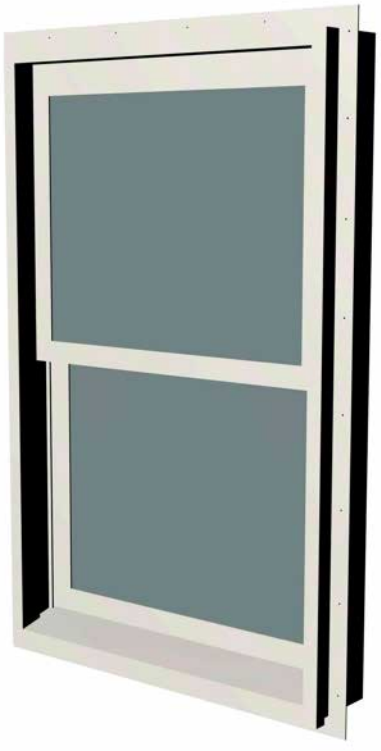
Installation Instructions for:

Project Type -
New Construction
Coastal Installation -
No
Product Series -
400 Series - Double-Hung Window
Product Type -
Tilt-Wash (Window Heights Less Than 6' 5")
Shape -
Rectangle
Wall Type -
Wood or Steel Stud
Weather Resistant Barrier (House Wrap) -
Applied Before Window/Door Installation
Water Management Method -
Barrier Method
Sill Flashing Method -
Single Piece (Continuous Pan or Continuous Formable Flashing)
Anchoring Method -
Vinyl Installation Flange (only)
Drip Cap Pre-applied -
No



Parts Included:

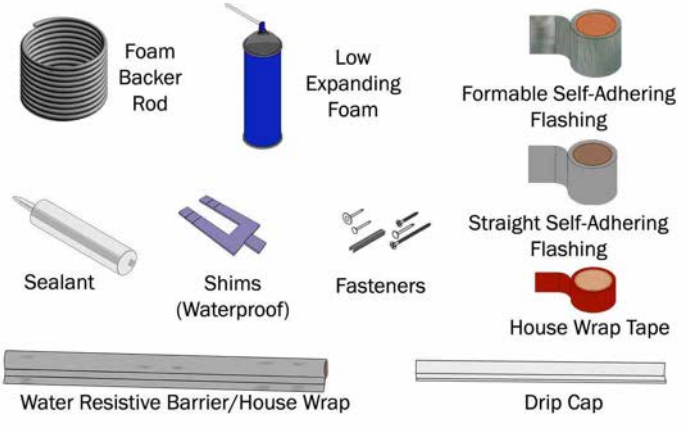
- Window
- Important Product and Safety Information
- Resource Directory
- Warranty

Read these instructions and the product safety information before starting procedure.

Typical Tools Needed



General Supplies Needed



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FASTENER CHART

INSTALLATION FLANGE ANCHORING REQUIREMENTS (select one)

Fastener	Substrate	Minimum Head	Minimum Shank	Minimum Embedment to Structural Framing	Steel Type/Coating	Spacing
Roofing Nail	Wood	5/16"	11 ga	1-1/2"	Galvanized, Zinc Chromate, *Stainless Steel, *Ceramic Coated	Every Hole
Wood Screw	Wood	5/16"	#6			
Self-Tapping Metal Screw	Metal	5/16"	#8	3 Full Threads		

†INSTALLATION GUSSET PLATE ANCHORING REQUIREMENTS (select one)

Fastener	Substrate	Minimum Head	Minimum Shank	Minimum Embedment to Structural Framing	Steel Type/Coating	Spacing
Wood Screw	Wood	5/16"	#10	1-1/2"	Galvanized, Zinc Chromate, *Stainless Steel, *Ceramic Coated	Every Hole or as shown in Step
Self-Tapping Metal Screw	Metal	5/16"	#12	3 Full Threads		

Use the correct fastener driver based on the selected fastener's head type.

Size pilot and clearance holes based on the selected fastener's shank diameter as needed.

*Use 300 series stainless steel or ceramic coated fasteners when fastening to treated lumber.

†Gusset plate is concealed behind installation flange on joined windows.

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, extension jambs, hardware, or accessories. 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.

• Protect surfaces from tool contact. Failure to do so could result in injury, product damage, or surface marring.

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

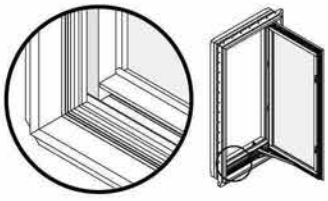
NOTICE

- **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.

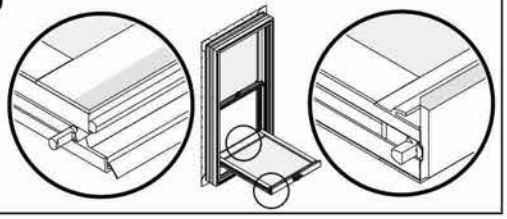
Finishing (Continued)

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

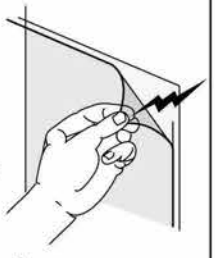
⚠ WARNING

• **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

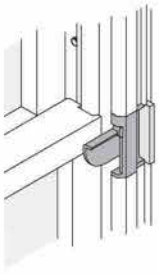
⚠ WARNING

• **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.

