

# Installation Guide

for Andersen® 200/400 Series Casement, Awning, and Casement/Awning Picture 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](http://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.

## Tools Required for Procedure

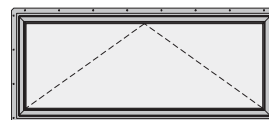
- Safety Glasses
- Tape Measure
- Hammer
- Level
- Carpenter's Square
- Wood Shims
- Utility Knife
- Quality Silicone Sealant
- Caulk Gun
- 1-3/4" Roofing Nails
- 1-1/2" (4d) Finish Nails

## Options and Accessories

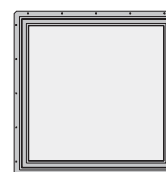
- Extension Jambs
- Grilles (Interior & Exterior)
- Art Glass Panels
- Glazing Panels
- Auxiliary Casings
- Mulling Information
- Joining Kits
- Jamb Clips

## Venting Accessories

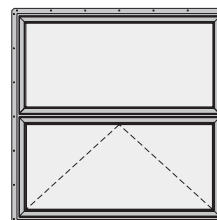
- Hardware Style Packs
- Insect Screens
- Operator Stud Covers
- Custodial Sash Locks
- Ventilation Control Adaptors
- Art Glass



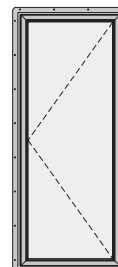
Awning Venting



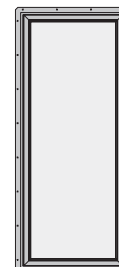
Picture Window



Awning Combination  
Stationary/Venting



Casement  
Venting



Casement  
Stationary

*Exterior View*

## CAUTION

- Steel fasteners will corrode when used with ACQ Pressure Treated Lumber.
- Obtain and use the appropriate size stainless steel fasteners, 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

- Venting units are packaged with temporary operator/lock handles. Permanent operator/lock hardware is available in various styles and finishes from your Andersen dealer. Andersen dealers can be found in the Yellow Pages under Windows.
- Interior Trim Stops are soft nailed for easy removal when painting, staining, and/or joining units.

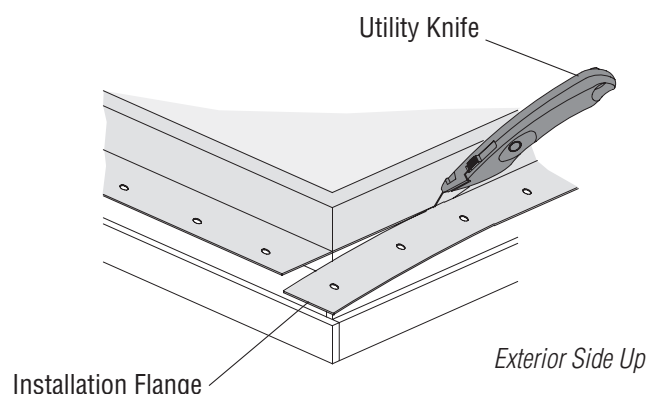
## 1. Prepare Unit for Installation

### Installation in Wood Frame/Buck Construction

- Carefully remove unit from carton. Place unit exterior side up on a clean, flat work surface and remove packing blocks.
- Proceed to **Step 2**.

### Masonry/Brick Veneer and Replacement (Replacement Installations where exterior finish (siding, brick veneer, stucco) is already applied.)

- Carefully remove unit from carton. Place unit exterior side up on a clean, flat work surface and remove packing blocks.
- Using a sharp utility knife, cut and remove *Installation Flanges* from window unit.



### Masonry/Brick Veneer and Replacement

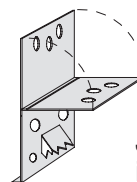
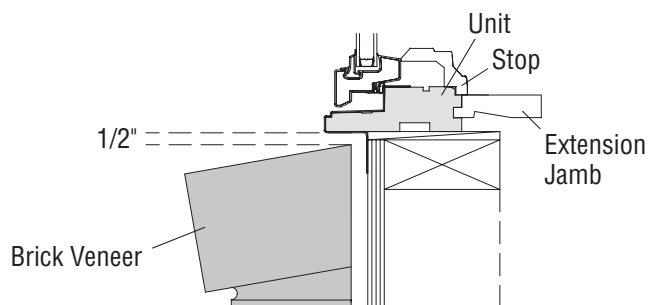
## Installation in Masonry/Brick Veneer Walls

### CAUTION

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

### Optional Jamb Clips by Andersen

- Attach *Jamb Clips* in kerf on back of side jamb, spaced 12" apart on center starting 6" from corners using 5/8" fasteners. Bend *Jamb Clips* into position. Use number of *Jamb Clips* as recommended by architect or structural engineer. Maximum Design Load is 200 lbs. per *Jamb Clip*.



