



THRUVUE™ INFINITY SERIES

GAS STRUT PASS-THROUGH WINDOW

INSTALLATION INSTRUCTIONS

WELCOME

THRUVUE™ INFINITY GAS STRUT WINDOW

Thank you for choosing OPTVUE. This guide walks a qualified installer through setting the THRUVUE™ INFINITY gas strut pass-through window in a new-construction opening (1½" rigid nail flange) or an existing opening (retrofit frame), and explains how the sill you ordered affects the installation.

HOW TO USE THIS GUIDE

- Read the entire guide, front to back, before starting.
- Identify your frame type and sill number from your order and shop drawings, then follow only the section for that frame type.
- Unless a figure is marked **Interior view**, every figure is drawn from the exterior.
- Sealants, tapes and membranes must be compatible with each other and with the building's weather-resistive barrier (WRB). Follow each manufacturer's instructions.
- Integration with the building envelope (flashing and WRB) is the responsibility of the installer and builder. Refer to the current editions of AAMA 2400, ASTM E2112 and the AAMA InstallationMasters™ manual.

YOUR ORDER DOCUMENTS

Keep these with this guide during installation:

- ☐ Order confirmation (sizes, frame type, sill number, color, glass)
- ☐ Shop drawing & components sheet
- ☐ Unit elevation / divided lite layout
- ☐ Typical section and plan view details
- ☐ Gas strut reach-height sheet (open position)
- ☐ Water exposure warning (no sill / drainage channel orders)

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IMPORTANT SAFETY INFORMATION



WARNING

Risk of serious injury if the warning is ignored.



CAUTION

Risk of injury or damage if the precaution is not taken.



NOTE

Information that matters to a correct installation.

Read these instructions completely before beginning the installation.

STORAGE & TRANSPORT

Store the window indoors or under cover, off the ground, in a clean and dry location. Wet packaging can stain or damage finishes; replace wet packaging with dry material right away. Transport and store units upright on their edge as packed, supported along the full length of the sill. Never drop, drag or slide units off the delivery vehicle. Damage caused by improper handling, transport or storage may limit warranty remedies.

REMOVAL OF EXISTING WINDOWS

Remove old windows and doors carefully and dispose of them properly. Glass and frames can often be recycled or donated – contact your local recycling agency or a building-materials reuse organization (for example a Habitat for Humanity ReStore) to find a facility near you.

Protect the surrounding finishes and the work area while removing the existing unit, and inspect the opening for water damage, rot or insect damage before continuing.



WARNING

Homes built before 1978 may contain lead-based paint. Disturbing it can create hazardous dust. Follow the U.S. EPA Renovation, Repair and Painting rule; information is available at www.epa.gov/lead.

INSTALLER QUALIFICATIONS

This is not a do-it-yourself product. Install only with experienced and qualified installers who hold any license required in your area. Failure to follow these instructions and the applicable industry standards may affect coverage under OPTVUE's limited warranty.

SAFETY & HANDLING

- Read and understand all OPTVUE instructions and drawings before starting. Follow AAMA 2400 / ASTM E2112 practice for flashing and integration.
- The window is a finished product. Protect the glass, frame finish, gas struts and hardware before, during and after installation.
- Inspect the window and all component parts on delivery. Report damage or missing parts to OPTVUE within 48 hours of delivery and before installing.
- Keep the sash closed and secured while lifting and setting the unit. An unsupported sash can swing open under strut pressure.
- Use care when working at height on ladders or scaffolding.
- The installing contractor is responsible for job-site safety practices and for compliance with all applicable regulations.
- Never lift alone. Use enough people – and suction cups or lifting equipment where needed – to lift, carry and set the unit safely. Unit weights are listed on your order documents. Over 40 sq ft of daylight glass: rigging and straps or a bottom lift (page 06).
- Handle glass with care. Broken or chipped glass can cause serious injury.
- Wear safety glasses, cut-resistant gloves and hearing protection.
- Operate hand and power tools according to their manufacturer's instructions.



WARNING – GAS STRUTS

Gas struts are pressurized. Do not puncture, heat, bend or disassemble them, and do not use a strut as a lifting handle. Keep hands and fingers clear of the hinge and the sash edge when the sash is moving.

Servicing, removing or replacing struts: the sash must be fully open and securely supported before any strut is disconnected. Never remove or install a strut with the sash closed – a strut cannot be compressed by hand, and the force it releases can cause serious personal injury and damage the window. The strut covers must be removed first to reach the struts – see **Servicing the Gas Struts**, page 23.

