Assembly and Installation Instructions for:

ANDERSEN®
WINDOWS & DOORS

• Product Type —

Andersen® Traditional Wood Outswing Folding
Doors with Low Threshold Sill

Read these instructions before starting procedure.
For additional information visit www.andersenwindows.com
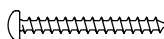For questions call 1-888-888-7020.

**Para obtener una versión en español de esta guía,
visite el sitio www.andersenwindows.com**

Parts Included:

(1) Installation Guide
(1) Care, Finish & Maintenance Guide
(2-16) Door Panels
(4-32) Hardware Packs
(1) Screw Pack
(1) Weatherstrip Kit
(1) Door Frame (Knock Down Frame)
(1) Sealant (Sill)
(1) Sealant (Frame Assembly)
(0-8) Magnetic Catch Set
(0-2) Panel Stop
(1) Multi-Point Lock Set (optional)
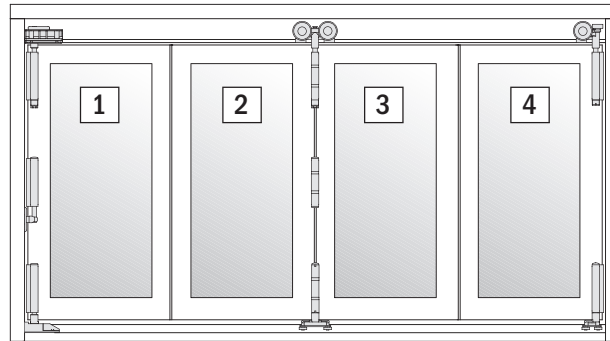
Screw Pack Contents:

(4) #8 × 1 ½" Pan Head Screws

(12) #10 × 2 ½" Flat Head Screws

(6) #10 × 2" Pan Head Screws

(2-16) #8× 1 ¾" Flat Head Screws

(16) #8 × 2 ½" Pan Head Screws

(16 - 25) #12 × 3 ½" Pan Head Screws

(2) Wood Plugs

Typical Tools Needed

· Safety Glasses
· Tape Measure
· Level
· Drill/Driver
· #2 Phillips Bit
· #3 Phillips Screwdriver
· Caulking Gun
· Staple Gun
· Flat Blade Screwdriver
· Putty Knife
· Suction Grips (if required)
· Laser Level
· ¾" Drill Bit
· ⅝" Drill Bit
· ⁵⁄₆₄" Drill Bit
· 8mm (5/16") Hex Key
· Hammer
· Utility Knife
· J-roller

General Supplies Needed

· Formable Self-adhering Sill Flashing
· Flashing
· House Wrap Tape
· Sealant
· Foam Backer Rod
· Low Expanding Foam
· Batt Insulation
· Staples
· Drip Cap (full width)
· Shims (waterproof)
· Wood Glue
· Wood Blocks
· Fasteners (See Fastener Schedule page 7)

Important Safety and Product Information

for Andersen® Windows and Doors

⚠️ This is the Safety Alert Symbol used to alert you to potential injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Signal Word and Consequence

COULD Result in: **⚠️ WARNING** — Major Injury/Death

COULD Result in: **⚠️ CAUTION** — Minor Injury

COULD Result in: *NOTICE* — Product or Property Damage

IMPORTANT — Procedure and Product Information

Read this Important Safety and Product Information completely before starting.

Safety and Product Information Index

- Tools
- Handling
- Installation
- Sealing
- Fastening
- Finishing
- Glass
- Protective Film
- Cleaning
- Use/Operation
- Joining
- Product Information

- Leave this installation instruction with the home/building owner.
- For additional support or help please go to: andersenwindows.com and visit our Help Center.
- To configure installation instructions go to: andersenwindows.com/installation

Tools

⚠️ WARNING

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

Handling

⚠️ 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. Heavier windows and doors will require mechanical assistance. Failure to do so could result in injury, product or property damage.

• **DO NOT** lift or carry window or door by the exterior trim or extension jambs. Doing so could result in injury, product or property damage.

• Windows, doors, and installation components can have sharp edges. Wear protective equipment when handling. Failure to do so could result in injury.

• **DO NOT** drag, rock, cartwheel, or walk windows, doors, sash, or panels across the floor. Doing so could result in product or property damage.

Installation

⚠️ WARNING

• Use caution when working at elevated heights and around window and door openings. Follow the manufacturers' instructions for ladders and scaffolding. Failure to do so could result in injury or death.

• Support window or door in opening at all times until fully fastened. Failure to do so could result in window or door falling out causing injury, property or product damage.

• Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.

Installation (Continued)

NOTICE

- Andersen head flashing and installation flanges **DO NOT** take the place of window and door flashing tape or liquid flashing. Window or door must be properly flashed and sealed with a material compatible sealant for protection against water and air infiltration. Failure to do so could result in product or property damage.

- **DO NOT** set window or door directly on installation flange. Doing so could affect product performance, and could result in product or property damage.

- **DO NOT** set window directly on sill plate. Elevate window with shims under the side jambs. Failure to do so could affect operation and product performance, and could result in product damage.

- Window or door must be properly shimmed. Failure to do so could affect operation and product performance, and could result in product damage.

- A continuous full perimeter interior seal between window or door frame and opening is required. Failure to do so will affect product performance, and could result in product or property damage.

- Protect window and door sills during installation and throughout construction. Failure to do so could result in product damage.

- **DO NOT** remove window or door packaging material until instructed to do so. Doing so could result in product damage.

Sealing

⚠ CAUTION

- Follow instructions of foam, sealant, and flashing manufacturers regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their products. Failure to do so could result in injury, product or property damage.

NOTICE

- Clean and prepare surfaces receiving sealant following sealant manufacturer's instructions. Failure to do so could result in water infiltration causing product or property damage.

- **DO NOT** use abrasive cleaners or solvents when cleaning Fibrex® material. Doing so could result in product damage. Go to andersenwindows.com for a list of recommended cleaners.

Fastening

⚠ WARNING

- Metal fasteners and components could corrode when exposed to preservative-treated or fire-retardant treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.

- Fastener must attach to a structural framing member with a 1-1/2" minimum fastener embedment. Failure to do so could result in injury, product or property damage.

- **DO NOT** remove screws that attach installation clips or gusset plates to window or door frames. Doing so could result in injury, product or property damage.

NOTICE

- Use masonry screws when fastening directly into masonry or through a buck into masonry. Failure to do so could affect product performance, and could result in product or property damage.

- **DO NOT** over drive screws or nails. Doing so could result in product damage.

- Fasteners must be attached to a structural framing member. Failure to do so will reduce the structural performance to less than published values and could affect product performance, and could result in product or property damage.

Finishing

NOTICE

- **DO NOT** stain or paint weatherstrip, vinyl, glass, or hardware. Doing so could result in product damage.

- Read and follow finish manufacturer's instructions and safety information. Failure to do so could result in product damage.

- **DO NOT** over load brush with stain or paint when finishing. Doing so could allow finish to wick between glass stop or grille, and glass.
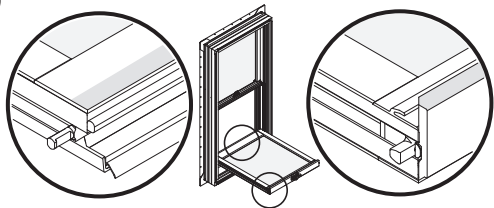
Finishing (Continued)

NOTICE

• Finish all wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and could bow or split. Some surfaces are hidden from view.
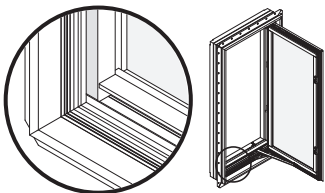
• Some products are shipped unassembled, and it may be more convenient to finish wood surfaces for these products prior to assembly and installation.
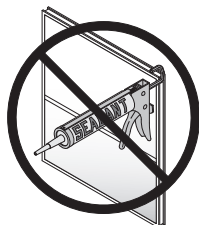
Glass

⚠ **WARNING**

• Unless specifically ordered, Andersen windows 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 are available with safety glass that could reduce the likelihood of injury when broken. Information on safety glass is available from your local Andersen dealer.

• Tempered or laminated safety glass is not standard for windows and must be special ordered. Check local building codes for required locations. Failure to do so could result in injury, product or property damage.

NOTICE

• **DO NOT** apply any type of film to insulating glass. Doing so could cause thermal stress conditions and result in glass damage. Shading devices (e.g. insulated coverings, shutters, etc.) could also cause thermal stress and condensation causing deterioration of windows or doors.

• **DO NOT** use sealants on exterior or interior glass surface.

Protective Film

⚠ **WARNING**

• **DO NOT** place suction grips over film seams on glass. Suction grips will not hold if placed over film seam to lift or move window or door. Window or door will fall and could result in injury, product or property damage.

• **DO NOT** remove any protective film near flammable materials. Static charge created when removing film can ignite flammable materials or cause a shock. Doing so could result in injury, product or property damage. **See warning label on glass.**
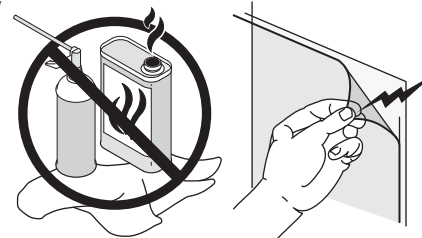
• Dispose of protective film immediately after removing. Failure to do so could pose a suffocation hazard to children.

NOTICE

• **DO NOT** remove protective film from glass until after construction is completed. Doing so could allow glass to be damaged.

• Remove protective film from non-glass components immediately after installation. Failure to do so could result in product damage.

Cleaning

NOTICE

• Acid solutions used for cleaning masonry or concrete will damage all components of window or doors. Protect window or door and follow cleaning product manufacturer's instructions. If acid contacts window or door, wash all surfaces immediately with clean water.

• **DO NOT** use or apply solvents, abrasives, harsh chemicals or cleaners to window or door components. Doing so will result in product damage. For a list of recommended cleaners go to: andersenwindows.com

• **DO NOT** use metal razor blades to clean glass surface. Glass damage could result.
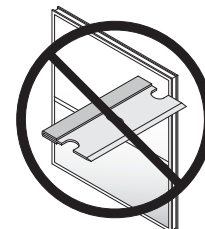
Use/Operation

- **DO NOT** stand in front of or near windows or doors during a storm. Doing so could result in injury. Accessories such as grilles, art glass, and insect screens could dislodge and become airborne if window or door is impacted by wind-borne debris from severe storms or hurricane strength winds. In the event of a storm, remove all accessories from windows or doors and move to a safe location.
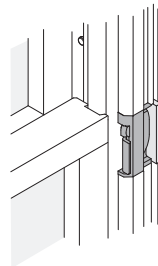
- **DO NOT** install air conditioner in window. Doing so could result in injury, product or property damage.

- Wind load brackets must be flipped out when not tilting or cleaning. If wind load brackets are not flipped out, window could blow in resulting in potential injury and/or product damage.
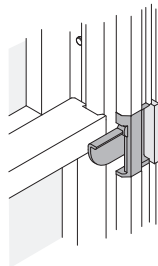
Flipped Out   Flipped In

- **DO NOT** attach objects or accessories to window or door except Andersen® products specifically designed for the window or door. Doing so could result in injury, product or property damage.

Joining

- **DO NOT** join any window or door, horizontally or vertically, to any window or door not designed for joining. Doing so could result in injury, product or property damage.

- Joined windows or doors must be individually supported in the opening. Failure to do so could affect operation and product performance, and could result in product or property damage.

Product and General Information

- Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: **www.epa.gov/lead**

- Instructions may not be right for all installations due to building design, construction materials, or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.

- Installation flanges may need to be removed for some installations. (e.g. masonry, replacement), or where exterior finish is already applied (e.g. siding, brick veneer, stucco).

- Installation flange on the window or door alone will not properly flash and seal the window or door.

- **DO NOT** remove band, plastic ties, or packing clips from window or door until instructed.

- **DO NOT** remove performance (NFRC) label until after final inspection. Doing so could delay final inspection and sign-off by the code official.

- Check with your local building code official to identify and confirm compliance with local building code requirements.

- Contact local authorities or waste management company for proper recycling and disposal instructions for removed window or door.

- For cleaning instructions for window and door components go to: andersenwindows.com.

- During construction protect products from construction debris, harsh chemical such as brick wash, roof runoff, and cement/masonry which can cause damage to window and door products.

- Protective film is not present on all windows or doors. Protective film is not a substitute for masking.

- Remove protective film from glass within six (6) months of installation and when temperature is above 32° F.

- Remove protective film by peeling from seam or corner. Use a plastic scraper to start if needed.

- Extension jambs can be factory applied on some windows or field applied prior to installation. **DO NOT** apply extension jambs prior to window or door installation that will be fastened with installation clips. Doing so could prevent access to installation clips for fastening.

- For extension jamb application refer to instructions included with part(s) or go to: andersenwindows.com
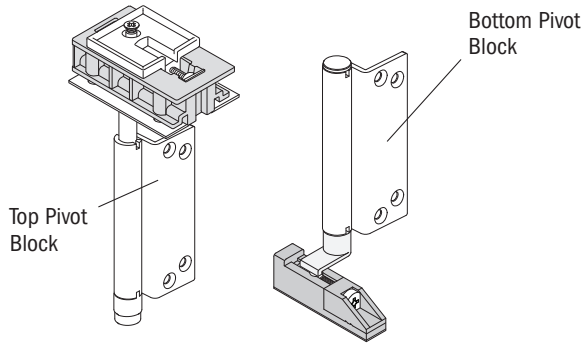
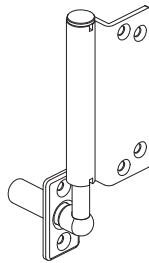- Use painters masking tape for protecting products during construction. Avoid using duct or packaging tapes.
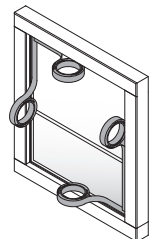
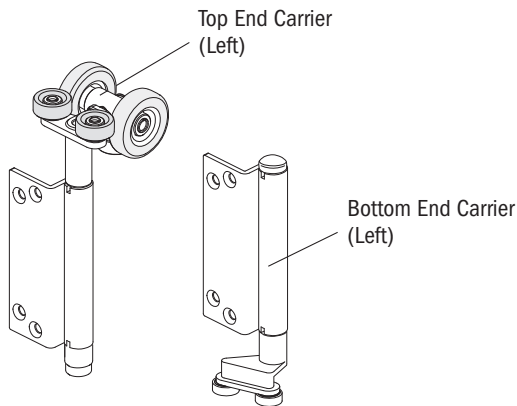# Hardware Identification

IMPORTANT

Hardware is installed in head track and most hinges are installed on one of the adjacent panels.
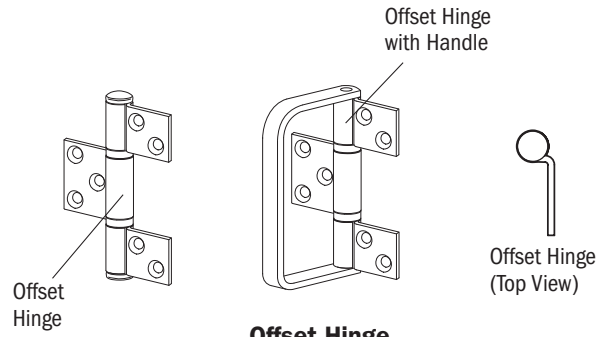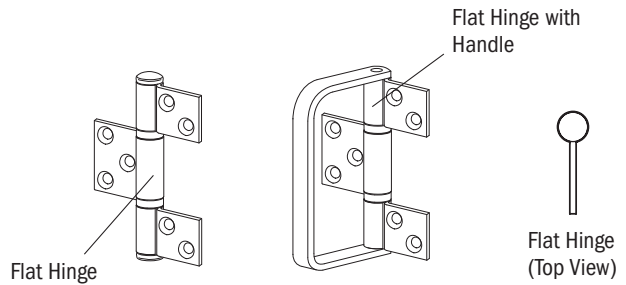
**Pivot Set
(Right Hand Shown)**

Bottom Pivot Block

Top Pivot Block
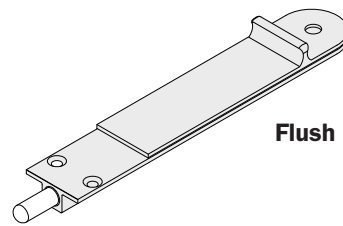
**Offset Hinge
(with and without Handle)**

Offset Hinge with Handle

Offset Hinge

Offset Hinge (Top View)

**Flat Hinge
(with and without Handle)**

Flat Hinge with Handle

Flat Hinge

Flat Hinge (Top View)

**Wall Pivot
(Right Hand Shown)**

Flush Bolt

**End Carrier Set (Left or Right)
(Left Hand Shown)**

Top End Carrier (Left)

Bottom End Carrier (Left)

Intermediate Carrier Set

Bottom Intermediate Carrier

Flat Hinge
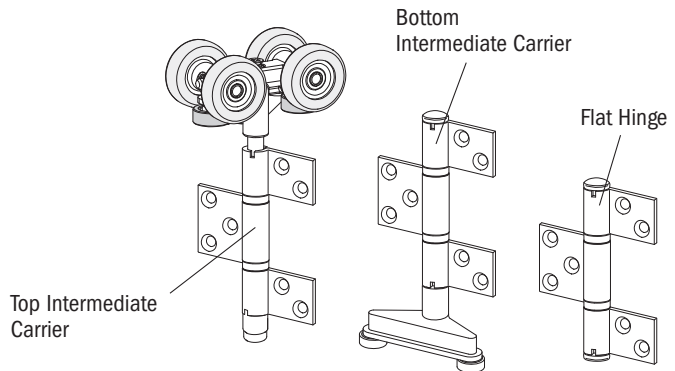
Top Intermediate Carrier

Fasteners

For installing fasteners through Installation Flanges*, Installation Clips, Head and Side Jambs and Sills.

