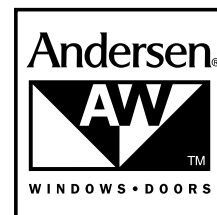# Installation

for Andersen® 400 Series Woodwright® Double-Hung Windows

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. For installation methods not covered in this guide, (i.e. through jamb) please visit the Architect Detail File on the web (www.andersenwindows.com). Andersen has no responsibility in regard to the post-manufactured assembly and installation of Andersen products.

⚠ WARNING

Using ladders and/or scaffolding and working at elevated levels may be hazardous. Follow equipment manufacturer's instructions for safe operation. Use extreme caution when working around window and door openings. Falling from opening may result in personal injury or death.

⚠ WARNING

Improper use of hand/power tools could result in personal injury and/or product damage. Follow manufacturer's instructions for safe operation of equipment. Always wear safety glasses.

⚠ WARNING

Weight of window/door unit(s) and accessories will vary. Use a reasonable number of people with sufficient strength to lift, carry, and install window and door unit(s) and accessories.   Always use appropriate lifting techniques.

⚠ 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 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

- Andersen® 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. Highly reflective flashing tapes can raise the surface temperature of the vinyl to the point where vinyl deformation and product damage may occur.

- 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 and/or vinyl. In addition, excessive condensation may result causing deterioration of windows and doors.

Instruction Guide **0005339**   Revised 07/09/04

⚠ WARNING

DO NOT install air conditioning unit in window. Unit could tip or fall causing severe personal injury and/or product damage.
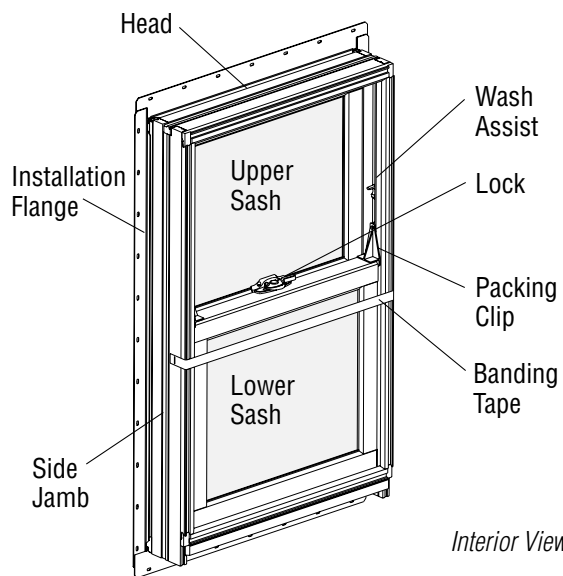
⚠ CAUTION

DO NOT attach objects to unit other than Andersen® products specifically designed for unit. Product damage and/or personal injury could occur.

⚠ CAUTION

- Steel fasteners will corrode when used with ACQ Pressure Treated Lumber.

- Obtain and use the appropriate size stainless steel fastener, as called out in this installation guide to fasten unit to any rough opening made from ACQ Pressure Treated Lumber.

- Failure to use stainless steel fasteners may result in fastener corrosion causing product damage.

NOTICE

- **DO NOT** remove banding tape and packaging clips until unit is installed.

- Narrow or Support Joining Kit is necessary when joining multiple units. Please refer to respective installation guides.

- For Sill Stop, Optional Stool or Extension Jambs, please refer to individual Optional Stool or Sill Extension Jamb Instruction Guide.

Interior View

Head
Wash Assist
Installation Flange
Upper Sash
Lock
Packing Clip
Banding Tape
Lower Sash
Side Jamb

Tools and Supplies
- Safety Glasses
- Tape Measure
- Hammer
- Level
- Carpenter's Square
- Phillips Screwdriver
- Shims
- Utility Knife
- Caulk Gun
- Drill
- 5/32" Drill Bit
- Power Nail Gun
- Corrugated Nail Gun
- Silicone Sealant
- 1-3/4" Roofing Nails
- 1-1/2" (4d) Finish Nails or Screws or Corrugated Fasteners

Options and Accessories
- Extension Jambs
- Grilles
- Insect Screens
- Joining Kits
- Jamb Clips

1. Prepare Rough Opening

- Prepare rough opening for standard sized units using dimensions found in the *Andersen® Product Guide, Architectural Detail File,* or website. For custom sized unit rough openings, add 1/2" to unit width and 3/8" to unit height dimensions.

- Check for square of rough opening by measuring diagonally across, upper left to lower right and upper right to lower left corner. Measurements must be within 1/8".