COMPONENTS

Components supplied vary with the frame type, sill and options ordered. Unpack and lay out all parts before starting so the crew is familiar with them, and confirm everything listed on the order has been delivered. Do not install a damaged unit.



NOTE

Large units may ship with the glass installed separately (field glazed). Use a qualified glazing contractor where field glazing is required.

INSTALLATION PREPARATION

Review this guide and all drawings supplied with your order before starting. Failure to follow these instructions, local codes and good building practice may result in poor operation, air and water leakage, or failure of the window, and may void OPTVUE's limited warranty. Provide a copy of these instructions and OPTVUE's limited warranty to the building owner.

Questions? Call OPTVUE at (760) 760-0110 before you begin.



NOTE

The rough opening must be weatherproofed and flashed in accordance with AAMA 2400, ASTM E2112 and the flashing and sealant manufacturers' instructions, and must meet local building codes.

LIFTING & PRE-INSTALLATION INSPECTION

CRITICAL · READ BEFORE HANDLING THE WINDOW



CRITICAL – UNITS OVER 40 SQ FT OF DAYLIGHT GLASS

If the daylight glass area exceeds **40 square feet**, the unit must be lifted with **rigging and strapping**, or **bottom lifted** with a Genie® lift or forklift-type lifting device under the temporary sill or underneath the window. Do not lift it with glass suction cups.

RIGGING & STRAPS



RIGHT Rigging and straps around the frame, with equipment rated for the unit weight.

BOTTOM LIFT



RIGHT Bottom lift with a Genie® lift or forklift-type device under the temporary sill or underneath the window.

NO GLASS SUCTION CUPS



WRONG Glass suction cups – never on units over 40 sq ft of daylight glass.

INSPECT BEFORE INSTALLING

- Thoroughly inspect every window **at ground level, before installation** – frame, finish, sash, glass, hardware and weatherstripping.
- If any defect is found in the frame or the glass, **stop immediately and do not install the window**. Contact OPTVUE at (760) 760-0110 for a remedy before installation.



INSTALLED WINDOWS

Once a window is installed in its fixed, final position, OPTVUE is not responsible for any expense to replace parts or the window for defects noticed after installation.

GROUND-LEVEL INSPECTION CHECKLIST

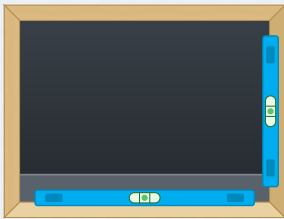
- | | |
|---|--|
| ☐ Glass: no cracks, chips, scratches or edge damage | ☐ Hinge, hardware and weatherstripping in place and undamaged |
| ☐ Insulated glass: no fogging or broken seals | ☐ All parts on the order delivered |
| ☐ Frame and sash: no dents, bends or damaged corners | ☐ Size, sill and color match the order and shop drawings |
| ☐ Finish: no scratches or damage to the paint | ☐ Any defect found: stop, photograph it and call OPTVUE |

REQUIREMENTS FOR A SUCCESSFUL INSTALL

The opening must be ready before the window arrives on site. These instructions are minimum requirements; building codes and industry standards may require more.

SILL LEVEL - JAMBS PLUMB

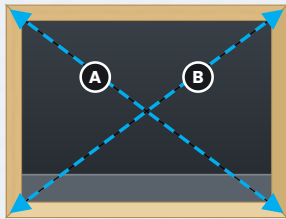




LEVEL & PLUMB The sill must be flat and level and the jambs plumb over their full length. On countertop sills (#1, #2, #3, #7, #8) the finished countertop is the sill and must be level.

$A = B \pm 1/8"$





SQUARE Diagonal measurements must match within $1/8"$. Correct the framing before installing – do not force the window to fit.



CRITICAL – COUNTERTOP SILLS #1, #2, #3, #7 & #8

The window sits directly on the finished countertop and is set flat to it, not shimmed to level. OPTVUE recommends installing the countertop first. For step sills (#3 & #8, step countertop by others), install the lower counter first. The window is then set onto it. The countertop must be level before the window is installed. See page 19.



MANPOWER

Plan for at least two people to set every unit, and more for large units. Check the unit weight on your order documents.



WEATHER PROTECTION

Install with overhead protection from wind and rain. Do not leave an opening or an unflashed window exposed to weather. A waterproofing consultant is recommended for exposed or high-risk locations.



EXISTING STRUCTURES

Removing an existing window can disturb paint and finishes. Additional work-site precautions may be required – see www.epa.gov/lead and follow all federal, state and local requirements.



