



Installation Guidelines

For Brighton wood products 2" & 4" spread mullion (Double Hung, Fixed Window, Casement, and Awning)

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.
- 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 mulling Quaker's wood products using a 2" or 4" mull system. 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



- Hearing protection



- Rubber mallet



- Caulk Gun



- Tape measure



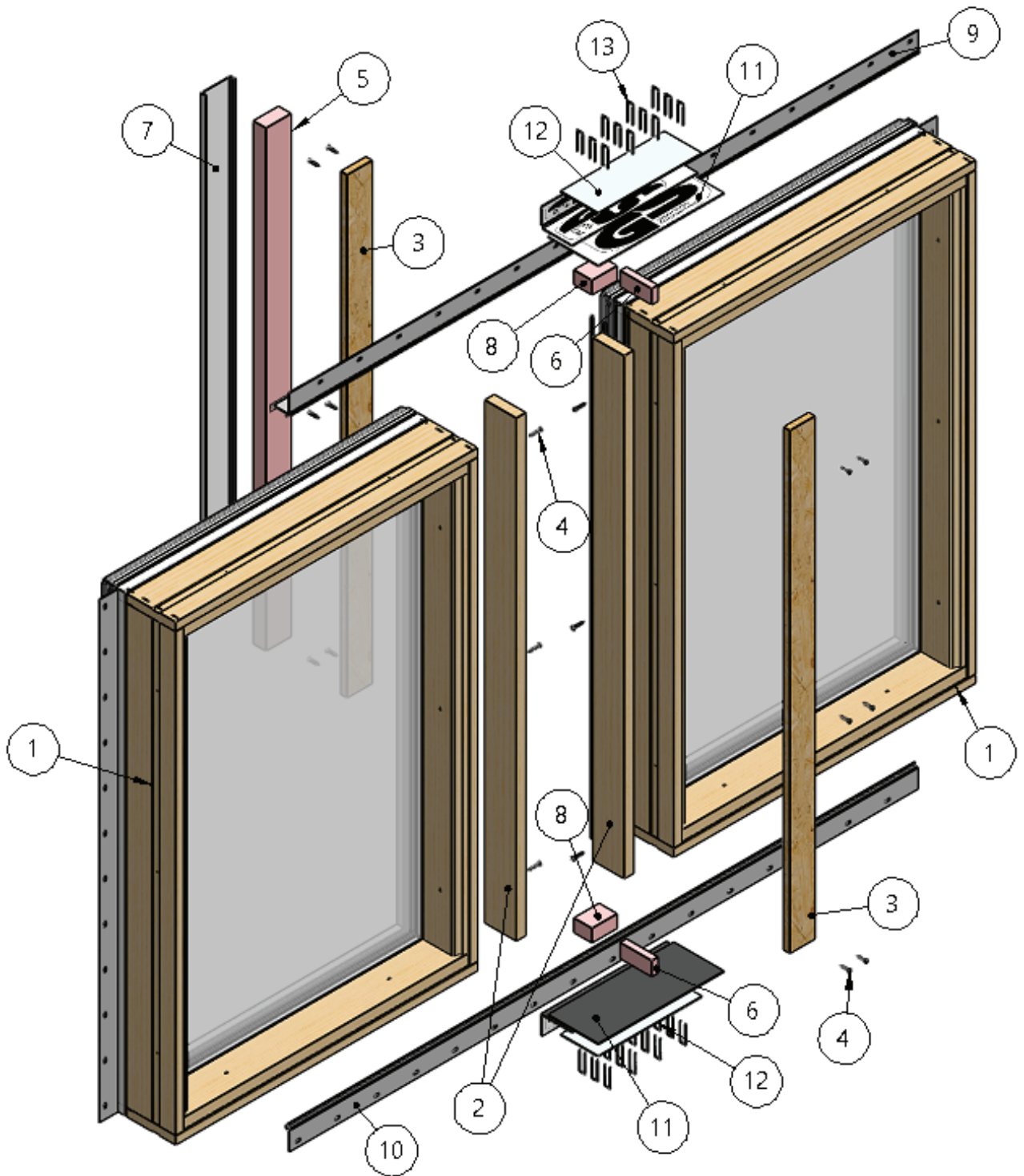
- Screw driver or drill














Materials required by installer:

- Screws
 - #6 or #8 drywall or wood screws of correct length. 1 1/4" max for 1x3, 2" for 2x4 blocking.
- Silicone Sealant
 - 100% silicone ASTM C920 compliant
 - Neutral cure (modified oxime) only
 - Some sub-states made need to be primed before sealed. Consult the sealant supplier.