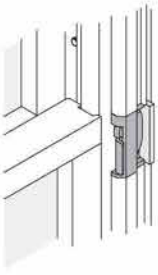
• **DO NOT** install air conditioner in window. Doing so could result in injury, product or property damage.



• 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

⚠ CAUTION

• **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

⚠ WARNING

• **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

IMPORTANT

• 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.

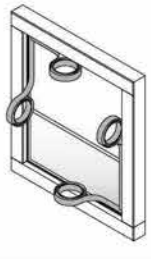
• Protective film is not present on all windows or doors. Protective film is not a substitute for masking.

• 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.

1



Remove packaging materials except for banding tape and clips (if present). Leave banding tape and clips in place until instructed to remove.

OR



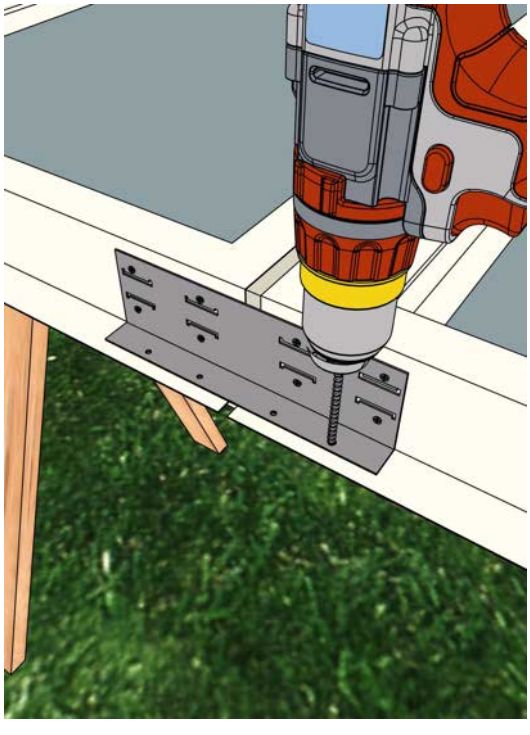
Verify that sash is closed and locked. Remove packaging materials except for banding tape. Leave banding tape in place until instructed to remove.

2



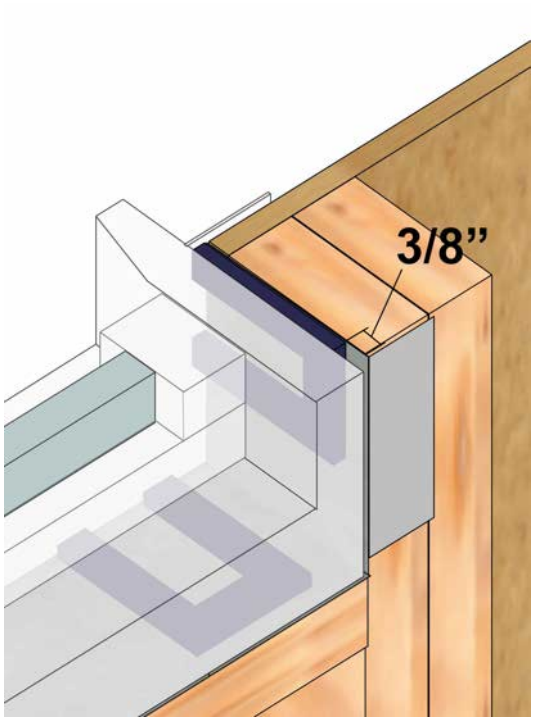
Verify that the installation flanges are clean, dry, and free of debris. If they are not, clean the installation flanges on both sides using soap and water, or a non-abrasive solvent-free cleaner. Rinse and dry flanges thoroughly after cleaning.

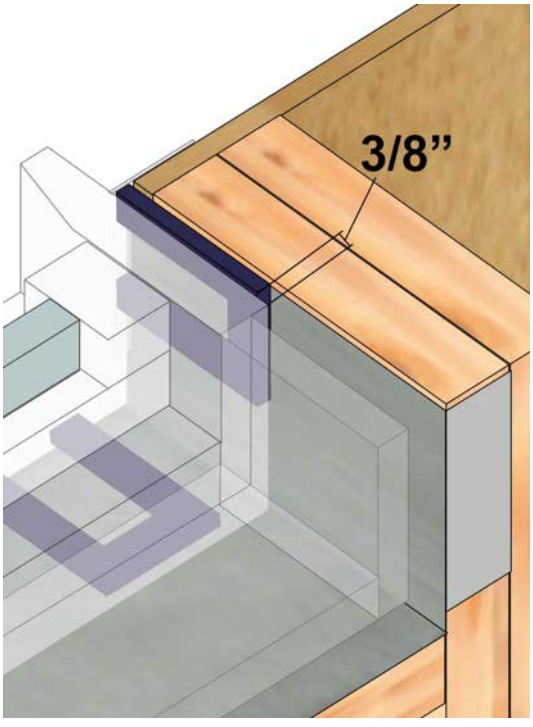
3



If gusset plates are present, drill installation clearance holes through the gusset and installation flange using gusset plate holes as a template.

