



Installation Guidelines

For Quaker Window Products Vinyl replacement product line (Single Hung, Double Hung, Sliding Window, Fixed Window, Casement, Awning, and Hopper)

Installer:

- **Read these instructions completely before starting any installation.** Failure to install and maintain our product according to these instructions will void any warranty, written or implied.
- These instructions are consistent with ASTM 2112 "Standard Practice for Installation of Exterior Windows, Doors and Skylights" into common wall constructions. Contact your architect or construction professional for installation into other building designs or constructions methods.
- The installer is responsible for consulting the contractor, structural engineer, architect, or consumer, for proper installation according to local codes and/or ordinances.



Warning:

- Proper eye and hearing protection must always be worn when installing, removing or performing adjustments to Quaker window and door products.
- Use power tools properly! To avoid personal injury, always follow manufacturers' instructions for safe operation of power tools.
- If broken, glass can fragment causing injury. All Quaker products are available with safety glass. In many areas, local building codes require safety glass in certain locations and/or applications. Unless Quaker's stipulations dictate safety glass or safety glass is specifically ordered, Quaker windows are not provided with safety glass. Before installing, Quaker recommends consulting local building codes for more definitive information.

Caution:

- Lead-based paint may be present in older homes, and the removal of windows may cause this paint to be disturbed. In order to minimize exposure to lead-based paint dust, please consult www.epa.gov/lead.
- Care must be taken to properly recycle or dispose of old materials. Any recyclable materials should be separated from non-recyclable or hazardous materials. Please consult with local or state authorities regarding proper disposal of non-recyclable or hazardous materials.
- Some codes require the use of pressure treated lumber to line rough openings. Corrosion resistant materials, such as stainless steel or hot-dip galvanized steel, must be used for fasteners and anchors having direct contact with pressure treated lumber.

Important:

- Quaker reserves the right to change the information contained in these guidelines without notice.
- Maintain a minimum of ¼" between the exterior window frame and any trim, siding or masonry to allow for expansion.
- Window nailing flanges and drip caps (integral or applied) do not take the place of window flashing. All windows and doors must be properly flashed and sealed around the perimeter.
- Use of Quaker products in barrier EIFS systems (synthetic stucco) is not recommended. To do so will void all warranties (written or implied) and Quaker Window Products Co., Inc. will not be held responsible for any claims or damages resulting from water infiltration.
- Do not drill through window sill to install alarm wires.
- If using muriatic acid or brick wash cleaning solutions, please follow the manufacturer's instructions found on the product label or on the manufacturer's website.










Handling and Storage:

- Do not store units outside, or in a hot environment.
- When carrying window, always keep it in a vertical position. **Do not carry flat**, doing so could result in damage to the unit.
- Stack units as straight as possible to avoid bowing. Do not lay flat!



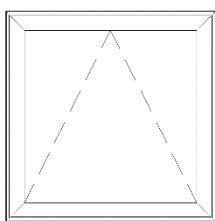
These instructions are for installing Quaker's vinyl products into a wood or concrete/masonry wall. The rough opening must be lined with a 1 1/2" thick wood buck. Contact your Quaker window and door supplier for more information on installing units in other wall conditions. Please visit our website at www.quakerwindows.com or call at 1-800-347-0438 for additional literature and information.

Tools required by installer:

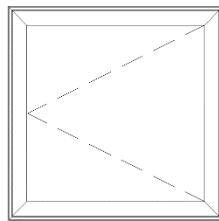
- Safety Glasses 
- Utility knife 
- Hammer 
- Caulk Gun 
- Level 
- Pliers 
- Tape measure 
- Putty knife 
- Pry bar 

Materials required by installer:

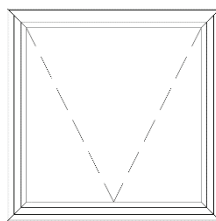
- Insulation
 - Fiberglass or similar strips
 - Minimally expanding low pressure polyurethane window and door spray foam. **(Must be compliant with AAMA 812-04)**
- Shims
 - Made of cedar or synthetic material
- Screws
 - #8 wood screw or masonry screw 2" long (screw size may vary per wall/framing needs)
- Silicone Sealant
 - 100% silicone ASTM C920 compliant
 - Neutral cure (modified oxime) only
 - Some sub-states made need to be primed before sealing. Consult the sealant supplier.