Required parts needed



Parts Identification List

Image	Item No.	Description	Color / Finish / Size	QWP Part #
	1	Windows to be mulled		
	2	1x3 wood strip (2" mull) 2x4 wood strip (4" mull)	cut to the full length of the window unit	
	3	1/2" x 2" (or 4") plywood	cut to the full length of the window unit	
	4	#6 or # 8 wood screws	1 1/4" max length for 1x3 (2" mull) 2" max for (4" mull)	
	5	1"x2" (or 4") Rigid foam insulation board	cut to the full length of the window unit	
	6	1/2" (or 1") x 1"x 2 1/2" Rigid foam insulation plug between 1x3 strips.	One for each end	
	7	2" or 4" Mull key	cut to the full length of the window unit	2" M16589 4" M16658
	8	2" (or 4") x 1" Rigid foam insulation plug between mull key and 1x3 strips.	One for each end	
	9	Head nail fin	Cut the full length of mulled unit	PP1488
	10	Sill nail fin	Cut the full length of mulled unit	PP1249
	11	4" flashing tape	4 pcs. cut to 10"	
	12	Mending plate	3" x 8 1/4" x .062	



Step 1: Preparation

- Remove any shipping packaging, or factory applied bracing. Make sure the unit is not damaged and the dimensions are appropriate for the rough opening. Check to see that your units mullled together will fit your rough opening by adding the total width or height of each unit plus 2" or 4" for the mull key.

Step 2: Remove nail fins

- Lay the units down on a drop cloth or cardboard in the order they are to be mullled with exterior side down. (Fig. 1)
- Pull off the head, sill, and jamb nail fins from each unit where the mull will connect them.
- Cut a notch in the exterior clad accessory channels in the head and sill to allow for mull key to set flush. If not already done from the factory (Fig. 2)

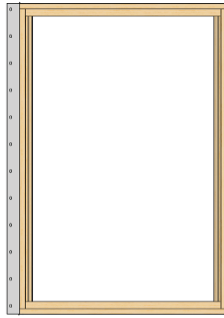


Fig. 1

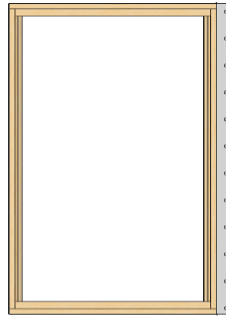


Fig. 2

Step 3: Install mull framing

- Install a 1x3 (for 2" mull) or 2x4 (for 4" mull) to each side of window frame to be mullled. Install the 1x3 or 2x4 1/2" off the inside face of window to allow for plywood cap using wood screws. (Fig. 3 & 4)

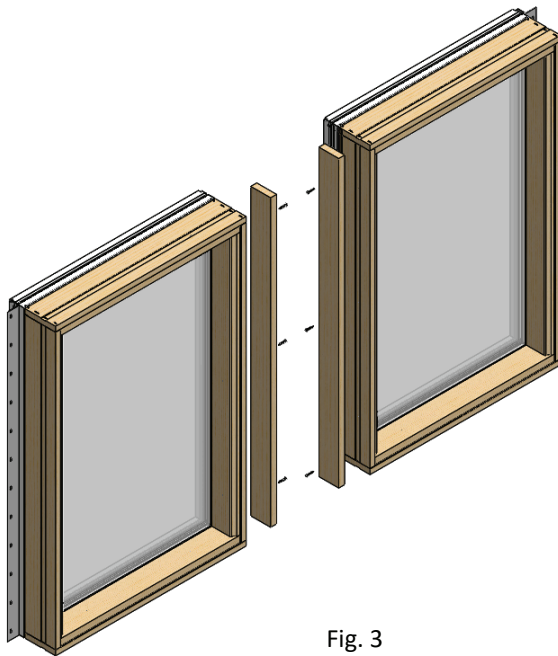


Fig. 3



Fig. 4

Step 4: Exterior mull installation

- Move the window units together with a 2" (for 2" mull) or 4" (for 4" mull) gap to allow for plywood caps. Exterior side up. (Fig. 5)
- Install the exterior side plywood cap using 1 ¼" screw with max spacing of 10". (Fig. 6)
- Place a bead of silicone sealant along both edges of plywood where it meets the window. (Fig. 7)
- Install foam installation board over plywood and place a bead of silicon along the edges. (Fig. 8)
- Slide the mull key in from one end. (Fig. 9)
- Fill gap between mull key and foam insulation with another piece of foam insulation. (Fig. 10)