- Check plumb and level using a carpenter's square and level. Sill plate must be level.
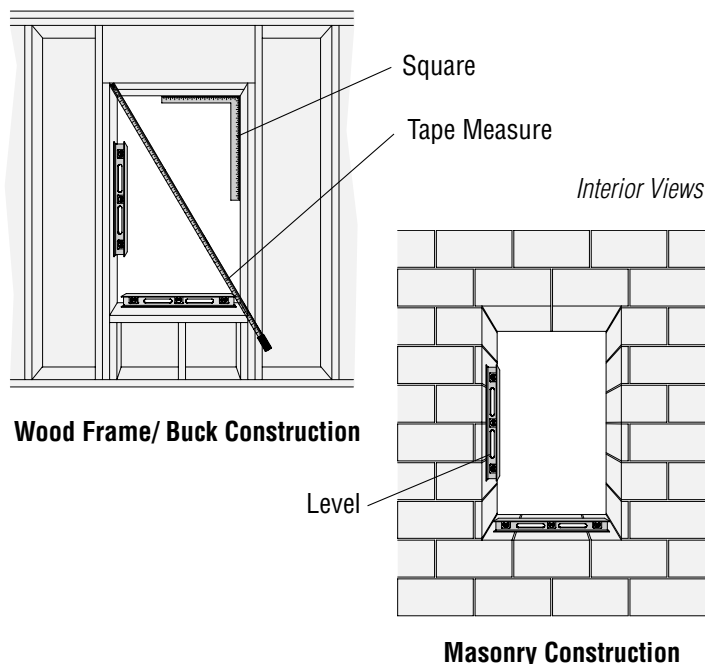
NOTICE

For masonry installations using wood bucks follow procedure for wood frame construction.

Square

Tape Measure

Interior Views

Wood Frame/ Buck Construction

Level

Masonry Construction

2. Prepare Unit

- Remove unit from packaging. Place unit interior side up on a clean, flat work surface.

NOTICE
DO NOT remove banding tape and packaging clips on unit until installed.

Interior Side Up

- Remove packaging material, except *Banding Tape* and *Packing Clips*.
- Close and lock sash. Unit must remain rigid and square during installation.

Wood Frame/Buck Construction

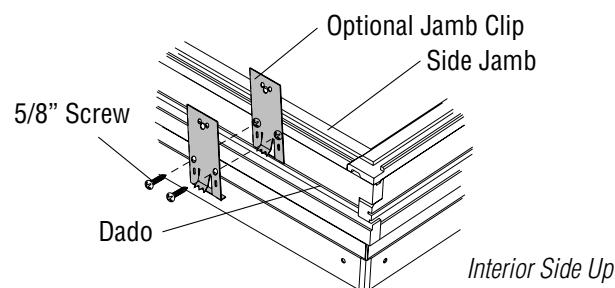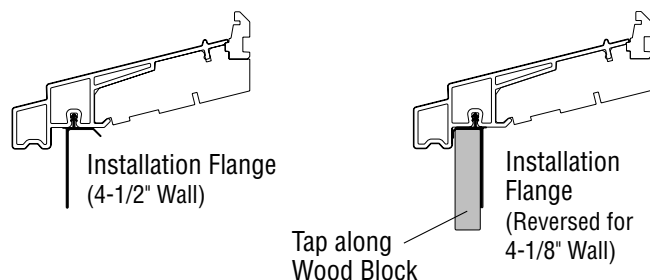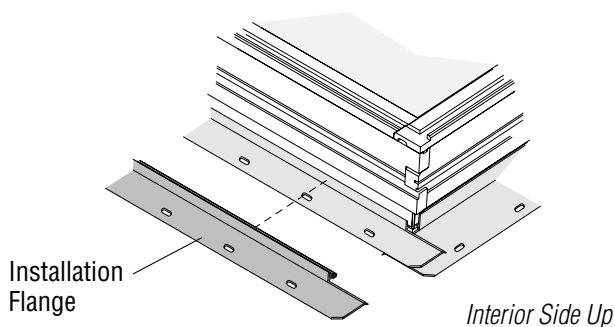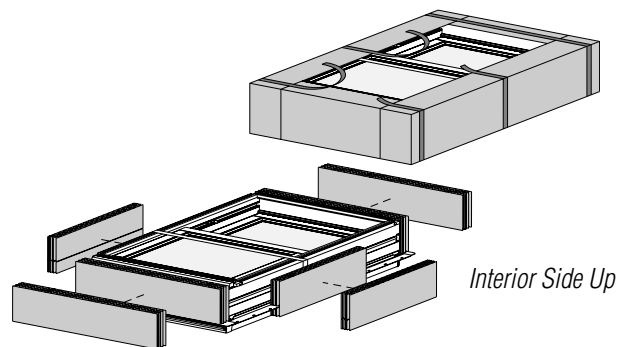| **NOTICE** |
|---|
| Installation Flanges are factory applied to fit 4-1/2" wall thickness. Installation Flanges may be reversed to fit 4-1/8" wall thicknesses. |

