Installation Guidelines for all Quaker products with nail fins
New construction nail fin installation with a drainable weather resistant barrier.

Read these instructions completely before starting any installation. Failure to install and maintain our product according to these instructions may void any product warranty. Please visit our website at www.quakerwindows.com or call 1-800-347-0438 for additional information.

Tools required by installer:

Safety glasses		Utility knife	
Drill/Driver		Caulk gun	
Level		Tape measure	
Hammer		J-roller	
Putty Knife		Staple Gun	

Materials required by installer:

Foam Backer Rod		Minimally Expanding Foam	
Shims (Waterproof)		Sealant	
Flashing tape (Self-Adhering)		Water Resistive Barrier/House Wrap (WRB)	
Fasteners		Denatured Rubbing Alcohol	
		Drip Cap	

⚠ WARNING

Tools
- Follow manufacturers instructions for safe operation of tools, and ladders/scaffolding. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

Handling
- Do not store units outside, or in a hot or cold environment. Doing so could result in product damage.
- **Do not carry flat.** Doing so could result in product damage, injury, or property damage.
- Stack units as straight as possible to avoid bowing. **Do not lay flat!**

Glass
- 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 safety glass is ordered, Quaker windows are not provided with safety glass. Before ordering, consult your local building codes for more definitive information.

Fastening
- Metal fasteners and components could corrode when used with preservative-treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.
- Fastener must attach to a structural framing member with 1 1/2" minimum fastener embedment, or minimum 3 full threads with a minimum 5/16" head as products were tested with.
- *Quaker does not supply anchorage/fastener calculations, and is not responsible for determining structural adequacy of the anchorage and fasteners used to install our products, or the openings into which they are installed.*
- **Do not** over drive screws or nails. Doing so could result in product damage.

⚠ CAUTION

Installation
- Always support window or door in opening until fully fastened. Failure to do so could result in the window or door falling out or causing injury, product, or property damage.
- 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 with material compatible sealant for protection against water and air infiltration around the entire perimeter. Failure to do so could result in product or property damage.
- **Do not** set window directly on sill plate. Place shims under the side jambs. Window or door must be properly shimmed. Failure to do so could affect operation and product performance and could result in product damage.
- Live or dead loads transferred into our product can affect functionality, damage frame joinery or cause glass failures. Dead loads such as upper levels, roof, etc. Should be constructed before window or door is installed.
- Loads shall be designed to withstand the most critical effects of load factors and load combinations as required by the building code. (Loads are including but not limited to Live, Dead, Collateral, Auxiliary, Thermally induced, Seismic, etc.)
- Maximum vertical deflection of the header under all Load combination should not exceed the Span/720 or 1/8" whichever is less.
- Windows and doors have small parts. Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.
- **Do not** drill through or into window sill to install alarm wires.

Sealing
- Follow instructions of foam, sealant, and flashing manufacturers regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their products. Failure to do so could result in product or property damage. **DO NOT** overfill between the frame and opening.
- Minimally expanding foam insulation must be compliant with AAMA 812-04.
- Quaker recommends 100% silicone (ASTM C920 compliant) neutral cure only sealant. Always clean all areas where sealant will be applied. Failure to do so could result in product or property damage.
- Flashing tape must meet ASTM-D779 performance requirements.
- Maintain a minimum of 1/4" between the window or door frame and exterior finish materials. Failure to do so could result in product or property damage.

