



## Installation Guidelines

### For Aluminum Quaker Window Products with the use of anchors thru the jamb (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 AAMA IPC-08 "Standard Practice for Installation of Windows and Doors in Commercial Buildings" 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:

- **Quaker Window Products will not be held liable or accept responsibility for damage to the glazing beads, window finish, or broken glass, which is a result of this type of installation.**
- 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](http://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 aluminum products into a wood or concrete/masonry wall with the use of anchors thru the jambs. 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](http://www.quakerwindows.com) or call at 1-800-347-0438 for additional literature and information.

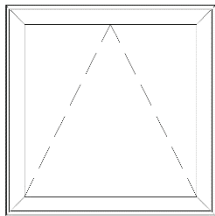
### Tools required by installer:

- Safety Glasses
- Utility knife
- Drill / screwdriver
- Caulk Gun
- Level
- Putty knife
- Tape measure

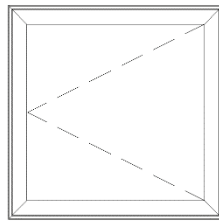


### Materials required by installer:

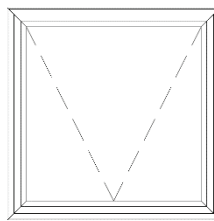
- Insulation
  - Fiberglass or similar strips
  - Minimally expanding low pressure polyurethane window and door spray foam. **(Must be compliant with AAMA 812-04)**
- Shims
  - Made of cedar or synthetic material
- Screws
  - #8 wood screw or masonry screw 2" long (screw size may vary per wall/framing needs)
  - Fasteners must be corrosion resistant and compatible with materials contacted and/or penetrated.
- 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.



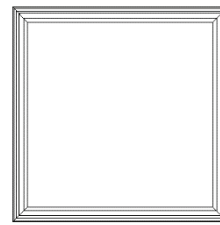
Awning



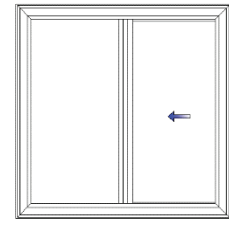
Casement



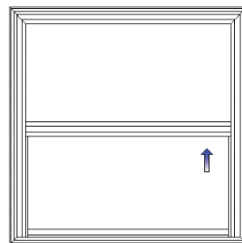
Hopper



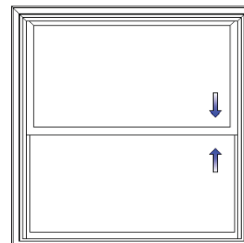
Picture window



Sliding window



Single Hung



Double Hung



### Step 1: Inspect unit before installation

- A. Remove all shipping packaging material (blocks, pads, protectors, stretch wrap) and dispose/recycle properly.
- B. Inspect unit for any damage or defects, and make sure the unit operates properly.
- C. Verify that the window unit is the correct size and configuration.
- D. 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).

### Step 2: Prepare rough opening

- A. The material/lumber quality and fasteners must be structurally adequate for design load requirements.
- B. Measure and verify the size of the rough opening. The rough opening should be a minimum  $\frac{1}{2}$ " (but not to exceed 1") wider and taller than the unit. The masonry opening should be sized  $\frac{1}{2}$ " wider and  $\frac{9}{16}$ " higher than the units exterior frame.
- C. Verify the rough opening is flat, plumb, level, and square. (Fig. 1)
  - Take diagonal measurements to check for square.
  - The sill beneath the unit must be level for proper unit operation.
- D. Check the fit of the unit making sure the conditions are level, the installer can pre-apply the shims to the sill condition prior to installation of the window frame. (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.