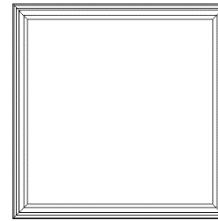
Awning



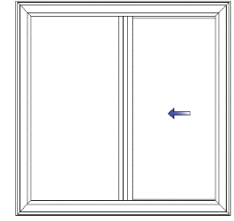
Casement



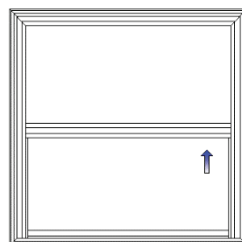
Hopper



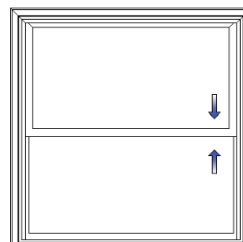
Picture window



Sliding window



Single Hung



Double Hung



Step 1: Inspect unit before installation

- Remove all shipping packaging material (blocks, pads, protectors, stretch wrap) and dispose/recycle properly.
- Inspect unit for any damage or defects, and make sure the unit operates properly.
- Verify that the window unit is the correct size and configuration (Fig. 1 & 2).
- Contact the nearest Quaker distributor if there is a problem. Provide the sales order number on the warranty sticker (see <http://quakerwindows.com/wp-content/uploads/2013/04/Warranty-sticker-locations01-30-2015.pdf> for sticker locations).

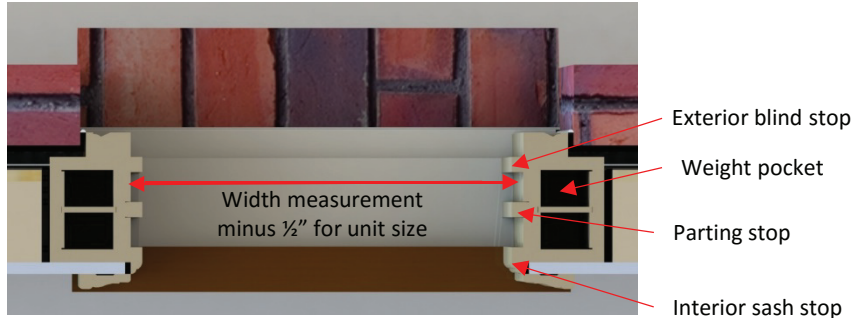


Fig. 1



Fig. 2

Note: Take measurements at three locations (head, middle, sill for width and left, middle, right for height). Use the smallest of the three measurements to ensure the replacement window can be installed square, level, plumb in both directions, and with a straight sill.

Step 2: Remove the existing sashes

- Unlock the window. If the sashes are painted shut, use a utility knife to cut the joint between the sashes and frame stops until the sashes are free.
- Score paint or varnish along all interior sash stops with a sharp utility knife. Remove interior sash stops at jamb and head using putty knife and pry bar (Fig. 3 & 4). **Be careful** when removing stops so you can reuse them after replacement window is installed.

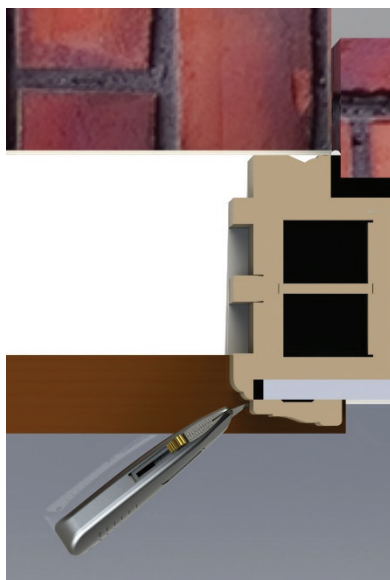


Fig. 3



Fig. 4

Step 2: Remove existing sashes (cont.)