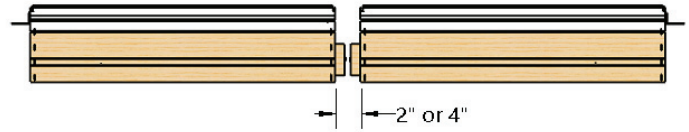


Fig. 5



Fig. 6

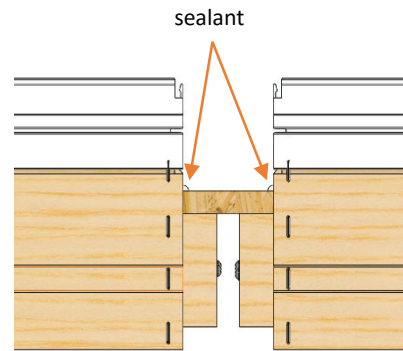


Fig. 7

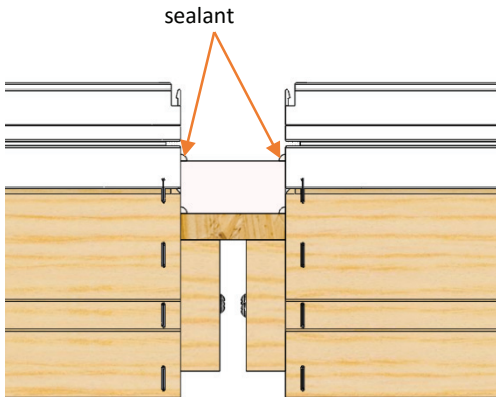


Fig. 8

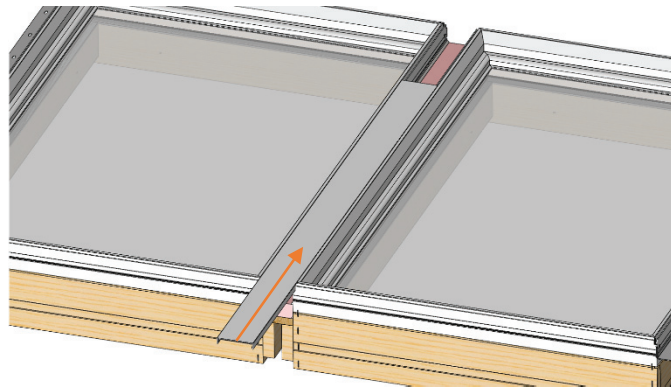


Fig. 9

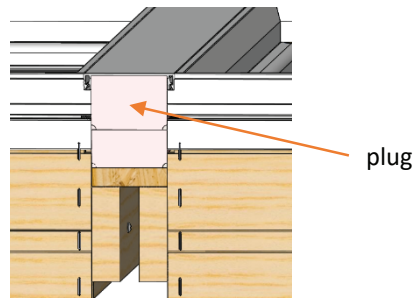
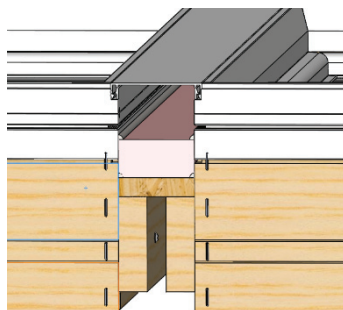


Fig. 10

Step 5: Interior mull installation

- Flip the units over and install the 2nd plywood cap using 1 ¼" screw with max spacing of 10". (Fig. 11)
- Insert another foam insulation piece to fill the gap between the two 1x3's or 2x4's. (Fig. 12)
- Fill all gaps in mull system with silicone sealant on both ends of the mull. (Fig. 13)
- Install new full length head and sill nail fins. (Fig. 14)