- For **4-1/2" Wall Thickness**, proceed to **Step 3**.
- For **4-1/8" Wall Thickness**, remove installation flanges by pulling outwards. Reverse *Installation Flange* end for end and replace in kerf. Apply *Sill Flange* first, centering along sill. Apply *Side Flanges* flush with bottom of unit overlapping *Sill Flange* to the exterior. Center *Head Flange* along head, overlapping *Side Flanges* equally.
- Tap *Installation Flanges* in place until fully seated using a wood block and hammer.
- Proceed to **Step 3**.

Installation Flange

Interior Side Up

Installation Flange (4-1/2" Wall)

Tap along Wood Block

Installation Flange (Reversed for 4-1/8" Wall)

Masonry Construction/Replacement Installations (may require removal of Installation Flanges)

NOTICE
Removal of Installation Flange may be necessary for some masonry installations, replacement installations, and/or where exterior finish (siding, brick veneer, stucco) is already applied.

- For installations with ACQ Pressure Treated Lumber, see caution on **Page 2**.
- Remove *Installation Flange* by pulling outward.
- For **Optional Jamb Clips by Andersen,** attach *Jamb Clips* in dado on back of *Side Jamb*. Position Jamb Clips 6" from each end and every 12" on center. Fasten *Jamb Clips* using two 5/8" screws. *Jamb Clips* can be bent into position if needed. Use number of *Jamb Clips* recommended by architect or structural engineer. Maximum Design Load is 200 pounds per *Jamb Clip*.
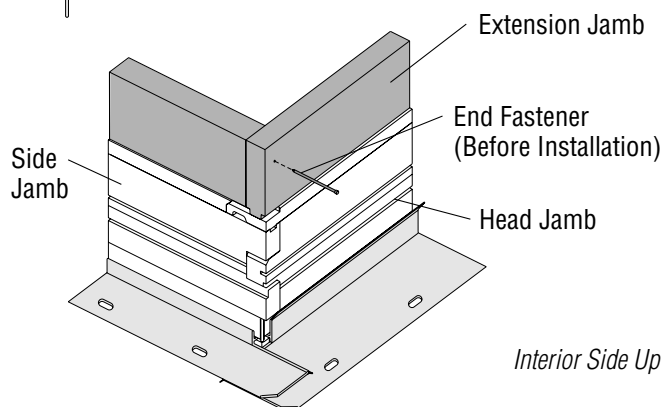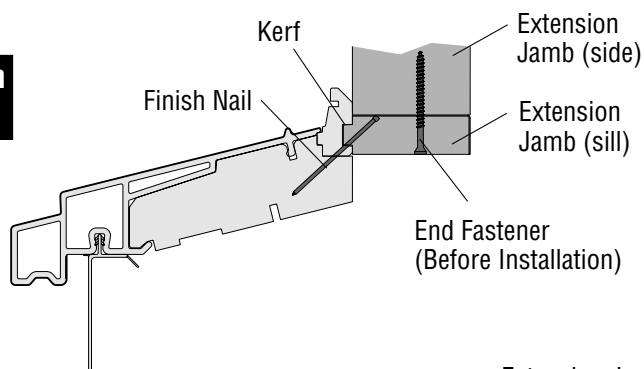
Optional Jamb Clip
Side Jamb

5/8" Screw

Dado

Interior Side Up

Optional Jamb Clip

Optional Jamb Clip (Bent into Position)
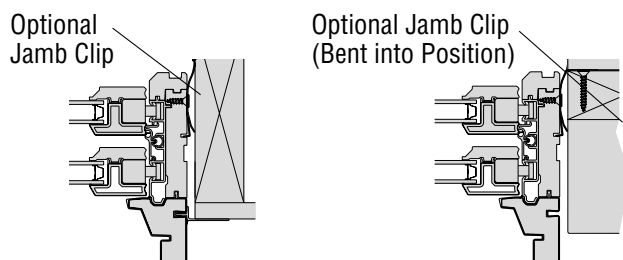
3. Apply Extension Jambs

Extension Jamb Application BEFORE Unit Installation (all Extension Jamb sizes)

NOTICE

- **DO NOT** apply Extension Jambs prior to installation if Jamb Clips are used.
- Ripping of Extension Jambs may be required to fit nonstandard wall depths.