DISPOSAL

Materials removed from an existing structure, and some installation materials, may have special disposal or recycling requirements. Follow all federal, state and local requirements.

MATERIALS & TOOLS

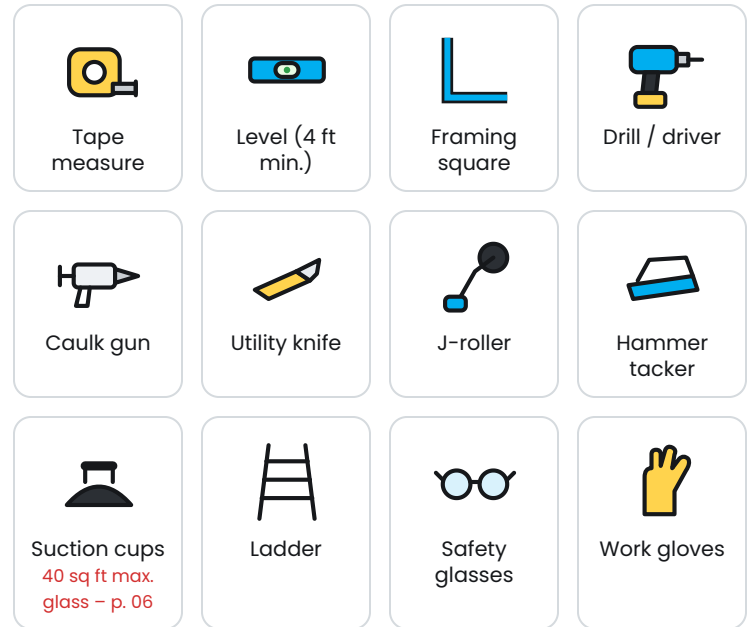
The items below are general recommendations. Additional or different items may be required by the installation type and by local codes.

MATERIALS

- ☐ Non-compressible shims (composite or hardwood)
- ☐ Fasteners – see the fastener schedule below
- ☐ Sill pan (membrane or pre-formed) – **required for windows with a sill**
- ☐ Self-adhered flashing tape, AAMA 711 compliant, at least 4" wide (or as required by code)
- ☐ Seam tape for the weather-resistive barrier
- ☐ High-quality exterior sealant, compatible with the WRB and the flashing types used
- ☐ Closed-cell backer rod
- ☐ Low-expansion, low-pressure window & door foam, or batt insulation
- ☐ Drip cap / head flashing (new construction)
- ☐ Drill bits for retrofit pilot holes: ¼" and ⅝"

Other materials may be needed to integrate with the WRB and wall cladding. Follow those manufacturers' instructions.

TOOLS



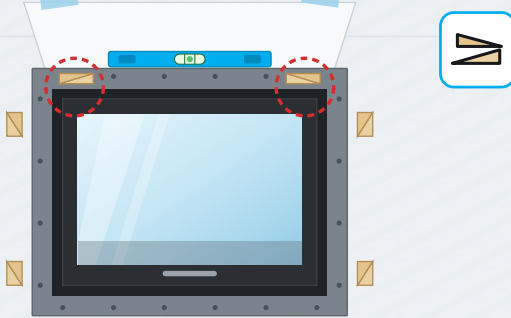
FASTENER & ROUGH OPENING SCHEDULE

INSTALL METHOD	FASTENER (SIZE & TYPE)	A – FIRST FASTENER FROM CORNER	B – SPACING (ON CENTER)	PILOT / DRILL
1½" rigid nail flange	GRK Low Profile Cabinet Screw, 1½" long minimum (longer if desired)	1½"	4" on center	None – flange is pre-drilled; a screw in every hole
Retrofit frame All sides: top jamb, side jambs, and sill if the window has one (sill: interior side only)	#12 flat head Deckmate® screw, 2½" to 3½" long	4"	8" on center	¼" through the top (hinge) jamb from the exterior; ⅝" through the side (slot) jambs from the interior, behind the strut covers
Rough opening Matches your shop drawings	Width: unit width + ½", framing to framing. Height – windows with a sill (#4, #4.1, #5, #6): unit height + ½", framing to framing. Height – flush or step countertop (#1, #2, #3, #7, #8): unit height + ½", measured from the finished countertop to the header.			

CHOOSE YOUR INSTALL METHOD

Confirm that the unit size, frame type and sill number match your order and that the rough opening is the correct size. Then follow the section for your frame type.