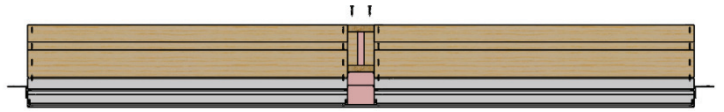
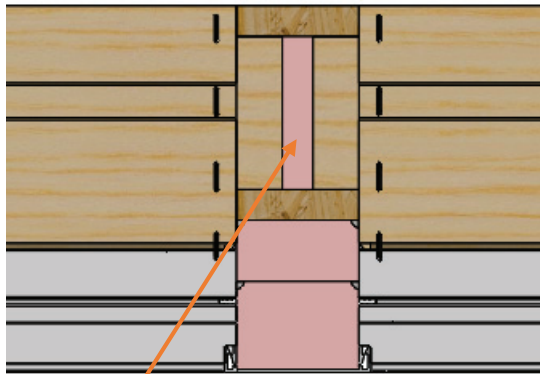


Fig. 11



Plug

Fig. 12

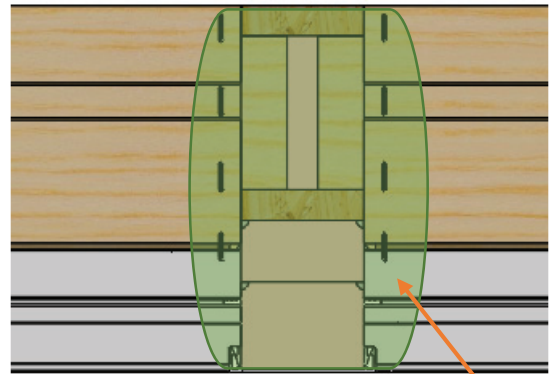


Fig. 13

Silicone sealant

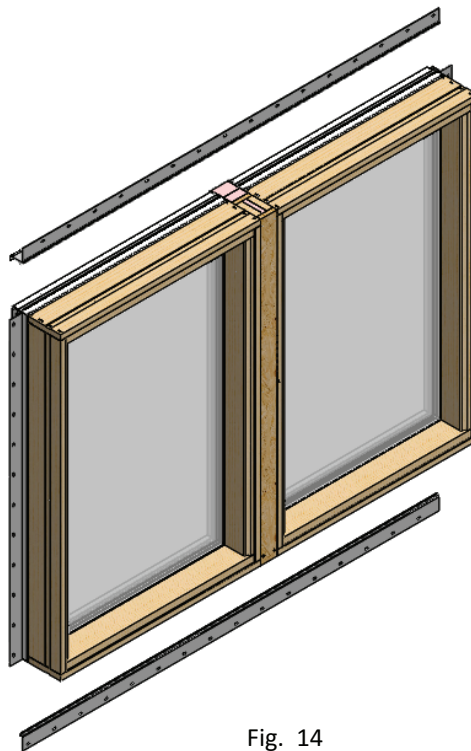


Fig. 14

Step 6: Flashing & mending plate

- Install one 4" flashing tape flush with interior face of window over the head mull gap. (Fig. 15)
- Install another 4" flashing tape over lapping the other flashing tape and up the backside of nail fin. (Fig. 16)
- Install mending plate centered over mull gap and staple or screw into place. (**Do not use fasteners longer than ¾"**) (Fig. 17)
- Repeat the last three steps for the other side of mull to finish. (Fig. 18)

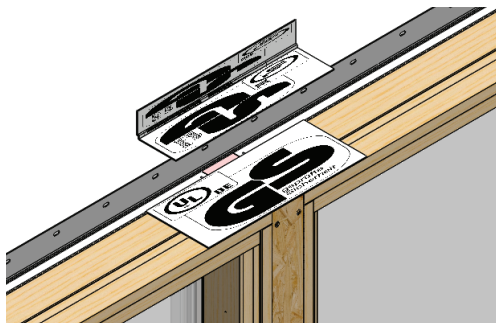


Fig. 15



Fig. 16

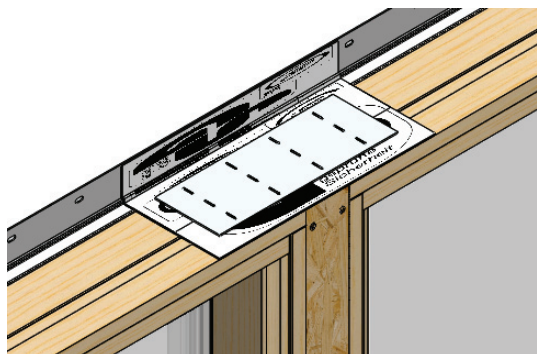


Fig. 17

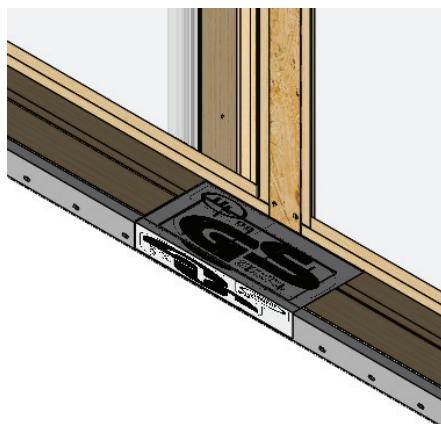


Fig. 18



Note:

- If there are horizontal and vertical mulls on the application, make sure that the joint where the two mulls meet is back bedded with a generous amount of sealant before sliding mull cap into place. (Fig. 19)

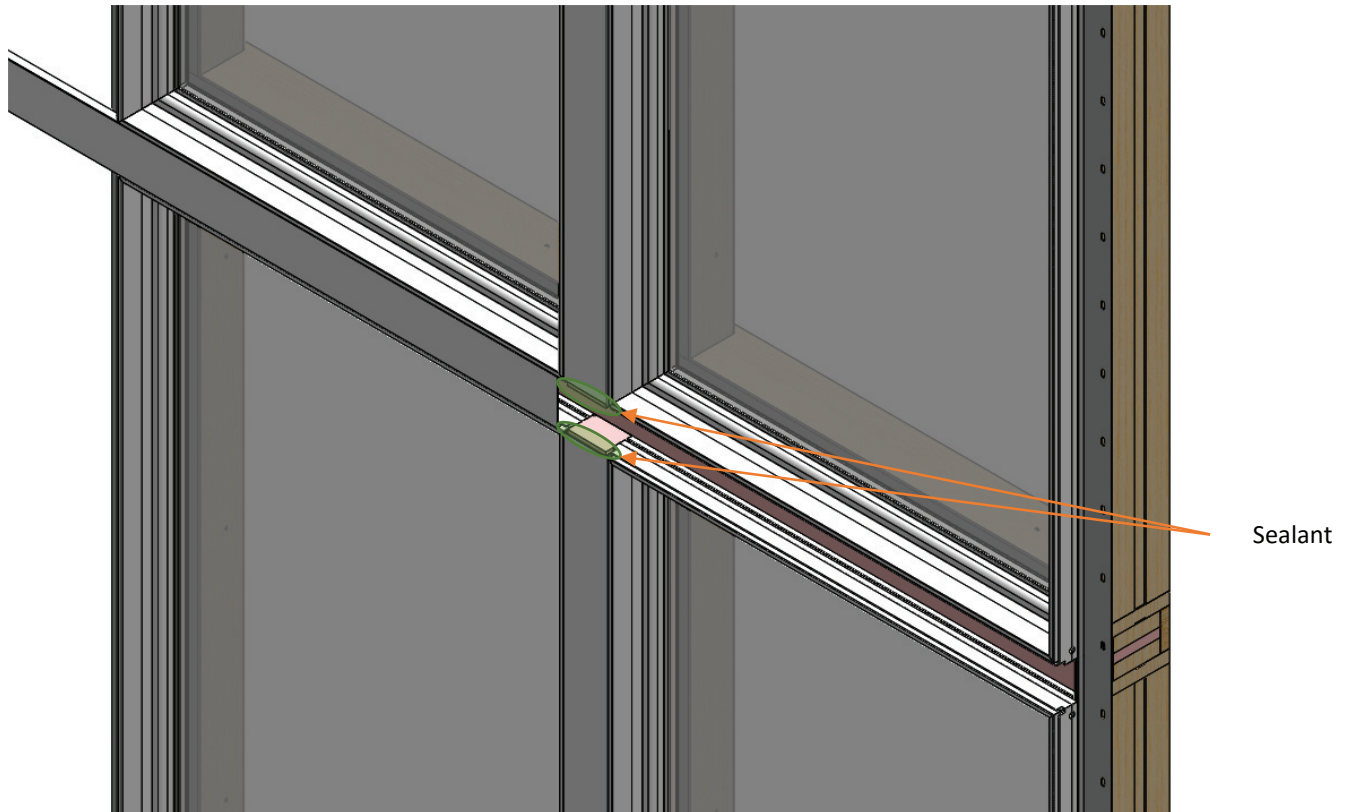


Fig. 19

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.