Joining
- Do not join any window or door to any window or door not designed for joining. Joined windows and doors must be individually supported in the opening. Failure to do so could affect operation and product performance and could result in product or property damage.
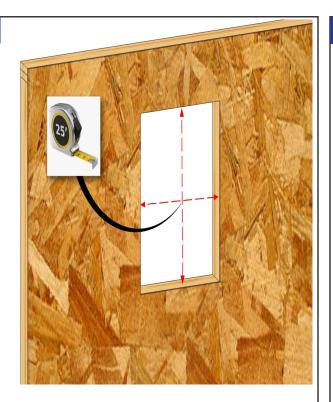
Cleaning
- Acid solutions used for cleaning will damage glass, fasteners, hardware, and metal flashing. Protect these products and follow cleaning products manufacturers instructions. If acid contacts the window or door, wash all surfaces immediately with clean water.
- **Do not** use razor blades to clean glass surface. Glass damage could result.
- Clean glass using liquid glass cleaner.
- Clean frame, sash, panels, and insect screens using mild detergent and warm water with a soft cloth or brush.
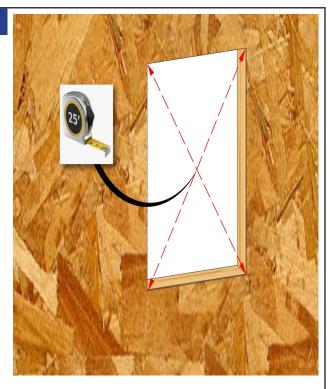
IMPORTANT

- Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: **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.
- These are generic instructions intended to cover most common situations, which may not be appropriate 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.
- Inspect all units for any damage or defects prior to installation. Contact the nearest Quaker distributor if there are any problems.
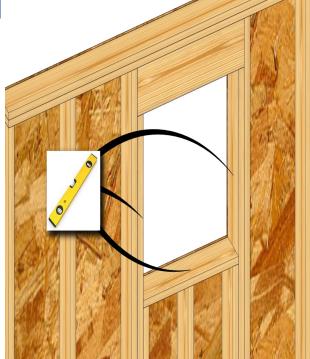
1

Measure and verify the opening is sized correctly. The rough opening should be a minimum 1/2" (but not to exceed 1") wider and taller than the unit. Allow additional space for flashing thickness, installation clips, joining components, and their fasteners.
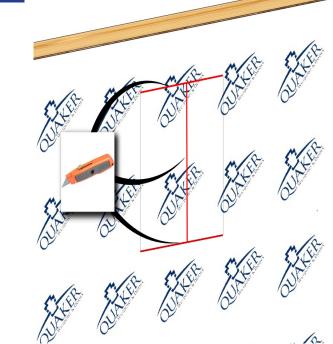
2

Check that the opening is square. The diagonal measurements need to be within 1/8" of each other.
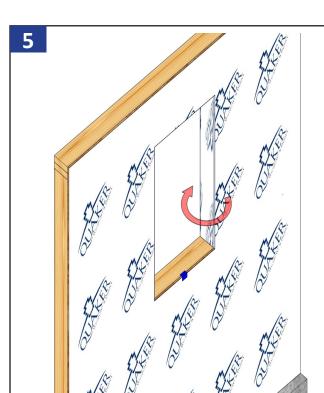
3

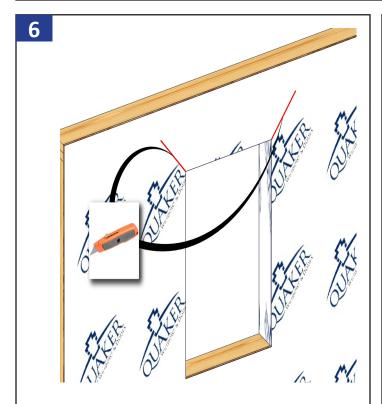Verify the rough opening is plumb and level. The sill plate beneath the unit must be level for proper unit operation.

