

Reinforced 10° Bow Window Assembly and Installation Guide

for Andersen® 400 Series Transom Joined Casement Windows

Thank you for choosing Andersen.

Instructions are for typical, new wood-framed wall construction with weather protection in place.

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.

Flanges on the unit alone will not properly flash and seal the window. Follow these instructions carefully.

For questions call 1-888-888-7020 Monday - Friday, 7 a.m. to 7 p.m. and Saturday, 8 a.m. to 4 p.m. central time.

For more information and/or guides visit andersenwindows.com.

Please leave this guide with building owner.

► **Read guide from beginning to end before starting installation. Read all warnings and cautions during unit installation.**

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

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

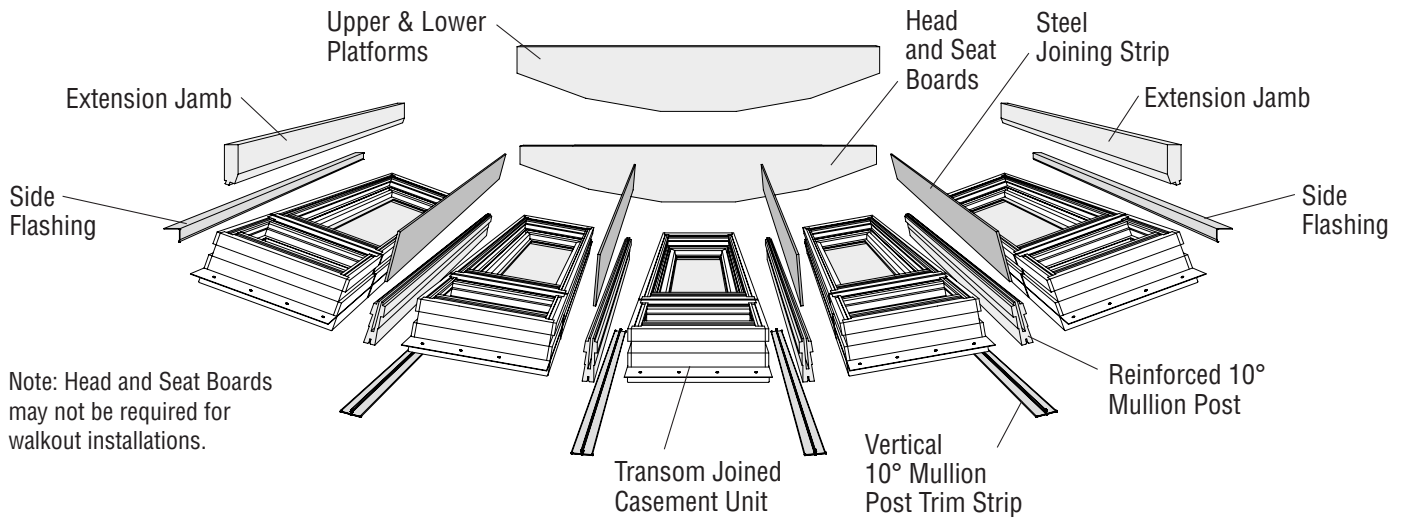
⚠ WARNING

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 sealant 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.

Component Identification



Parts Required

- Installation Guide
- Reinforced 10° Mullion Post Joining Kit
 - Reinforced 10° Mullion Posts
 - Steel Joining Strip
 - 10° Mullion Post Trim Strip
 - Hardware Pack
 - Assembly and Installation Guide
- 10° Mullion Post Inside Trim
- Perma-Shield® Casement/Awning Units
- Upper and Lower Platforms
- Head and Seat Boards*
- Side Flashing
- Auxiliary Casing or Head Flashing
- Cable Support System
- Extension Jambs

Tools & Supplies

- Safety Glasses
- Hammer
- Level
- Carpenters Square
- Combination Square
- Tape Measure
- Clamps
- Shims (waterproof)
- Small Pry Bar
- Caulk Gun
- 3/4" Spacer Boards
- 2" x 4" Skid Material
- 1" x 4" Cross Bracing
- Soft Rags
- Jack and Support
- Drill/Driver
- 3/8" Drill Bit
- 1/8" Drill Bit
- Utility Knife
- 1-1/2" (4d) Finish Nails
- 2-1/2" (8d) Finish Nails
- Flat Head Wood Screws
 - #10 x 2"
 - #10 x 3"
 - #8 x 3/4" or #10 x 3/4"
 - #8 x 1-1/2"
 - #8 x 2-1/2"
- 1-1/2" Wood Screws (corrosion resistant)
- Rust Inhibitor
- Wood Saw
- Pencil
- Awl
- Wood Block

Section One - Reinforced 10° Bow Assembly Guide

for Andersen® Casement Window

1. Complete Transom Joining

NOTICE

Transom Joining of units must be performed before Bow Unit assembly begins. Perform Transom Joining according to instructions in Non-Reinforced and Transom Joining Kit, except for application of Outside Trim Strips (**Step 7**). Outside Trim Strips will be applied in **Step 16** of this guide. Projecting units with Transom Units attached must not exceed 8'-1/8" in height.

2. Unit Preparation

NOTICE

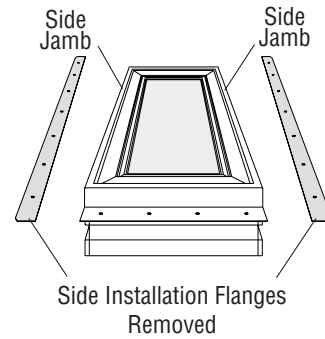
Wall must be 4-9/11" to 7-1/8" for stock platforms, head boards, and seat boards.

- Carefully remove units from cartons and place exterior side up on a clean flat work surface. Remove foam packing blocks.
- Remove *Installation Flanges* from vertical sides *only* of all units using a sharp utility knife. Cut off flush with *Side Jamb*.

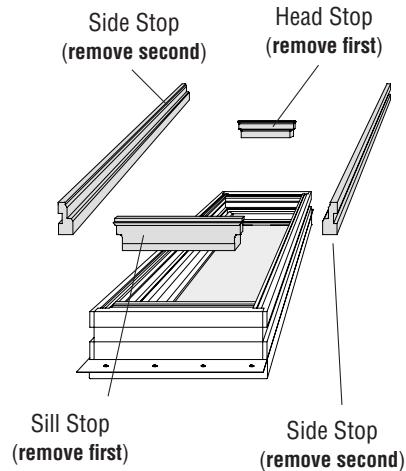
CAUTION

Side Stop on lock side of tandem lock Casement Units has an underlying lock mechanism. Use caution when removing Side Stop on the lock side to avoid damage to lock mechanism and/or Side Stop.

- Turn units interior side up.
- Carefully remove nails from *Inside Stop* with a hammer and block of wood. Remove the *Head* and *Sill Inside Stops* before *Side Stops*. Insert a small pry bar between frame and *Inside Stop* and gently pry outwards.
- Bundle *Inside Stops* and place in protected area until reinstallation.



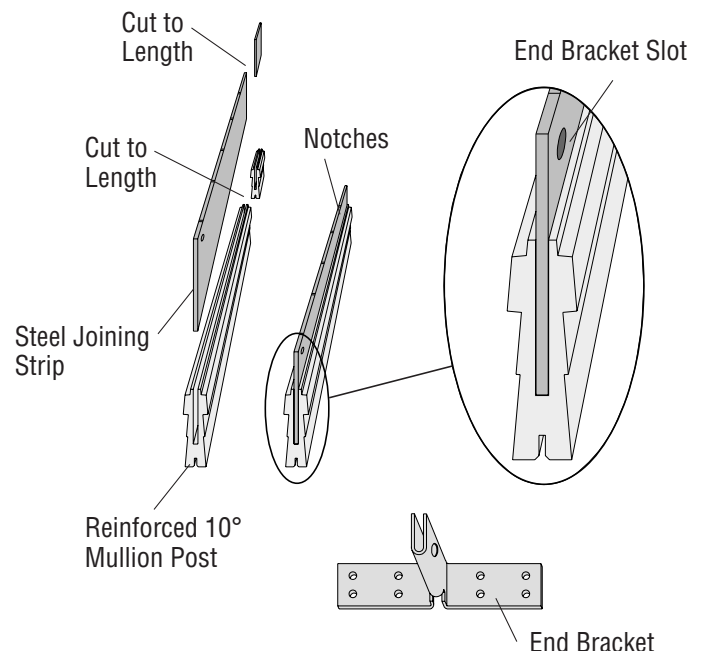
Exterior Side Up



Interior Side Up

3. Prepare Reinforced 10° Mullion Posts

- Measure overall height of joined units.
- Cut *Reinforced 10° Mullion Posts* to measured length.
- Cut *Steel Joining Strip* on the opposite end of the *End Bracket Slot* to measured length.
- Use an *End Bracket* to locate position of end bracket hole on cut end of *Steel Joining Strip*. Drill a 3/8" hole through *Steel Joining Strip* at that location. Treat cut end of *Steel Joining Strip* and hole with a rust inhibitor to prevent corrosion.
- Slip *Steel Joining Strip* into *Reinforced 10° Mullion Posts* making sure notches are visible.

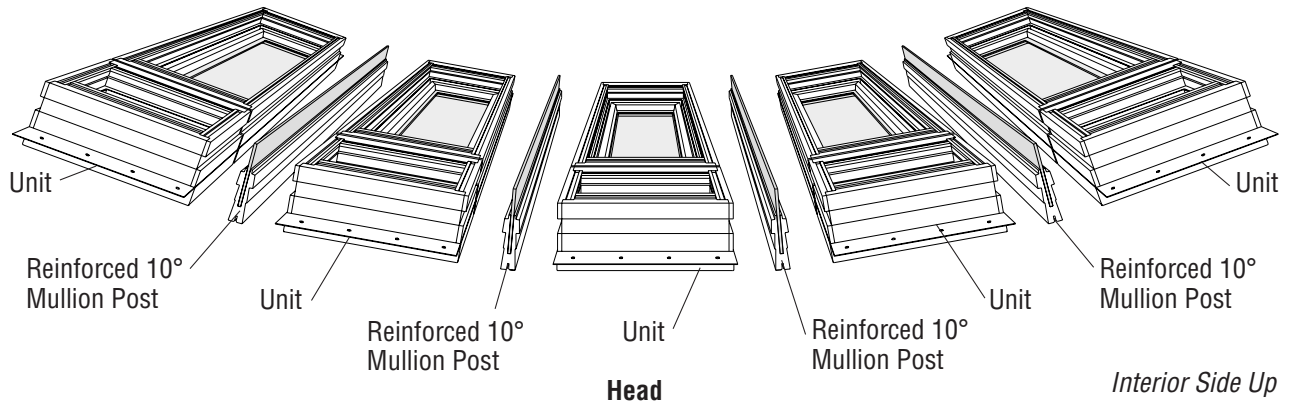


4. Arrange Units and Reinforced 10° Mullion Posts for Assembly

NOTICE

When arranging units for assembly, make sure that placement and direction of venting units are correct. Stationary units must be installed with installation arrow on label pointing towards head of unit.

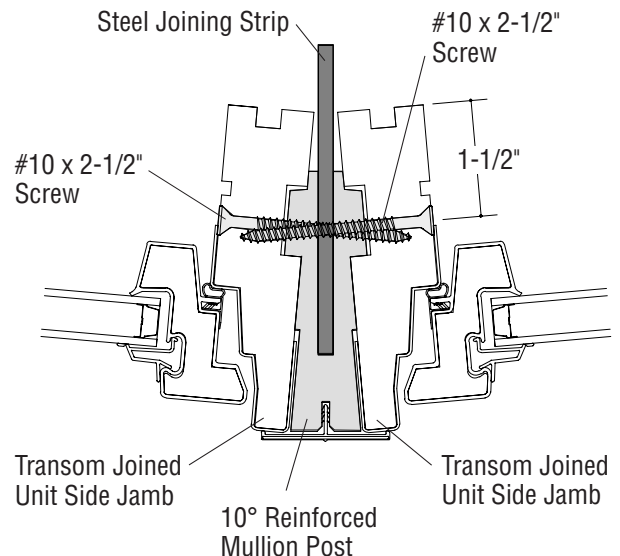
- Arrange units and *Reinforced 10° Mullion Posts* in position for assembly.