Fastener Schedule		
Building Material	**Minimum Fastener Size**	**Minimum Embedment**
Wood Frame*	#10 Wood Screw (#12 Wood Screw for Head Track)	1 ½"
Concrete / Masonry	³⁄₁₆" Masonry Screw	1 ¼"
Steel Frame	#10 Self-Tapping Screw (#12 Self-Tapping Screw for Head Track)	3 Threads
* 3" finish nails are used for fastening through brick mould into wood frame construction.		

Rough Opening Specifications

⚠ CAUTION

Rough opening must be level and square. It is critical that the header and sill are flat and level. Failure to have a level and square rough opening will affect product performance.
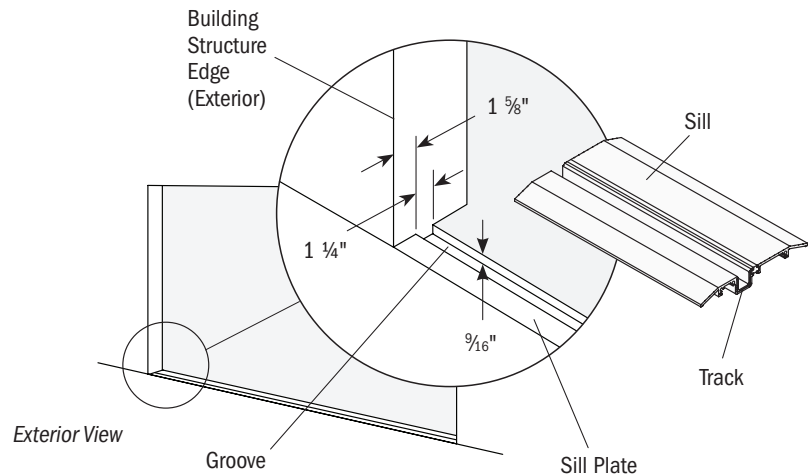
⚠ CAUTION

Rough opening header must be strong enough to support maximum panel weights and force generated during unit operation. Failure to properly support unit may result in product and/or property damage.

· Dry fit sill in rough opening to check groove size and location.

IMPORTANT

Sill plate must have a 1 ¼" wide by ⁹⁄₁₆" deep groove along its length, 1 ⅝" from the exterior edge of building structure allowing clearance for track in sill. Adjust groove size for sill flashing.

Building Structure Edge (Exterior)

1 ⅝"

Sill

1 ¼"

⁹⁄₁₆"

Track

Exterior View

Groove

Sill Plate

Rough Opening Specifications (continued)

> ## ⚠ CAUTION
>
> Rough opening must be level and square. Failure to have a level and square rough opening will affect product performance.

> ## IMPORTANT
>
> · Header size must be calculated to handle the structural dead load of the finished structure plus an additional $\frac{1}{16}$" maximum live load of deflection. Failure to do so will affect operation and product performance.
> · Header at full dead load deflection cannot encroach the rough opening height requirement. Doing so will affect operation and product performance.
> · Rough opening jambs and header (e.g. LVL, glulam, steel or lintel with header plate, etc.) must provide an anchoring surface that allows for a minimum 1-1/2" fastener embedment at all fastener locations.

· Width of rough opening should be $\frac{3}{4}$" more than unit width. Height of rough opening should be $\frac{3}{4}$" more than unit height. Allow for flashing thickness.
· Check sill plate for level using a laser level. Sill must be level and flat. Shim if needed.
· Check header for level. Measure rough opening height at sides and in center. Measurements must be the same.
· 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.


Rough Opening Width ¾" more than unit width

Rough Opening Height ¾" more than unit height

Interior View

Header

Rough Opening Height (center must match sides)

Sill Plate

Tape Measure

Level

Interior View

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.
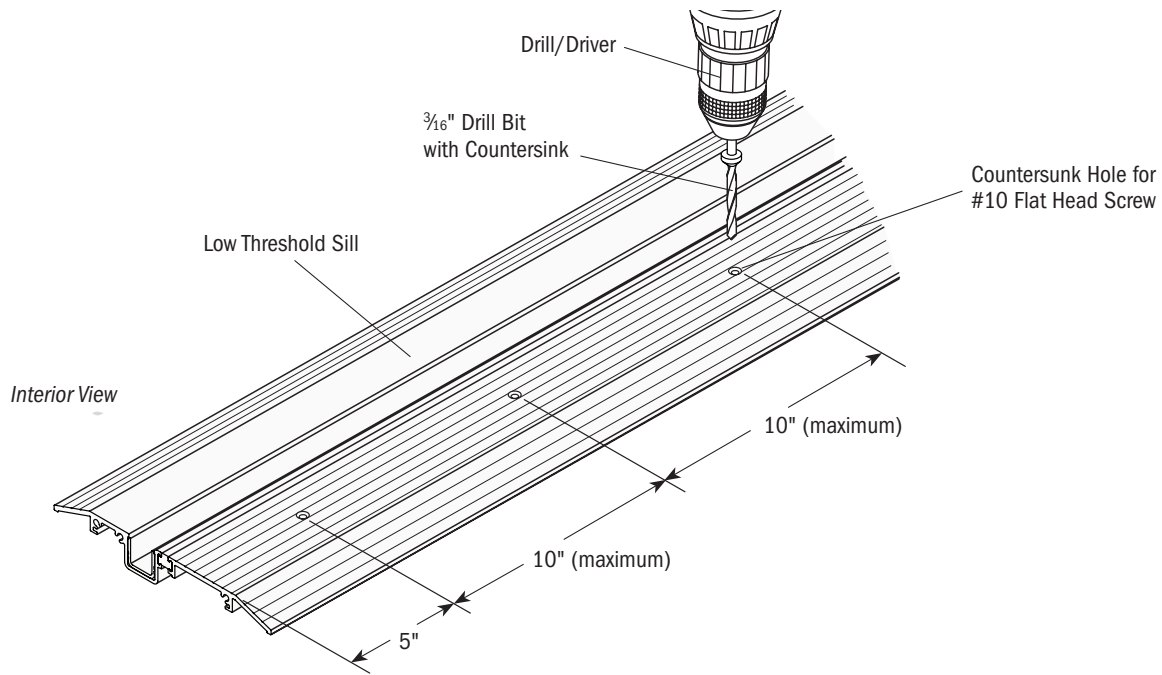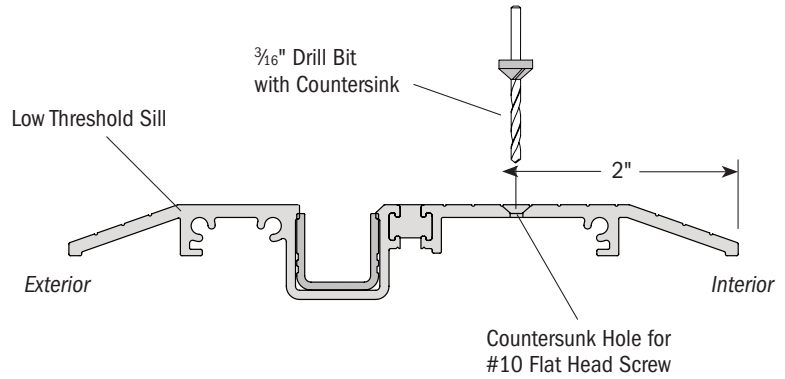
> ## IMPORTANT
>
> For masonry applications, install and securely fasten a wood buck around head and sides of masonry opening before installing door unit. Apply sealant between rough opening and wood buck.

Masonry Building Structure

Wood Buck

Interior View
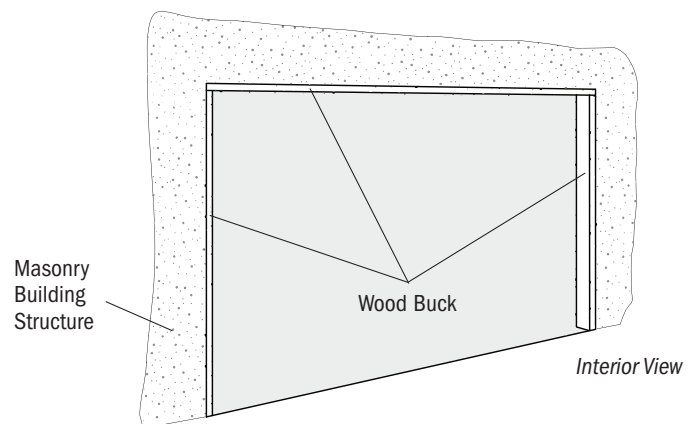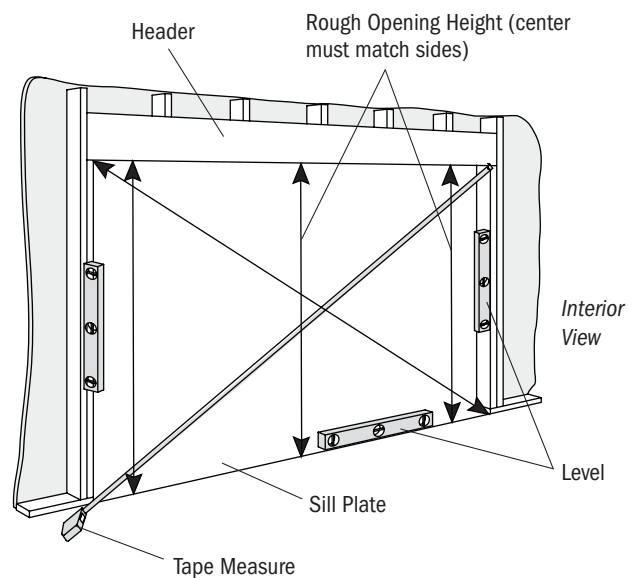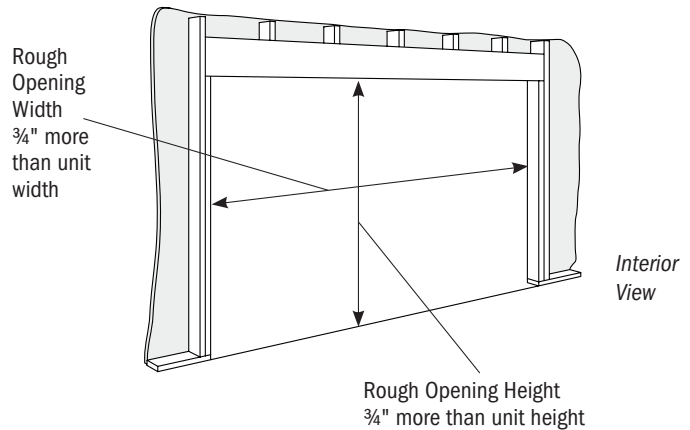
Predrill Sill

**Required for Florida non-impact certified installation only.**

- Remove frame components (sill, side jambs, & head jamb) from package.

- Place sill on flat work surface.

- Drill ($\frac{3}{16}$" hole) and countersink sill for #10 flat head screws, 5" from ends and every 10" (maximum) between and 2" from interior edge. See drawings for location.

- Use #10 flat head screw to check depth of countersink. Top of #10 flat head screw should be flush with top of sill.

$\frac{3}{16}$" Drill Bit with Countersink

Low Threshold Sill

2"

Exterior

Interior

Countersunk Hole for #10 Flat Head Screw

Drill/Driver

$\frac{3}{16}$" Drill Bit with Countersink

Countersunk Hole for #10 Flat Head Screw

Low Threshold Sill
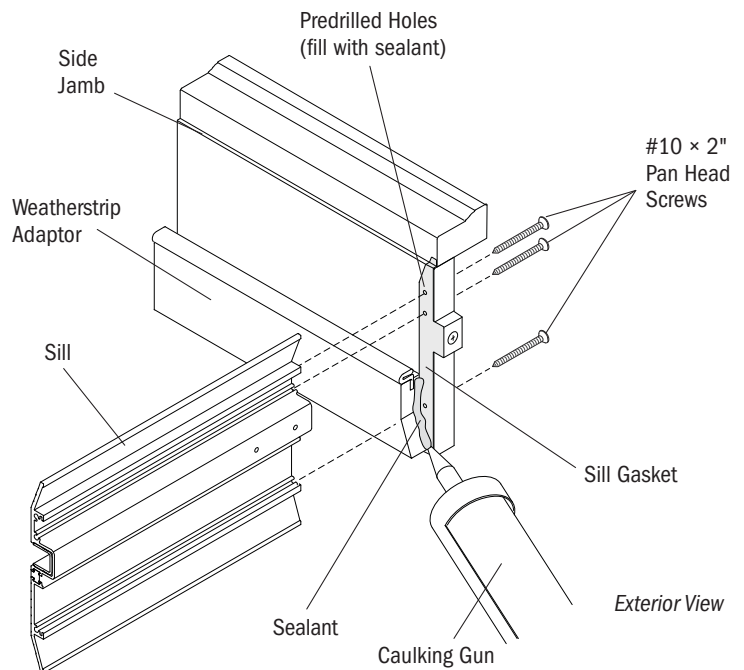
Interior View

10" (maximum)

10" (maximum)

5"

1. Assemble Frame

For units with two-piece sill and head jamb, proceed to **Sill and Head Assembly Guide for Andersen® Outswing Folding Doors - #113087**

- Remove frame components (sill, side jambs, & head jamb) from package.
- Place frame components on flat surface exterior side up. Protect frame components from damage.