4

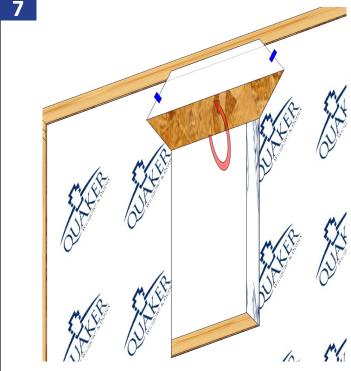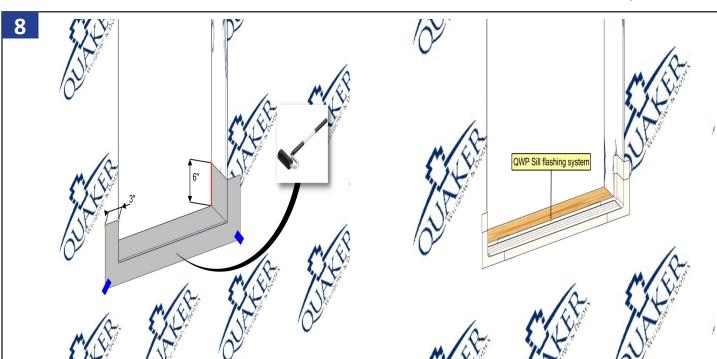Apply the house wrap according to the manufacturer's instructions and cut opening I-pattern as shown.

5

Fold the house wrap to the interior and staple it to the interior framing. Tape the house wrap at the bottom of the opening as shown.
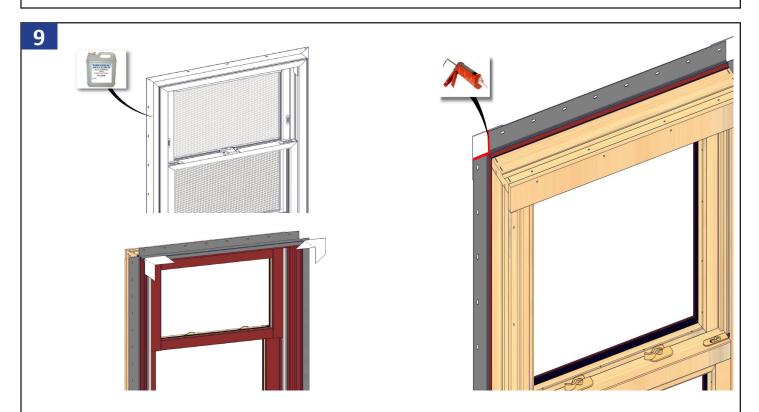
6

Cut the house wrap to create a top flap as shown. Cut the angles at 45 degrees and 1" longer than the width of flashing tape being used.
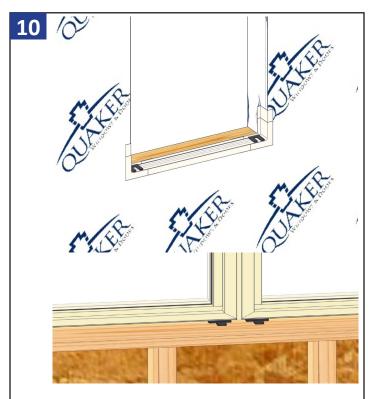
7

Fold the house wrap flap up and temporarily tape it in place.

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8

QWP Sill flashing system

Apply flashing at the bottom of the opening as shown. If using QWP sill flashing system see separate installation guide. If using a flashing by others make sure there are no wrinkles or voids in flashing during application and overlapping. Failure to do so could result in product or property damage.
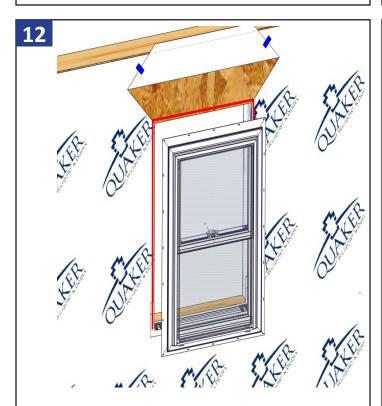
9

Clean the installation flange on both sides using soap and water, or a non-abrasive solvent free cleaner. If installation flange have a gap in the corners a foam corner gasket will need to be installed at each corner as shown above.
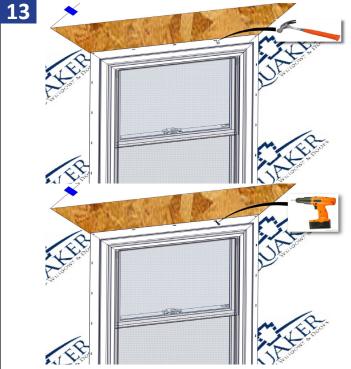
10

Place shims on the bottom of the opening under each side jamb locations insert 1/4" from each side. If installing a mulled unit make sure to shim at all mull locations as shown above.