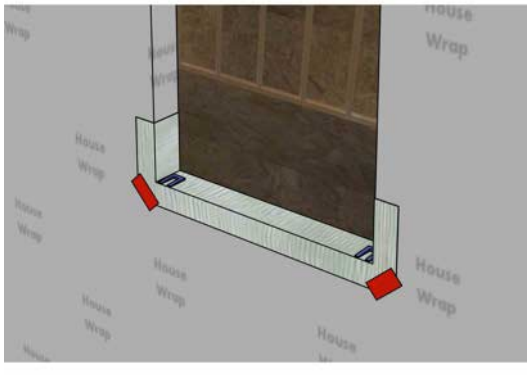
4





Prepare shims to allow for a 3/8" space for interior sealing as shown.

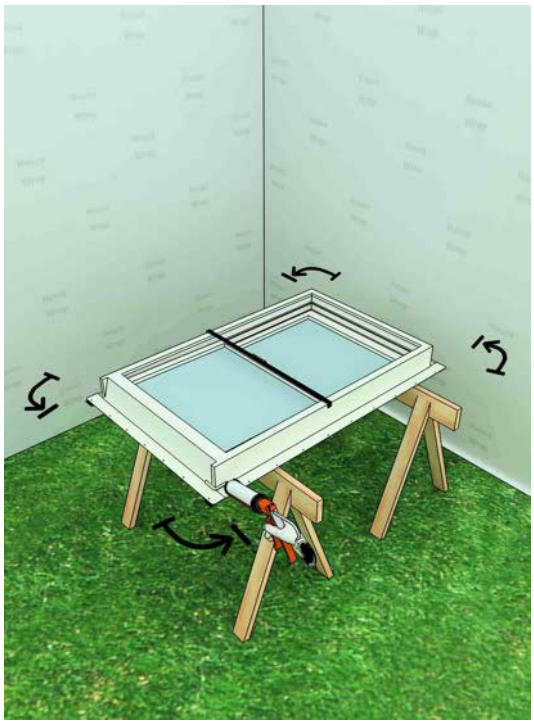
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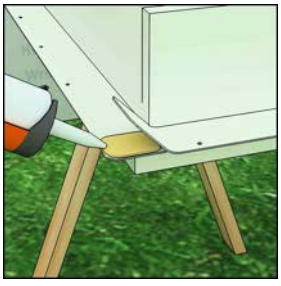


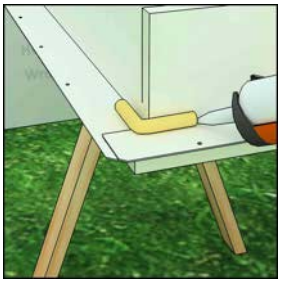
Place shims on the bottom of the opening under the side jamb locations inset 1/4" from each side.

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6

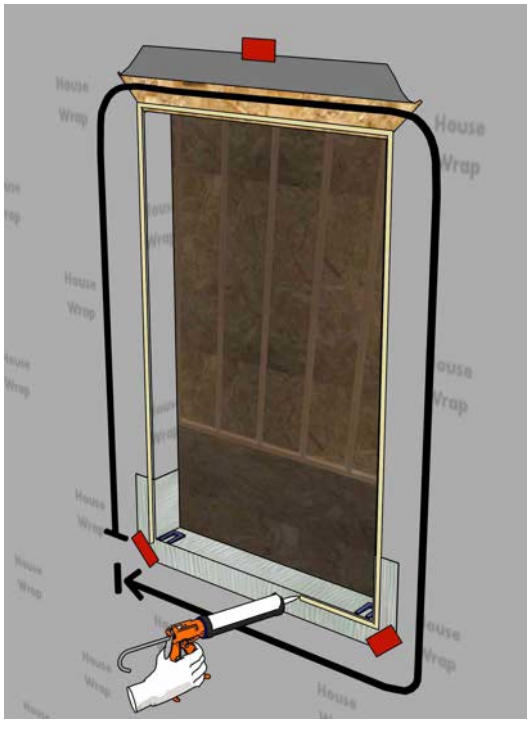






Apply sealant between all flange overlaps and to all corners as shown.