Sill

Side Jamb

Head Jamb

Side Jamb

Exterior Side Up
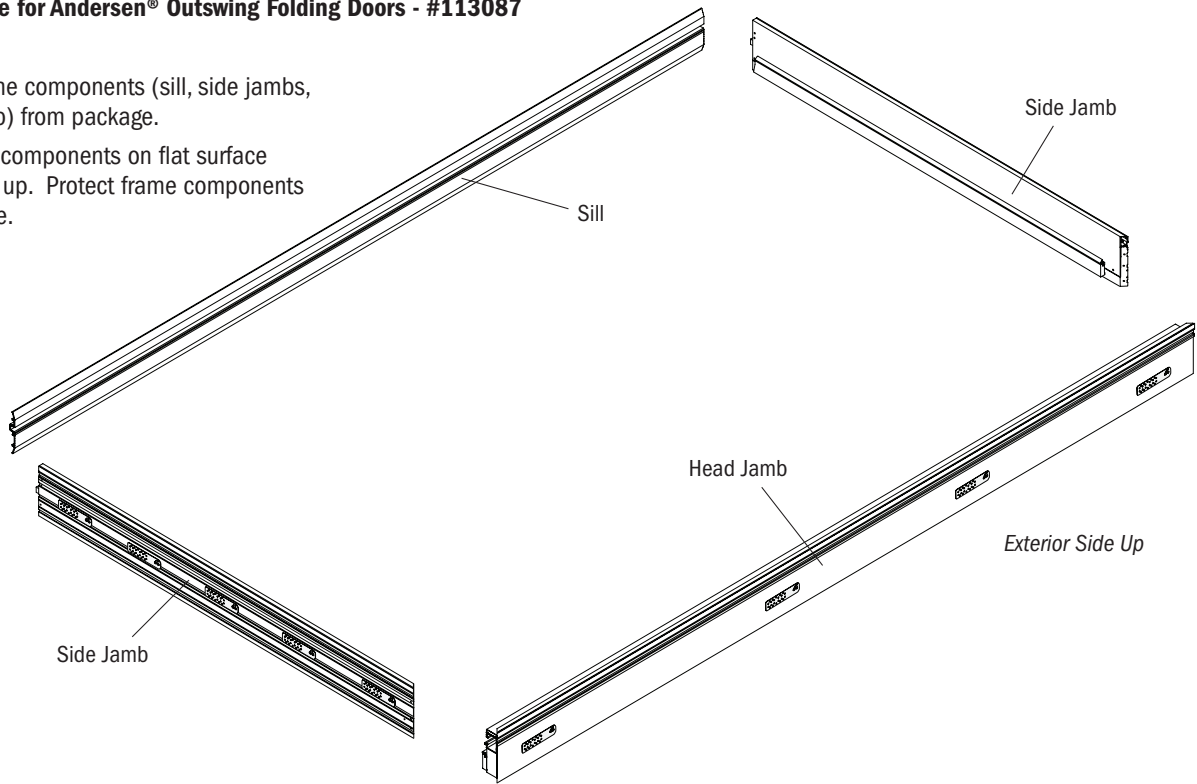
- Fill predrilled holes in side jambs (sill end) with sealant.
- Apply ⅜" bead of sealant along bottom of weatherstrip adaptor on side jambs.
- Secure sill to side jambs by installing #10 × 2" pan head screws through predrilled holes in each side jamb (sill end).
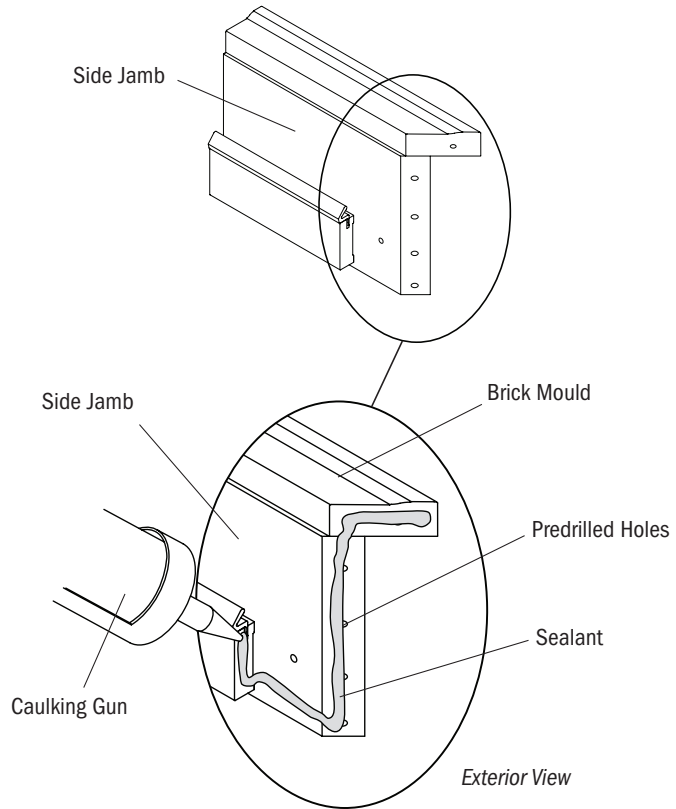
Side Jamb

Predrilled Holes (fill with sealant)

#10 × 2" Pan Head Screws

Weatherstrip Adaptor

Sill

Sill Gasket

Sealant

Caulking Gun

Exterior View

1. Assemble Frame (continued)

· Apply ¼" bead of sealant along top of side jambs and brick mould over predrilled holes. See drawing.

· Bring side jamb and head jamb together and align mitered brick mould.

· Secure brick mould corners by installing supplied (from screw pack) #8 × 2 ½" pan head screws through predrilled holes in brick mould. See drawing.

· Secure supplied (from screw pack) wood plugs in predrilled hole in brick mould with wood glue.

· Secure head jamb to side jambs by installing supplied (from screw pack) #8 × 2 ½" pan head screws through predrilled holes in side jambs and jamb head. Alternate screws to maintain tight, square joint.
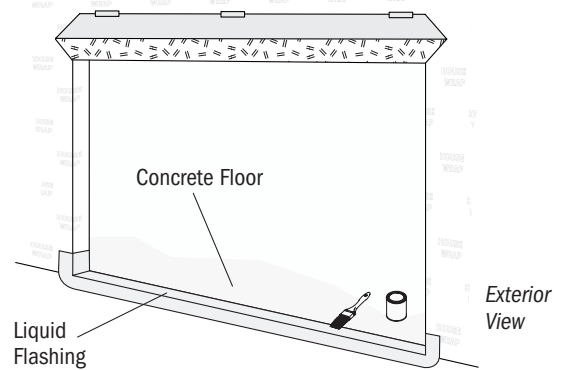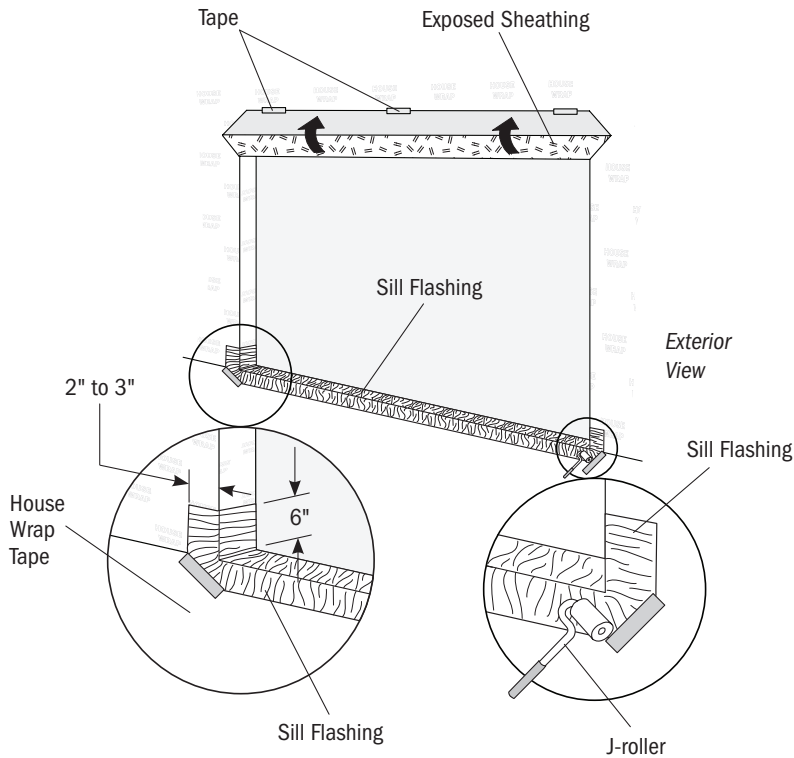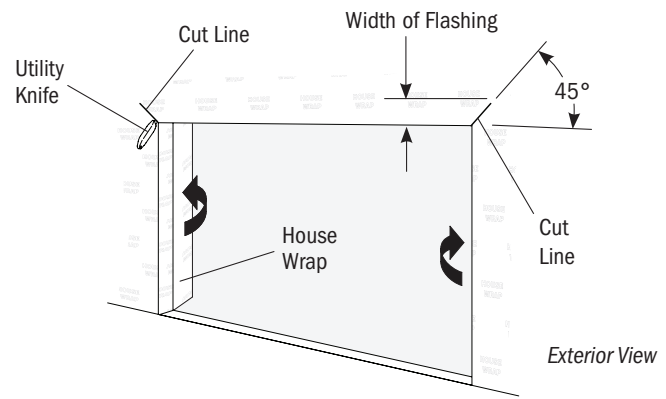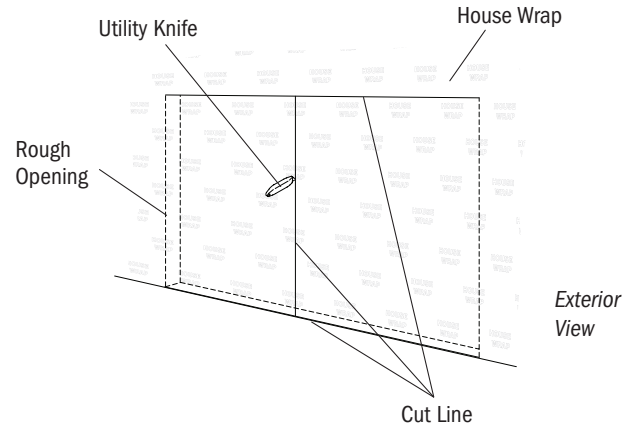
Side Jamb

Side Jamb

Brick Mould

Predrilled Holes

Sealant

Caulking Gun

Exterior View

Head Jamb

Brick Mould

#8 × 2 ½" Pan Head Screws

Wood Plug

Side Jamb

Exterior View

Head Jamb

Brick Mould

#8 × 2 ½" Pan Head Screws

Side Jamb

Exterior View
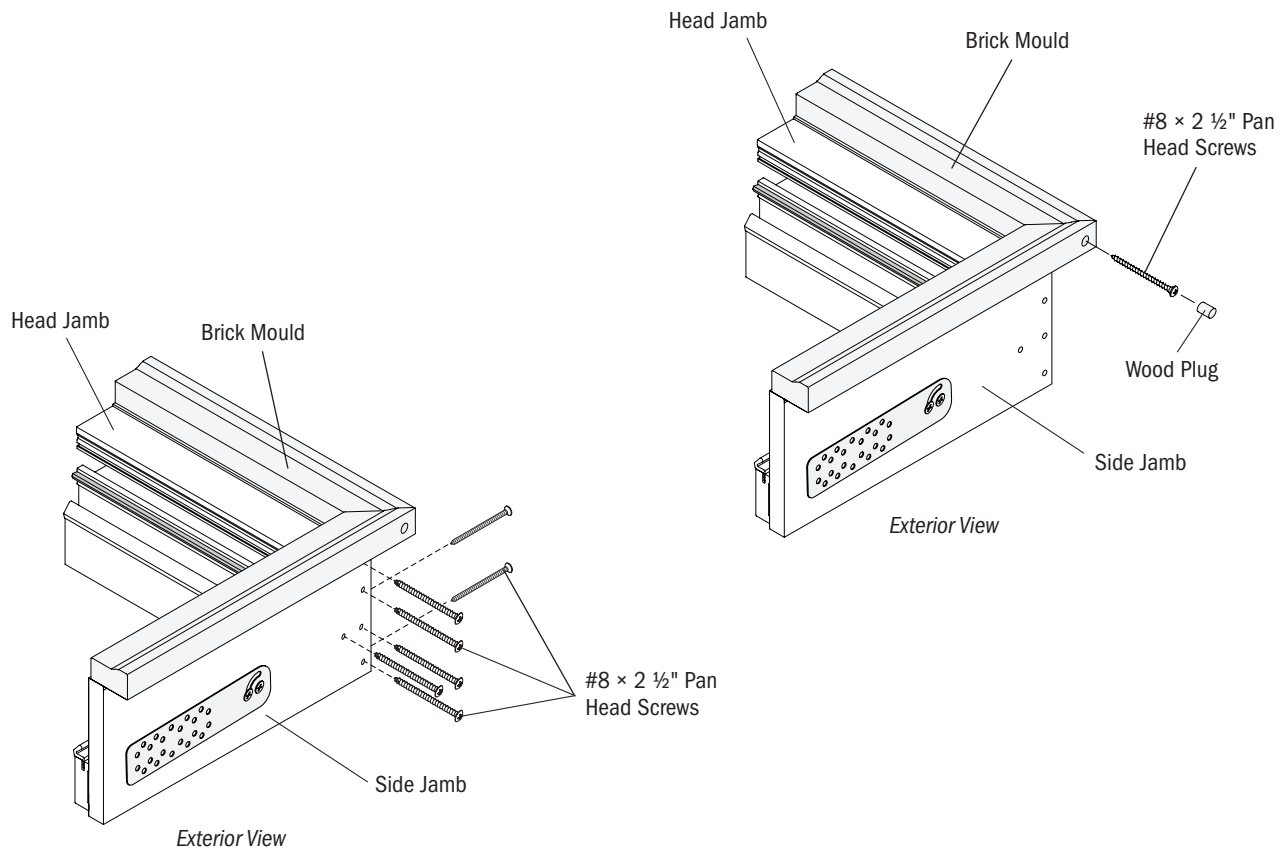
2. Prepare Rough Opening

· Cut house wrap along sill and head of rough opening.
· Cut house wrap vertically in center of rough opening from head to sill.
· Trim excess house wrap, fold around to inside, and staple.
· Cut top corners of house wrap on 45° angles the width of head flashing.
· Fold flap up and temporarily tape in position.

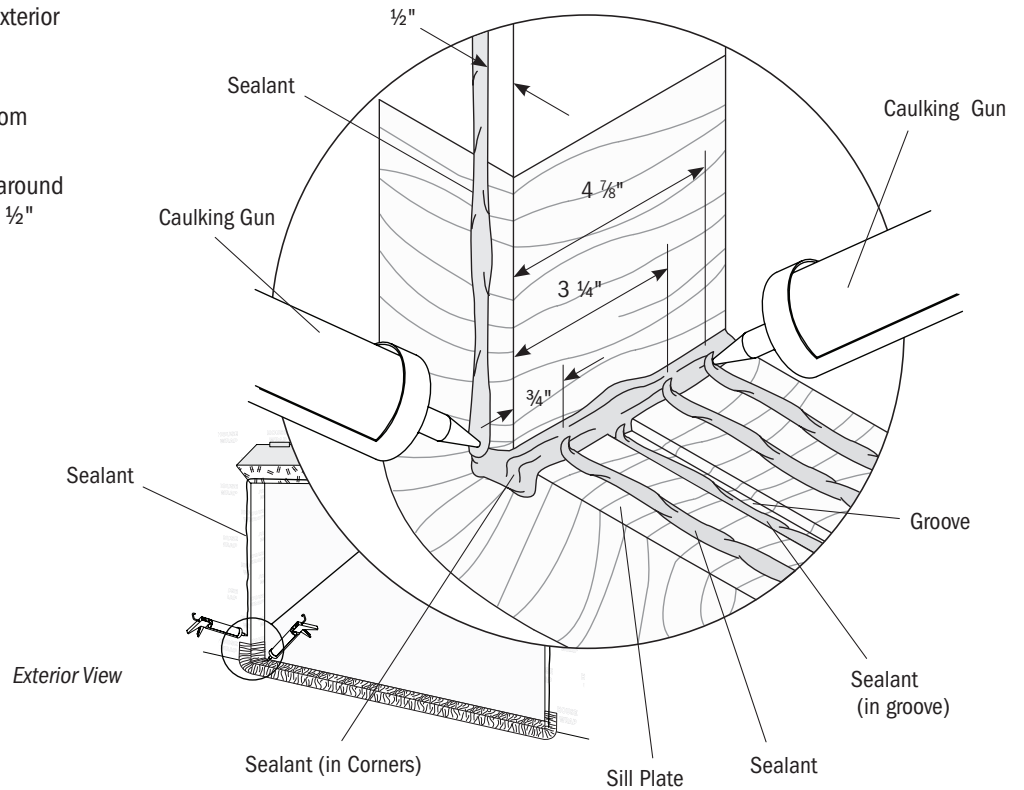> ⚠ **CAUTION**
>
> **Apply formable flashing. Make sure there are no wrinkles or voids. Failure to do so may result in product/property damage.**

