



INSTALLATION GUIDE

For ViWinTech Bay & Bow Windows

Consult local building codes prior to installation

ViWinTech recommends using an Installation Masters TM Certified Installer or an experienced professional contractor who practices Installation Masters methods to provide the proper operations and weather tight seal to the building. Contact a ViWinTech distributor for further information. These installation procedures are general guidelines for standard wood construction. Other methods can be used at the discretion of the architect or professional installer to provide the best weather tight installation. ViWinTech is NOT responsible for the quality of installation.

Failure to adequately install and properly maintain the window will void any warranty, written or implied. The installer is responsible for proper installation guidelines in accordance with any local/state applicable codes and/or ordinances.

ViWinTech assumes no responsibility for the consequences of inadequate or improper installation or lack of product care.

Read these instructions completely before beginning work.

Remove all packaging materials and installation accessories from the window units and inspect for damage immediately. Immediately inform your distributor of any damage or shortages.

The hardware package is shipped with the rest of your ViWinTech package. Locate the plastic bag which is typically attached to the interior surface of the vertical wood shipping brace.

Installation Procedures

1. Check height & width measurements for:
 - The bay or bow window frame.
 - The window openings inside the bay or bow frame.
 - The existing window to be replaced.
2. Remove the existing window and interior casings.
 - Install the bay or bow frame into the Rough Opening of the present window, adding additional fasteners until all wood is secure. If the exterior height dimension is smaller than the interior dimension, add a 2x Sill to the Sill Plate.
3. Cap the new or existing sill with coil stock and seal the caulking with exterior grade silicone. It will be almost impossible to seal the frame after it is installed.
4. Insert the bay/bow frame into the opening, bringing the interior edge of the frame (head, seat, & side jambs) flush with the interior of the wall.
 - Use a straight edge or a level to ensure that the bay or bow frame is flush on all sides with the interior of the wall. Insert wood shims as needed to level the frame in the opening. Typically, shims will be added to all four sides.
5. Secure the bay or bow frame into the opening using a minimum of 3 or 4 hardened steel finish nails per jamb. Fasten the side jambs first, followed by the seat, & then followed by the head. Be sure to set all nails in the frame into the same locations as your shims.
 - Complete fastening frame by setting all nails with a nail punch.
6. Seal around the bay or bow frame and present window jamb with fiberglass insulation until airtight.
7. Install replacement windows into each opening of the bay or bow frame.
 - All windows must be Wet Glazed (back sealed) against the exterior stops. Apply a heavy bead of high quality sealant (silicone or similar caulking) to the entire perimeter of the interior surface of the exterior stops.
 - Insulate with fiberglass insulation around all replacement window units.
 - Miter interior window stops and install around the complete perimeter of all window units.
8. Cut $\frac{3}{4}$ " Cove or Shoe Molding and attach to each side jamb. This will serve as the trim.
9. Seal Perimeter of Frame with quality caulking.



Double check all measurements prior to removing window.

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The 2x Sill should be ripped to the same dimension as the present Wall Thickness or Jamb Depth.

This addition of the new sill should have been determined when the window was measured for ordering purposes.



Level Bay or Bow Frame in opening

Level frame using wood shims

Using frames on each side of the nail will help protect the hardwood veneer from hammer marks. Nail holes should be filled with wood putty. If using a color stick to fill nail holes, complete this process after the frame is stained. Wood screws may be substituted for nails.



Pre-mitered interior window stops are available.



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To install Interior Casings, designate the appropriate guide below, depending on the type of casing available.

10. 3-1/2" or 2-1/4" Colonial Casing

- Measure and cut (miter) the 3-1/2" interior casing, beginning with the Bottom Face board.
- Fasten the Bottom Casing to the seat and wall using a finish air nailer. If hand nailing, pre-drill the casing.
- Measure & cut both pieces of casing for the sides. Match the miters with the bottom casing and fasten to the side jamb.
- Measure, cut, and fasten the top casing.
- 6" Colonial Stacked Casing
- Install the bottom face board first. Measure and mark the center point of both the bottom face board and the seat of the bay or bow window frame. Match the Center Point of the Bottom Face Board with the Center of the Frame Seat.
- From one end to the other, fasten the bottom face board flush with the top surface of the frame seat.
- Place the side boards on top of the bottom board. Each side board should be squared at the butt joint. From the bottom to the top, fasten the side board to the jamb and wall. Each side board should be flush with the interior of the surface of the side jamb.