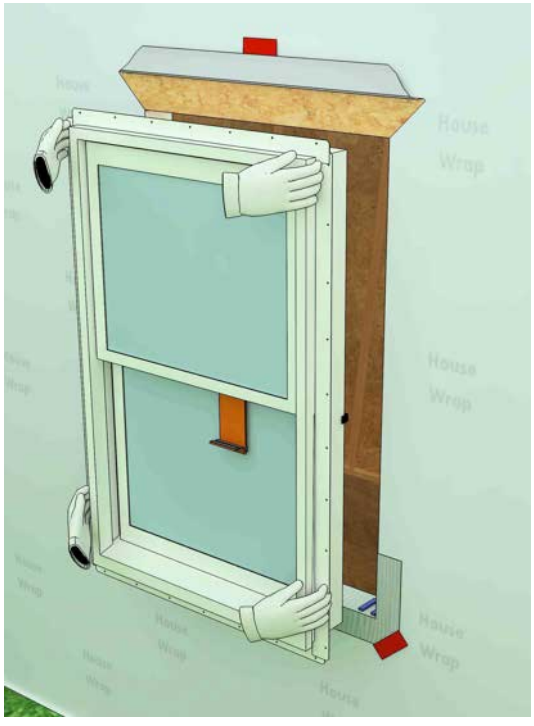
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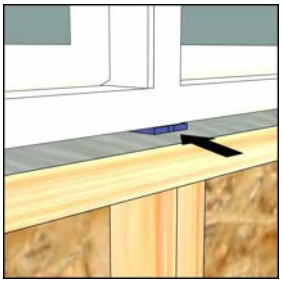


Apply a 1/4" sealant bead to the full perimeter of the opening, no more than 1/2" from the edge as shown.

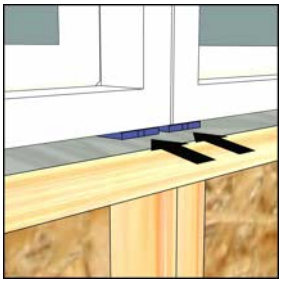
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8







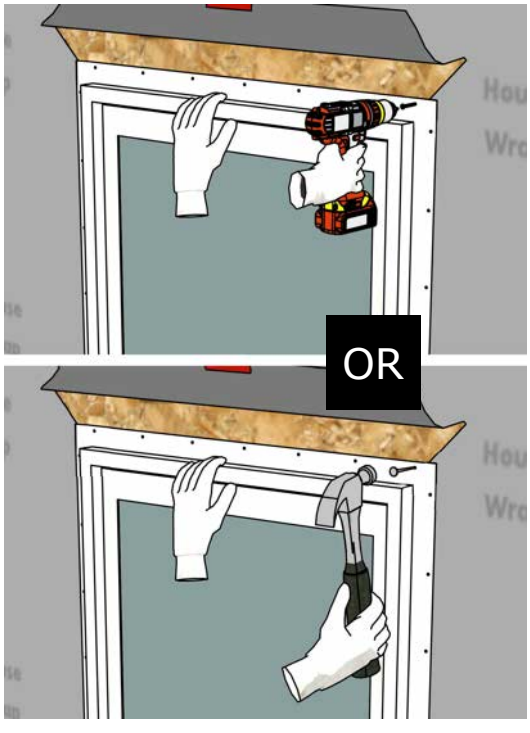


Center the window in the opening, setting the window on the shims. Make sure shims are positioned under the side jambs and integral or joined combination locations as shown.

NOTICE

Place shims directly under side jambs, intermediate jambs, and meeting stiles. At gusset plate locations, place shims as close to jambs as possible without interfering with gusset plate screws. Failure to do so could result in product damage and could affect operation.

9



Temporarily fasten with a single fastener at top as shown.

10



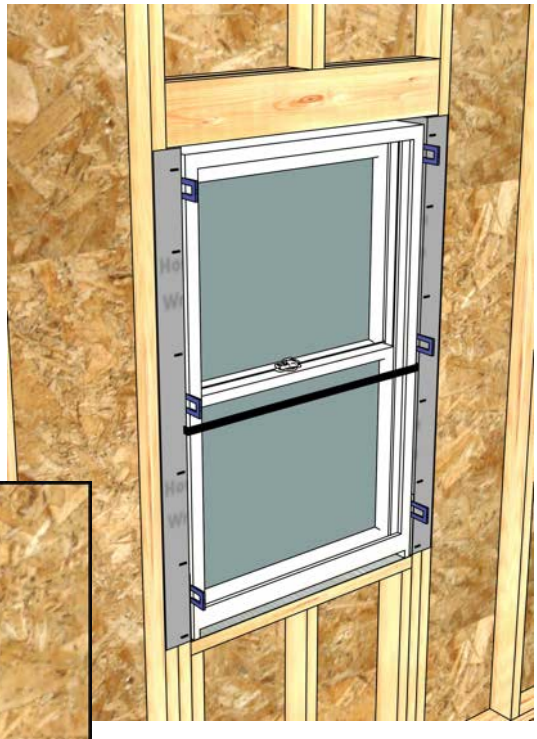
If packing clip is present, tilt in bottom sash following steps at top of window and remove packing clip. Close, lock, and secure window following steps at top of window.

11



For joined units only, verify that all flange overlaps are sealed and top side flanges are lapped over bottom side flanges to the exterior.