· Apply sill flashing on rough opening sill using J-roller. Keep sill flashing 6" above sill at sides and 2" to 3" onto house wrap around exterior.
· Liquid flashing recommended for concrete. Follow manufacturer's instructions.
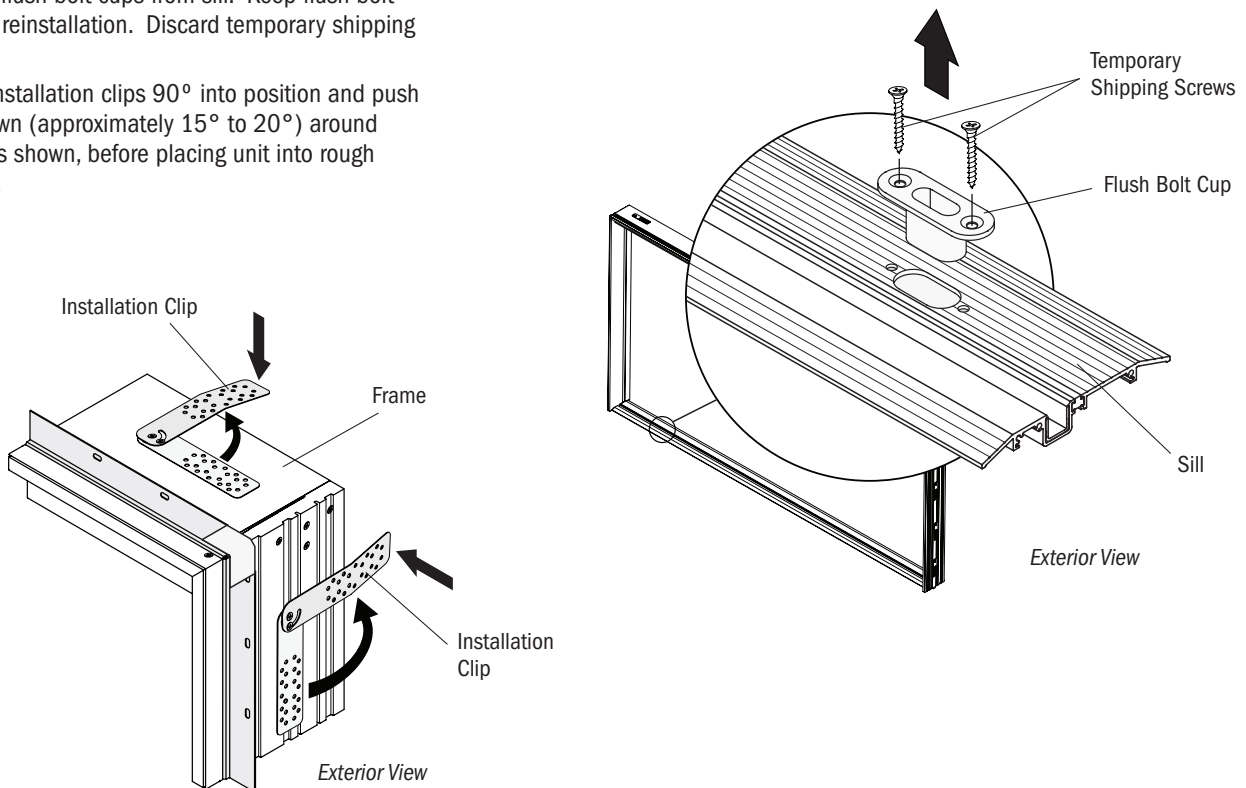· Secure corners of sill flashing with house wrap tape

Utility Knife
House Wrap
Rough Opening
Exterior View
Cut Line

Cut Line
Width of Flashing
Utility Knife
45°
House Wrap
Cut Line
Exterior View

Tape
Exposed Sheathing
Sill Flashing
Exterior View
2" to 3"
House Wrap Tape
6"
Sill Flashing
Sill Flashing
J-roller

Concrete Floor
Liquid Flashing
Exterior View

2. Prepare Rough Opening   (continued)

· Apply three, continuous ⅜" beads of sealant along sill plate of rough opening full length. Space beads ¾", 3 ¼", and 4 ⅞" from exterior edge. Apply a ⅜" bead of sealant along bottom of groove.

· Apply a liberal amount of sealant in bottom corners.

· Apply a continuous ⅜" bead of sealant, around exterior sides and top of rough opening, ½" from rough opening edge.

½"

Sealant

Caulking Gun

4 ⅞"

Caulking Gun

3 ¼"

¾"

Sealant

Groove

Exterior View

Sealant (in groove)

Sealant (in Corners)

Sill Plate

Sealant

3. Prepare Frame

· Remove flush bolt cups from sill. Keep flush bolt cups for reinstallation. Discard temporary shipping screws.

· Rotate installation clips 90° into position and push ends down (approximately 15° to 20°) around frame, as shown, before placing unit into rough opening.

Temporary Shipping Screws

Flush Bolt Cup

Installation Clip

Frame

Sill

Installation Clip

Exterior View

Exterior View

4. Install Frame

Brick Mould — Sealant

Door Frame

Exterior View

⚠ 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. Heavier windows and doors will require mechanical assistance. Failure to do so could result in injury, product or property damage.

⚠ WARNING

Support frame in rough opening at all times until secure. Failure to support frame could result in frame falling causing injury, property, and/or product damage.

⚠ CAUTION

Do Not twist frame while installing in rough opening. Twisting frame while installing may result in product/ property damage.

⚠ CAUTION

Frames with two-piece heads and sills which have been spliced together require extra support around the joint while installing. Failure to properly support the joints may result in product/ property damage.

Head — Joint — Door Frame

Head Jamb

Level

Shim

Interior View

Level

Sill

Tape Measure
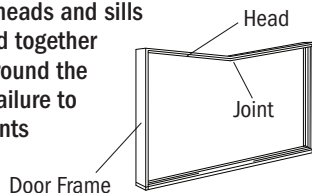
⚠ CAUTION

A minimum ¼" space 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.
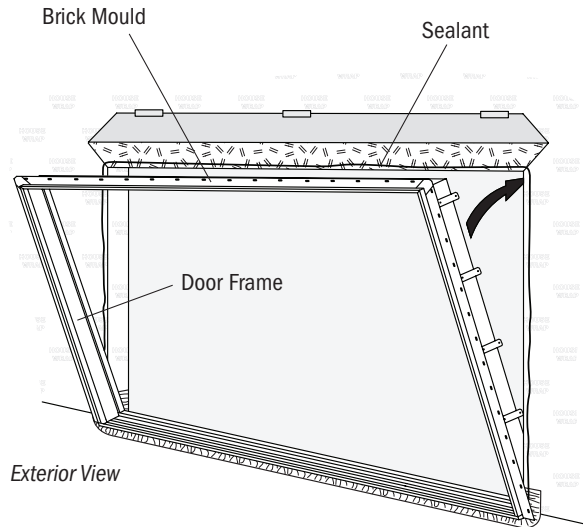
⚠ CAUTION

Unit frame must be level and square. Failure to have a level and square frame will affect product performance.

IMPORTANT

Apply pressure or weight to sill to seat sill into sealant. Check that sill is flat and straight. Adjust as required.

· Lift and center frame in rough opening, setting unit in sealant along rough opening sill from exterior.
· Push top in until brick mould is firmly pressed into sealant around perimeter of rough opening.
· Center frame in rough opening.
· Insert shims between rough opening and side jambs, beside each installation clip. Shims are installed between side jambs and building structure to prevent jambs from bowing.
· Adjust door frame in opening from the interior. Check frame for plumb and level using a level. Correct as needed.
· Check frame for square by measuring diagonally, upper left to lower right and upper right to lower left corners. Both measurements must be within ⅛". Correct as needed.
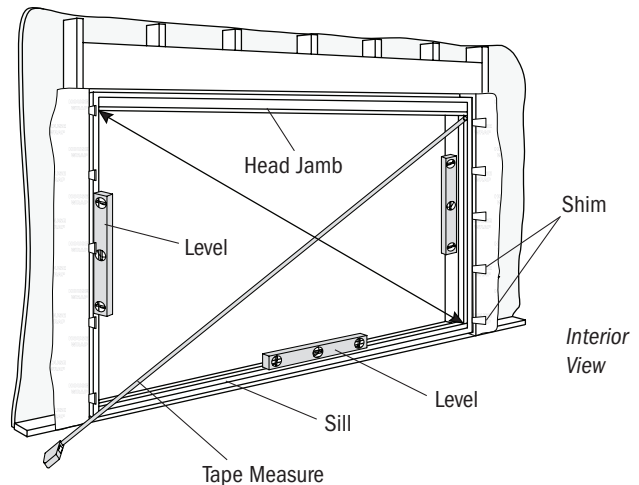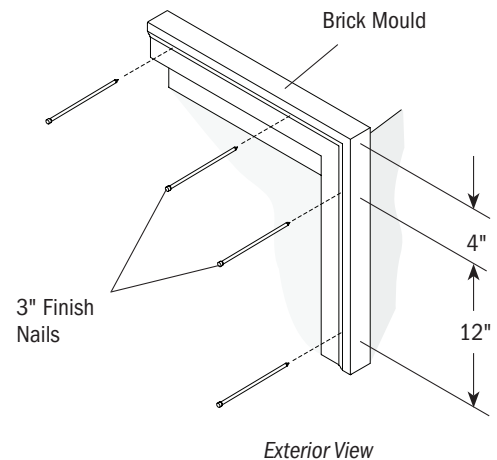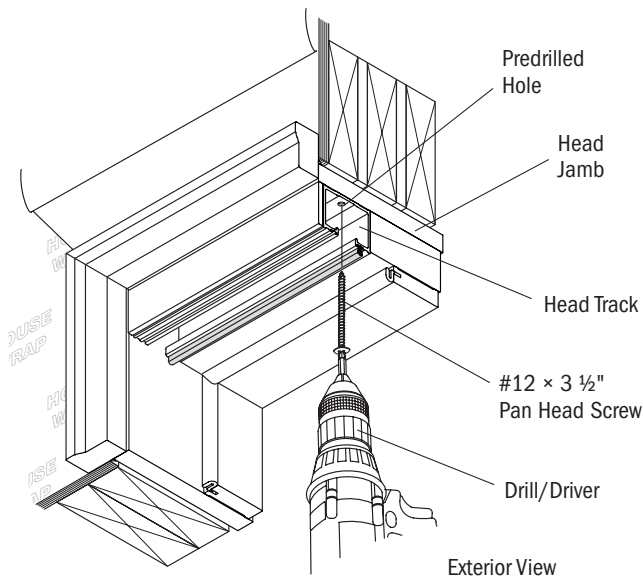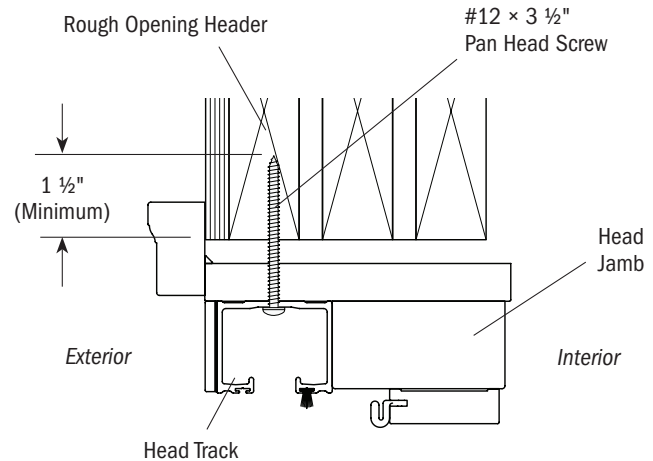
4. Install Frame   (continued)

IMPORTANT

Head jamb must be level or have slight
(⅛" maximum) camber up in center.

· Completely fill void between installation clips and rough opening with sealant.

· Insert shims between rough opening and side jambs, beside each installation clip.

· Bend and fasten installation clips to building structure using #10 × 1 ½" screws.

· Install supplied (from screw pack) #12 × 3 ½" pan head screws through all predrilled holes in head track. Screws must penetrate the rough opening header by at least 1 ½". Use longer screw if required. Do Not shim between head jamb and rough opening header. Use #12 × 3 ½" pan head screws to keep head jamb level.

· Nail through brick mould 4" from each end and every 12" between with 3" finish nails.
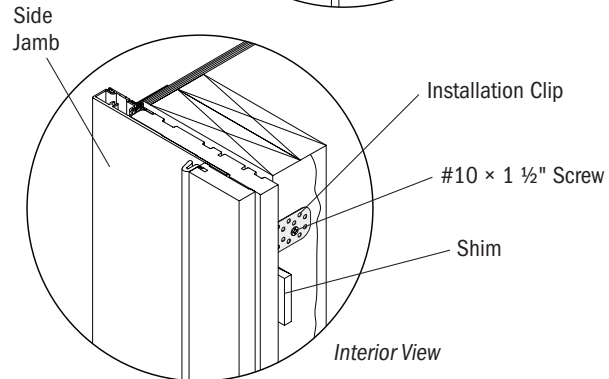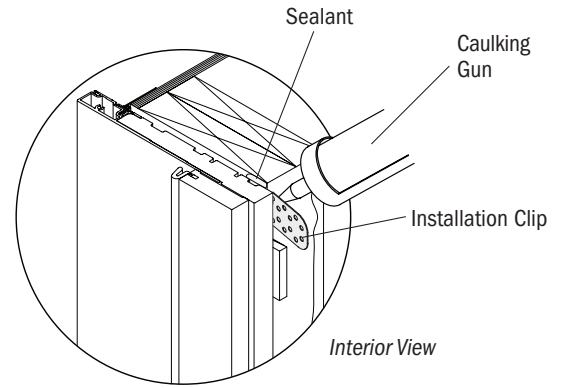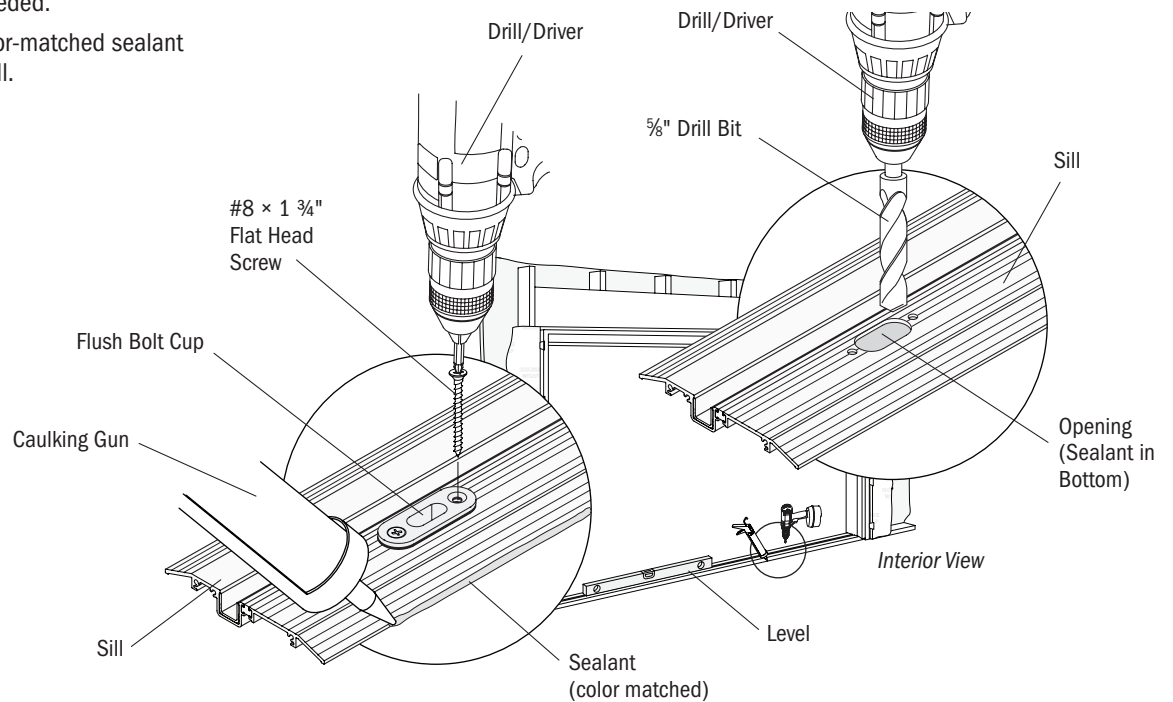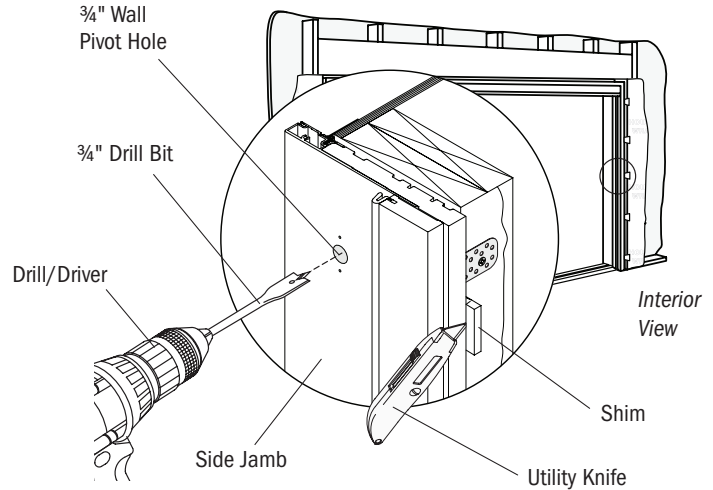
Sealant

Caulking Gun

Installation Clip

Interior View

Side Jamb

Installation Clip

#10 × 1 ½" Screw

Shim

Interior View

Rough Opening Header

#12 × 3 ½" Pan Head Screw

1 ½" (Minimum)

Head Jamb

Exterior

Interior

Head Track

Predrilled Hole

Head Jamb

Head Track

#12 × 3 ½" Pan Head Screw

Drill/Driver

Exterior View

Brick Mould

3" Finish Nails

4"

12"

Exterior View

4. Install Frame (continued)

· Increase depth of ¾" wall pivot hole in side jamb(s) to 1 ⅝" deep by drilling into rough opening with ¾" drill bit and drill/driver.