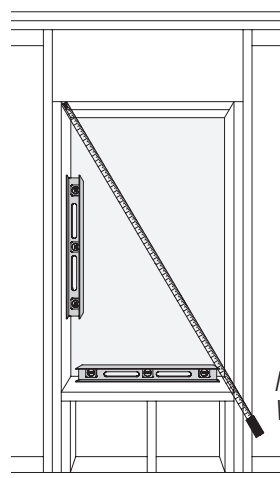
Jamb Clip Bent into Position

## 2. Prepare Rough Opening

- Prepare a rough opening for unit according to dimensions found in the *Andersen® Product Guide for Professionals*.
- Check squareness and dimension of rough opening by measuring diagonally across, upper left to lower right and upper right to lower left corner. If measurements are the same, opening is square.
- Check plumb and level using a carpenter's square and level. Sill plate must be level.

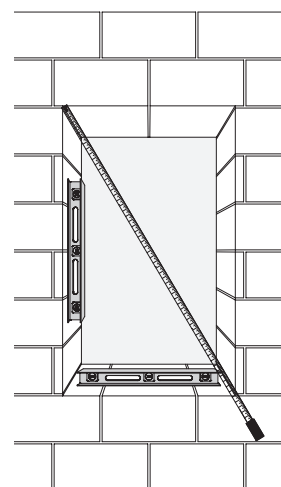
### NOTICE

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



Interior View

Wood Frame/Buck Construction



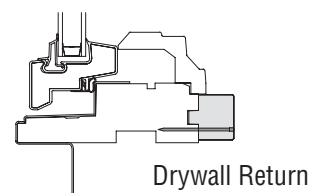
Exterior View

Masonry Construction

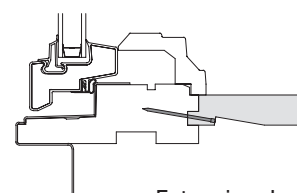
## 3. Apply Extension Jambs or Drywall Return

### NOTICE

- Ripping of Extension Jambs may be required to fit nonstandard wall depths.
  - Extension Jambs may be applied after unit installation is complete depending on wall thickness. See instruction guide for Interior Jamb Extension Options.
  - Non-Andersen extension jambs may cause Trim Stop misalignment and may adversely affect insect screen fit.
- Position tongue on *Drywall Return* or *Extension Jamb* into groove on frame. Hold firmly to avoid tipping and fasten in place using 1-1/2" (4d) finish nail.



Drywall Return



Extension Jamb

## 4. Install Window Unit

### ⚠ CAUTION

- Steel fasteners will corrode when used with ACQ Pressure Treated Lumber.
- Obtain and use the appropriate size stainless steel fasteners, 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.

### Wood Frame/Buck Construction

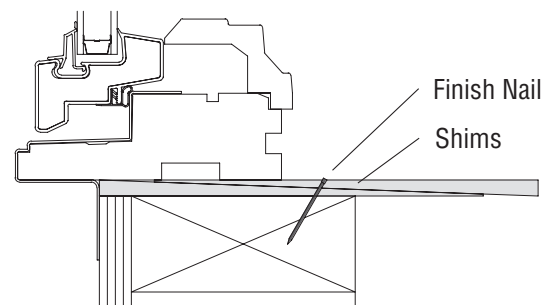
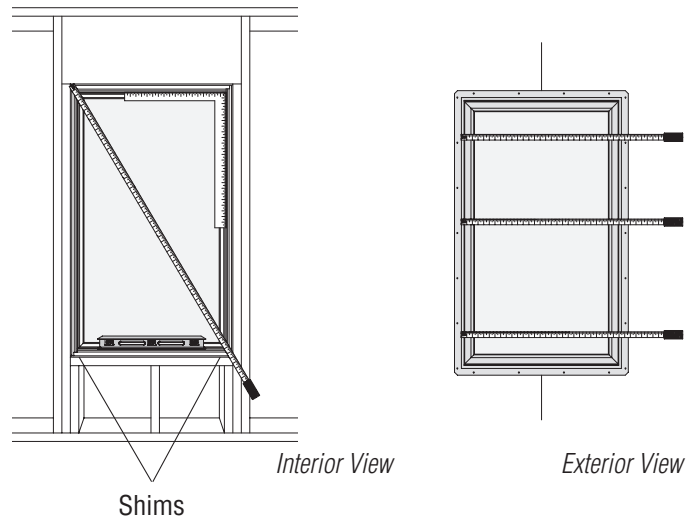
### ⚠ WARNING