12





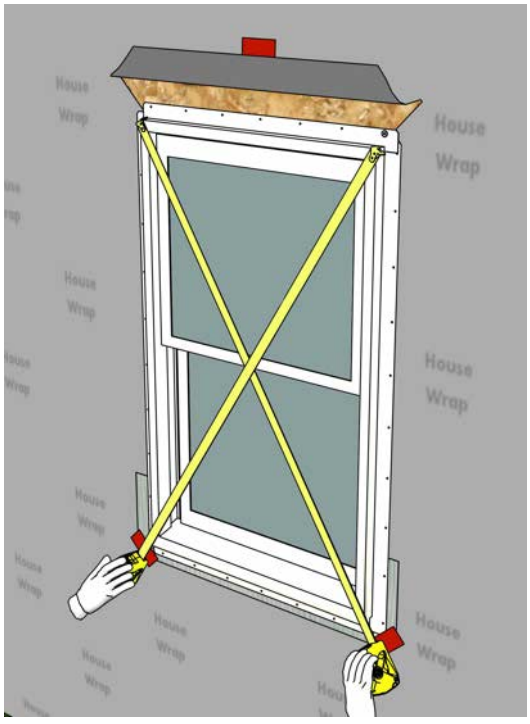
Shim at the sides of the window using precut shims. Shim at meeting rail locations.



NOTICE

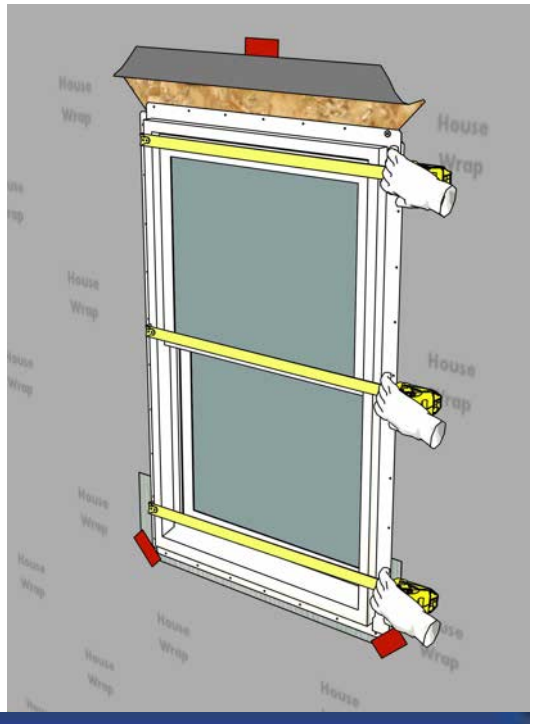
Additional shims and measuring are required on windows 5'-4" in height or taller. Failure to do so could result in poor product performance.

13



Check that the frame is square. Adjust shims as needed until diagonal measurements are within 1/8".

14

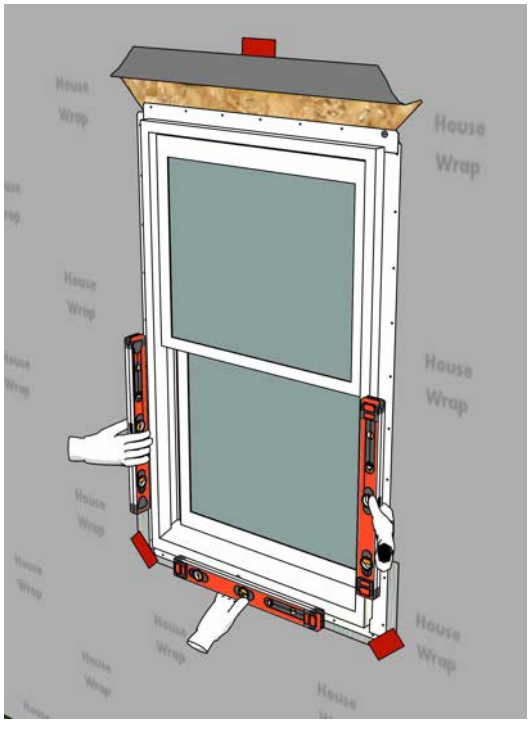


NOTICE

Correct any frame bow during installation. Failure to do so could result in product or property damage and could result in poor operation and product performance.

Check that the frame is not bowed. Adjust shims as needed until measurements are within 1/8".

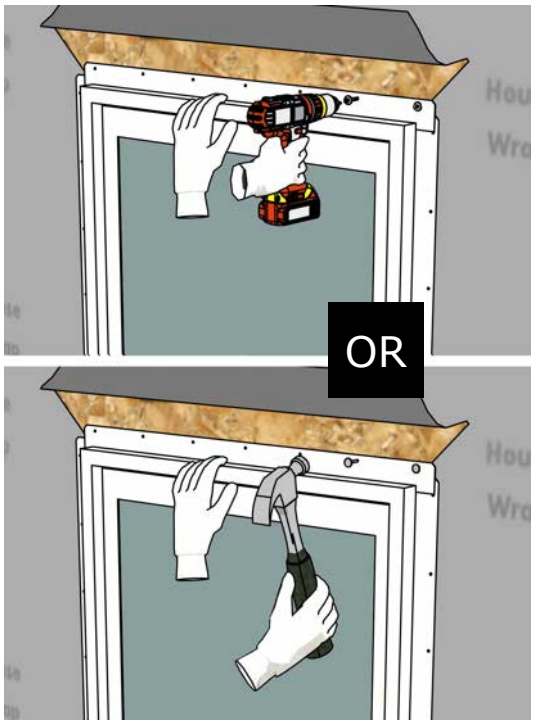
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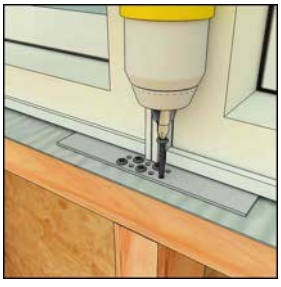
Check that the frame is plumb and level. Adjust shims as needed.