· Cut shims flush with door frame using a utility knife.

· Using flush bolt cup opening(s) in sill as guide, drill subfloor, 1" deep using ½" drill bit to allow clearance for sill flush bolt cups. Fill bottom of hole(s) with sealant.

· Install flush bolt cups with supplied (from screw pack) #8 x 1 ¾" flat head screws. Check that sill is level. Shim as needed.

· Apply a ¼" bead of color-matched sealant along interior edge of sill.

¾" Wall Pivot Hole

¾" Drill Bit

Drill/Driver

Side Jamb

Interior View

Shim

Utility Knife

Drill/Driver

Drill/Driver

⅝" Drill Bit

Sill

#8 × 1 ¾" Flat Head Screw

Flush Bolt Cup

Caulking Gun

Opening (Sealant in Bottom)

Interior View

Sill

Level
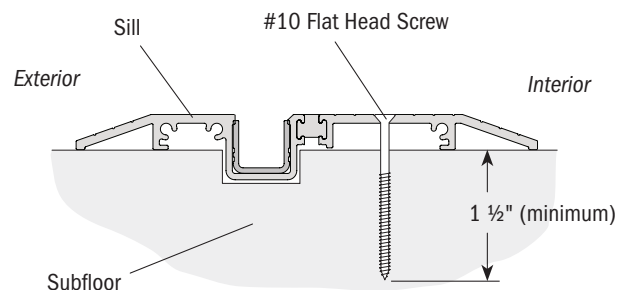
Sealant (color matched)

For Florida Non-Impact Certification Installation

IMPORTANT

Secure the sill with #10 flat head screws. Screws must have a minimum embedment of 1 ½" into subfloor. Use ³⁄₁₆" masonry screws if required.

· Install #10 flat head screws into countersunk holes in sill. #10 flat head screws should be of sufficient length to achieve 1 ½" embedment into subfloor. Check that sill is level. Shim as needed.
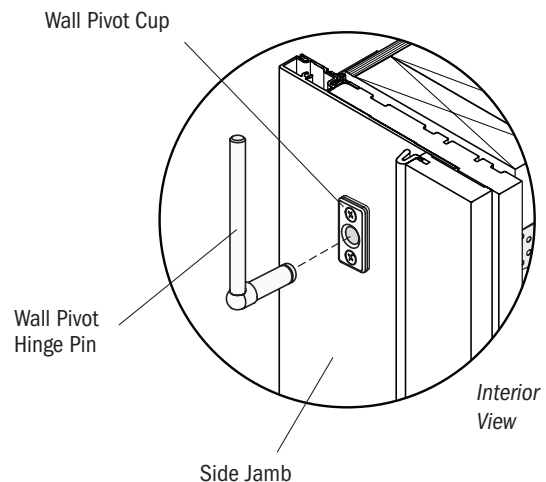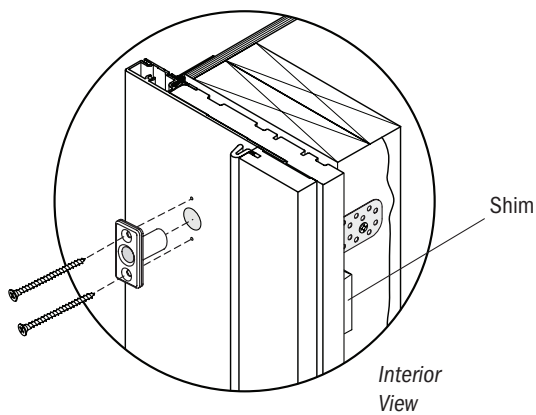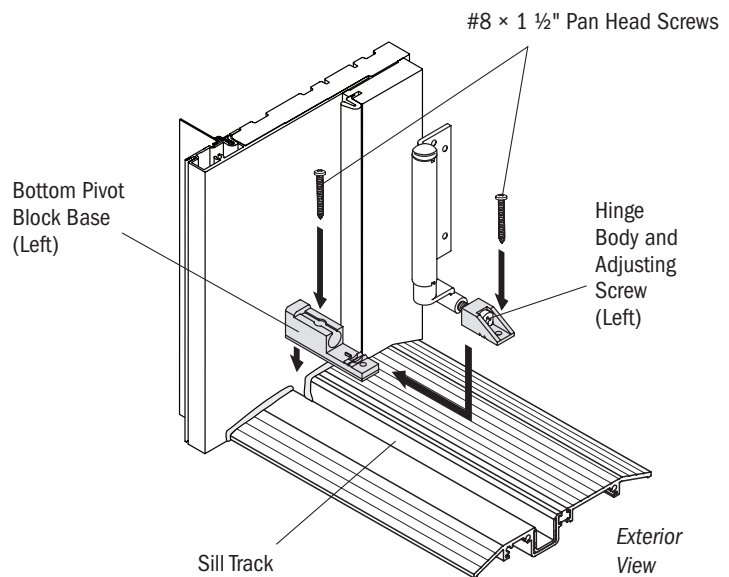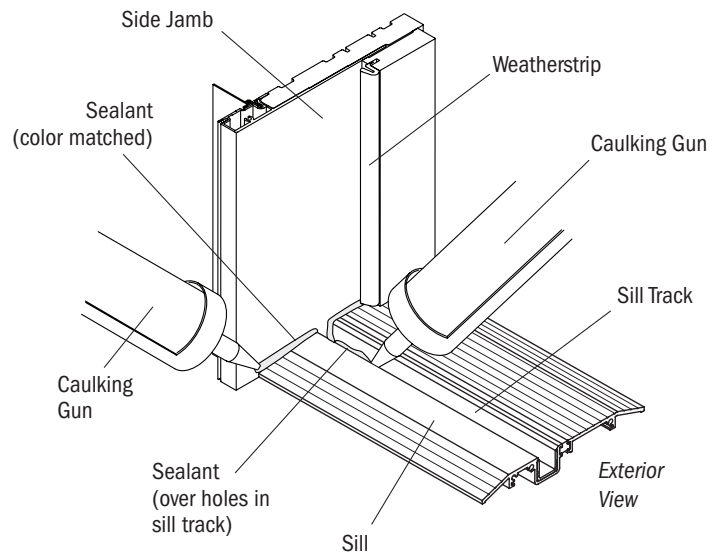
Sill

#10 Flat Head Screw

Exterior

Interior

1 ½" (minimum)

Subfloor

5. Install Hardware

- Apply continuous ¼" bead of color-matched sealant between sill and side jambs from weatherstrip to exterior edge of sill. Seal along sides and bottom of sill track.
- Apply ¼" bead of sealant over predrilled holes in bottom of sill track.
- Install bottom pivot block(s) in end(s) of sill track with supplied (from screw pack) #8 × 1 ½" pan head screws through predrilled holes. If securing directly to masonry, use masonry screws.
- Install wall pivot cup(s) with supplied (from screw pack) #10 × 2 ½" flat head screws in predrilled holes. Shim behind frame as required.
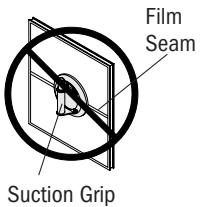- Slide wall pivot hinge pin(s) into wall pivot cup(s).

Side Jamb

Weatherstrip

Sealant (color matched)

Caulking Gun

Sill Track

Caulking Gun

Sealant (over holes in sill track)

Sill

Exterior View

#8 × 1 ½" Pan Head Screws

Bottom Pivot Block Base (Left)

Hinge Body and Adjusting Screw (Left)

Sill Track

Exterior View

Wall Pivot Cup

Shim

Wall Pivot Hinge Pin

Interior View

Side Jamb

Interior View

6. Install Door Panels

IMPORTANT

Door panels are numbered from left to right, (as viewed from exterior) for panel orientation purposes only, not to indicate order of installation.
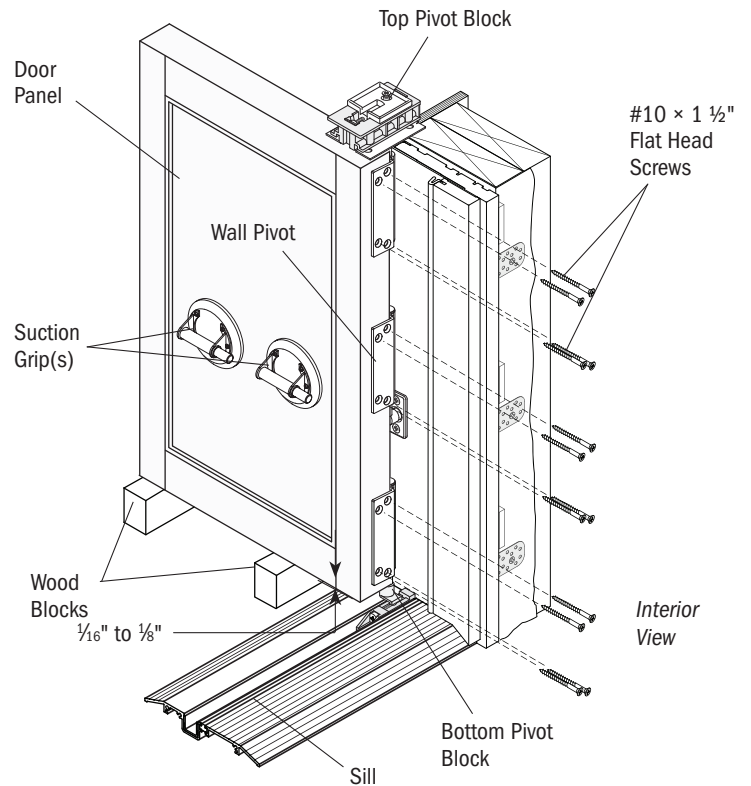
- Install the door panel(s) secured by the pivot set(s) first (adjacent to side jamb) then work towards the opposite panel. This panel could be the first or last numbered panel.
- Slide wall pivot hinge leaf(s) into wall pivot hinge pin(s).
- Place door panel in open position 90° to frame and support on wood blocks. Use adequate number of people and suction grips to lift panel. Door panel should be level and $\frac{1}{16}$" to $\frac{1}{8}$" above sill.
- Secure top and bottom pivot blocks and wall pivot(s) to door panel with supplied (from hardware pack) #10 x 1 ½" flat head screws in predrilled holes.

Pivot Set

Exterior View
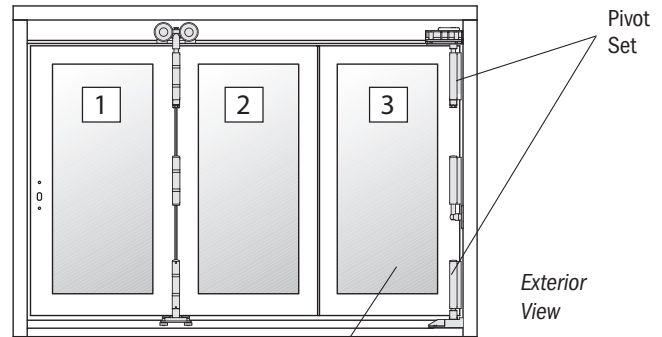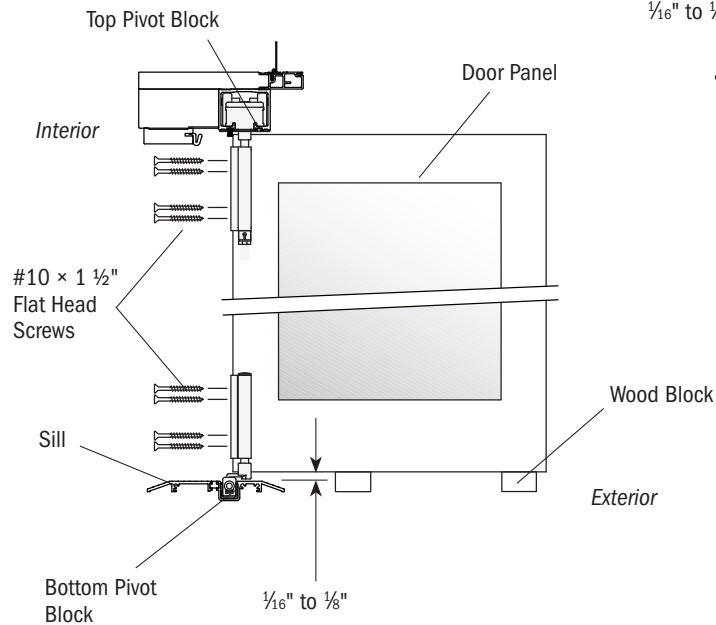
3R Door Unit

First Panel Installed

Top Pivot Block

Door Panel

#10 × 1 ½" Flat Head Screws

Wall Pivot

Suction Grip(s)

Wood Blocks $\frac{1}{16}$" to $\frac{1}{8}$"

Bottom Pivot Block

Sill

Interior View

Top Pivot Block

Door Panel

Interior

#10 × 1 ½" Flat Head Screws

Sill

Bottom Pivot Block

$\frac{1}{16}$" to $\frac{1}{8}$"

Wood Block

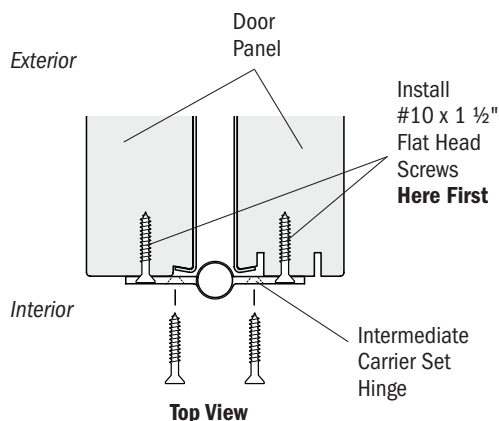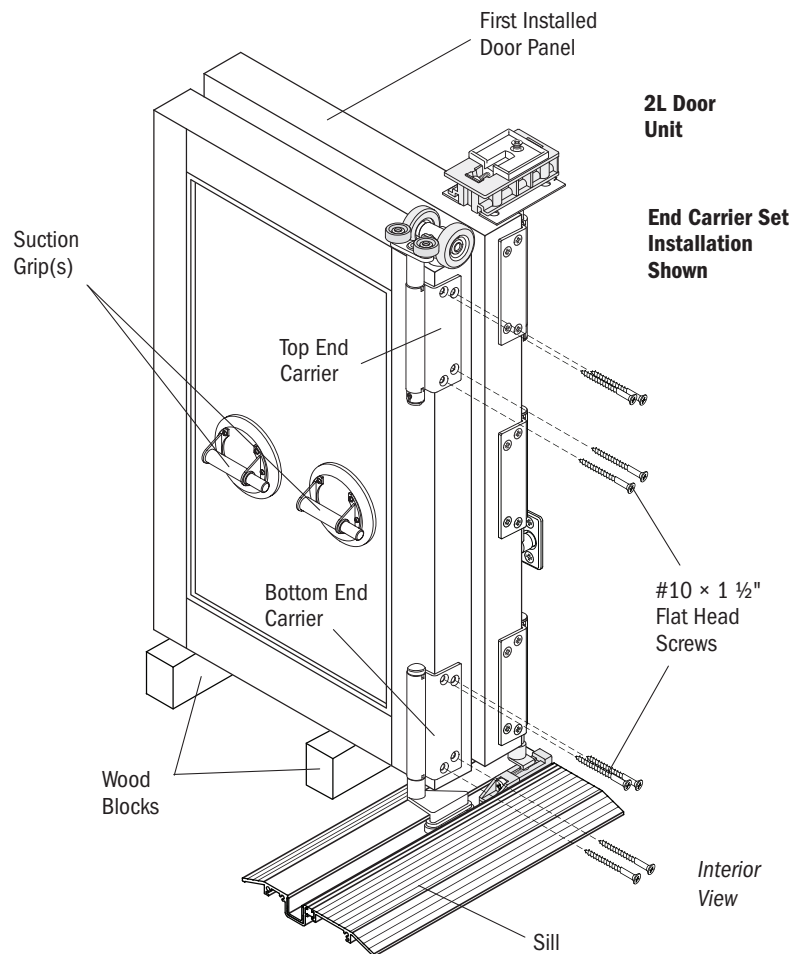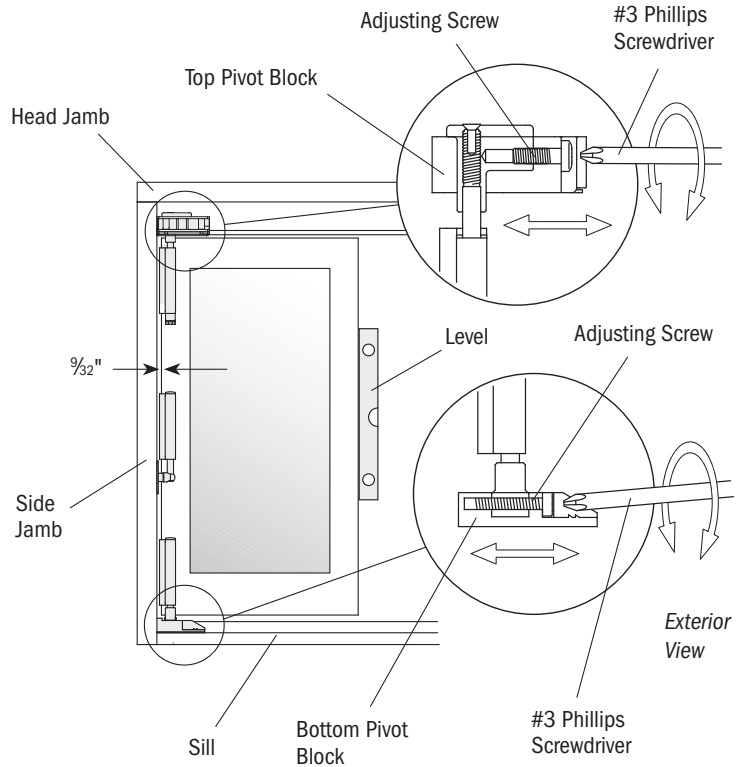Exterior

6. Install Door Panels (continued)

⚠ CAUTION

Support and lift door panel when raising door panel with adjusting screw. Failure to do so may result in product damage.