11

Apply a continuous 3/8"sealant bead at the sides and the top of the opening, no more than 1/2" from edge of opening as shown. **Sealant needs to line up nail hole slots**. If using QWP sill pan flashing system apply a continuous 3/8" sealant bead to the inside up turned leg for the window to set against when installed.

12

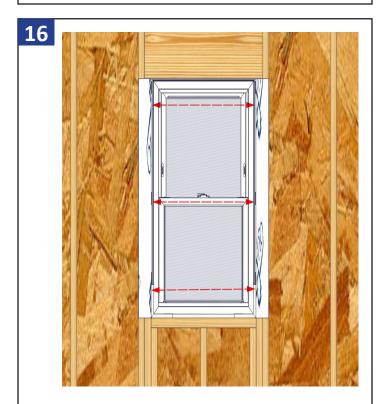Center the window in the opening, setting the window on the shims. Make sure shims are positioned under each side jamb.

13

Temporarily fasten with a single fastener at the top as shown.

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14

Shim at the sides of the window, and at the check rail locations. Never shim at the head.
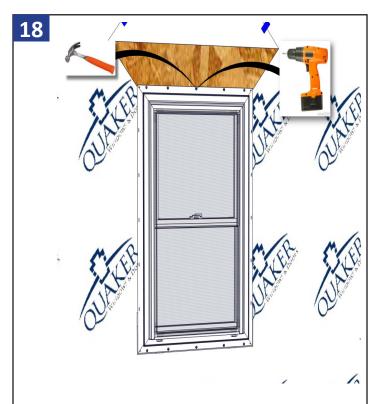
15

Check that the window is square. Adjust shims as needed until diagonal measurements are within 1/8".

16

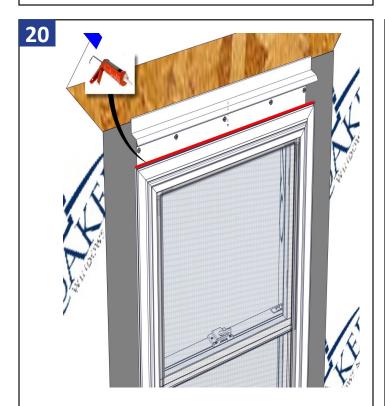Check that the window is not bowed. Adjust shims as needed until measurements are within 1/8".

17

Check that the frame is plumb and level. Adjust shims as needed.

18

Finish fastening the unit using every hole or a minium of 12" on center.

19

2"

Apply flashing tape at the sides of the window, overlapping sill flashing as shown. Smooth using a J-roller. Extend tape a minimum of 2" pass window frame.

20

Apply a 3/8" sealant bead to the top exterior edge of window frame before installing the drip cap as shown.

21

Place the drip cap the full width in sealant as shown.

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22

Apply flashing over the drip cap leg, overlapping the side flashing as shown. Smooth using a J-roller.
⚠ Side flashing cannot extend above the top flashing. Doing so could result in product or property damage.

23

Unfold the house wrap top flap and tape the angled seams as shown.

24

Apply sealant continuously around entire perimeter of opening, filling interior 1/3 of cavity using low expanding foam or backer rod and sealant.

Installation is complete.

Installation Guidelines
For All Quaker Products With Installation Nail Fins Attached into a drainable wall system

If this set of instructions doesn't match your installation method or wall conditions please check our website listed below for other options, or call the office.

Scan here for a digital version of these guidelines in English	Scan here for a digital version of these guidelines in Spanish
Or go to: http://quakerwindows.com/installation-instructions-videos/	Or go to: http://quakerwindows.com/installation-instructions-spanish/