1½" RIGID NAIL FLANGE
NEW CONSTRUCTION

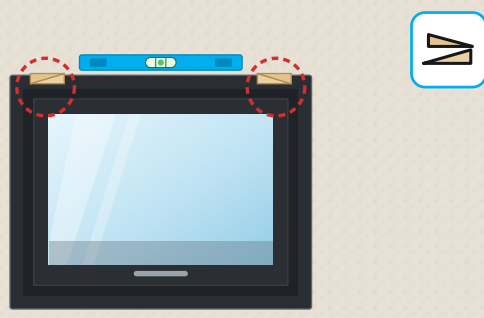


Rigid shims at both upper corners to the header · shim the jambs

An integral rigid flange on all four sides fastens to the face of the framing and laps into the flashing and WRB. Used in new walls, or where the cladding is removed around the opening.

[Go to page 10](#)

RETROFIT FRAME
EXISTING OPENING



Rigid shims at both upper corners · shim at every fastener

A retrofit trim leg covers the edge of the existing finish so the window can be installed without removing the stucco or siding. It installs the same way as a block frame – fastened through the jambs – plus a continuous sealant bead behind the retrofit flange to the existing structure.

[Go to page 14](#)



BLOCK FRAME

Block frame (no flange) units install the same way as the retrofit frame (page 14), except there is no flange to seal behind – skip Fig 5. Use the #4.1 block frame full bound sill where ordered.

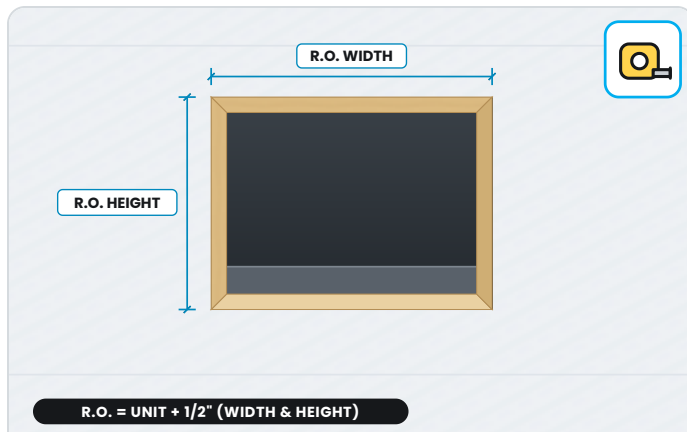
YOUR SILL

Every OPTVUE pass-through window is built with one of eight sill options. The sill determines how the countertop meets the window and how water is managed at the bottom of the opening. Before setting the window, check the sill number on your shop drawing and read **Sill Options** (page 17). For sills #1, #2, #3, #7 and #8, also read **Countertop Sills** (page 19) – these windows are set flat on the countertop, not shimmed to level. OPTVUE recommends installing the countertop first. For step sills (#3 & #8, step countertop by others), install the lower counter first. The window is then set onto it. For no sill (flush countertop) and drainage channel orders, also read **Water Exposure** (page 21).

PREPARE THE ROUGH OPENING

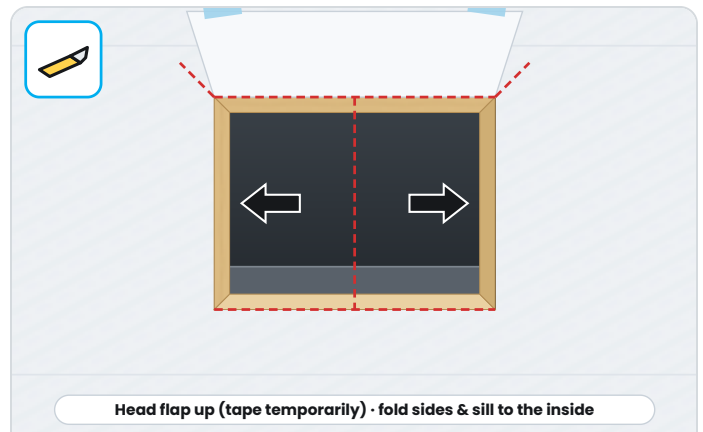
NEW CONSTRUCTION · WOOD FRAME

- Size the rough opening to match your shop drawings: unit width + ½" framing to framing; unit height + ½" framing to framing on windows with a sill.
- Check that the sill is flat and level. Shim or plane the sill plate as needed – the sill must be level over its full length.
- Check the jambs for plumb and the head for level, and correct as needed.
- Measure both diagonals (upper-left to lower-right and upper-right to lower-left). If they are within ⅛" of each other, the opening is square.
- Cut the WRB across the head and the sill, then vertically down the center (a modified "I" cut).
- At the head, make 45° cuts up from each corner, the width of the head flashing, and tape the flap up out of the way.
- Fold the side and sill flaps into the opening, staple them to the inside face of the framing and trim off any excess.
- **Windows with a sill (#4, #4.1, #5, #6) require a sill pan.** Install the sill pan flashing: it must turn up each jamb at least 6", cover the full depth of the sill, and lap 2"–3" onto the WRB below the opening.
- **Countertop sills #1, #2, #3, #7 & #8:** the R.O. height is unit height + ½", measured from the finished countertop to the header. The installer is responsible for a flat, level opening. Install the countertop first – or, for step sills #3 & #8, the lower counter – level and fully supported, so the window can be set onto it. See page 19.