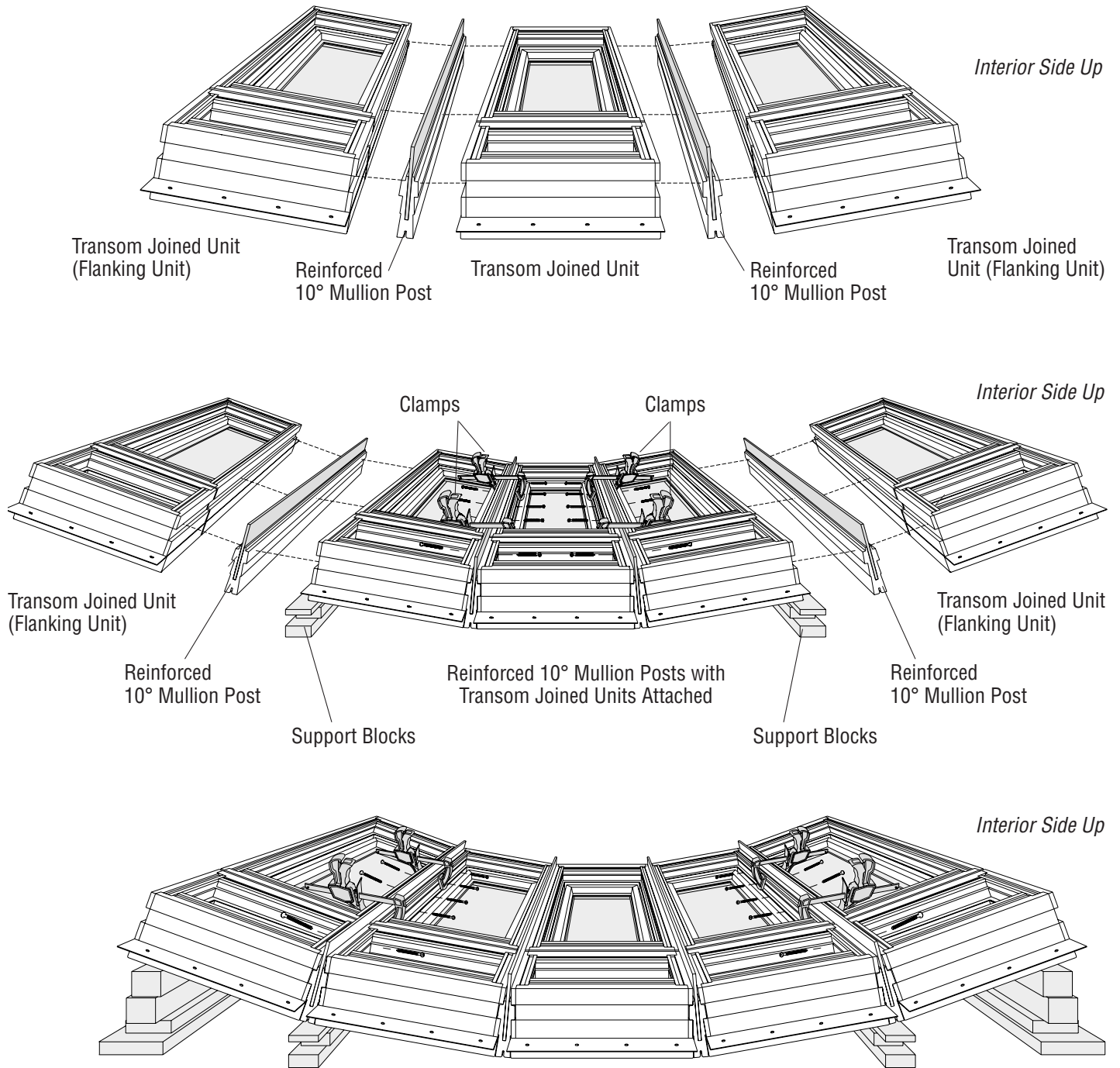
5-Wide unit shown in illustration.

5. Join and Secure Units to Reinforced 10° Mullion Posts

- Choose two transom joined units and one *Reinforced 10° Mullion Post*.
- Place support blocks under transom joined units (*Flanking Units*) to align with *Reinforced 10° Mullion Post*.
- Position *Reinforced 10° Mullion Post* flush with top and bottom of transom joined units.
- Hold transom joined units and *Reinforced 10° Mullion Post* in position with clamps.
- Secure transom joined units to *Reinforced 10° Mullion Post* at every double notch on *Steel Joining Strip* with #10 x 2-1/2" screws. Locate screws as shown.
- Repeat above steps for all window units and *Reinforced 10° Mullion Post* until bow unit is complete.



5. Join & Secure Units to Reinforced 10° Mullion Posts (Continued)

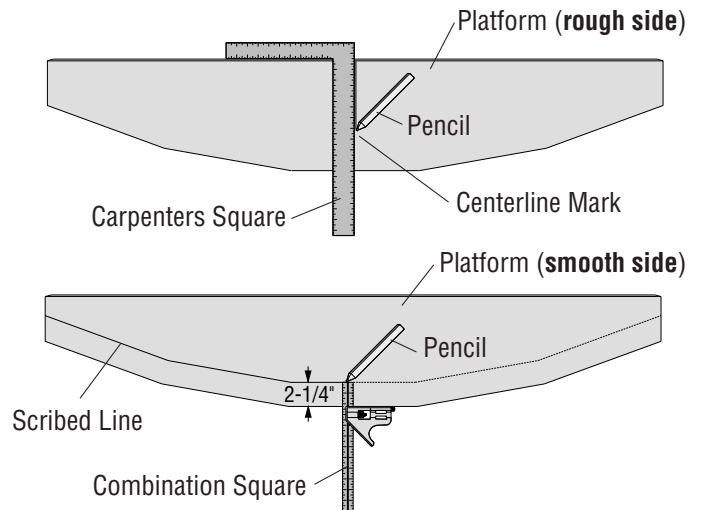


Completion of Unit

Example shown is a 5-Wide Unit. Follow the same assembly procedure for 2-Wide, 3-Wide, 4-Wide, 6-Wide, and 7-Wide Units.

6. Prepare Platforms

- Place *Platforms* rough side up on work surface.
- Measure length of *Platform* along interior edge. With pencil, place mark at center of *Platform*.
- Using carpenters square, mark centerline across width of *Platform*.
- Repeat step for other *Platform*.
- Flip *Platforms* over, smooth side up (opposite side of centerline mark).
- Scribe a line 2-1/4" in from, and along entire length of exterior edge of *Platforms* using combination square.



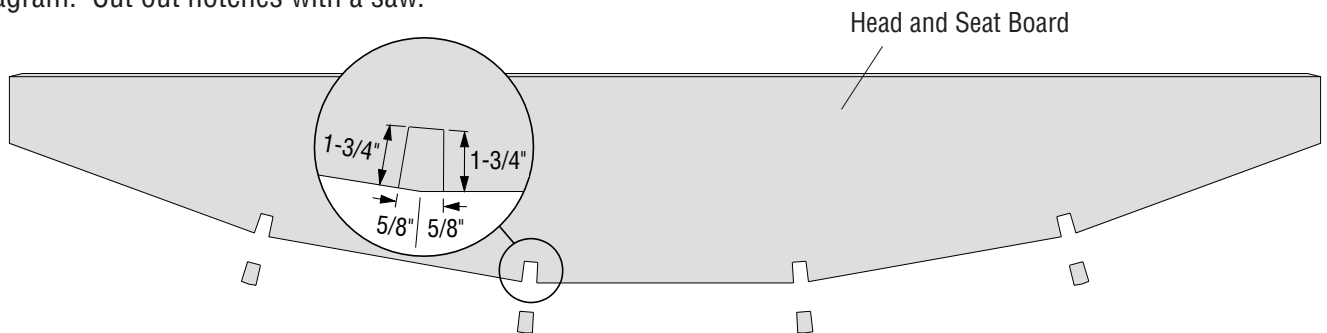
7. Notch Head and Seat Board

NOTICE

Walkout Installations Only

Proceed to **Step 8**. Head and Seat Boards are not used in walkout installations

- Head and Seat Boards* must be notched at *Mullion Post* to accommodate *Steel Joining Strips*. Measure and scribe a line defining the area to be notched as shown in diagram. Cut out notches with a saw.



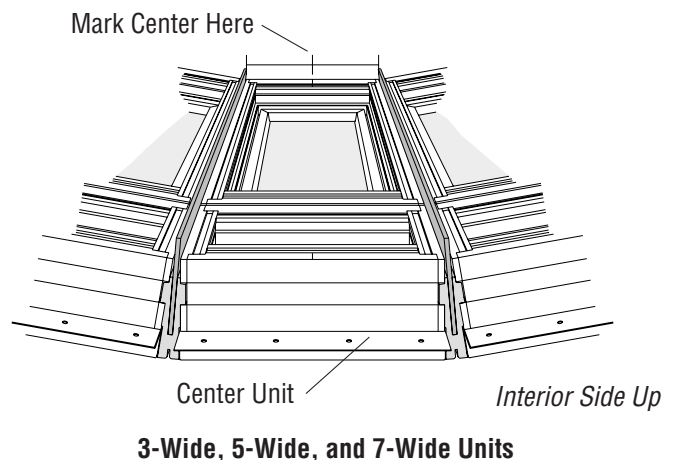
8. Determine and Mark Centerline on Unit

NOTICE

Number of window units will determine centerline placement on Bow Unit. Follow procedure below according to number of mullioned units.

3-Wide, 5-Wide, and 7-Wide Units

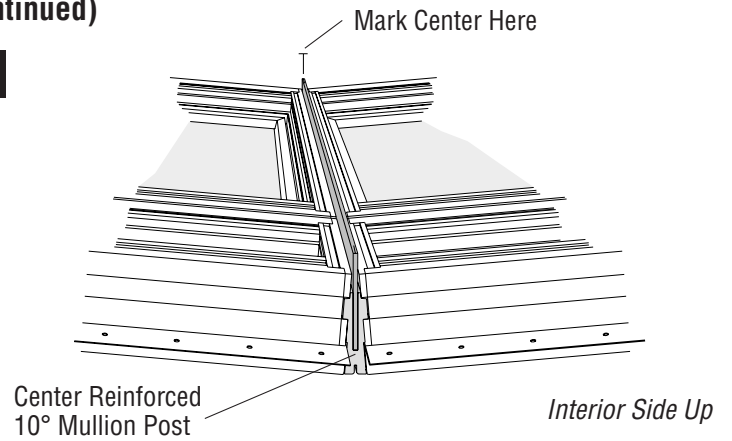
- Measure width of center unit along frame. With pencil, place mark at center of unit on frame.
- Repeat step at other end of center unit.