- Position *Extension Jamb* into kerf on frame.
- Hold *Extension Jamb* firmly to avoid tipping. Drill a 5/32" hole in *Extension Jamb,* if not predrilled.
- Fasten unit as shown, spacing fasteners evenly, 12" to 16" apart.
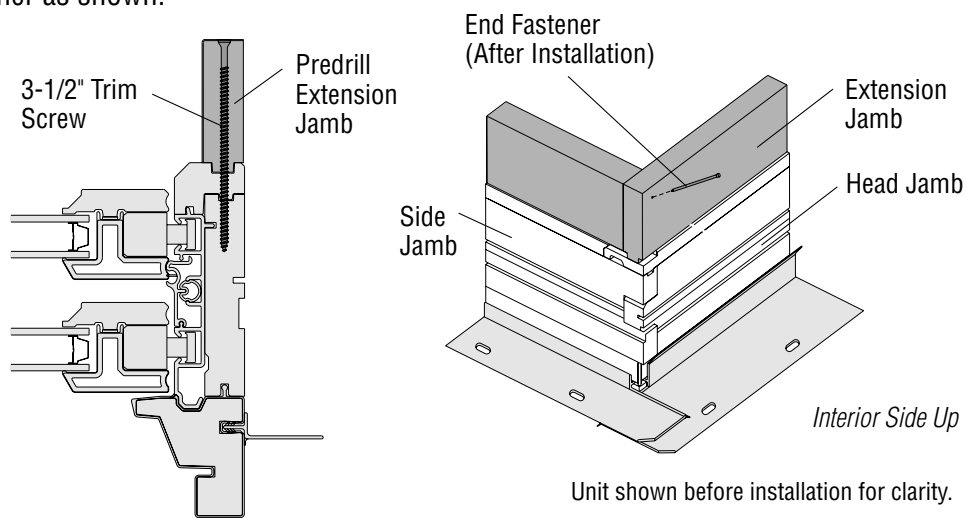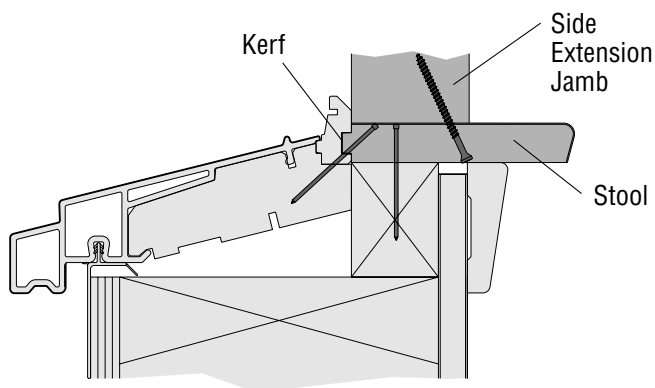- Fasten *Extension Jamb* ends together as shown.

Kerf
Finish Nail
Extension Jamb (side)
Extension Jamb (sill)
End Fastener (Before Installation)

Extension Jamb
End Fastener (Before Installation)
Side Jamb
Head Jamb

Interior Side Up

Extension Jamb Application AFTER Unit Installation

NOTICE

Ripping of Extension Jambs may be required to fit nonstandard wall depths.

- Position *Extension Jamb* into kerf on frame.
- Hold *Extension Jamb* firmly to avoid tipping. Drill a 5/32" hole in *Extension Jamb,* if not predrilled.
- Fasten unit as shown, spacing fasteners evenly, 12" to 16" apart.
- Fasten *Extension Jamb* ends together as shown.

Kerf
Side Extension Jamb
Stool

3-1/2" Trim Screw
Predrill Extension Jamb

End Fastener (After Installation)
Extension Jamb
Head Jamb
Side Jamb

Interior Side Up

Unit shown before installation for clarity.

