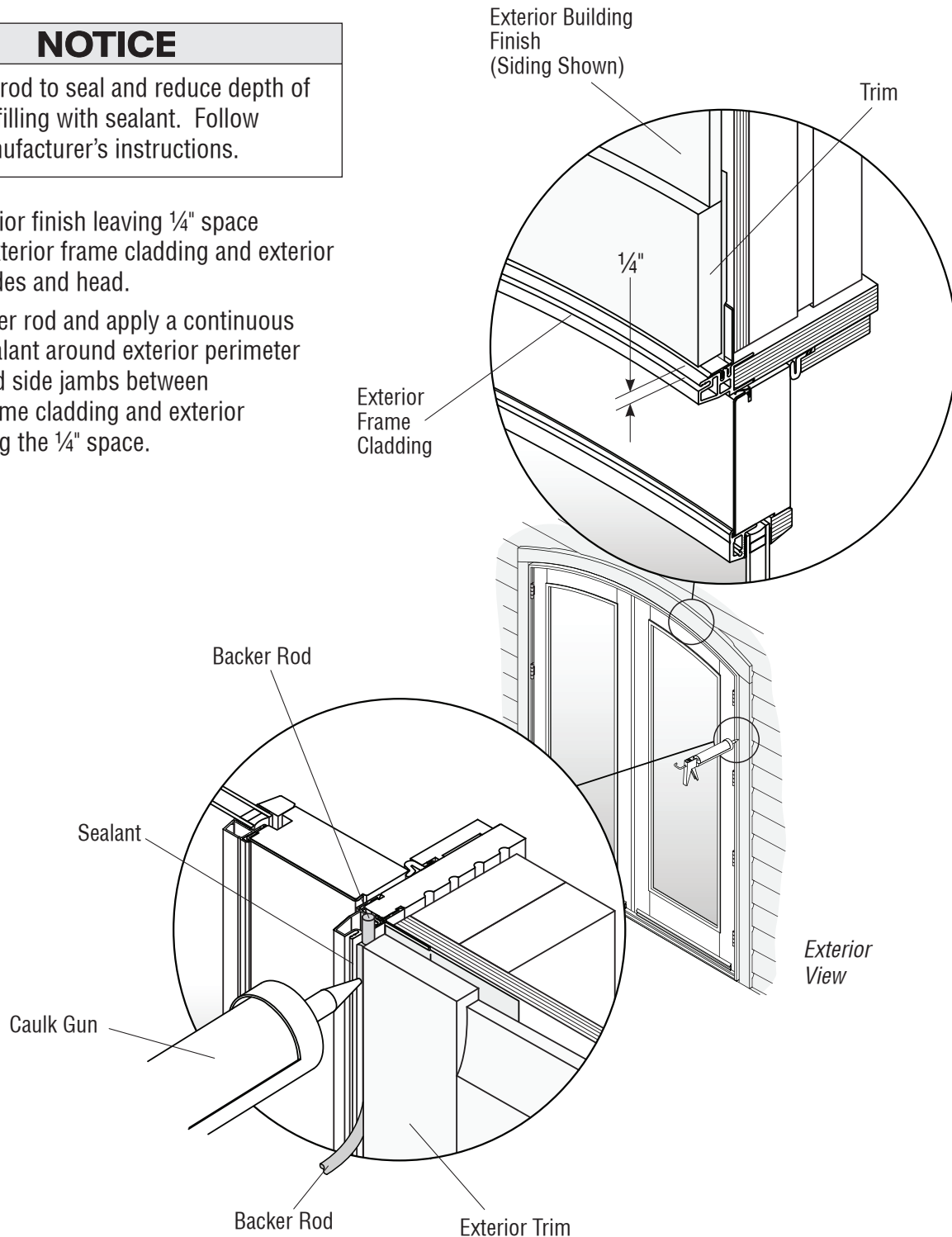


12. Apply Exterior Finish and Seal

NOTICE

Use backer rod to seal and reduce depth of gap before filling with sealant. Follow sealant manufacturer's instructions.

- Apply exterior finish leaving 1/4" space between exterior frame cladding and exterior finish at sides and head.
- Insert backer rod and apply a continuous bead of sealant around exterior perimeter of head and side jambs between exterior frame cladding and exterior finish, filling the 1/4" space.



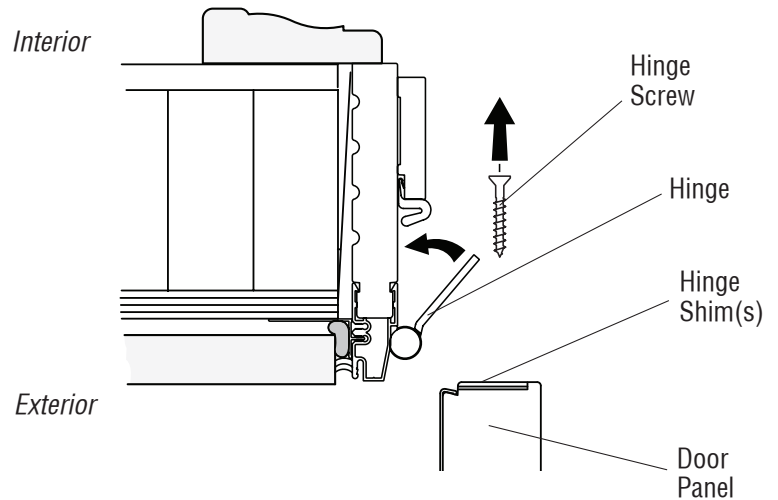
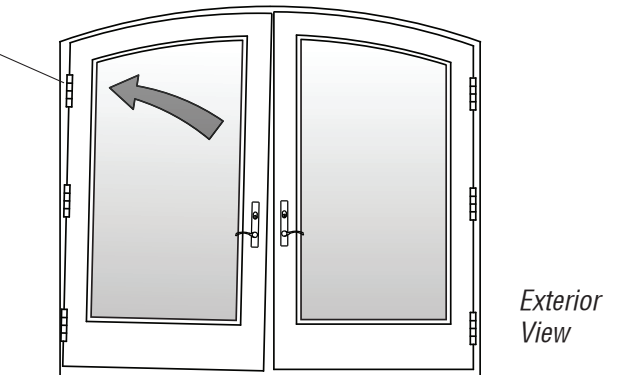
Panel Adjustment

NOTICE

Shims are located behind each Hinge and can be removed or more added to adjust door panel clearance within the frame. Use these shims to adjust door panel(s) after door unit is installed and trimmed.

- Open door panel 90°.
- Loosen hinge screws on side of *Hinge* attached to door panel.
- Remove or add shims behind *Hinge*, from interior, as needed.
- Reinstall hinge screws.
- Close door. Check operation of door and clearance between door panel and frame. If door panel is still out of alignment, repeat as needed.

Remove Shim
From This
Hinge



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