8. Determine and Mark Centerline on Unit (Continued)

4-Wide and 6-Wide Units

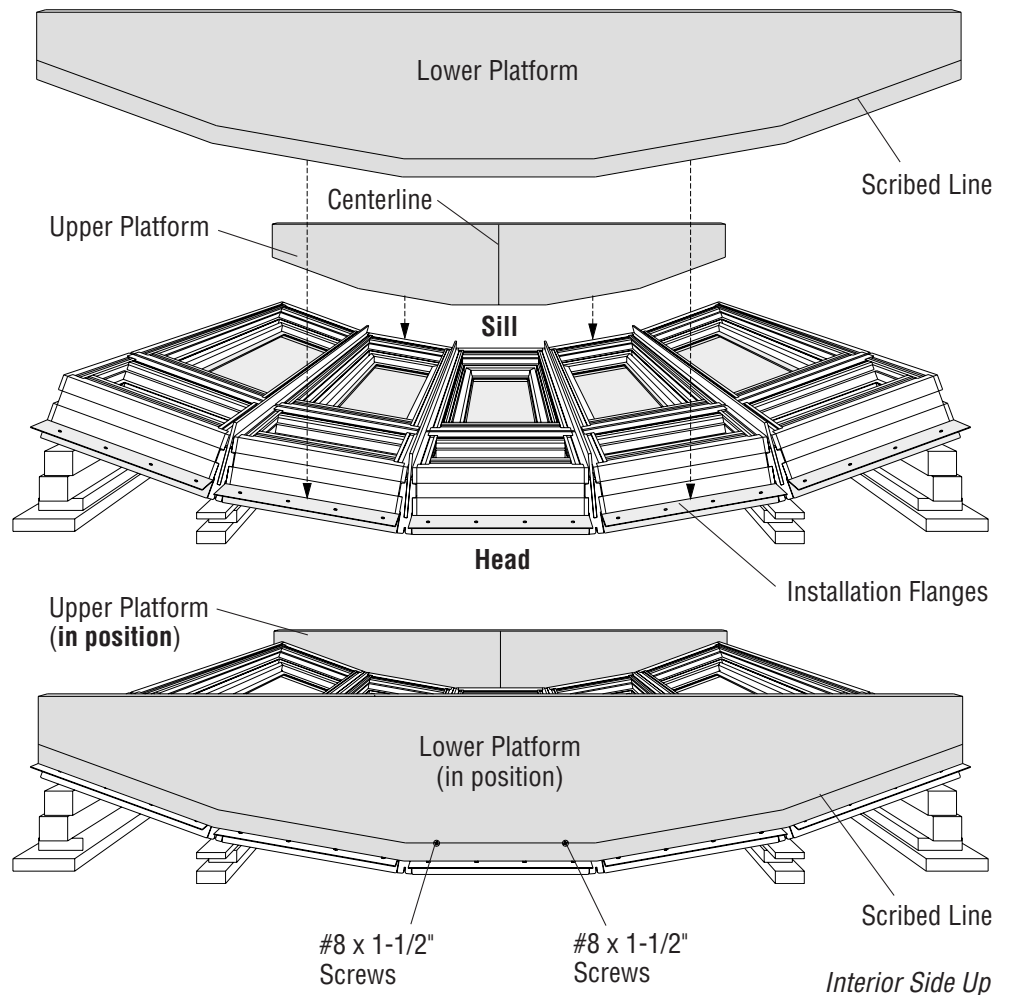
- Place a pencil mark in center of middle *Reinforced 10° Mullion Post*.
- Repeat step at other end of middle *Reinforced 10° Mullion Post*.



4-Wide and 6-Wide Units

9. Position Platforms

- Position *Platforms*, centerline facing inward, on end of Bow Unit and up against the *Installation Flanges*.
- Align centerline of *Platforms* with center mark on Bow Unit.
- Fasten *Platforms* to ends of Center Unit(s) along scribed line using two #8 x 1-1/2" flathead wood screws.

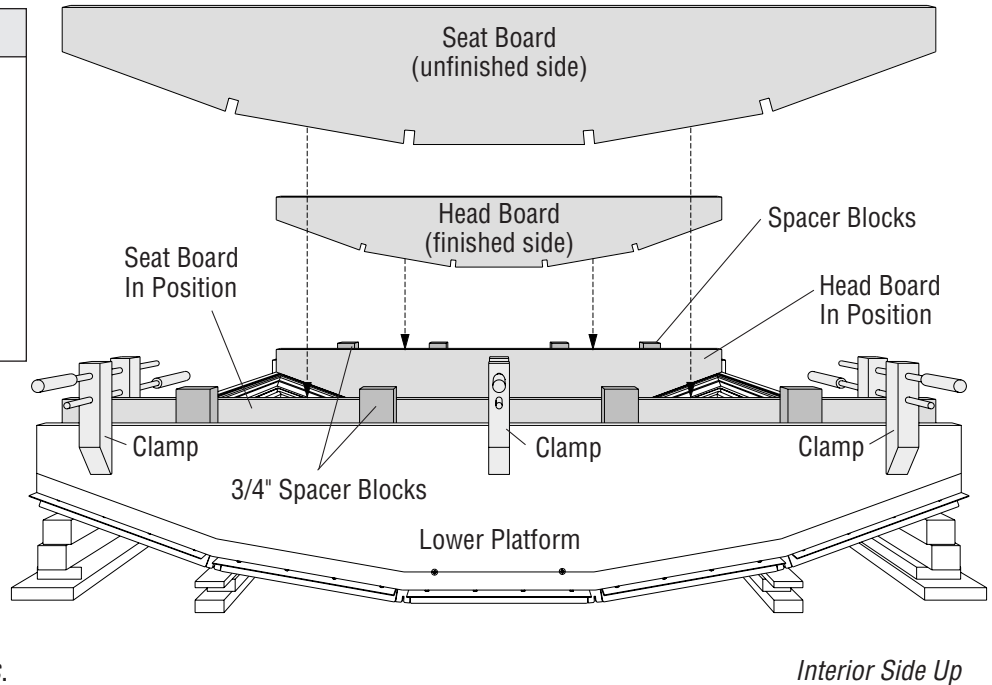


10. Position Head and Seat Boards*

NOTICE

Head and Seat boards must be temporarily installed to assist in securing platforms to units except in Walkout Installations where Head and Seat Boards are not used. Walkout Installations can proceed to **Step 11**.

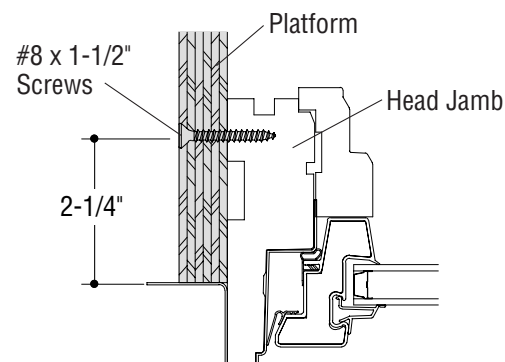
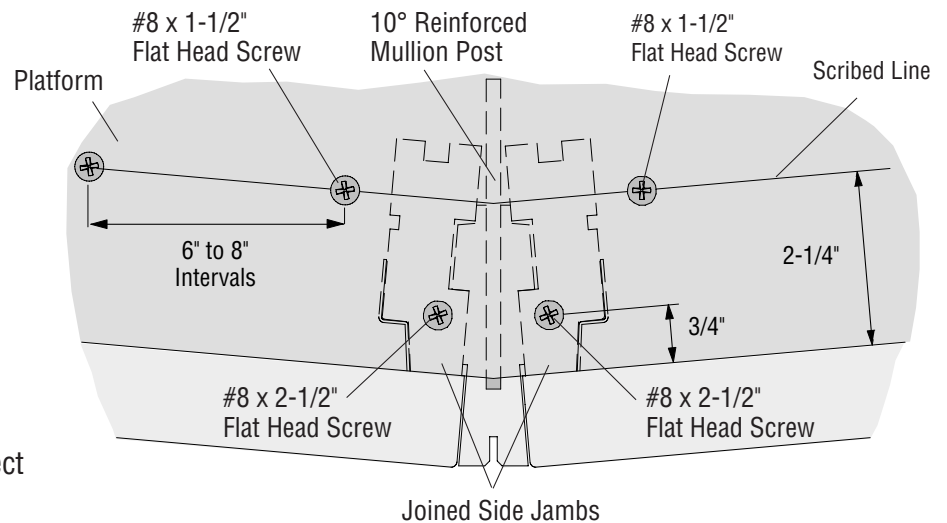
- Determine interior finished side of *Head and Seat Board*.*
- Insert *Spacer Blocks* in place as shown.
- Place *Head and Seat Boards*, finished side toward interior, into position against *Upper and Lower Platform* and *Spacer Blocks*.
- Center *Head and Seat Boards* to obtain best fit.
- Clamp *Head and Seat Boards* to *Upper and Lower Platforms*.



*Head and Seat Boards are not required for walkout installations.

11. Secure Platforms

- Lift up on head of a *Flanking Unit(s)* until it fits tightly against the *Head Board*.
- Fasten *Upper Platform* to head of *Flanking Unit(s)* with a #8 x 1-1/2" screw located on the scribed line as shown.
- Repeat above procedure to sill end of *Flanking Unit(s)* and all remaining *Flanking Unit(s)*.
- Check *Head and Seat Board* for correct fit. If adjustment is needed, remove screws and adjust as required.
- Using the scribed line on the *Platforms* as a guide, fasten *Platforms* to units using #8 x 1-1/2" screws at 6" to 8" intervals.
- Fasten *Platforms* to *Joined Side Jambs* using two #8 x 2-1/2" screws located 3/4" in from exterior edge of *Platform* as shown.

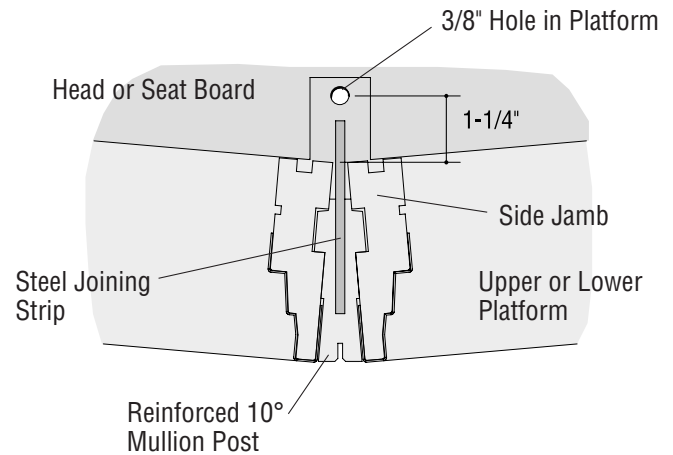


12. Install Cable Holes

NOTICE

Platforms for Transom Joined Bow Unit's may not have predrilled holes for the Cable Support System. Drill a 3/8" hole through Platforms at all mullion post locations before proceeding with **Step 13**.

- On interior side of *Platforms*, measure and place a mark 1-1/4" in from *Side Jamb* centering on *Steel Joining Strip* at all *Reinforced 10° Mullion Post* locations.
- Drill a 3/8" hole through *Upper* and *Lower Platforms* at all marks.



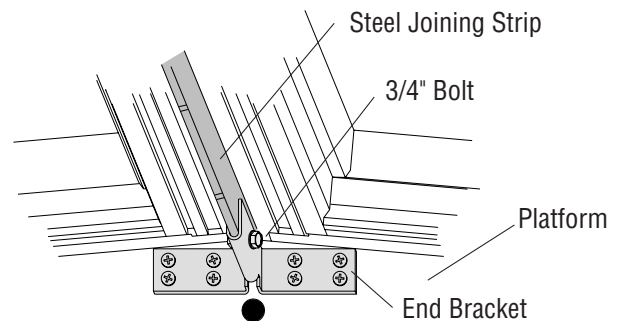
13. Remove Head and Seat Boards*

- Label *Head* and *Seat Boards** for later reinstallation.
- Remove clamps holding *Head* and *Seat Boards* to *Platforms*.
- Carefully remove and repackage *Head* and *Seat Boards* for shipment to installation site.

* Head and Seat Boards are not required for walkout installations

14. Apply End Brackets

- Apply and fasten *End Brackets* to top and bottom of *Steel Joining Strips* with the 3/4" bolts and nuts provided.
- Secure each *End Bracket* to *Platforms* using #8 x 3/4" or #10 x 3/4" flat head screws.

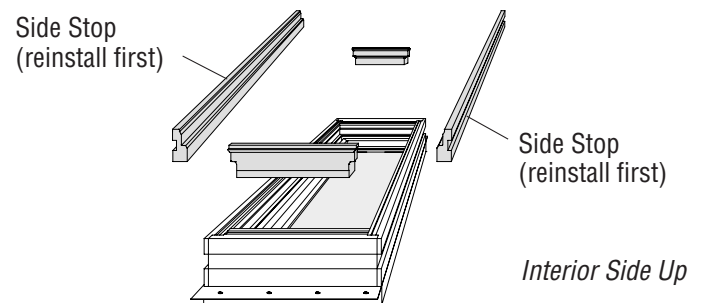


15. Replace Inside Stops

CAUTION

When reapplying Side Stop on lock side of tandem lock Casement Units, nail through existing holes. Failure to do so could result in damage to underlying lock mechanism.