4. Install Unit

⚠ WARNING

Weight of window unit(s) will vary. Use a reasonable number of people with sufficient strength to lift, carry, and install window unit(s) and accessories. Always use appropriate lifting techniques.
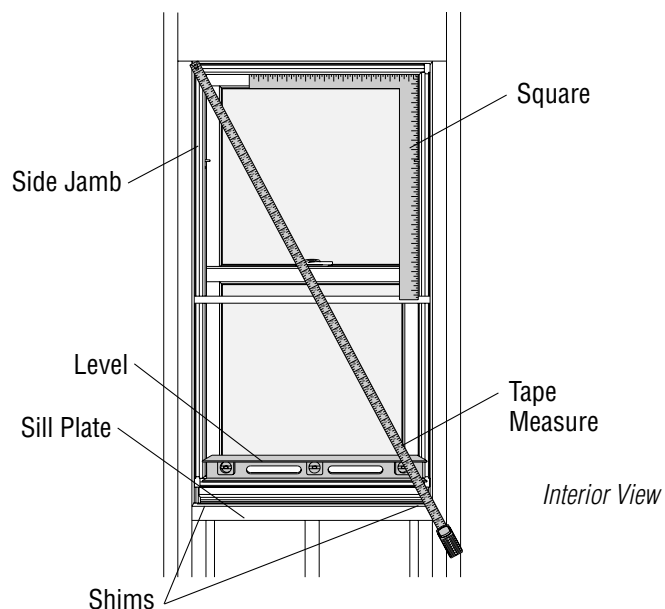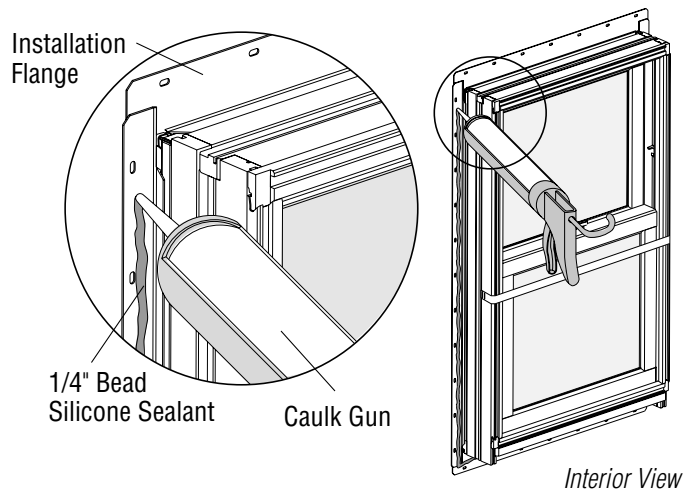
⚠ CAUTION

- **DO NOT** set window unit directly on sill plate. Elevate unit on shims at side jambs. sill plate may bow and interfere with window operation.

- **DO NOT** set nails when using low density insulating sheathing to prevent bending and cracking of Installation Flanges.

- Unit must be properly shimmed. Failure to do so could result in product damage.

- Provide a minimum clearance of 1/2" from top of brick/masonry to the bottom of any portion of sill. Failure to do so could result in product damage.
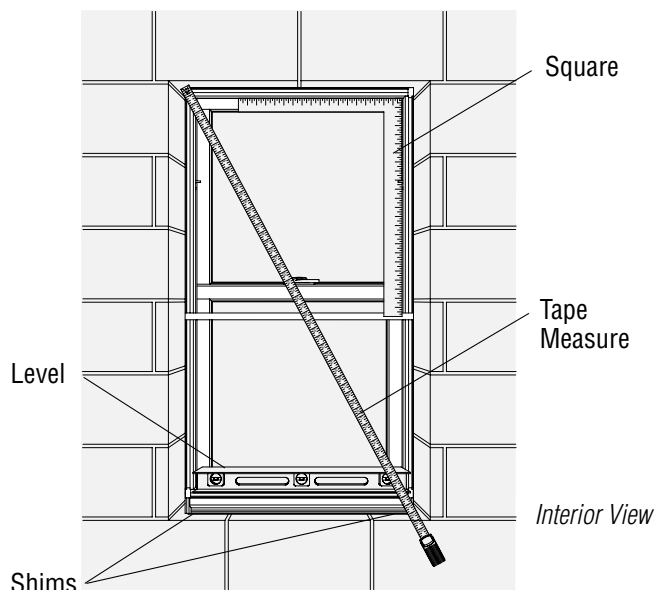
Sill

1/2"

Brick Veneer

Shims
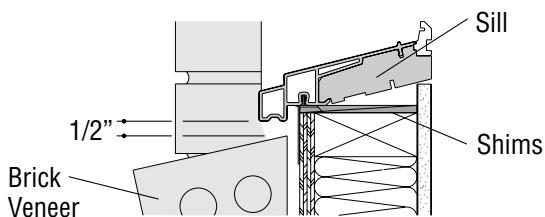
NOTICE

If using optional Jamb Clips by Andersen they must be installed before placing unit into rough opening, spaced 12" apart on center starting 6" from corners.

- Apply 1/4" silicone sealant bead, full perimeter, to back side of *Installation Flange*, as shown, or around full perimeter of rough opening 1/2" from edge.

- Lift unit into rough opening. From interior, shim only at corners of *Sill* under *Side Jambs* to level and center unit. For joined units, a shim must be placed under mullion post(s) at the *Sill*.

- For **Wood Frame/Buck Construction,** from exterior, nail upper corner of *Installation Flange* using 1-3/4" roofing nails from the exterior. Recheck for level.