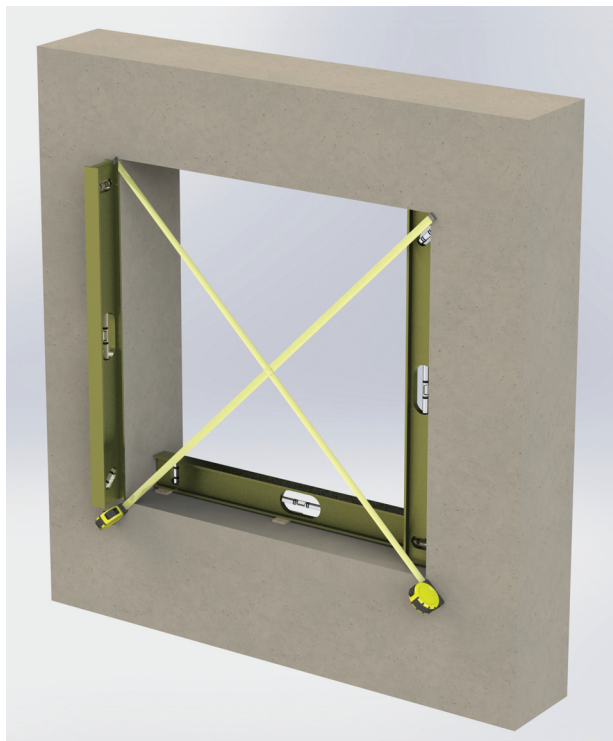


Fig. 1

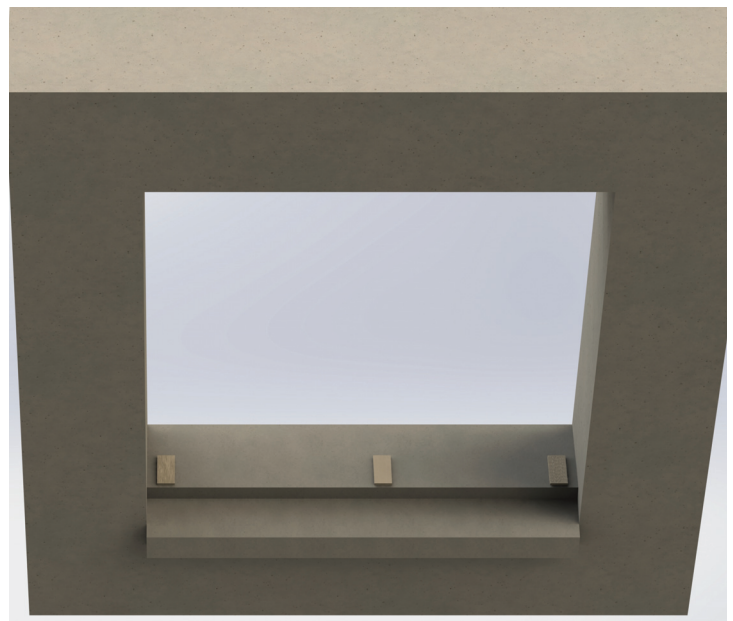


Fig. 2



### Step 3: Window anchor hole preparation

- A. The glazing bead may require removal and reinstallation. Be careful to avoid damaging the glazing beads and finish.
- Slide a putty knife between the glazing bead and frame at the bottom corner and apply pressure as you rotate the putty knife away from the window frame. (Fig. 3)
  - Drill a pilot hole thru the side jamb 4" from each corner and 16" on center. (Fig. 4)



Fig. 3

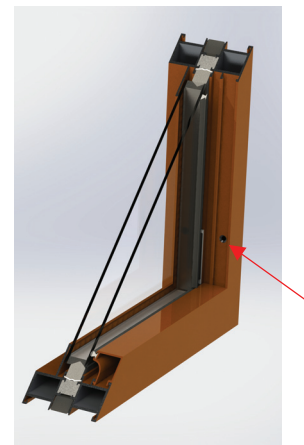


Fig. 4

### Step 3: Window installation

- A. Set the window in place on top of the shims at the sill, and center in opening. (Fig. 5)
- B. Place a level on the window sill to verify that the sill is level. Adjust the shims as needed to ensure a level condition.
- C. Check the head, sill and jambs with a level again to make sure the window is setting plumb, level, and square within the opening. Measure across the diagonals to determine if the window is square. (Fig. 6)
- D. Add shims around the entire window as needed to ensure a plumb, level, and square installation.
- E. Install fasteners as required at the remaining anchor points per shop drawings and or anchorage calculations. (Fig. 7)
- Always follow the fastener/anchor manufacturer's guidelines for proper edge distance, load capacity and installation techniques.
- F. For casement windows, add blocking and anchors at the hinge locations. For sliding windows, add support blocking behind the jamb condition at the locking point.
- G. Check the installed product to ensure that it operates properly and that the reveal is equal between the sash and frame.
- H. Reinstall glazing beads using a shim or rubber mallet to lock them back in place.