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16



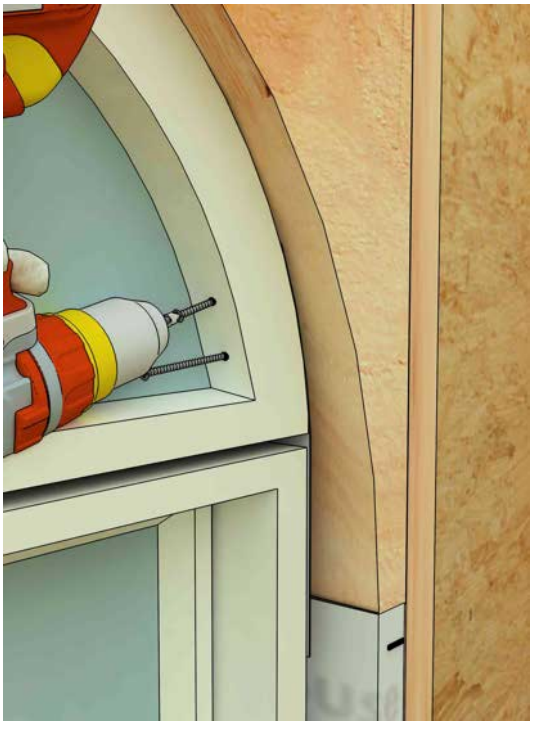




Fasten through the installation flange, installation clips, and gusset plates. See fastener chart for spacing and approved fasteners.

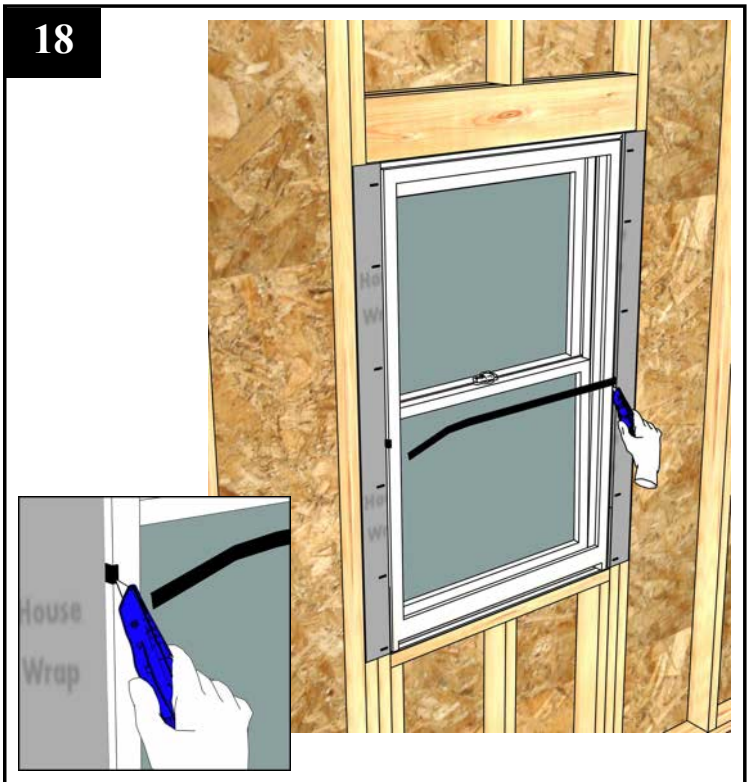
17





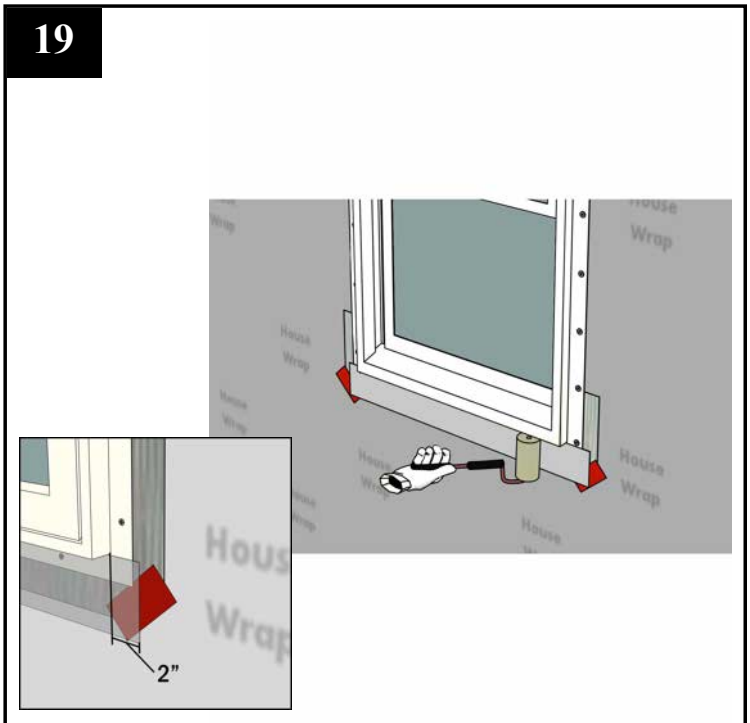
If flangeless gusset plates are present, drill installation clearance holes and fasten through the frame and gusset at 2" and 4" from midpoint of gusset as shown.