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.

- Lift unit into rough opening from exterior. From interior, shim at corners of *Sill* under *Side Jambs* to level and center unit. (On double and triple units, a *Shim* must be placed under mullion post(s) at the *Sill*.)
- From the exterior, nail upper corner of *Installation Flange* using 1-3/4" roofing nails. Recheck level.
- Measure diagonally across window, 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 as required and fasten remaining corners.
- Measure across head, center, and sill of the window unit. Center dimensions should match head and sill dimensions. Shim or block to straighten *Side Jamb*. Insert shims at midpoint behind the *Side Jamb* between unit frame and rough opening. For venting Casement Units, insert and fasten shims every 18" on lock side.
- Secure unit to wood frame rough opening using 1-3/4" roofing nails. Nails should be placed in every hole.

### ⚠ CAUTION

- **DO NOT** set window unit directly on Sill Plate. Elevate unit on shims. Sill Plate may bow and interfere with window operation.
- To prevent bending and cracking of Installation Flanges, **DO NOT** set nails when using low density insulating sheathing.



Wood Frame /Buck Construction

## Masonry Construction

### ⚠ 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.

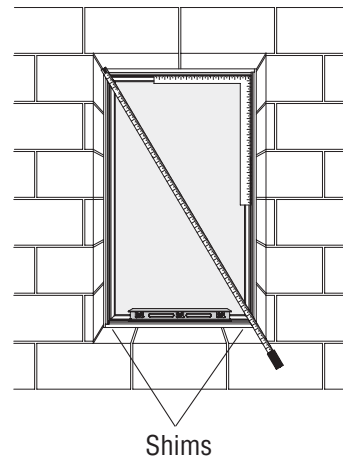
### ⚠ CAUTION

- Steel fasteners will corrode when used with ACQ Pressure Treated Lumber.
- Obtain and use the appropriate size stainless steel fasteners, 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.

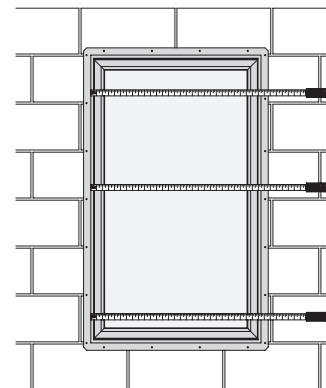
### NOTICE

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

- Lift unit into rough opening from exterior. From the interior, shim at corners of sill under side jambs to level and center unit. For double and triple units, a shim must be placed under mull post(s) at sill.
- Measure diagonally across window, 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 as required.
- Measure across head, center, and sill of the window unit. Center dimensions should match head and sill dimensions. Shim or block to straighten side jamb if necessary. Insert shims at midpoint behind the side jamb between unit frame and rough opening. For venting Casement Units, insert and fasten shims every 18" on lock side.
- Secure unit to masonry rough opening using masonry screws through side jamb or *Jamb Clips*, spaced 12" apart on center starting 6" from corners.



*Interior View*



*Exterior View*

**Masonry Construction**

## 5. Apply Flashing Tape

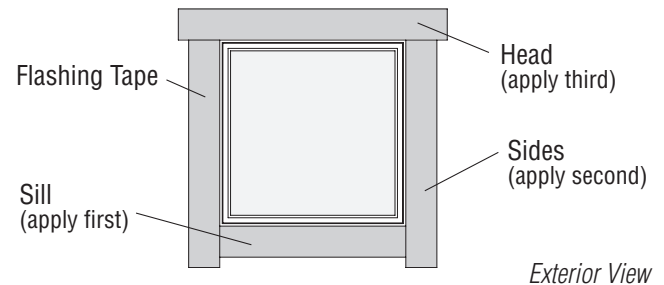
### ⚠ CAUTION

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.