- C. Cut the balance cords on the bottom sash and remove the sash and dispose of it properly. Allow weights to fall to the bottom of the weight pockets (Fig. 5).
- D. Remove the jamb and head parting stops (if applicable) by pulling or prying them out of the frame (Fig. 6).
- E. Lower the top sash and cut the balance cords. Remove the top sash and dispose of it properly.
- F. Remove the balance chord pulleys (Fig. 7).
- G. Remove any remaining jamb liner material (if applicable).
- H. Insulate the weight pockets and any openings or voids (if desired).



Fig. 5



Fig. 6



Fig. 7

Step 3: Opening preparation

- A. Inspect the existing window frame. Repair or replace any deteriorated parts.
- B. Clean the opening of all dirt, debris or excess paint. **Note: If using aluminum coil exterior trim, apply it to the sill now.**
- C. Apply flashing tape to the sill. Cut one piece of tape 12" longer than the sill to allow for 6" up each side jamb. Extend the tape up the vertical leg of the stool and trim tape going up the jamb. Make sure the tape doesn't extend past the exterior blind stop, and lap the tape over any coil trim at the sill (Fig. 8)
- D. Check the sill for level or for bowing and shim as needed to level sill (Fig. 9). Place shims about 1/2" from each side and in center with minimum spacing of 16". Attach shims to prevent movement after they are level.



Fig. 8



Fig. 9

Step 4: Window preparation

- A. Drill pilot holes (if necessary) in the new window frame.
 - Plan ahead for all holes especially the top. Make sure top pilot hole will not be in the same locations as the weight pulleys.
 - Use a 1/8" drill, and minimum of 3 holes per jamb (Fig. 10).
 - Place holes in center of balancer track 2" from corner weld, and one in center of the check rail. Tilt the bottom sash in or remove it to place the center pilot hole.
- B. Dry fit the window in the opening.
- C. Measure the distance from the bottom of the window to the existing sill. Remove the window from the opening (Fig. 11)
- D. Cut the sill adapter to the correct height. Use a sharp utility knife to score the sill adapter along the groove. Bend and break off the excess sill adapter material and install on window (Fig. 12 - 13). Install head expander (if necessary) at this time.