- Measure diagonally across unit, upper left to lower right, and upper right to lower left corners. If measurements are equal, unit is square. If unit is not square, adjust with shims. For **Wood Frame/Buck Construction**, fasten remaining corners.
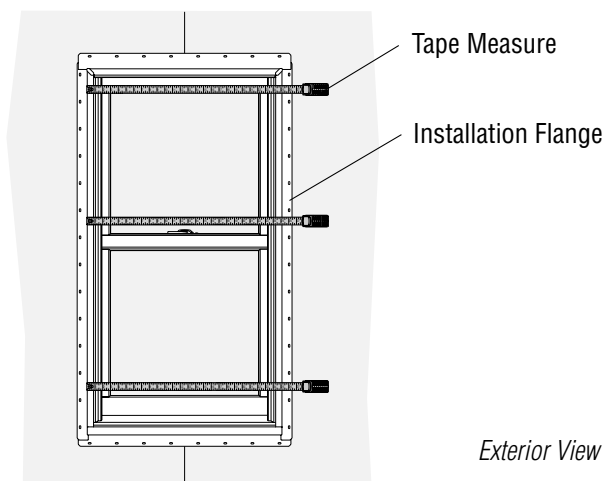
Installation Flange

1/4" Bead Silicone Sealant

Caulk Gun

Interior View

Square

Side Jamb

Level

Sill Plate

Tape Measure

Interior View

Shims

Wood Frame/Buck Construction

Square

Level

Tape Measure

Interior View

Shims

Masonry

4. Install Window Unit (Continued)

- Measure across head, center, and sill of unit. Center dimensions should match head and sill dimensions. Shim to straighten *Side Jamb* if necessary. Insert shims at midpoint behind the *Side Jamb* between unit frame and rough opening.

- For **Wood Frame/Buck Construction**, secure unit to wood frame rough opening using 1-3/4" roofing nails through *Installation Flange*. Space nails every other hole.

- For **Masonry Construction**, secure unit to masonry rough opening using masonry screws through *Jamb Clips*, spaced 12" apart on center starting 6" from corners.

Tape Measure

Installation Flange

Exterior View

Wood Frame/Buck Construction

Tape Measure

Installation Flange
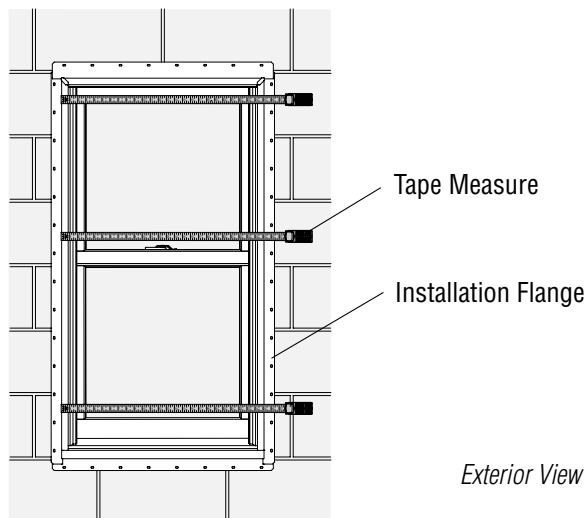
Exterior View

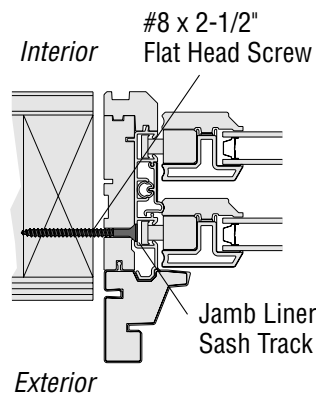**Masonry**

4. Install Window Unit (Continued)

Optional Through the Jamb Installation

- Drill and counter bore 5/32" holes through *Jamb Liner Sash Track.*

- Secure unit using #8 x 2-1/2" flat head screws, shimming behind each screw. Locate upper frame screws in *Sash Track* closest to the exterior and lower frame screws in *Sash Track* closest to interior. Screws must be flush with *Jamb Liner* and will not be visible when window is closed. **DO NOT** exceed 24" between screws.
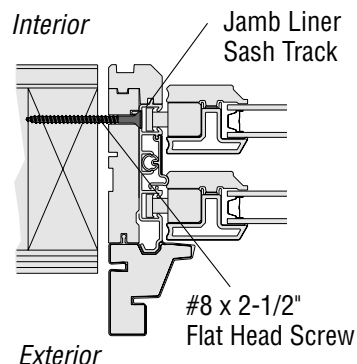
#8 x 2-1/2" Flat Head Screw