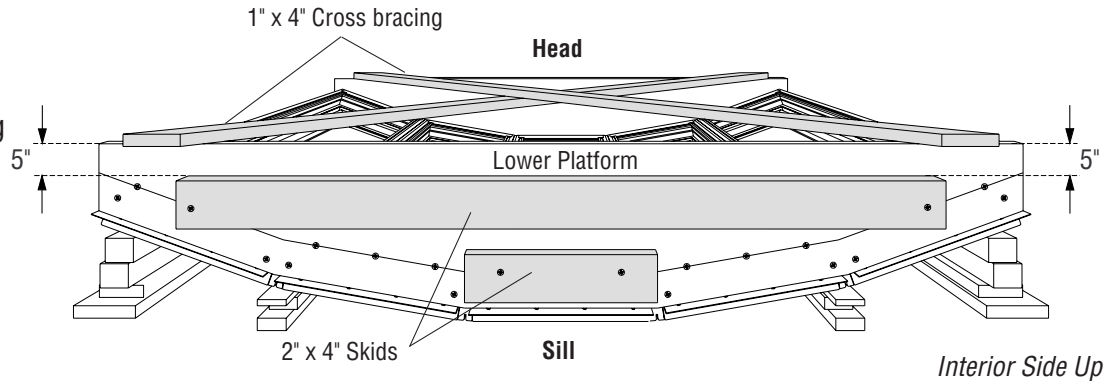
- Position *Side Inside Stops* first, then *Head* and *Sill Inside Stops* in frame groove and reapply by tacking into place with 1-1/2" (4d) finishing nails. Leave approximately 1/8" of nail head exposed to assist in removal of *Inside Stops* for finishing.



Single unit shown in example

16. Apply Cross Bracing and Skids

- Cut and fasten two 2" x 4" skids to *Lower Platform* with #8 x 2" screws for transporting unit. Make sure skid closest to interior is at least 5" from edge of *Lower Platform*.
- Fasten 1" x 4" cross braces with screws to the corners of platforms at a diagonal.



17. Apply Outside Horizontal and Vertical Trim Strips

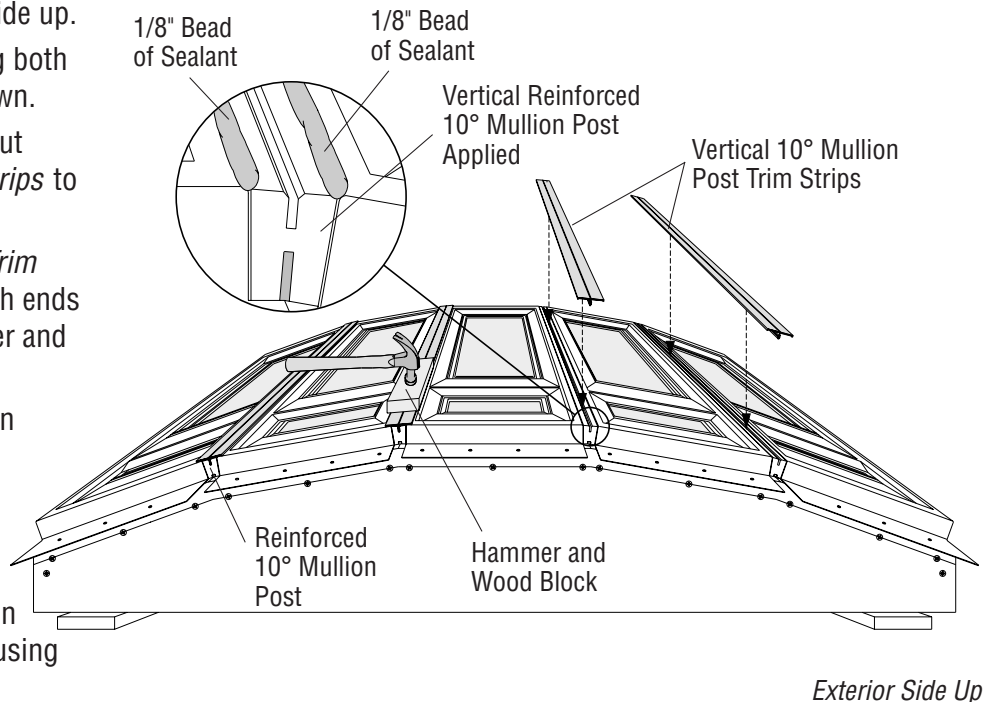
⚠ WARNING

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

⚠ CAUTION

Vertical Outside Trim Strips must run continuously and should be applied first. Fill voids at intersections with sealant and butt Horizontal Outside Trim Strips tightly against Vertical Outside Trim Strips. Failure to do so may allow water infiltration leading to product damage.

- Carefully turn unit over exterior side up.
- Apply a 1/8" bead of sealant along both sides of *10° Mullion Post* as shown.
- Measure overall unit height and cut **vertical** *10° Mullion Post Trim Strips* to that length.
- Place **vertical** *10° Mullion Post Trim Strips* between units, flush at both ends and tap into place using a hammer and wood block.
- Measure the transom join between the **vertical** *10° Mullion Post Trim Strips*. Cut the *Horizontal Trim Strips* to length.
- Apply sealant to both sides of *Horizontal Trim Strips* and place in the transom join. Tap into place using a hammer and wood block.
- Remove excess sealant squeeze out with a soft rag.



18. Seal Ends of Mullion Posts

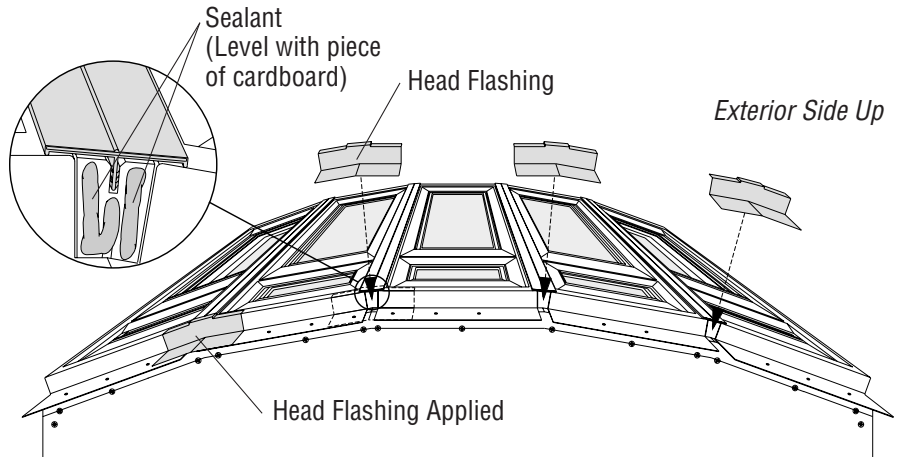
⚠ CAUTION

When applying Head Flashing, the temperature of the units and flashing must be 60° F (15.6° C) or warmer. Insufficient adhesion may result if applied at colder temperatures.

NOTICE

If Auxiliary Casing is to be used do not apply Head Flashing. Discard Head Flashing and proceed to **Step 19**.

- Clean exterior surface of Head and Sill at Mullion Posts.
- Apply sealant to ends of *Reinforced 10° Mullion Posts* as shown. Level out sealant with cardboard.
- Remove protective backing from adhesive strip on *Head Flashing*.
- Position *Head Flashing* over head end of *Reinforced 10° Mullion Post* as illustrated and press firmly into place.

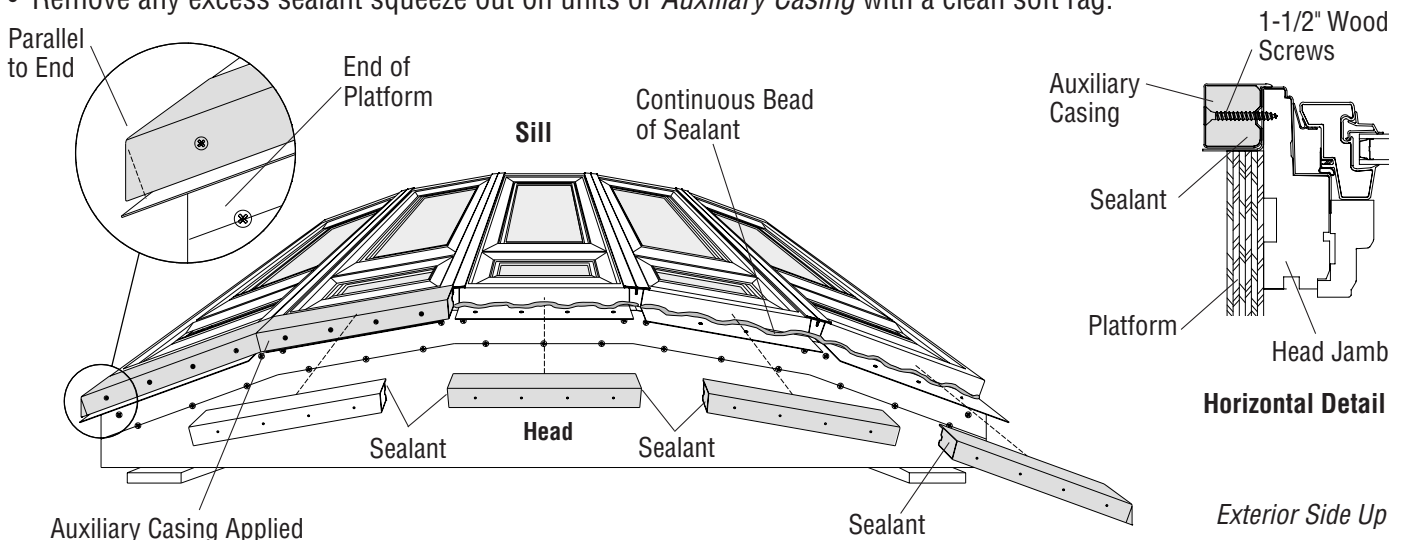


19. Apply Auxiliary Casing

⚠ WARNING

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

- Measure and cut *Auxiliary Casing* to fit along head of unit. Cut 5° miters at joints. Cut ends of *Auxiliary Casing* for outermost *Flanking Units* flush with outside edge and parallel to end of *Platform* as shown.
- Drill 1/8" holes 1" deep spaced every 8" to 12" inches in the *Auxiliary Casing*.
- Apply continuous bead sealant between *Platform* and units and at all mitered ends of *Auxiliary Casing*.
- Fasten *Auxiliary Casing* through predrilled holes using corrosion resistant 1-1/2" wood screws.
- Remove any excess sealant squeeze out on units or *Auxiliary Casing* with a clean soft rag.

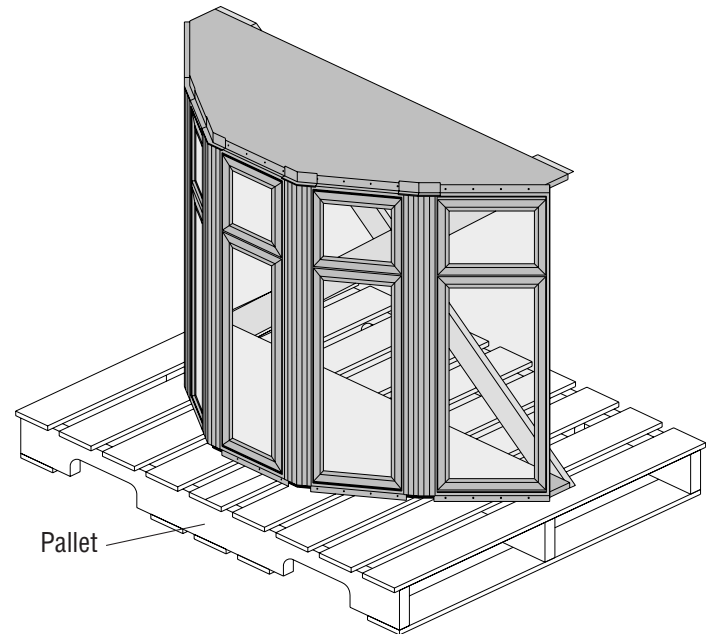


20. Prepare Unit for Transport

⚠ WARNING

To prevent tipping, projecting unit must be supported at all times until fully fastened into opening. Failure to do so could result in severe personal injury and/or product damage.