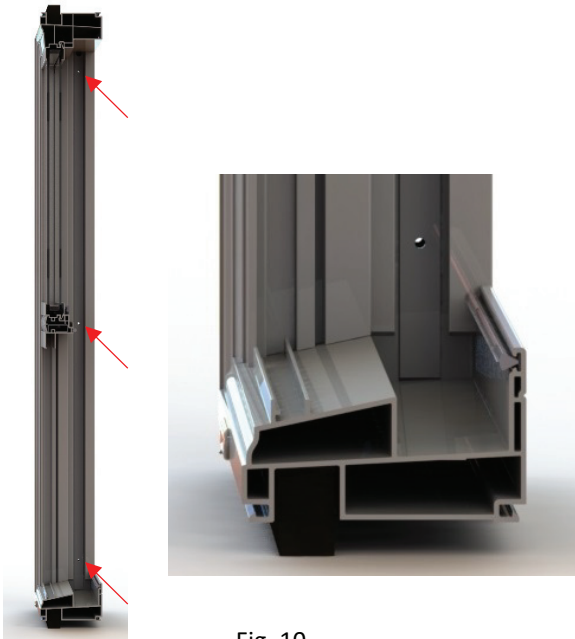


Fig. 10

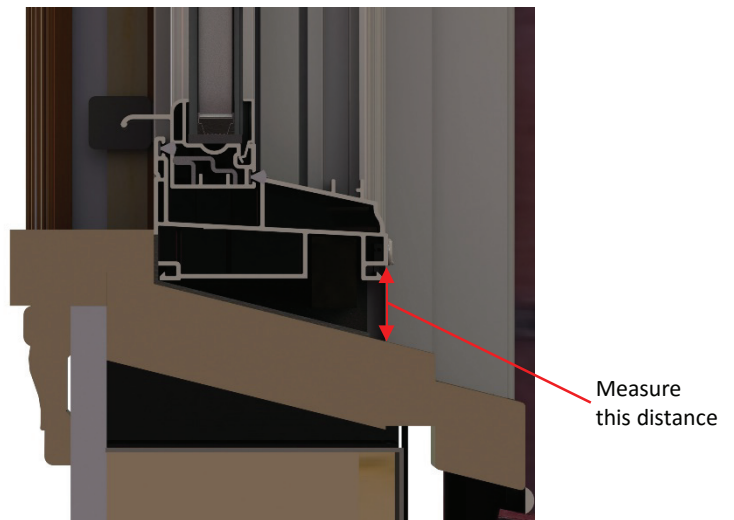


Fig. 11



Fig. 12



Fig. 13

Step 5: Installing the window

- A. Apply a continuous bead of sealant to the interior face of the exterior blind stops at the head and both jambs (Fig. 14).
- B. Place a bead of sealant where the existing stool meets the existing window sill (Fig. 15).
- C. Insert window into the opening. Set the bottom of the window in first and tilt top into place. Make sure the window is centered in opening and press firmly against sealant on blind stops.
- D. Place a shim at each of the pilot hole locations, and insert a screw into one top corner to hold window in place (Fig. 16). Remove sash stop at head of window and replace when screws are tightened.
- E. Check for plumb, level, square and window operation. Make any necessary adjustments to shims and finish installing frame screws (Fig. 17). Raise bottom sash to install bottom screws, and tilt bottom sash in to install center screws.



Fig. 14

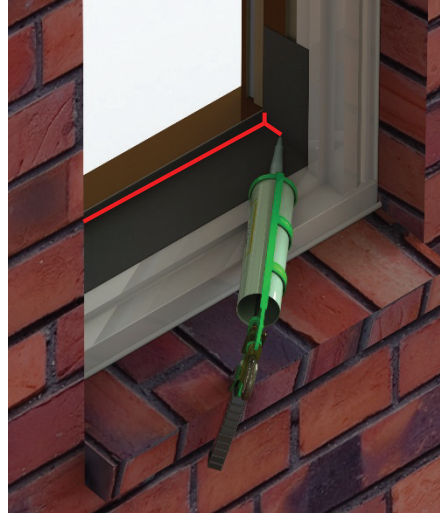


Fig. 15



Fig. 16



Note: When installing all installation screws make sure to tighten screw so the screw head is flush or slightly dimpled in so screw doesn't interfere with balance shoe.



Fig. 17



Step 6: Interior sealant and finish

- A. Insulate between the window frame and the rough opening using minimally expanding window and door spray foam or fiberglass insulation that is compliant with AAMA 812-04. Read and follow the manufacturers' recommendations for application and use (Fig. 18).
- B. Operate window unit to ensure proper operation. Sash will not operate correctly if window is out of square, over-shimmed or over-insulated.
- C. Allow foam to fully cure before installing interior trim.
- D. Install interior stops that were remove earlier or cut new stops (Fig. 19).



Fig. 18

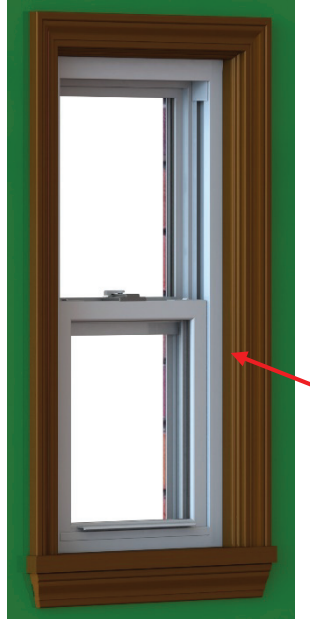


Fig. 19



Fig. 20

Step 7: Sealing the Exterior

- A. If total frame replacement in brick or siding was preformed maintain a minimum of ¼" between the window frame, trim, siding, or masonry. Failure to do so will forfeit all warranties (written or implied).
- B. Apply backer rod (if needed) and a continuous bead of sealant between the window frame and exterior finish material on all four sides of unit. Make sure to clean all surfaces before applying 100% neutral cure silicone sealant (some surfaces may need to be primed so check with sealant supplier) (Fig 20).

Care and Use

An inspection of your windows should be made annually. Visit the Quaker website <http://quakerwindows.com/wp-content/uploads/2013/05/Quaker-Window-Care-Maintenance.pdf> or contact your local independent Quaker distributor for information on the care and use of your product. Ask for the Window Care & Maintenance Guide.