18



Cut and remove the banding tape. Check for proper window operation.

19

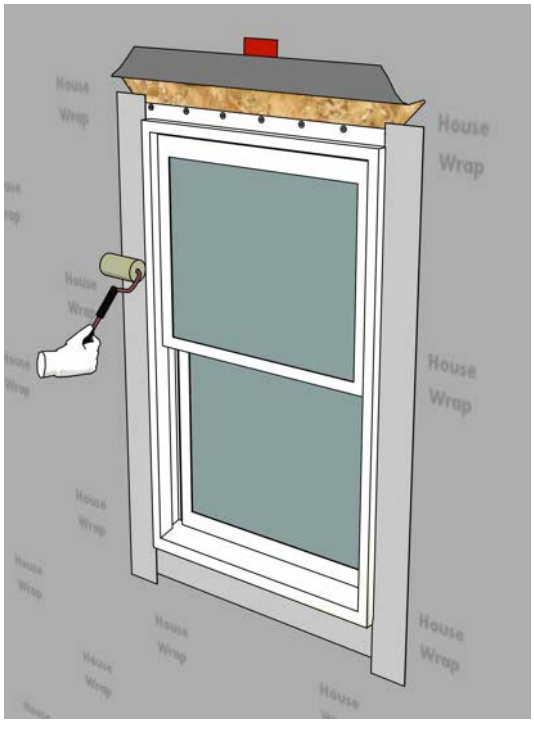


NOTICE

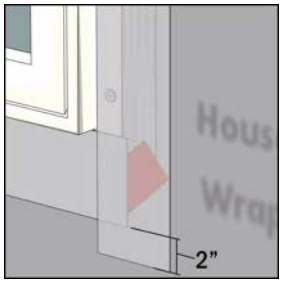
Make sure there are no wrinkles or voids in flashing during application and overlapping. Failure to do so could result in product or property damage.

Apply flashing at the bottom edge, overlapping the installation flange as shown. Smooth using a J-roller.

20





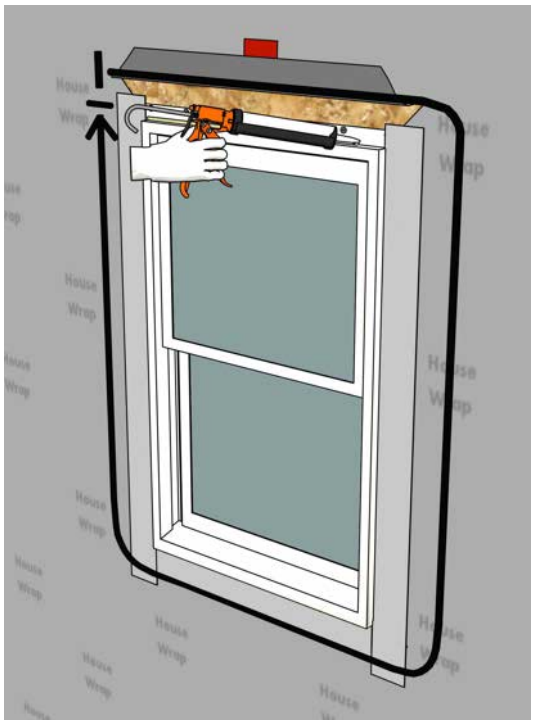


Apply flashing at the sides of the window, overlapping sill flashing as shown. Smooth using a J-roller.

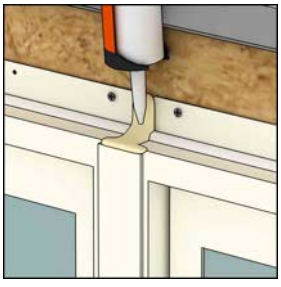
NOTICE

Make sure there are no wrinkles or voids in flashing during application and overlapping. Failure to do so could result in product or property damage.