- Fasten unit to pallet with screws, straps, and wood support pieces for transport.
- Make sure all components and accessories are located and prepared for transport to installation site along with unit. These may include the following:
 - Inside 10° Mullion Post Trim
 - Extension Jamb
 - Cable Support System
 - Head and Seat Boards
 - 3-1/2" Fibrex Cellular Trim Board or wider trim by others.
- Proceed to Section 2 - Reinforced 10° Bow Installation (**Pages 13-24**) of this guide.



Exterior View

ATTENTION DEALER/DISTRIBUTOR

Please attach this assembly and installation guide to window of unit using a piece of tape.

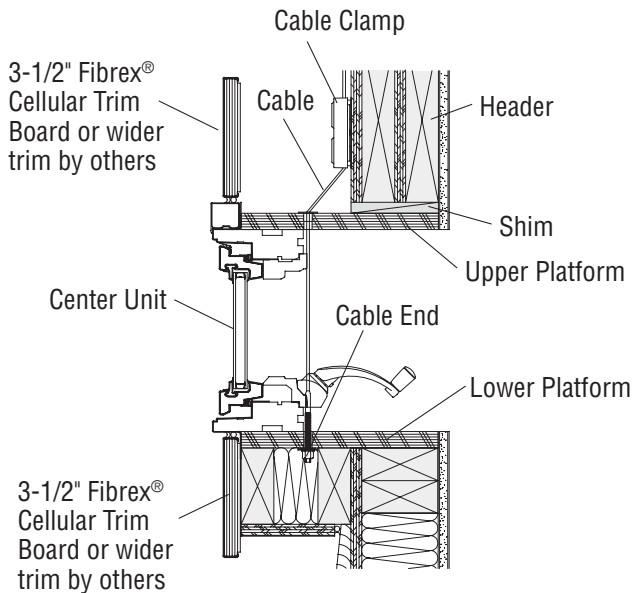
Section Two - Reinforced 10° Bow Installation Guide

for Andersen® 400 Series Casement Window

1. Identify Type of Installation

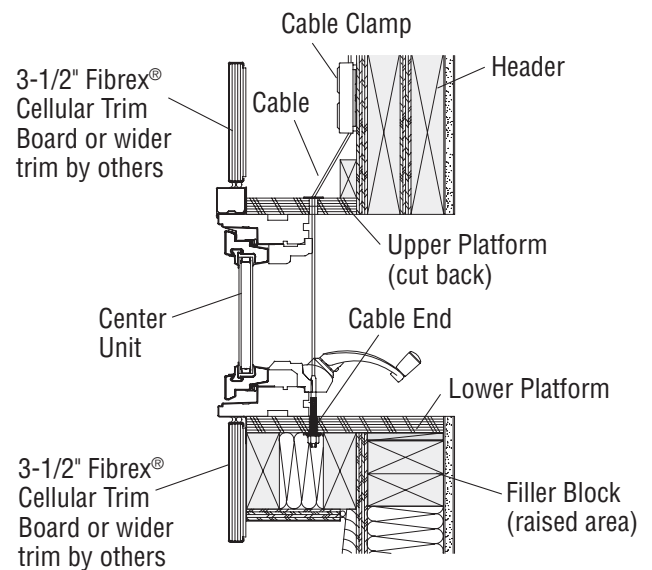
Standard Installation

- Most common type of installation.



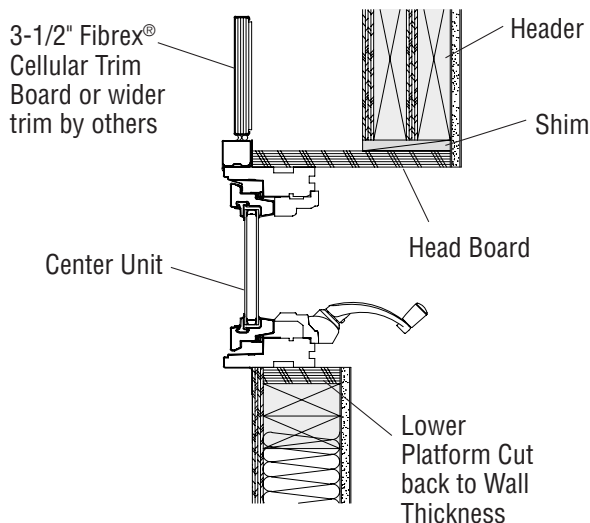
Modified Standard Installation

- Used if rough opening height is smaller than Bay Unit.
- If window unit must be raised above previously installed header to meet soffit or to match line of adjoining window trim, cut top platform back to clear header as shown.
- If window is raised, install filler blocks at sill plate of equal dimension to amount raised.



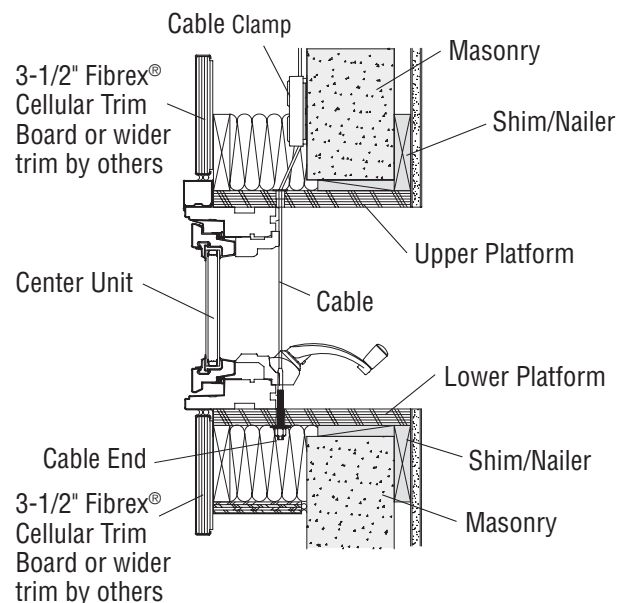
Walk-Out Installation

- Unit opening is extended down to floor line.



Masonry Installation

- Masonry anchoring required.



2. Determine Type of Support System Required

! WARNING

Installation of Custom Bow, Bay, and Box units having a projection greater than 24" require the expertise of a structural engineer to determine needed structural support. Failure to use sufficient structural support could result in personal injury or damage to window or other property.

! CAUTION

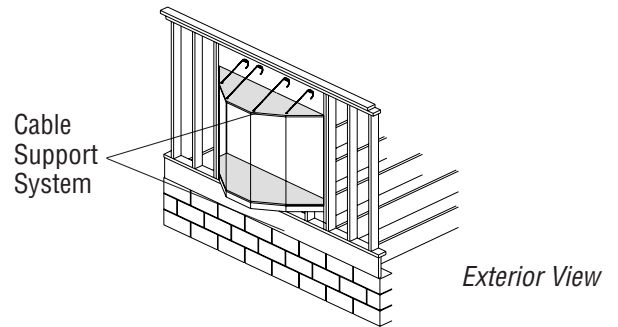
A support system such as a cable support system, post and foundation support, knee braces, and attachment to header or soffit support must be installed to properly support projecting window units. Failure to do so could result in product damage and/or incorrect operation of units.

NOTICE

When roof or bonnet is built over unit, make sure adequate support is provided to carry weight of roof and unit.

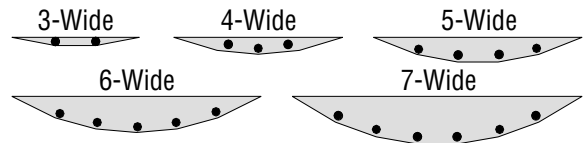
Cable Support System

- Projecting unit is supported by cables attached to header, gable, or eaves. *Cable Support System* allows unit to be adjusted to overcome difficulties associated with normal building settlement. The Cable Support System in 9' and 12' versions are available through your Andersen Dealer. See Cable Support System installation guide for proper installation.
- IMPORTANT: Transom Joined Units must use Cable Support system at every Mullion Post, see illustration.**
- Install *Cable Support System* after **Step 9** of this guide.



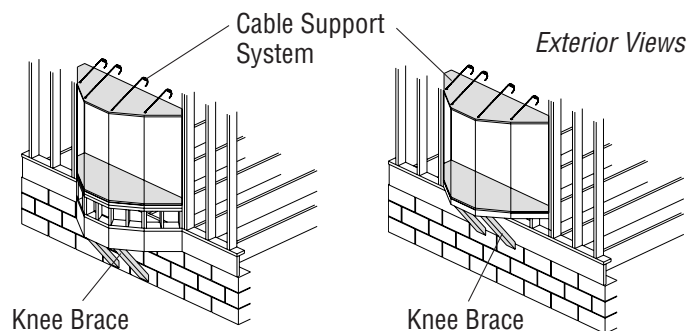
Cable Support System

Note: Unit, flooring, and siding are omitted for clarity in all illustrations.



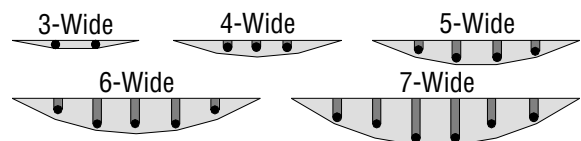
Knee Braces & Cable Support

- When adequate support cannot be achieved by *Cable Support System* or by header, soffit or cantilever support system, *Knee Braces* (provided by others) must be attached to structural member below each *Mullion Post*.
- IMPORTANT: Transom Joined Units must attach knee brace at every Mullion Post, see illustration.**
- Anchor *Knee Brace* into structural member or install double cripple below unit and secure braces into them.
- Install *Cable Support System* after **Step 9** of this guide.



Knee Braces & Cable Support

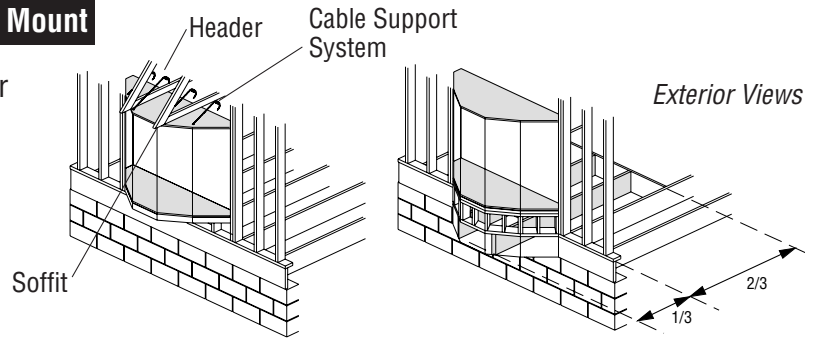
Note: Unit, flooring, and siding are omitted for clarity in all illustrations.



2. Determine Type of Support System Required (Continued)

Header/Soffit & Cable Support or Cantilever Mount

- Projecting unit is supported by cantilevered floor joist or unit is attached directly to header/soffit along with *Cable Support System*. Projection of cantilevered floor joist must not exceed $\frac{1}{3}$ of overall length of support joist.

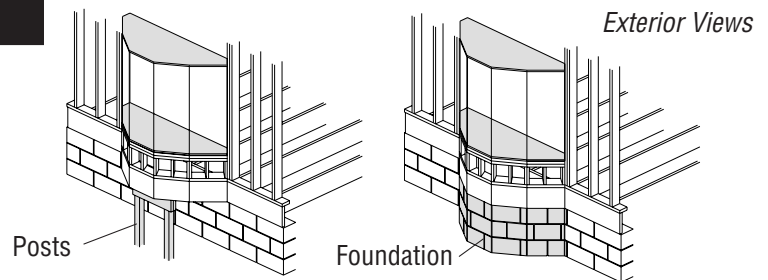


Header/Soffit & Cable Support or Cantilever Mount

Note: Unit, flooring, and siding are omitted for clarity in all illustrations.