5"

4"

4"

5"

Exterior View

Interior

#8 x 2-1/2" Flat Head Screw

Jamb Liner Sash Track
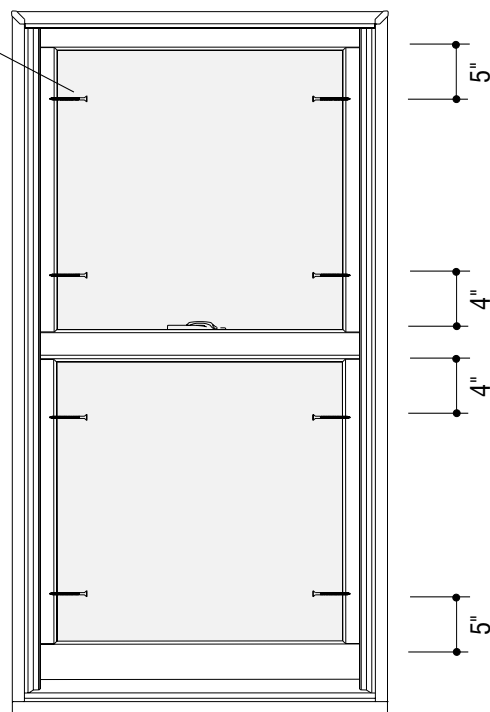
Exterior

Cross Section Detail
Upper Frame Screw Location

Interior

Jamb Liner Sash Track

#8 x 2-1/2" Flat Head Screw

Exterior

Cross Section Detail
Lower Frame Screw Location

5. Apply Flashing Tape

⚠CAUTION

Unit must be properly flashed and sealed for protection against water and air infiltration. Use non-reflective flashings. Highly reflective flashing tapes can raise the surface temperature of the vinyl to the point where vinyl deformation and product damage may occur.

NOTICE

• This instruction step depicts one of many options for proper flashing.

• Moisture infiltration problems in any type of building can be reduced by properly flashing and/or sealing around all building openings, including windows and doors. Proper flashing under and around window and door openings can reduce moisture problems, but the performance of any building system depends upon the design and construction of the building system in its entirety, which should address local environment, climate, building codes and product and material limitations. The design and installation of flashing and sealing systems are the responsibility of the architect, contractor, installer, and/or the manufacturer of the building exterior specified for the project.

• Apply flashing tape over *Installation Flange* at sill.

• Apply flashing tape over *Installation Flange* at sides, overlapping flashing tape at sill.

• Apply flashing tape over *Installation Flange* at head, overlapping flashing tape at sides.

Flashing Tape   Head (apply third)

Sides (apply second)

Sill (apply first)
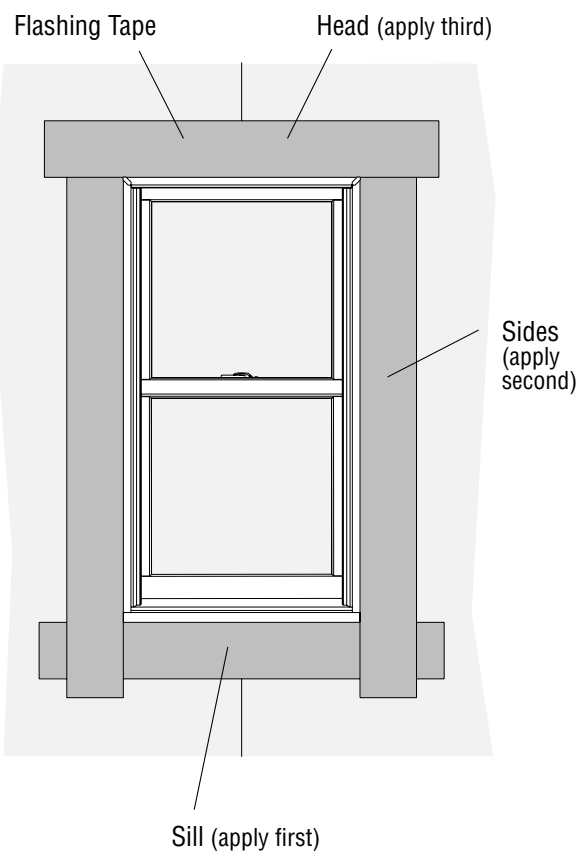
Exterior View

6. Remove Banding Tape and Packaging Clips

• Remove banding tape.

• Remove *Packaging Clips* and reapply *Packaging Clip Screws* in existing screw hole in side jambs.