21

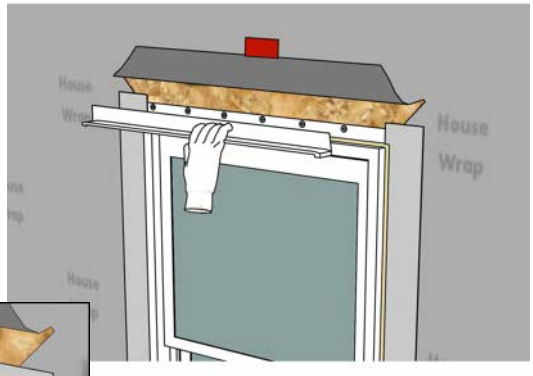






Apply a 1/4" sealant bead to the full perimeter where installation flange meets frame. Check that the sealant has been applied to all joined ends, if not, apply sealant. Quickly go to next step.

22

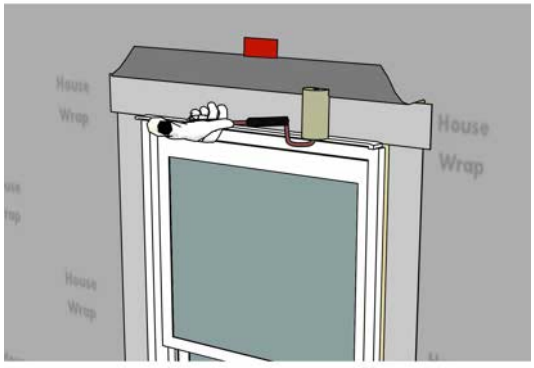




Place the drip cap (full width) in sealant as shown.

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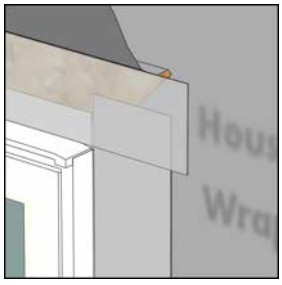
23



NOTICE

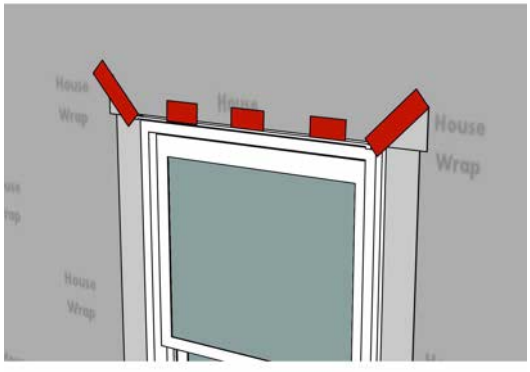
Make sure there are no wrinkles or voids in flashing during application and overlapping. Failure to do so could result in product or property damage.

Side flashing cannot extend above top flashing. Doing so could result in product or property damage.



Apply flashing over the drip cap leg, overlapping the side flashing as shown. Smooth using a J-roller.

24

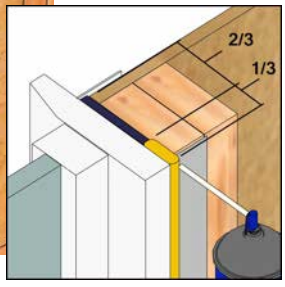


Unfold the house wrap top flap and tape the seams using house wrap tape as shown.

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Low Expanding Foam Option





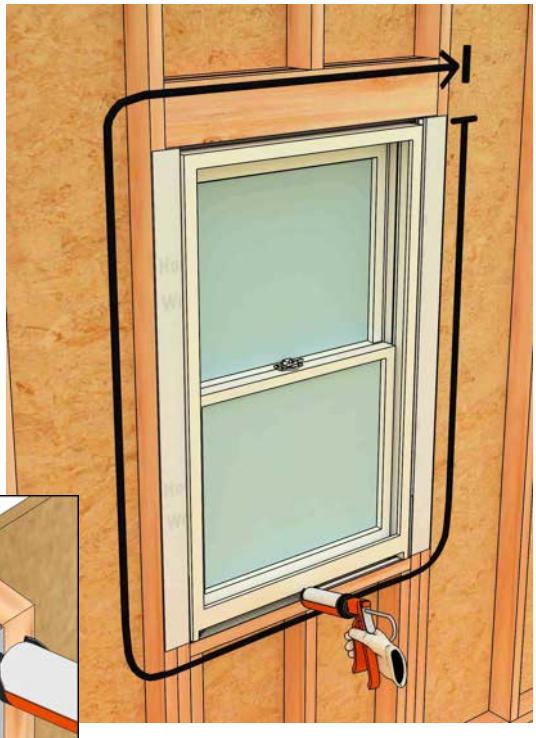
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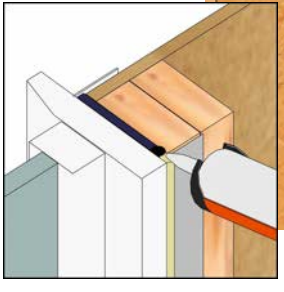
DO NOT overfill with low expanding foam or overpack with backer rod between the frame and opening or between joined windows or doors. Doing so will bow window or door jambs and could result in poor operation and product performance.

OR

Backer Rod and Sealant Option







Apply sealant continuously to full perimeter of opening, filling interior 1/3 of cavity as shown using backer rod and sealant, low expanding foam, or a combination of these methods.

Installation is complete.