Post or Foundation Support

- Unit is supported by post or foundation of dwelling.



Post or Foundation Support

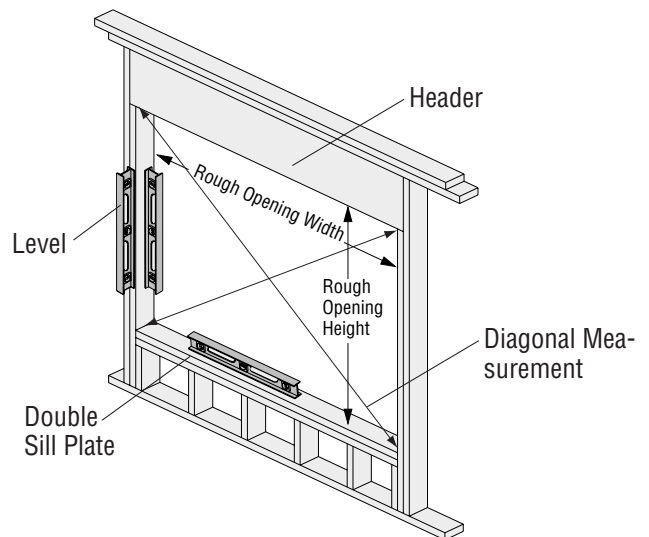
Note: Unit, flooring, and siding are omitted for clarity in all illustrations.

3. Prepare Rough Opening

CAUTION

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

- Frame rough opening to dimensions recommended at www.andersenwindows.com or prepare an existing rough opening. Masonry rough opening must be $\frac{1}{2}$ " greater than unit width and height.
- Make sure *Sill Plate* is level using a level. Shim *Sill Plate* to level.
- Make sure rough opening is plumb using a level.
- Make sure rough opening is square by placing tape measure diagonally across rough opening, upper left to lower right and upper right to lower left corner. If measurements are within $\frac{1}{8}$ ", opening is square.



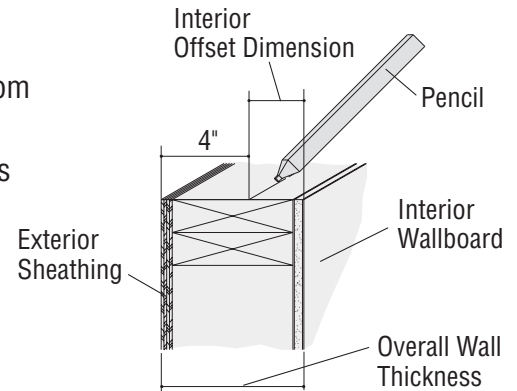
Standard Wood Frame Installation

4. Determine Wall Thickness and Position of Unit in Wall

- Determine overall wall thickness, excluding siding, by measuring wall from outside edge of exterior sheathing to inside edge of interior wall board.
- Determine interior offset dimension by subtracting 4" from wall thickness dimension.

$$\begin{array}{rcl} \text{Overall Wall} & - & 4" = \text{Interior Offset} \\ \text{Dimension} & & \text{Dimension} \\ \text{Example: } 6-9/16" & - & 4" = 2-9/16" \end{array}$$

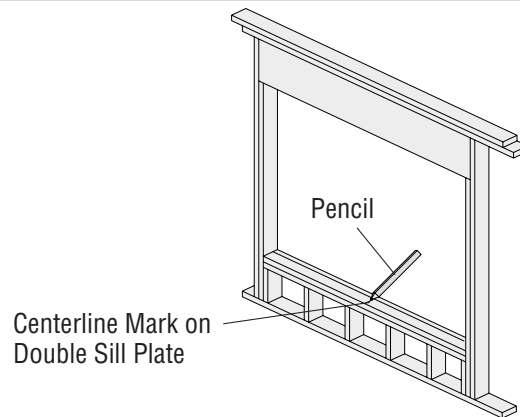
- From the interior, use a combination square to transfer **Interior Offset Dimension** to double sill plate and header.



Standard Wood Frame Installation

5. Mark Centerline on Rough Opening

- Measure width of rough opening and place a centerline mark on double sill plate.



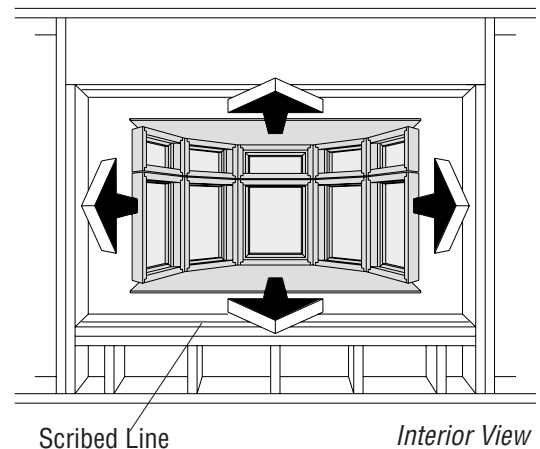
6. Place Unit in Rough Opening

- Remove cross bracing and skids from unit.

⚠ WARNING

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

- Lift unit into rough opening from exterior of dwelling.
- Place jack and 2"x4" temporary support braces under *Lower Platform* to prevent unit from tipping out of opening.

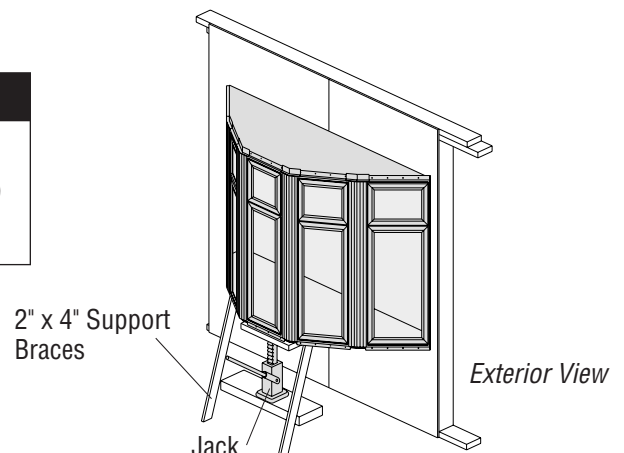


7. Temporarily Support Unit in Rough Opening

⚠ WARNING

Bow Window Unit must be supported during installation until fully fastened into opening to prevent tipping. Failure to do so could result in severe personal injury and/or product damage.

- Place jack and 2" x 4" support braces under *Lower Platform*, temporarily, to prevent unit from tipping out of opening.



8. Position and Fasten Unit

⚠ WARNING

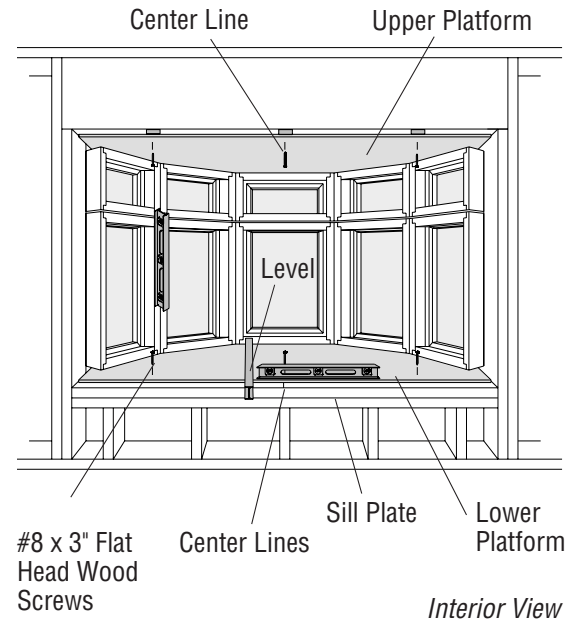
Metal fasteners and components may corrode when exposed to preservative-treated and/or fire-retardant treated lumber. Obtain and use the appropriate metal fasteners and hardware as called out by the installation guide to fasten unit to any rough opening made from preservative-treated and fire-retardant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

- Align inside edge of *Lower Platform* with line scribed on *Sill Plate*.
- Align centerline of unit with centerline on *Sill Plate*.
- Fasten *Lower Platform* to *Sill Plate* temporarily using three #8 x 3" flat head wood screws.
- Align inside edge of *Upper Platform* with scribed line on header.

⚠ CAUTION

Projecting unit must be installed plumb and level regardless of plumbness or levelness of dwelling wall. Failure to do so may result in product damage.

- Make sure that unit is plumb. Insert shims and temporarily fasten *Upper Platform* to header using three #8 x 3" flat head screws.
- Check unit for plumb and level and correct operation of operating units. If adjustment is required, remove screws and adjust unit as necessary with shims and jack.
- Refasten unit with #8 x 3" flat head wood screws.

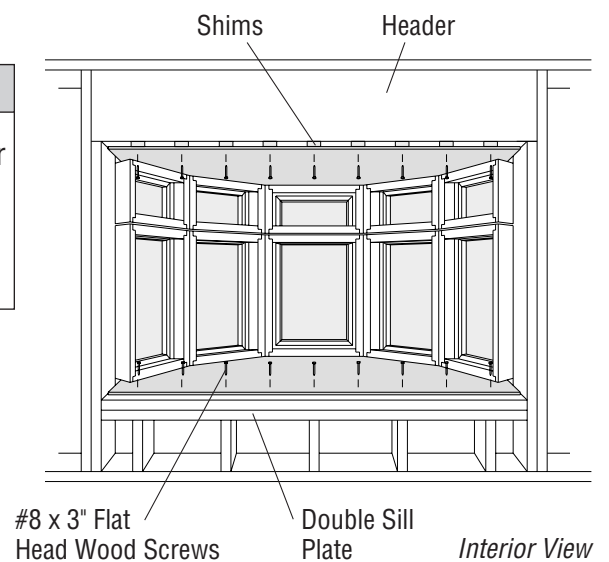


9. Fasten Unit to Double Sill Plate and Header

NOTICE

Support Systems such as Cable Support, Knee Brace, Cantilever Mount, or Post Support can be installed at this time. Refer to **Page 11** of this guide. If support system is not installed at this time, jack and temporary support pieces must remain in place.

- Shim space between header and *Upper Platform*.
- Secure both *Upper* and *Lower Platforms* to rough opening with #8 x 3" flat head wood screws spaced at 6" to 8" intervals.



10. Apply Blocking and Secure Unit to Wall

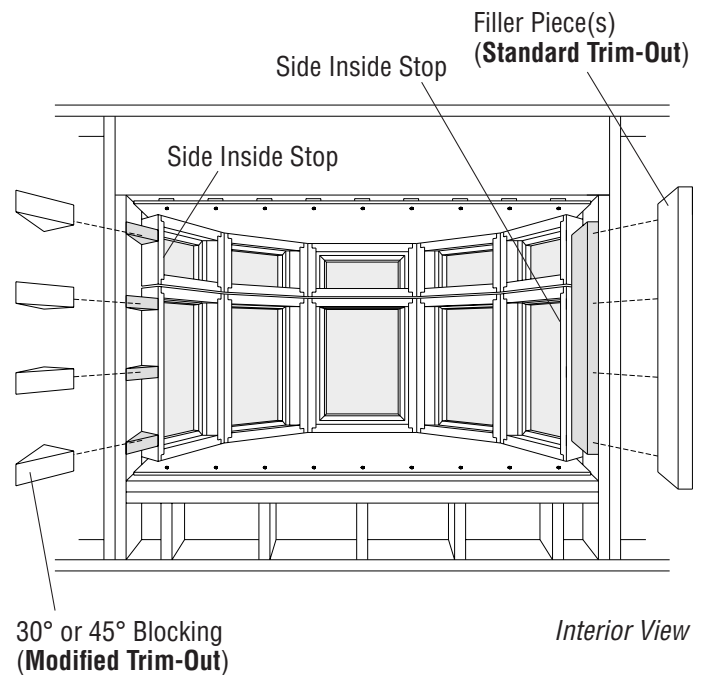
! CAUTION

- Side Jambs attached to wall must have angled blocking or filler piece(s) inserted vertically. Failure to do so could result in bowed side jambs and incorrect operation of units.
- Side Stop on the lock side of tandem lock Casement Units has an underlying lock mechanism. Use caution when removing Side Stop on the lock side to avoid damage to lock mechanism and/or Side Stop.