Banding Tape

Utility Knife
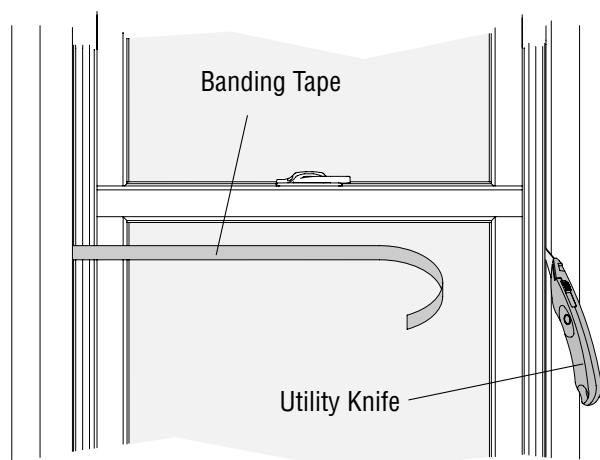
Interior View

7. Insulate and Seal 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.

> ### NOTICE
>
> A minimum space of 1/4" is required around exterior perimeter of unit between frame and siding. Masonry/Brick Veneer installations require a minimum 1/2" space along sill and 1/4" space around the remaining perimeter.

- Insulate between frame, extension jambs, and rough opening on all sides. **DO NOT** overpack or overfill with insulation. Bowed jambs may result.
- Apply silicone sealant around exterior perimeter of window after siding (or other finish) is applied.

Caulk Gun

Exterior View

Siding

Caulk Gun

Exterior View

Brick Veneer
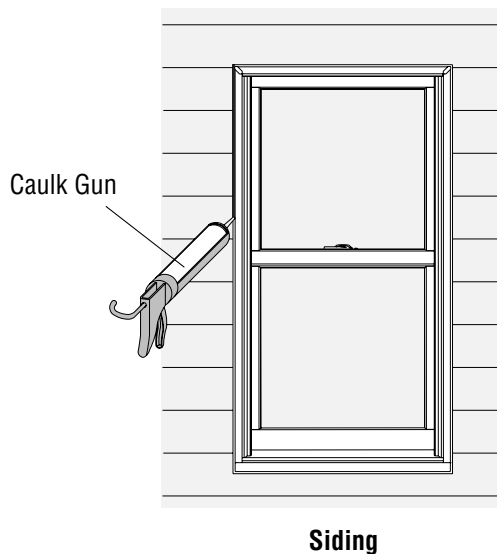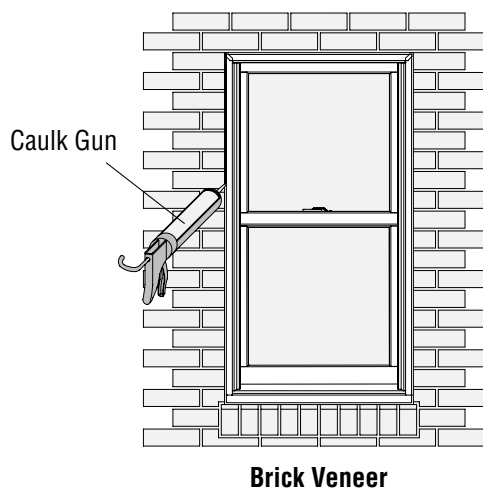
Finishing, Cleaning, and Maintenance Instructions

CAUTION

- **DO NOT** expose unfinished wood to high moisture conditions, excessive heat or humidity. Finish interior wood surfaces immediately after installation. Unfinished wood surfaces will discolor, deteriorate, and/or may bow and split.

- **DO NOT** stain or paint weatherstrip, silicone beads, vinyl, glass, or hardware.

- Acid solutions used to wash masonry will damage glass, fasteners, hardware, and metal flashing. Follow the acid solution manufacturer's instructions carefully. Protect and/or cover Andersen products during the cleaning process to prevent acid contact. If acid does come in contact with unit, immediately wash all surfaces with clean water.

INTERIOR FINISHING

Read and follow finishing manufacturer's instructions and warnings on each container of finish material for priming, painting, staining, and varnishing.

CLEANING

Clean exterior frame, sash members, and insect screens using a mild detergent-and-water solution and a soft cloth or brush. **DO NOT** use abrasive cleaners or solutions containing corrosive solvents. For persistent dirt or grime, use a nonabrasive cleanser or a mixture of water and alcohol or ammonia.

MAINTENANCE

Immediately sand and refinish any interior wood that becomes stained or mildewed to prevent further discoloration and/or damage. For further information, contact your local Andersen dealer. Dealers can be found in the Yellow Pages under Windows.

NOTICE

Finish interior wood surfaces, including hidden surface (as shown by arrow) at check rails, immediately after installation.

Lower Check Rail