11. To help prevent water leaks, install a waterproof barrier over the entire top of the frame (Peal & Seal).

- ## 12. Bay or bow windows must be supported using either an External Knee Brace or the Cable Hanged System provided in the Cable Support Kit. The Cable Support Kit includes two adjustable turnbuckles, two 24" lengths of steel cable and two lag eyebolts.
- Fasten eye bolts to either the header or the overhang of the structure.

Fascia Extension – No Roof Application

- If the distance between the top of the bay or bow frame and the house overhang (soffit) is less than 12" and the frame does not project out past the overhang, then this space should be filled with wood (1x4, 1x6, etc.). Remove soffit covering material that may be installed over wood overhang a and add wood ledger to nail top of Fascia Extension.
- Install adjustable Cable Support System at this time (see Support System Instructions on page [blank])
- Insulate space with fiberglass insulation. Fasten the appropriate size wood to the front of the bay or bow window, nailing approximately 1" down from the top. Cap the exposed wood in coil stock to match the window, seal any crack areas with quality caulking, and re-install the soffit material up to the new fascia extension.

Pre-fabricated Hip Style Roof

- Set the roof on top of the window, making sure it is centered properly. Trace the backside against the house wall and remove the roof. Cut the siding away from the house along the trace line and install the J-Channel over the cut edge. Tuck the Step Flashing and Wall Flashing under the J-Channel.
- Set the roof on top of the window and remove each of the top panels by backing out the wood screws. Use 3" wood screws to attach the roof to the house wall. Make sure each screw drives into studs or the header.
- Drill and Screw Upper Eye Bolts through the back panel of roof and into the header or top plate. Connect Turnbuckles and Cable from the Lower Eye Bolts mounted in the top of the frame to the Upper Eye Bolts. Tighten the Turnbuckles and adjust as necessary to make sure bay or bow projection is level.

This is a two-part system consisting of 6" wide bottom face boards and 2-1/4" colonial casing. We recommend ordering this trim Pre-cut and Mitered.



Insulate around Frame



Install all Window Units

Cut the side Face Boards 1/4" lower than the frame head, resulting in a perfect sight line!



Back Seal Window Stops



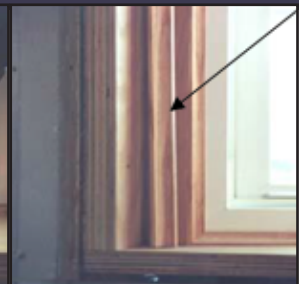
Insulate between Windows and Frame

The Top Face Board will not be flush with the interior surface of the Frame Head.
i. Fasten 2-1/4" Colonial Casing around the outside perimeter of the face at the bottom first, then the sides and top. always starting at the end and working your way to the other end. Make sure the outside edge of the 2-1/4" casing is flush with the outside edge of the 6" face board.

Set nails and putty all holes. Lightly sand all interior wood.

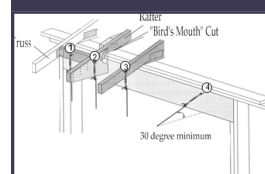


Back Seal Window Stops



Insulate between Windows and Frame

Birds-mouth" cut rafters should always be reinforced if being used to support the bay or bow window. Attach a piece of 3/4" plywood to fit over rafter. The Top Eyebolt can now be anchored to the rafter through the plywood (Gusset).



Truss tails located vertically above the eyebolt should provide adequate support. Truss tails not located vertically above the lower eyebolt should have a header installed between them and secured with joist hangers. The Top Eyebolt should be anchored to this header. The header or top plate should be used to anchor the top eyebolt on installations without an overhang. The angle on the support should not be less than 30 degrees