- Remove *Side Inside Stops* from outermost *Flanking Units* only.

NOTICE

- Method of blocking depends on type of trim-out desired. See **Step 17, Page 22** for trim options.
- For **Modified Trim-Out**, cut 30° or 45° blocking from 2 x 4. For **Standard Trim-Out**, use 2 x 4 inserted vertically.



- Cut angle blocking from a 2 x 4 or *Filler Piece(s)* to length according to trim-out method desired.
- Predrill a 1/8" hole through outermost side jambs locating hole in kerf closest to vinyl skin.
- Secure side jambs to wall using #8 x 3" flat head wood screws spaced at 12" intervals.

Bow Window Unit(s) 5'-5" and Larger Only

! CAUTION

Bow Window Unit(s) 5'-5" and Larger Only

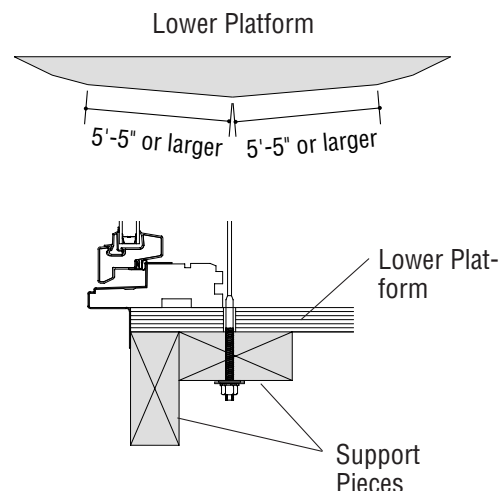
Additional support must be installed on Bow Window Units if any side of unit is 5'-5" or wider. Failure to do so could result in product damage and/or incorrect operation of units.

NOTICE

Cable Support System Only

Use template provided in Cable Support System to locate and drill holes through support pieces.

- Attach 2 x 4 support pieces with 2" flat head wood screws to *Lower Platform* to any side of projecting window 5'-5" and wider.



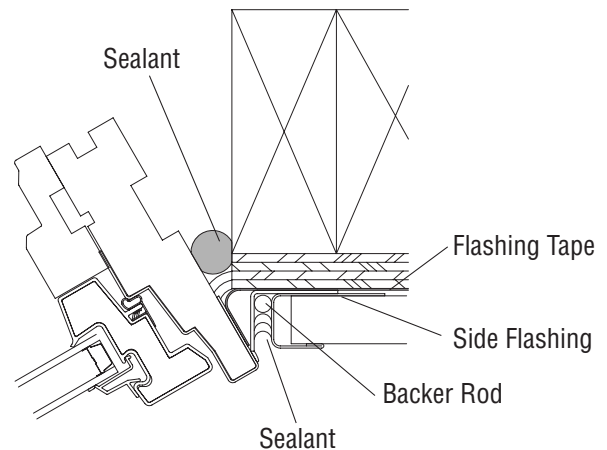
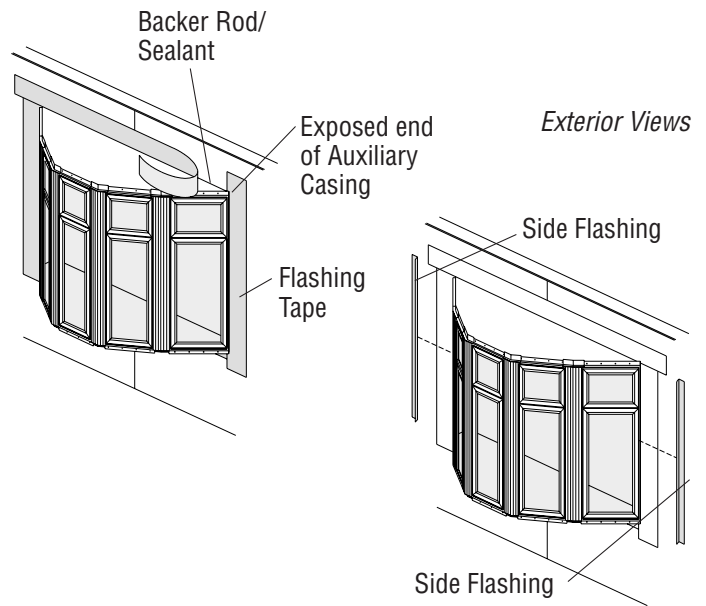
Window Unit(s) 5'-5" and Wider - Horizontal Detail

11. Seal Exterior and Apply Side Flashing

⚠ 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.

- Apply sealant to exposed end of *Auxiliary Casing*.
- Apply backer rod and quality sealant to gap between unit and exterior sheathing.
- Apply flashing tape around perimeter of unit.
- Align *Side Flashing* flush with top of *Auxiliary Casing* and bottom of unit.
- Push *Side Flashing* tightly against side jamb and fasten using 1-1/2" roofing nails.
- All exterior siding (or other finish) must have a recommended 1/4" clearance around unit, except at sill in masonry installations.
- Apply a quality sealant around exterior perimeter of window after siding (or other finish) is applied over *Side Flashing*.



Cross Section Detail

12. Seal Interior of Unit

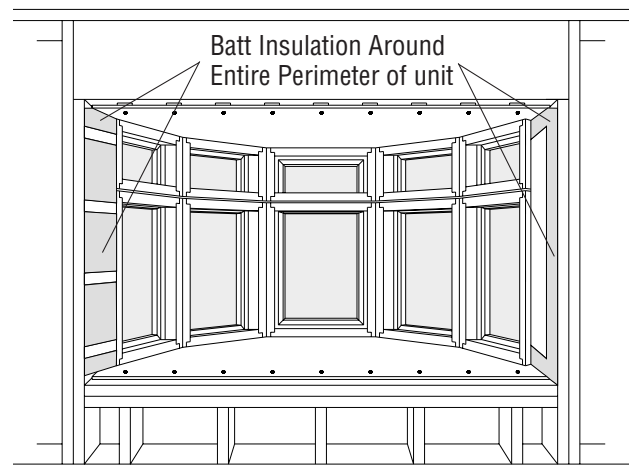
⚠ CAUTION

When insulating between the unit's frame and rough opening **DO NOT** overpack batt insulation or overfill with foam. Bowed jambs will result, affecting product performance and/or proper operation of unit.

- Insert batt insulation between frame and rough opening at head and side jambs. **DO NOT** overpack insulation. Bowed jambs may result.
- Apply a vapor barrier to the warm side of *Upper and Lower Platforms*. For **northern climates**, apply on interior side. For **southern climates**, apply on exterior side.

Left side of graphic depicts **Modified Trim-Out**.

Right side of graphic depicts **Standard Trim-Out**



Interior View

13. Apply Insulation and Exterior Casing

Self Supporting Roof by Others

- Install a self supporting roof structure over top of *Auxiliary Casing*.
- Install batt insulation.
- Apply roof finish (shingles, copper).

Auxiliary Casing by Andersen

- For applications having approximately 1-3/16" between unit and soffit.

Fibrex® Cellular Trim Board by Andersen

- *Fibrex® Cellular Trim Board* is available in 3-1/2" widths by Andersen.
- Cut *Fibrex® Cellular Trim Board* to fit.
- Install a nailer to soffit.
- Insert insulation.
- Install *Fibrex® Cellular Trim Board* with corrosion resistant fastener.

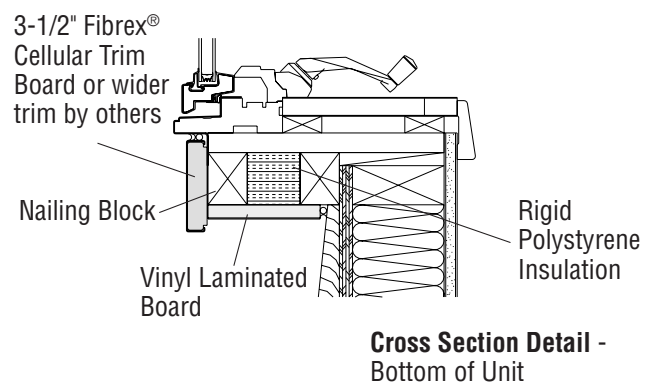
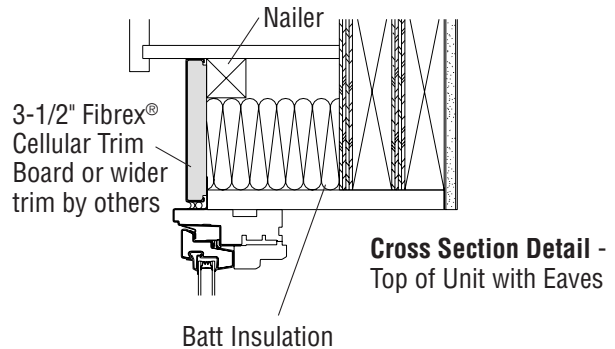
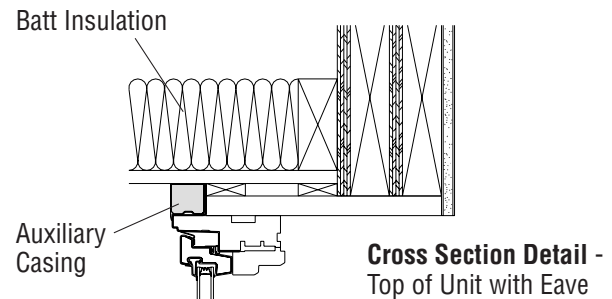
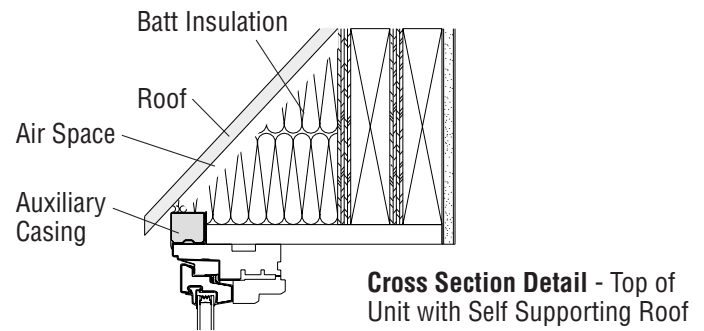
Fibrex® Cellular Trim Board and Vinyl Laminated Board by Andersen

- *Fibrex® Cellular Trim Board* is available in 3-1/2" widths.
- *Vinyl Laminate Board* can be used as soffit for projecting windows. *Vinyl Laminate Board* is available in 24" or 48" widths and may be used in conjunction with rigid vinyl "J" or "H" channel by Andersen.

NOTICE

When using the Cable Support System, access holes must be drilled through Lower Platform Soffit and insulation for cable adjustments. Refer to Cable Support System installation guide.

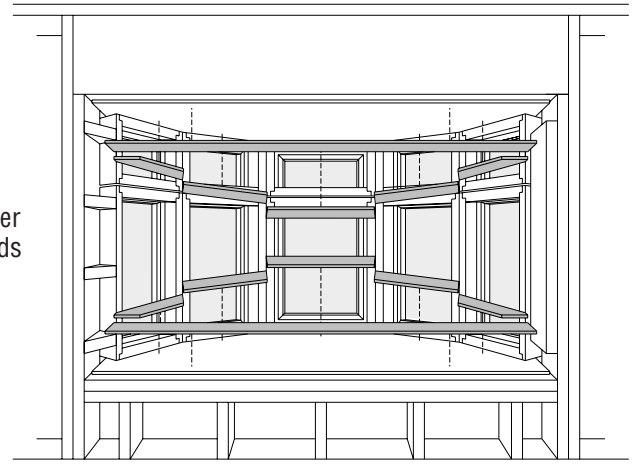
- Attach nailing block to outside edge of *Lower Platform* using appropriate length flat head wood screws.
- Cut *Fibrex Cellular Trim Board* to length and fasten to nailing block using 1-1/2" flat head wood screws.
- Cut *Vinyl Laminate Board* soffit to size and fasten to nailing block using 1-1/2" screws.