IMPORTANT

When securing panels in frame, attach panels to hardware at track first, then attach panels to each other with hinges.

· Close the door and check for a consistent $9/32$" gap between door panel and side jamb.
· Check for consistent gap between door panel and head jamb.
· Move door panel to open position to adjust pivot blocks. Check door panel for level. Adjust panel as required. See drawing.
· Place second door panel beside first installed door panel in open position. Use adequate number of people and suction grips to lift panel. Slide bottom end carrier into sill track. Support door panel on wood blocks keeping door panel level and $1/16$" to $1/8$" above sill. Match position of first installed door panel.
· Secure Intermediate or end carrier set (depending on door configuration) to edge of door panel with supplied (from hardware pack) #10 × 1 ½" flat head screws in predrilled holes. When installing screws in carriers and hinges, install outside screws first to keep hinges flat to edge of door panel. See drawings.

Adjusting Screw

#3 Phillips Screwdriver

Top Pivot Block

Head Jamb

$9/32$"

Level

Adjusting Screw

Side Jamb

Exterior View

Sill

Bottom Pivot Block

#3 Phillips Screwdriver

First Installed Door Panel

2L Door Unit

End Carrier Set Installation Shown

Suction Grip(s)

Top End Carrier

Bottom End Carrier

#10 × 1 ½" Flat Head Screws

Wood Blocks

Interior View

Sill

Exterior

Door Panel

Install #10 x 1 ½" Flat Head Screws **Here First**

Interior

Intermediate Carrier Set Hinge
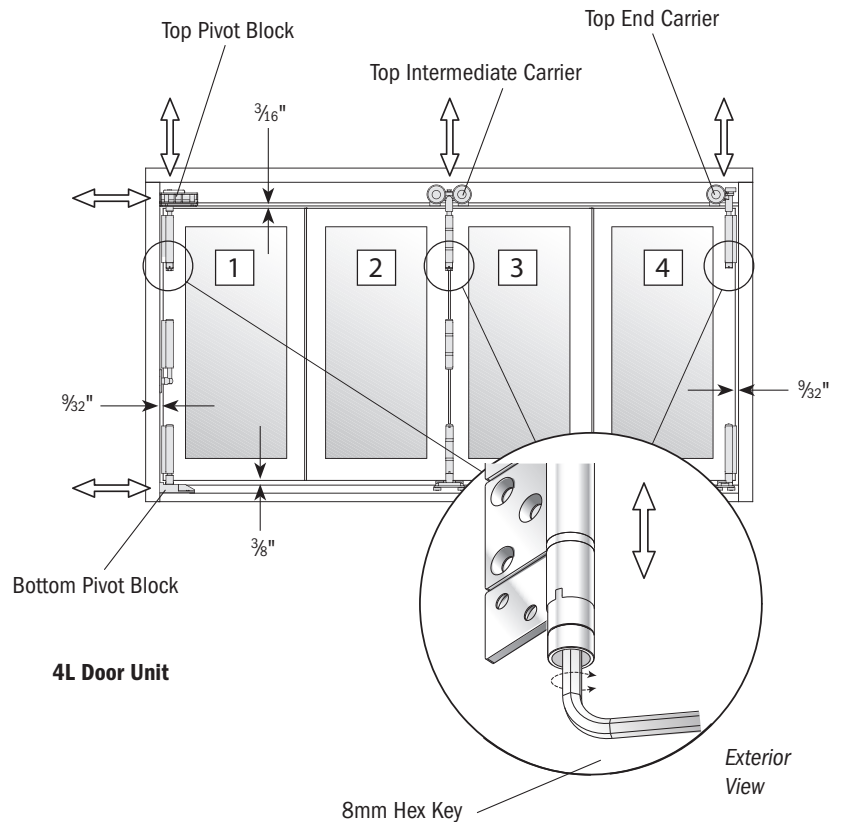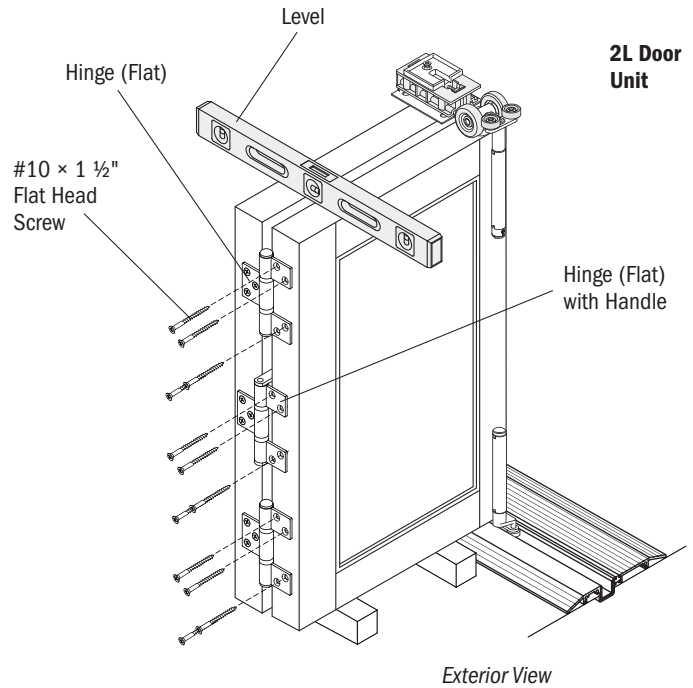
Top View

6. Install Door Panels (continued)

IMPORTANT

Hinges with handles go in the center of the door panel. One on three-hinge doors, two on four-hinge doors, and three on five-hinge doors.

IMPORTANT

Gap dimensions between panels and frame are approximate. Panels must be level, have proper weatherstrip contact and operate properly.
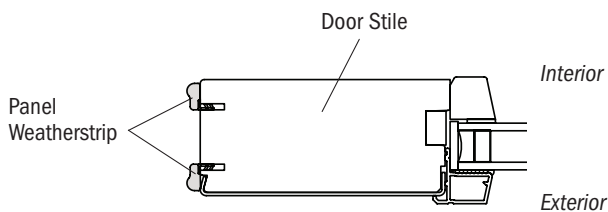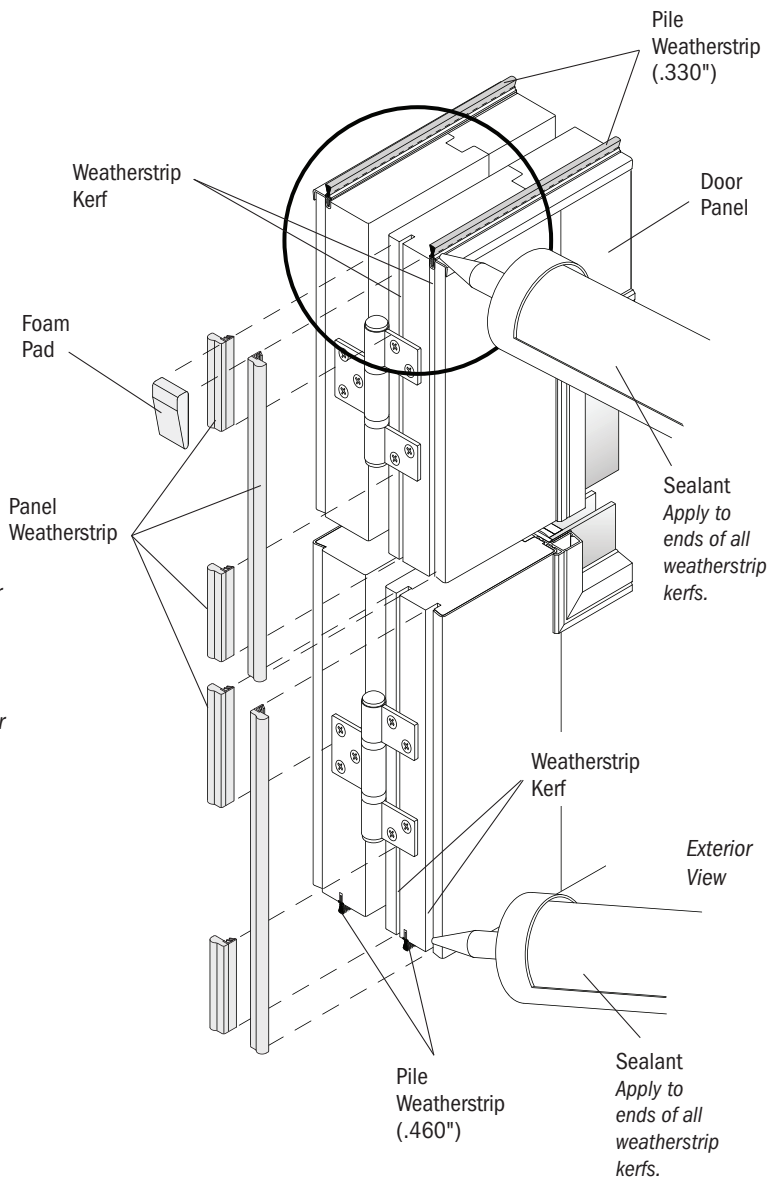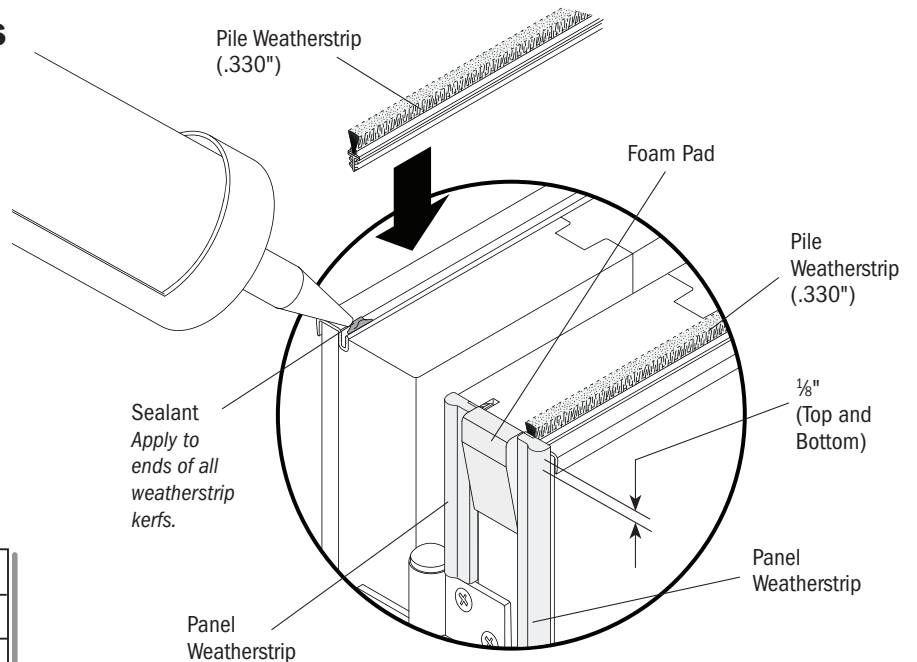
- Attach first and second door panels together by installing flat or offset hinge set (depending on door configuration) between them using supplied (from hardware pack) #10 × 1 ½" flat head screws. Keep top and bottom of door panels flush. Check for level across top of door panels. Handles face interior (go between panels) when securing hinge(s) with handle(s).

- Secure remaining panels by installing panels to hardware at the head and sill tracks first then secure to adjacent panel with hinges.

- Check for consistent $3/16$" gap between door panels and head jamb and $3/8$" gap between door panels and sill. Adjust top pivot block(s), top intermediate carriers and top end carriers as needed. Keep door panels plumb and level. Lift door panel(s) to remove weight from top carriers and pivot blocks when adjusting.

- Check for a consistent $9/32$" gap between door panels and side jambs. Adjust pivot blocks as required.

Level

Hinge (Flat)

#10 × 1 ½" Flat Head Screw

2L Door Unit

Hinge (Flat) with Handle

Exterior View

Top Pivot Block

Top Intermediate Carrier

Top End Carrier

$3/16$"

1 2 3 4

$9/32$"

$9/32$"

$3/8$"

Bottom Pivot Block

4L Door Unit
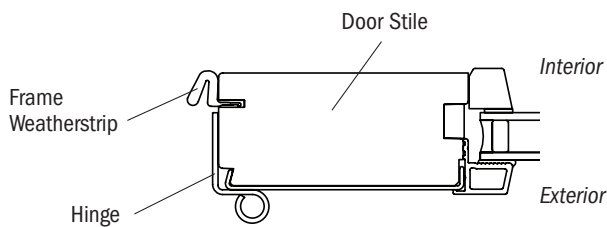
8mm Hex Key

Exterior View

7. Install Weatherstrip in Panels

- Install panel and frame weatherstrip in weatherstrip kerfs along edges of door panels. Cut panel weatherstrip around hinges. Panel weatherstrip should be ⅛" above top of door panel and ⅛" below bottom of door panel. Apply a small amount of sealant to the ends of weatherstrip kerfs before inserting weatherstrip.

- Install supplied foam pad between panel weatherstrip at the top of door panels. Foam pad should be ⅛" above door panel. Trim pad if required. See drawing for orientation.

- See chart and drawings for type and locations of weatherstrip.