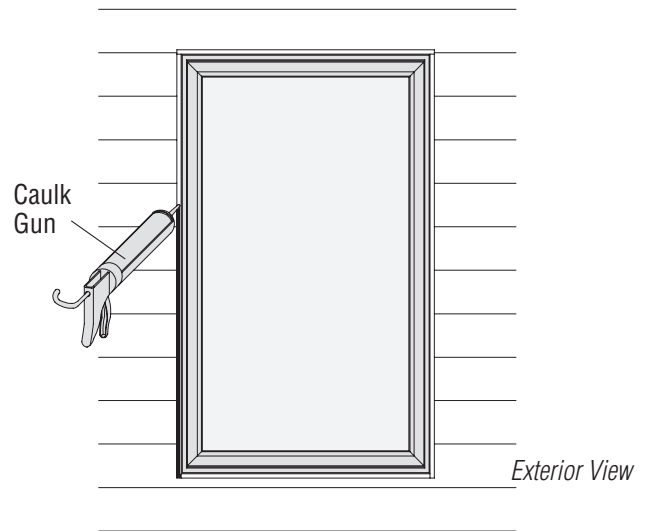
- Apply flashing tape over *Installation Flange* at sill.
- Apply flashing tape over *Installation Flange* at sides, overlapping flashing tape at sill.
- Apply flashing tape over *Installation Flange* at head, overlapping flashing tape at sides.



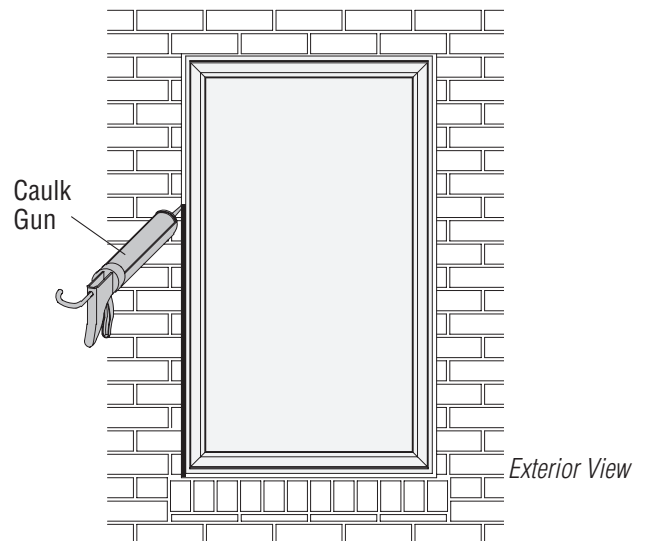
## 6. Insulate and Seal Unit

### ⚠ CAUTION

- When insulating between the unit's frame and rough opening, **DO NOT** overpack batt insulation or overfill with expandable foam. Bowed jambs may result causing product performance problems and/or incorrect operation of unit.
  - A minimum space of 1/4" is required around the exterior perimeter of the unit between the frame and siding. Masonry installations require a minimum 1/2" space along the 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 backer rod and a quality silicone sealant around exterior perimeter of window after siding (or other finish) is applied.



**Wood Frame/Buck Construction**

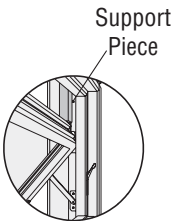


**Masonry Construction**

## 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.
- Awning units are not equipped with a built in wash mode. To clean, open unit 4" and lift operator shoe off operator rod. Swing sash up fully and block open with Support Piece.
- Side Inside Stop on the Lock side of tandem lock Casement units has an underlying Lock mechanism. Use caution when removing Side Inside Stop on the lock side to avoid damage to Lock mechanism and/or Side Inside Stop.



### INTERIOR FINISHING

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

### ⚠ CAUTION

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 cleaning process to prevent acid contact. If acid does come in contact with unit, immediately wash all surfaces with clean water.

### 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.