14. Position and Secure Seat Board

- Attach *Spacer Boards* (supplied by others) around perimeter of *Upper* and *Lower Platform*.

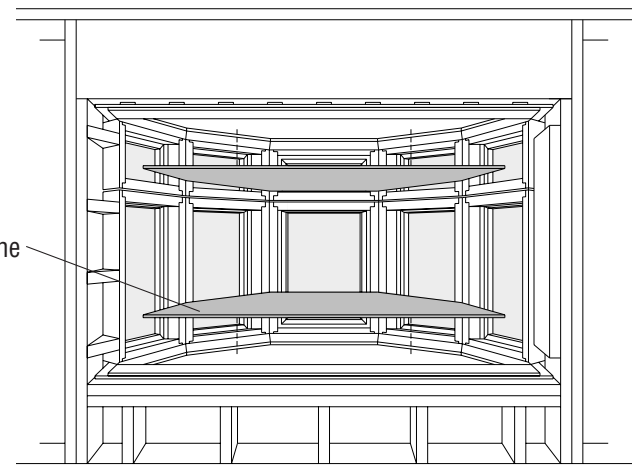
Spacer
Boards



Interior View

- Cut rigid insulation to fit between *Spacer Boards* and apply to *Upper* and *Lower Platform*.

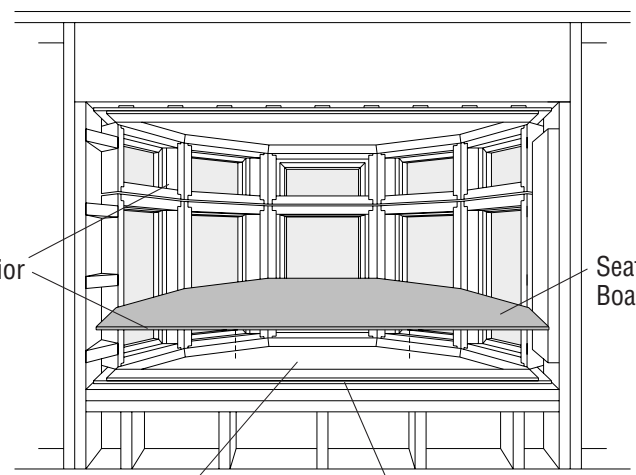
Rigid
Polystyrene
Insulation



Interior View

- Position *Seat Board* tightly against window units making sure that finished side is facing the interior. Due to varying material thicknesses, it may be necessary to loosen operator fastening screws to allow *Seat Board* to slide under operator.
- Center *Seat Board* and make sure interior edge of *Seat Board* is flush with interior wall.
- Secure with 1-1/2" (4d) finishing nails around perimeter of *Seat Board* 1/2" from edge. Space nails at 8" intervals.

Interior
Edge



Rigid
Insulation

Spacer

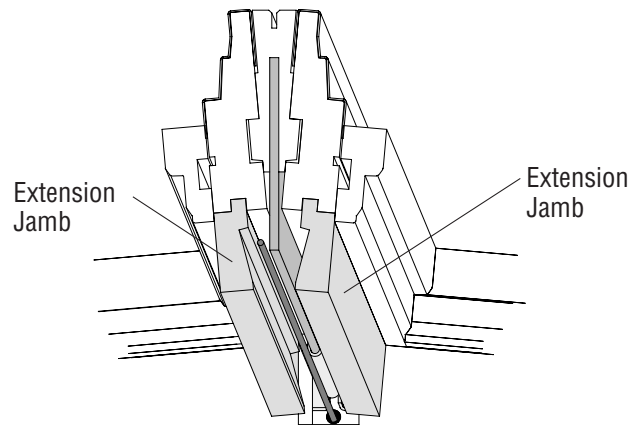
Seat
Board

Interior View

Note: Head and Seat Boards are not required for walkout installations.

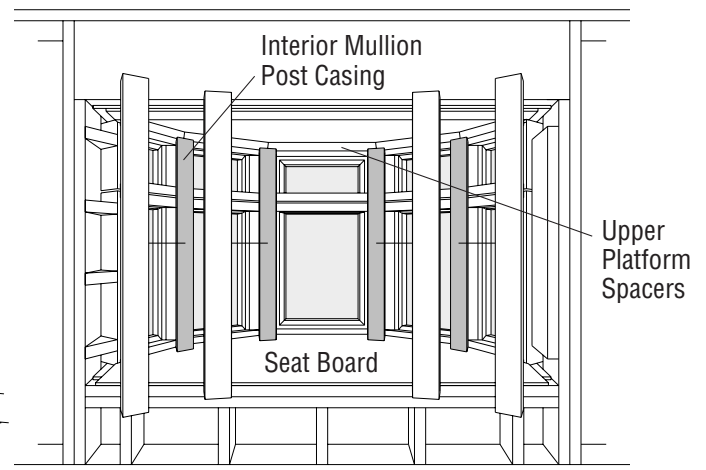
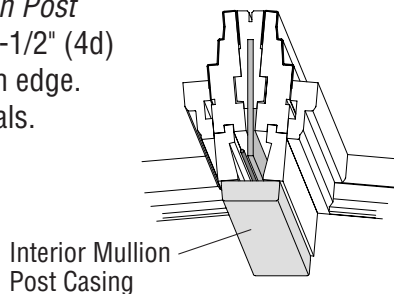
15. Apply Extension Jamb

- Using tape measure determine distance between installed *Seat Board* and *Upper Platform Spacers*.
- Subtract thickness of *Head Board* from above measurement. Cut *Extension Jambs* to calculated length.
- Position and secure *Extension Jambs* and secure with 2-1/2" (8d) finishing nails. Space nails at 8" intervals.



16. Apply Interior Mullion Post Trim

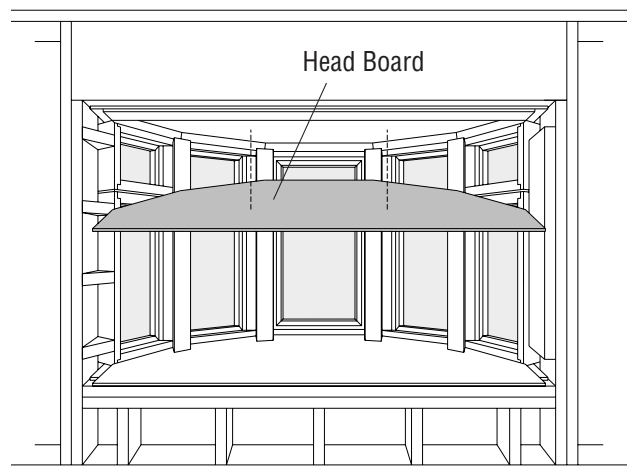
- Using tape measure determine distance between installed *Seat Board* and *Upper Platform Spacers*.
- Subtract thickness of *Head Board* from above measurement. Cut *Interior Mullion Post Trim* to calculated length.
- Position *Interior Mullion Post Trim* and secure with 1-1/2" (4d) finishing nails 1/2" from edge. Space nails at 8" intervals.



Interior View

17. Install Head Board

- Slide exterior edge of *Head Board* on top of *Interior Mullion Post Trim* making sure that finished side of *Head Board* is facing downwards.
- Push *Head Board* upwards against *Upper Platform* and center. Make sure interior edge of *Head Board* is flush with interior wall.
- Trim *Head Board* flush with interior wall if necessary.
- Secure with 1-1/2" (4d) finishing nails around perimeter of *Head Board* 1/2" from edge. Space nails at 8" intervals.



Interior View

Note: Head and Seat Boards are not required for walkout installations.

18. Trim-Out Options

Standard Trim-Out

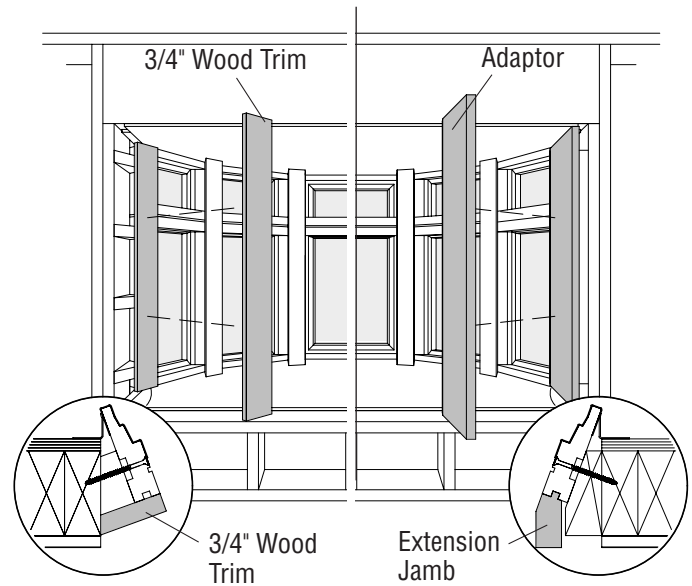
- Standard 3/4" wood trim supplied by others.
- Ideal for replacement and new construction.

Modified Trim-Out

- *Extension Jambs* are available from your Andersen Dealer in 4-9/16", 5-1/4", 6-9/16", and 7-1/8" wall dimensions.
- *Extension Jambs* must be cut to length when applying to *Head* and *Seat Boards*.
- Secure with appropriate length finishing nails.

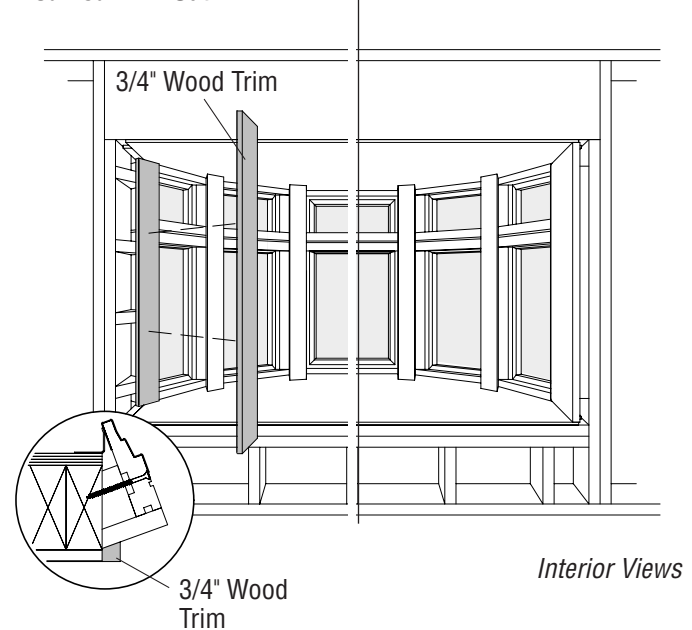
Left side of graphic depicts
Modified Trim-Out.

Right side of graphic depicts
Standard Trim-Out



Left side of graphic depicts
Modified Trim-Out.

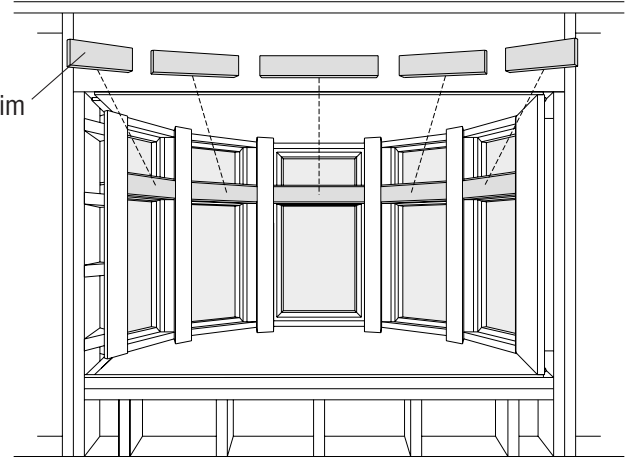
Right side of graphic depicts
Standard Trim-Out



19. Apply Horizontal Trim

- Apply *Horizontal Trim Pieces* using 1-1/2" (4d) finish nails.

Horizontal Trim



Interior View

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.