Door Panel Weatherstrip Locations		
Weatherstrip	**Drawing**	**Where Used**
Panel		-between door panels
Frame		-on door panel stiles adjacent to jambs -on edge of leading door panels when adjacent to another leading door -in astragals
Pile - .330"		-on active door panel stile beside hardware -top of all door panels
Pile - .460"		-bottom of all door panels

Pile Weatherstrip (.330")

Foam Pad

Pile Weatherstrip (.330")

Sealant *Apply to ends of all weatherstrip kerfs.*

⅛" (Top and Bottom)

Panel Weatherstrip

Panel Weatherstrip

Pile Weatherstrip (.330")

Weatherstrip Kerf

Door Panel

Foam Pad

Panel Weatherstrip

Sealant *Apply to ends of all weatherstrip kerfs.*

Weatherstrip Kerf

Exterior View

Pile Weatherstrip (.460")

Sealant *Apply to ends of all weatherstrip kerfs.*

Door Stile

Interior

Panel Weatherstrip

Exterior

Orientation of Panel Weatherstrip on Door Panels (Top View)

Door Stile

Interior

Frame Weatherstrip
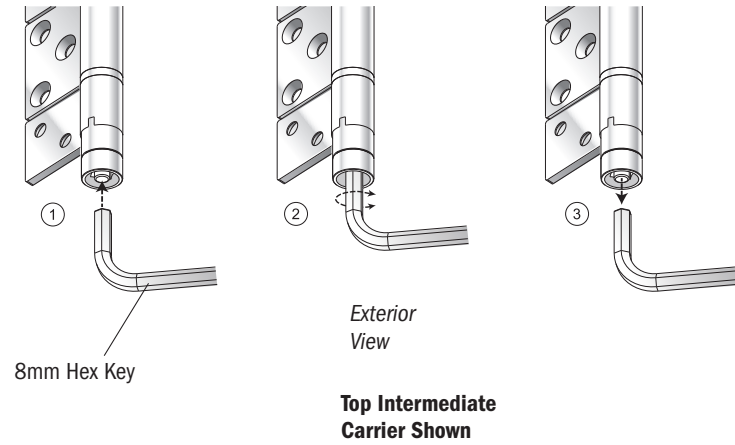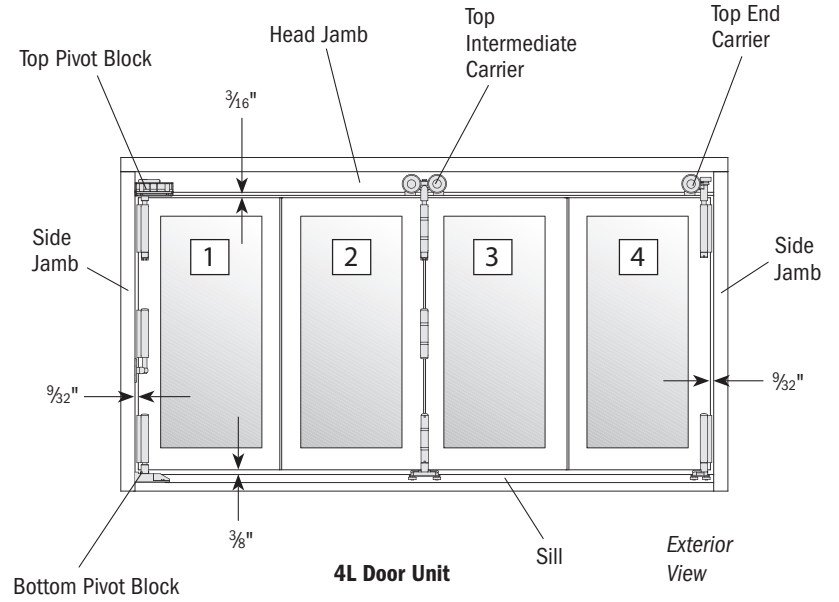
Hinge

Exterior

Orientation of Frame Weatherstrip on Leading and Jamb Panels (Top View)

8. Check Clearance and Operation

· Check operation of door unit by opening and closing door panels.
· Check clearance around door panels when closed. Adjust carriers and pivots blocks as required.

<table>
<tr><td>IMPORTANT</td></tr>
<tr><td>After 1-4 weeks of operation, check clearance and operation of door panels. Adjust pivot blocks and carriers as needed. Check head track screws. Tighten head track screws to maintain a level head track.</td></tr>
</table>

Top Pivot Block

Head Jamb

Top Intermediate Carrier

Top End Carrier

$3/16$"

Side Jamb

1 2 3 4

Side Jamb

$9/32$"

$9/32$"

$3/8$"

Bottom Pivot Block

Sill

4L Door Unit

Exterior View

1

2

3

8mm Hex Key

Exterior View

Top Intermediate Carrier Shown

9. Install Magnetic Catches

IMPORTANT

Provided magnetic catches are for installation on the exterior. Magnetic catches can be installed on the top or bottom of panels. The provided Installation Layout shows which panels get magnetic catches.
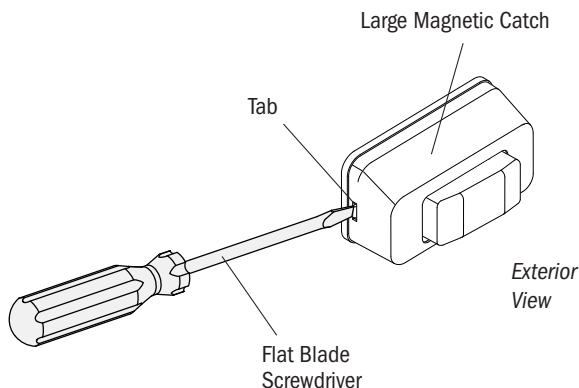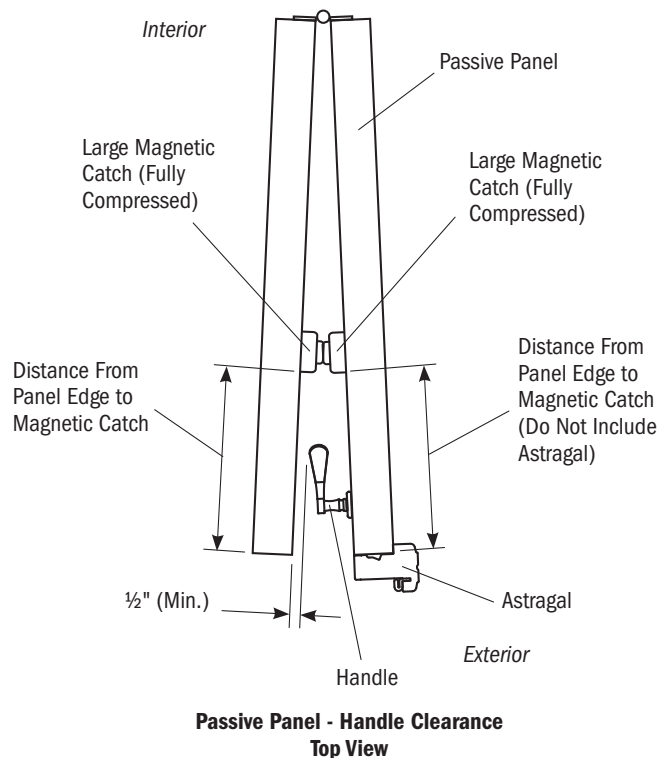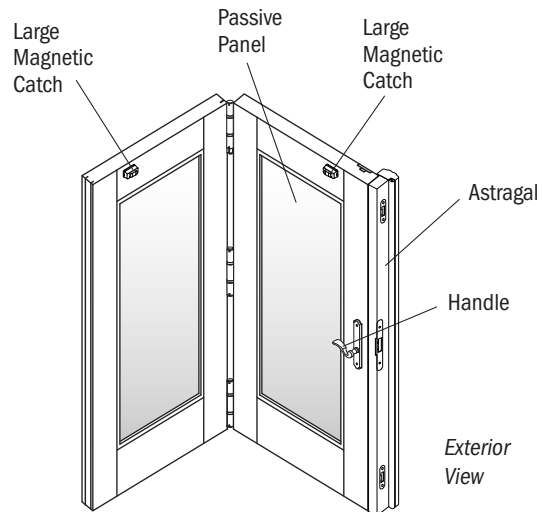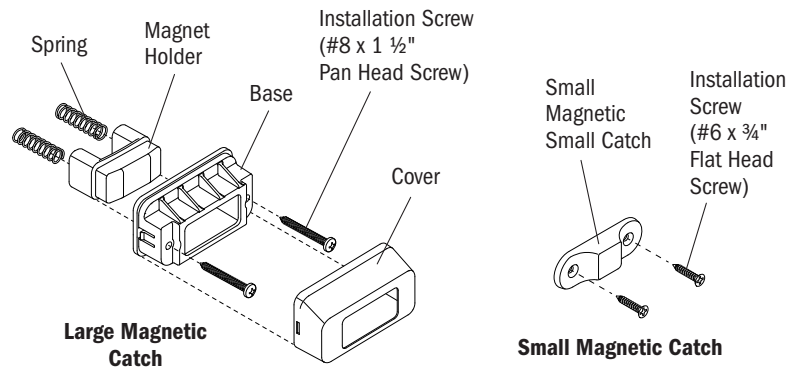
IMPORTANT

When measuring panels with astragals for magnetic catch location, do not include the astragal in the measurement.

IMPORTANT

Make sure the magnetic catches you place on opposing door panels attract (not repel) each other.

- Remove cover from large magnetic catches with a flat blade screwdriver. Push the tabs in on both sides of the magnetic catch and separate the cover from the base. Do not lose any parts.
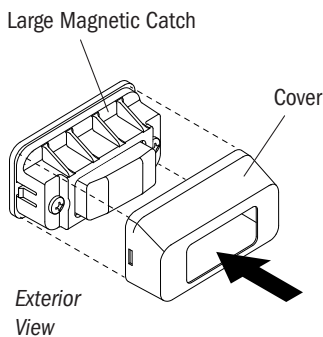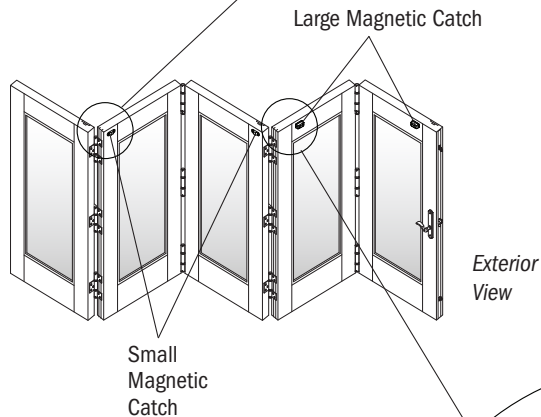
Spring | Magnet Holder | Installation Screw (#8 x 1 ½" Pan Head Screw) | Base | Cover

Large Magnetic Catch

Small Magnetic Small Catch | Installation Screw (#6 x ¾" Flat Head Screw)

Small Magnetic Catch

Large Magnetic Catch | Passive Panel | Large Magnetic Catch | Astragal | Handle

Exterior View

Tab | Large Magnetic Catch | Flat Blade Screwdriver

Exterior View

Interior | Passive Panel

Large Magnetic Catch (Fully Compressed) | Large Magnetic Catch (Fully Compressed)

Distance From Panel Edge to Magnetic Catch | Distance From Panel Edge to Magnetic Catch (Do Not Include Astragal)

½" (Min.) | Astragal | Handle | *Exterior*

Passive Panel - Handle Clearance Top View

9. Install Magnetic Catches (continued)

- Predrill door panels with ⁵⁄₆₄" drill bit by 1" deep based on small or large magnetic catch hole locations. See drawings. Measurements for hole locations are taken from edge of panel. Use a level to check that holes are level on panel.

- Inject a small amount of sealant into each hole.

- Secure magnetic catches to door panels with provided screws. Make sure springs stay in location in large magnetic catches.

- Snap covers back onto large magnetic catches.

1"

1 ⁹⁄₁₆"

Caulking Gun

#6 x ¾"
Flat Head Screw
(Color Matched)

Small
Magnetic
Catch

*Exterior
View*

1"

**Location of
Small Magnetic Catch**

⁵⁄₆₄" Hole

Large Magnetic Catch

Small
Magnetic
Catch

*Exterior
View*

2 ⁷⁄₁₆"

9 ¼"

Caulking Gun

Large
Magnetic
Catch

1 ½"

#8 x 1 ½"
Pan Head Screw

⁵⁄₆₄" Hole
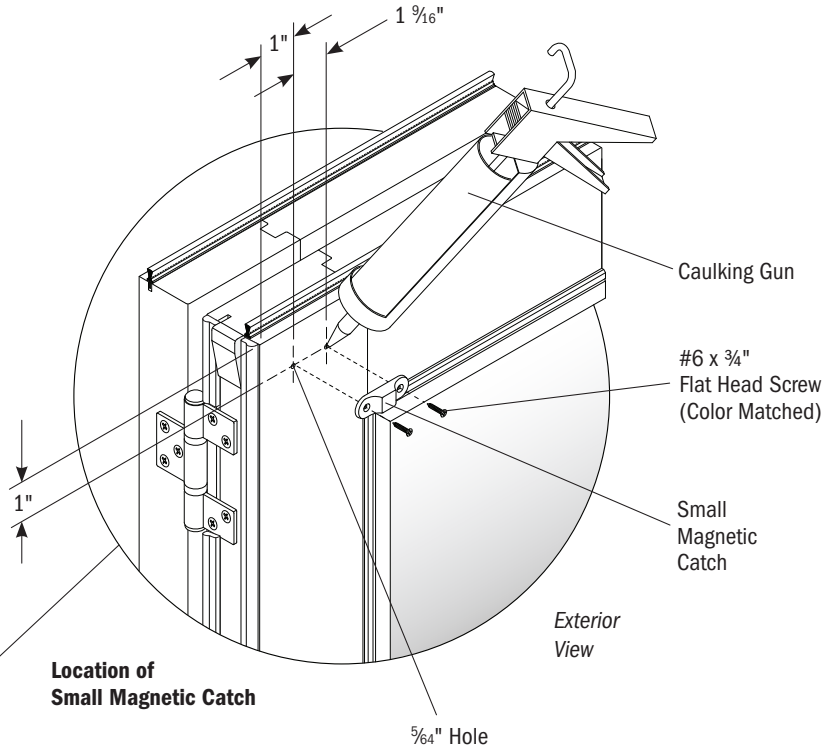
**Location of
Large Magnetic
Catch**

*Exterior
View*

Large Magnetic Catch

Cover

*Exterior
View*

10. Install Trim Set(s)

For Active and Passive Doors

> ⚠ **CAUTION**
>
> If not installing large magnetic catches, the panel stop must be installed to protect the hardware and panels. Failure to properly position magnetic catches or panel stop will result in property damage.

> **IMPORTANT**
>
> Construction lock available for operation of door unit during construction period.

- For factory supplied multi-point trim set, install trim set as directed by supplied instructions. For dummy trim set, follow instructions for passive trim set.
- Install panel stop(s) on exterior of door panel(s) with trim set(s) to protect trim set and adjacent door panel. Panel stop(s) can be installed on panel with trim set or adjacent panel and at head or sill.

Passive Door Panel Shown

Passive or Dummy Trim Set

Panel Stop

2"

5"

Exterior View
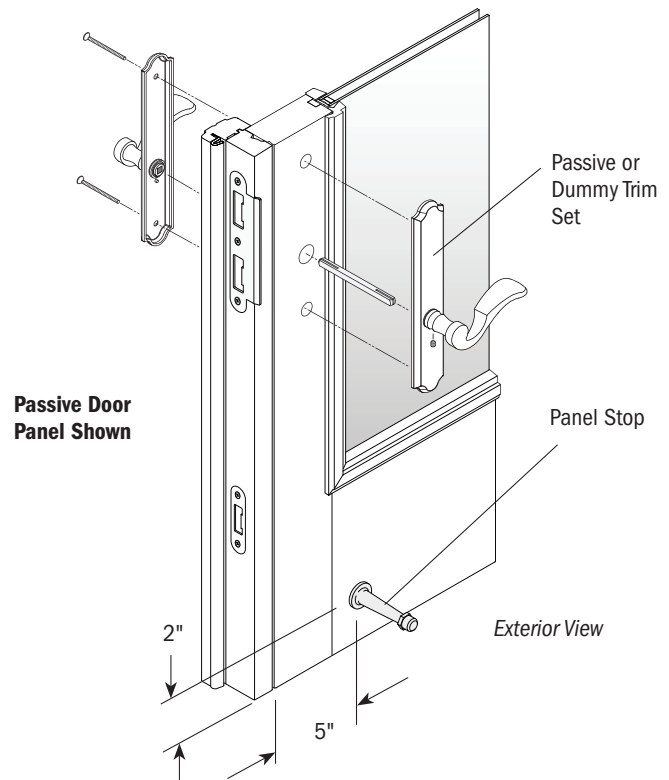
11. Flash and Seal Unit

- Apply a continuous fillet bead of sealant between brick mould and building structure around sides and head.