Fig. 5

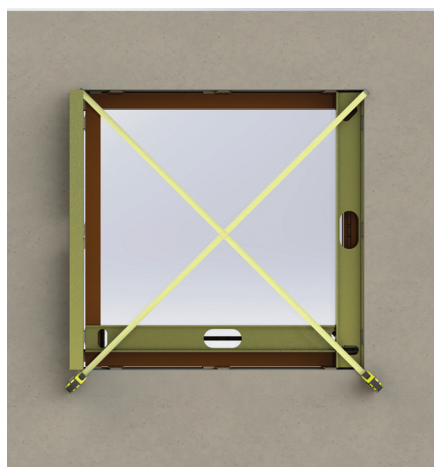


Fig. 6

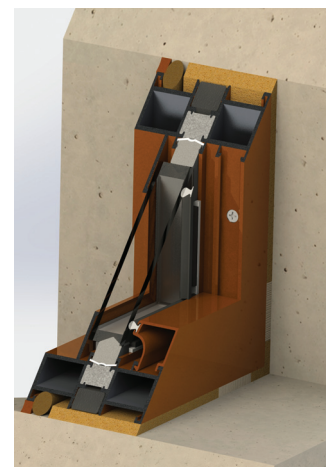


Fig. 7





#### Step 4: Perimeter sealant and finish

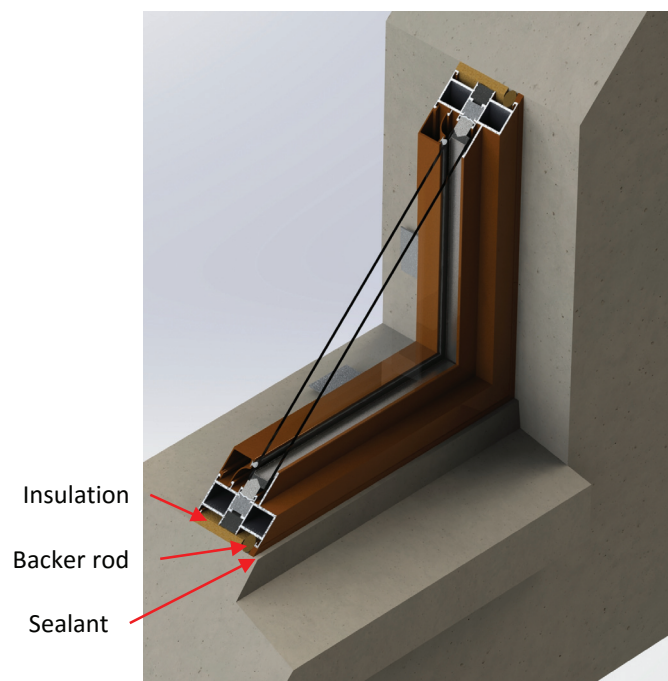
- A. If total frame replacement in brick or siding was preformed maintain a minimum of  $\frac{1}{4}$ " between the window frame, trim, siding, or masonry. Failure to do so will forfeit all warranties (written or implied).
- B. Apply backer rod (if needed) and a continuous bead of sealant between the 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. 8)
- C. 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. 9)
- D. Operate window unit to ensure proper operation. Sash will not operate correctly if window is out of square, over-shimmed or over-insulated.
- E. Allow foam to fully cure before installing interior trim.
- F. Install interior finish trim.



Fig. 8



Fig. 9





### 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.