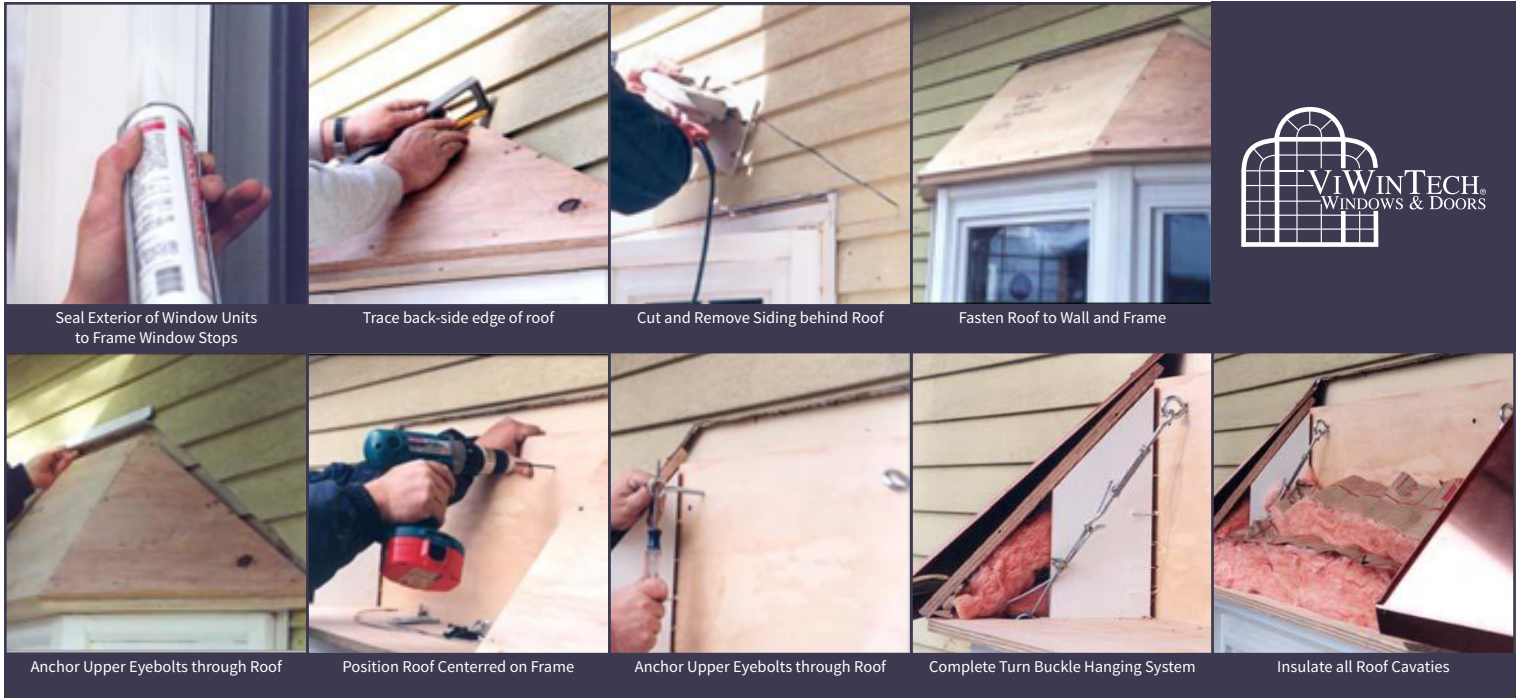


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- Cover the Front Edge & the return with coil. Apply felt paper or ice and water barrier to top panels and install desired roofing shingle.
- 13.** If you have ordered the frame without one of our Pre-insulated Seat Options, cut a 1" polystyrene foam sheet to fit the bottom base of the bay or bow frame. Fasten to base and clad with coil to match frame.
- 14.** Cap and Caulk all exposed Window Casings as needed.
- 15.** Caulk the exterior of all window units to the exterior bay or bow window stops. We recommend using the highest quality caulking available. If using a Silicone product, make sure that it is designed to adhere to vinyl.



- 16.** Remove any excess caulking and clean the entire exterior of the unit as needed.

IMPORTANT: Extra care should be exercised to avoid damage before, during and after installation. When handling windows, always lift at jambs for added safety and prevention of component damage. Prior to installation, store windows in a near vertical position, never lay flat. Always protect from outside elements when storing or transporting and never store factory wrapped windows in direct sunlight.

WARNING: ViWinTech windows are made with annealed glass and are not provided with safety glass unless specifically ordered. Broken glass can fragment and cause personal injury. Many laws and building codes require safety glass to be used in certain conditions. It is the sole responsibility of the purchaser, architect, builder and/or contractor to determine the need for safety glazing to conform to local codes.

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