Sealant

Caulking Gun

Building Structure
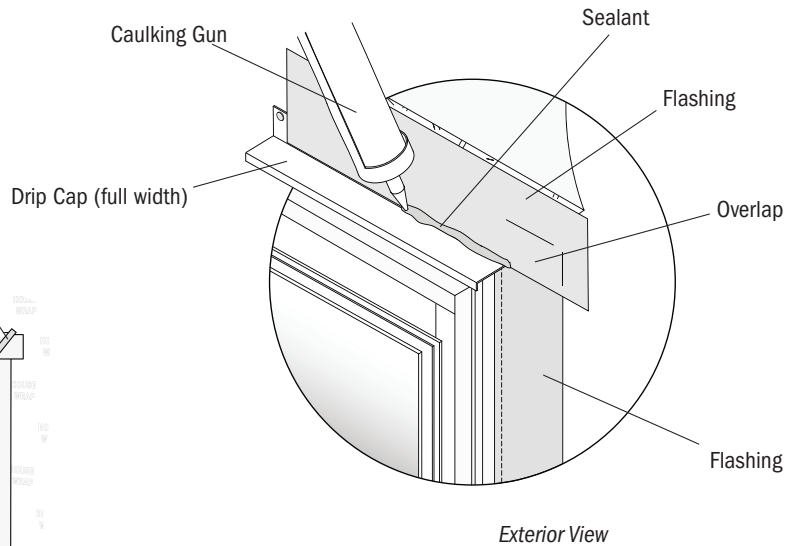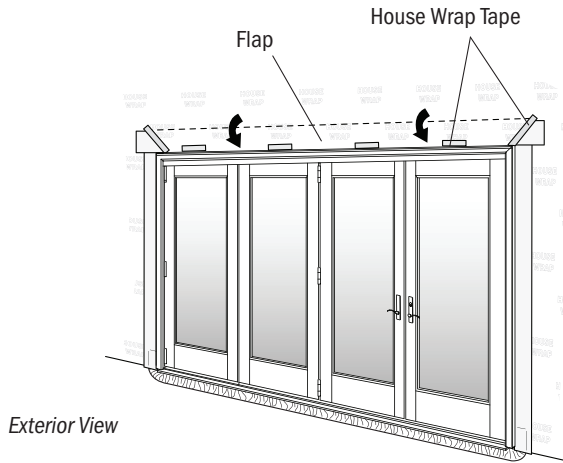
Brick Mould

Exterior View
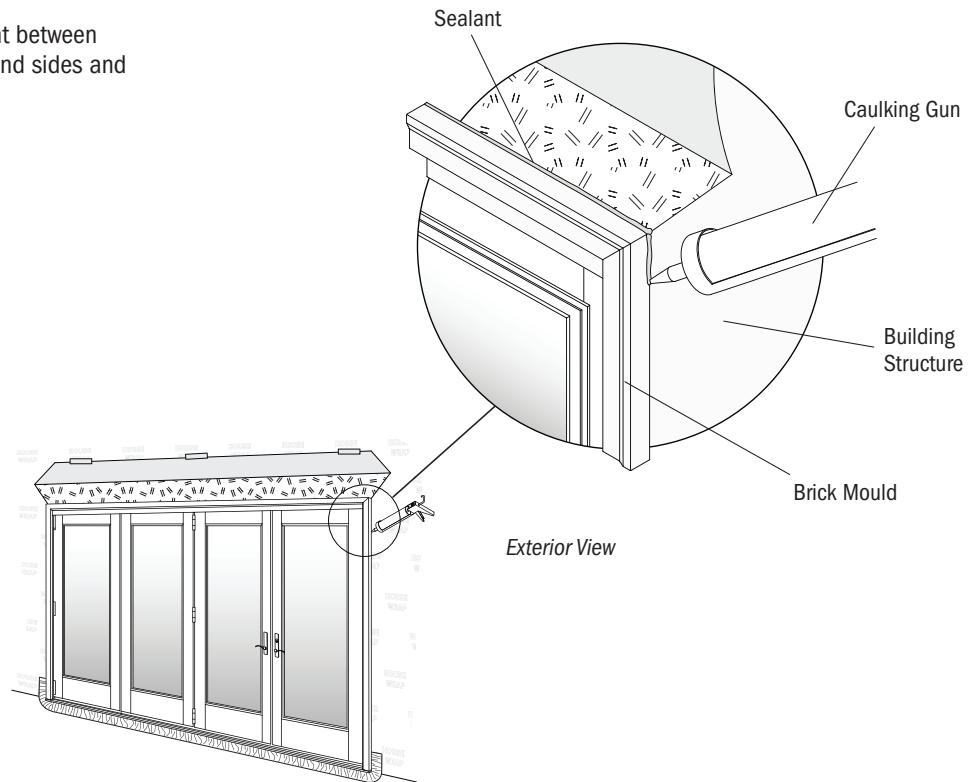
11. Flash and Seal Unit (continued)

· Apply flashing onto brick mould along sides of unit overlapping sill flashing and extending 2" above head brick mould.

· Apply a ⅜" bead of sealant ¾" above head brick mould and along top edge of head brick mould ¼" from front edge.

· Place drip cap (full width) in sealant on head brick mould, centered over unit. Secure to building structure using 1 ¾" roofing nails through the predrilled holes. If drip cap (full width) requires more than one piece, overlap 3" and apply sealant between overlapped pieces.
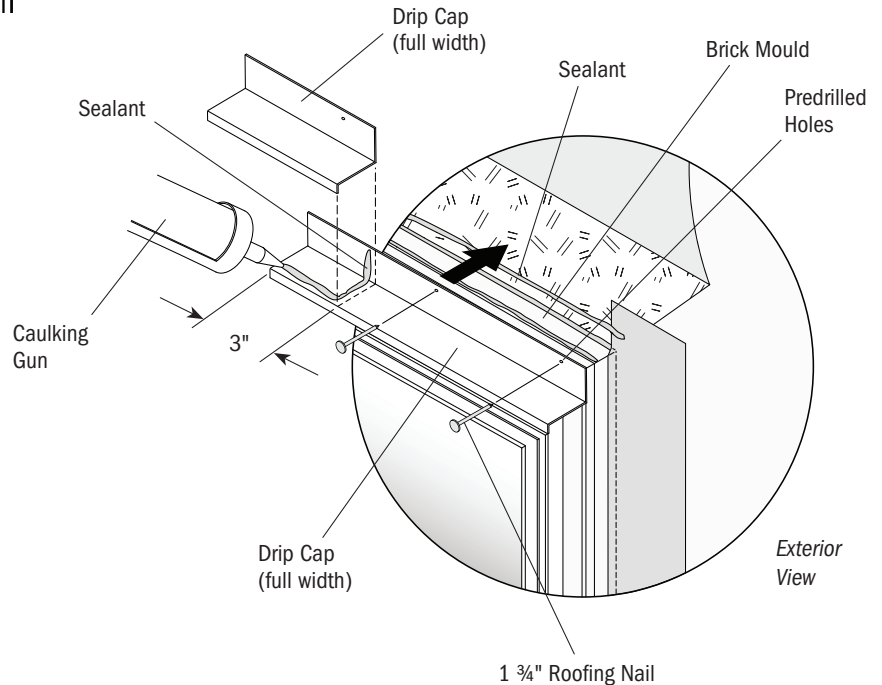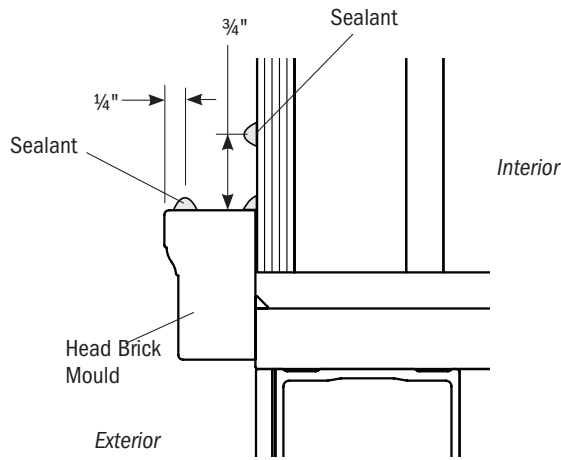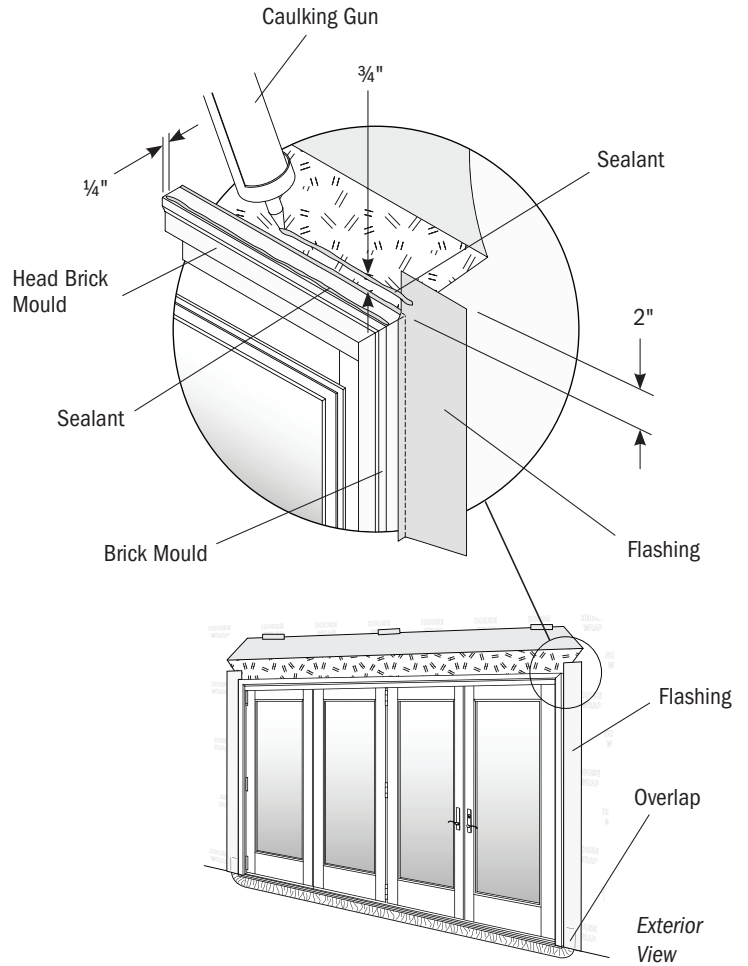
11. Flash and Seal Unit (continued)

- Apply flashing over drip cap (full width) leg at head overlapping flashing at sides.
- Apply sealant between flashing and drip cap (full width) along head.
- Fold house wrap flap down at head and secure with house wrap tape.

Flap

House Wrap Tape

Exterior View

Caulking Gun

Sealant

Flashing

Drip Cap (full width)

Overlap

Flashing
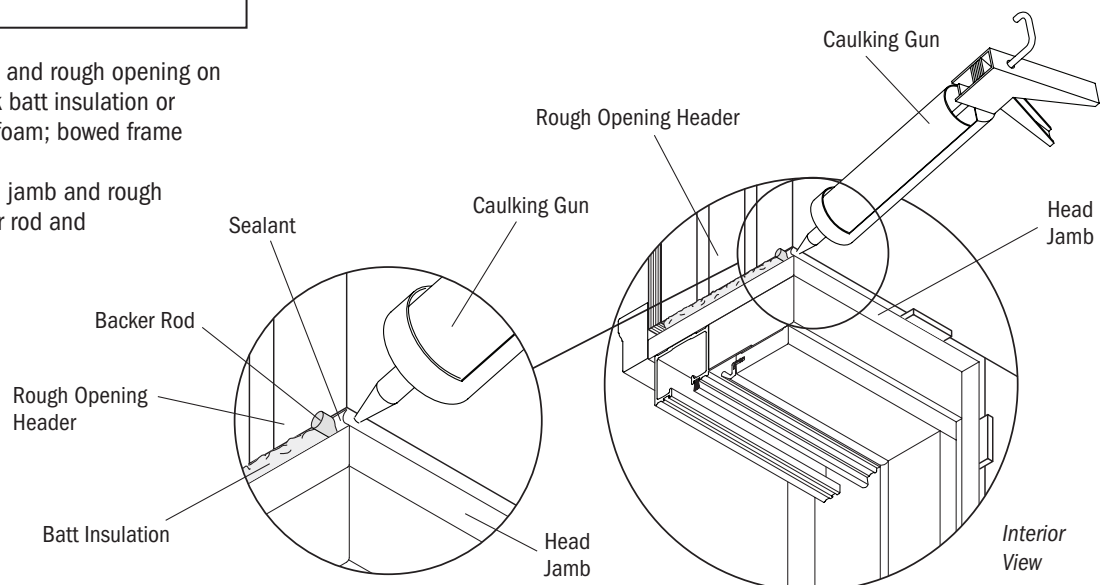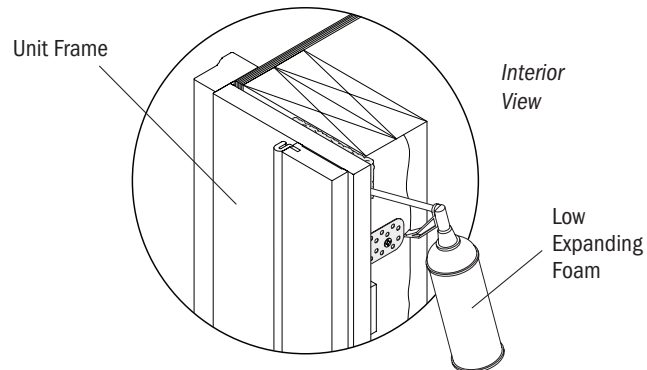
Exterior View

12. Insulate Unit

⚠ **CAUTION**

When insulating between unit frame and rough opening, or between units when joining, do not overpack batt insulation or overfill with foam. Bowed jambs will result affecting product performance and/or proper operation of unit.

⚠ **CAUTION**

Only use batt insulation between unit head jamb and rough opening header. Using expanding foam between head jamb and rough opening header will affect product performance.

- Insulate between unit frame and rough opening on all sides. **DO NOT** overpack batt insulation or overfill with low expanding foam; bowed frame may result.
- Seal gap between unit head jamb and rough opening header with backer rod and sealant from interior.
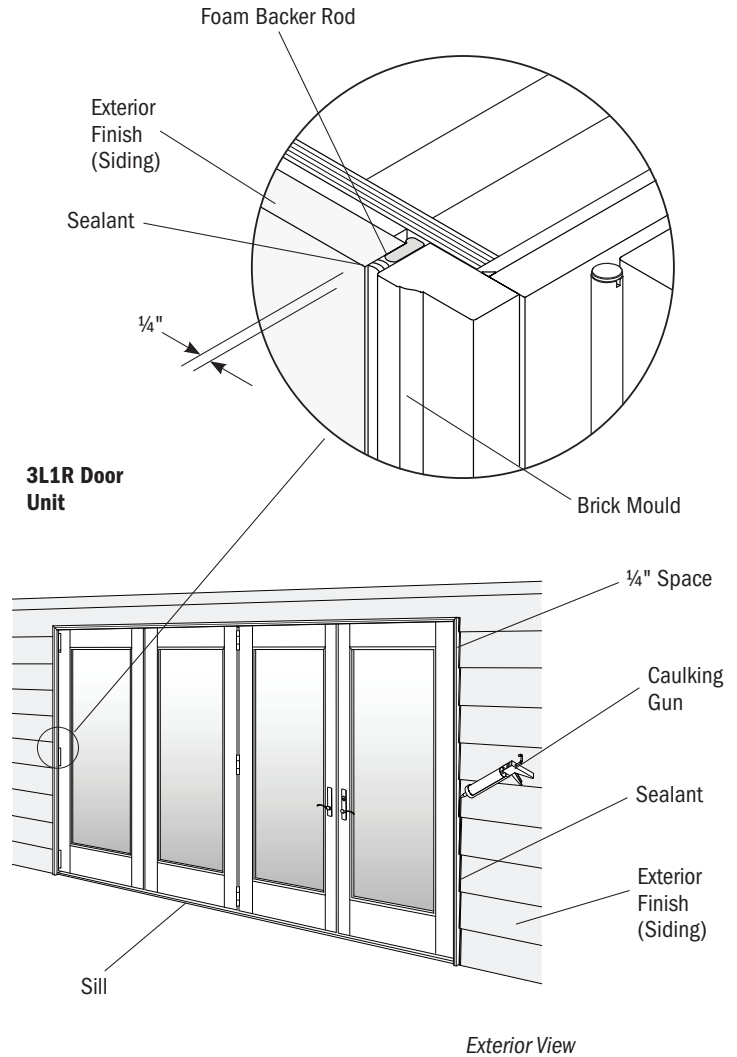
Unit Frame

Interior View

Low Expanding Foam

Caulking Gun

Rough Opening Header

Caulking Gun

Sealant

Backer Rod

Rough Opening Header

Batt Insulation

Head Jamb

Head Jamb

Interior View

13. Apply Exterior Finish and Seal

IMPORTANT

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

· Apply exterior finish leaving ¼" space between brick mould and exterior finish.

· Apply foam backer rod and a continuous bead of sealant around exterior perimeter of head and side jambs between brick mould and exterior finish, filling the ¼" space. Do not seal along exterior sill or block drain holes in sill.

Foam Backer Rod

Exterior Finish (Siding)

Sealant

¼"

3L1R Door Unit

Brick Mould

¼" Space

Caulking Gun

Sealant

Exterior Finish (Siding)

Sill

Exterior View

Installation is complete.