R.O. = UNIT + 1/2" (WIDTH & HEIGHT)

A. Measure the opening framing to framing (countertop to header on countertop sills) and compare it to the R.O. on your shop drawings.



Head flap up (tape temporarily) · fold sides & sill to the inside

B. Modified "I" cut. Raise and tape the head flap; fold the sides and sill inward.

1½" RIGID NAIL FLANGE

NEW CONSTRUCTION

FIGURES 1 – 4

$$A = B \pm 1/8"$$

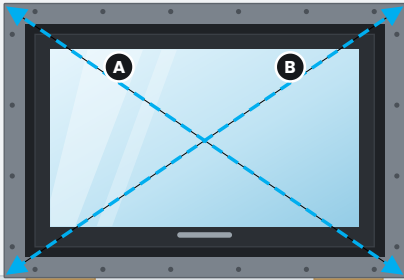


FIG 1 Lay the unit on padded supports and check it for square by measuring both diagonals.

SILL LEVEL · JAMBS PLUMB

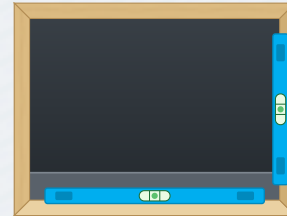


FIG 2 Check the rough opening: sill level, jambs plumb.

$$A = B \pm 1/8"$$

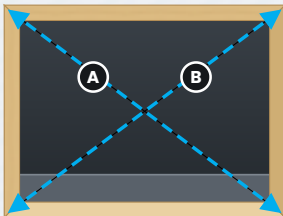


FIG 3 Check the rough opening for square – diagonals within 1/8".

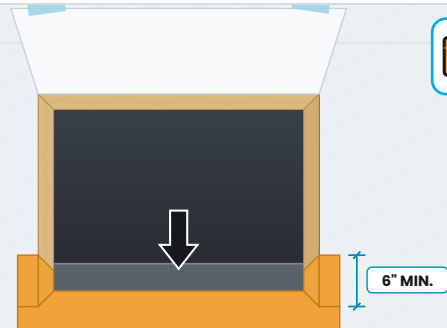


FIG 4 Install the sill pan flashing, turned up at least 6" at each jamb and lapped over the WRB below. **A sill pan is required for windows with a sill (#4, #4.1, #5, #6).**

Apply flashing and WRB per AAMA InstallationMasters™ practice.

1½" RIGID NAIL FLANGE

NEW CONSTRUCTION

FIGURES 5 – 8

BACK (WALL) SIDE OF FLANGE



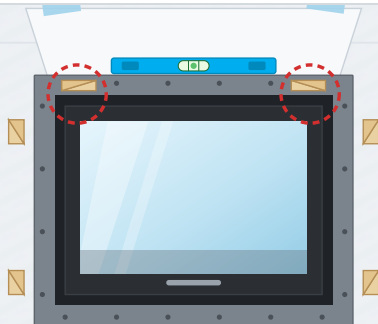
Continuous bead at head & jambs · bottom flange: leave drainage gaps

FIG 5 Apply a continuous bead of sealant to the back of the flange at the head and both jambs. At the bottom flange, leave drainage gaps in the bead so any water in the sill pan can drain out. Use a sealant compatible with the flashing types used.



Set the bottom on the sill pan first, then tilt the top in

FIG 6 With the sash closed and secured, lift the unit with at least two people. Set the bottom onto the sill pan first, then tilt the top into the opening.



Rigid shims at both upper corners to the header · shim the jambs

FIG 7 Center the unit, then shim at the jambs until the sill is level and the jambs are plumb. **Pack both upper corners solid to the header with very rigid shims** – there must be no movement at the window head. Temporarily fasten one top corner.

Upper corners: under immense stress in the closed position.

Countertop sills #1, #2, #3, #7, #8: install the countertop (or lower counter for step sills) first, then set the window flat on it – do not shim the bottom to level. See page 19.

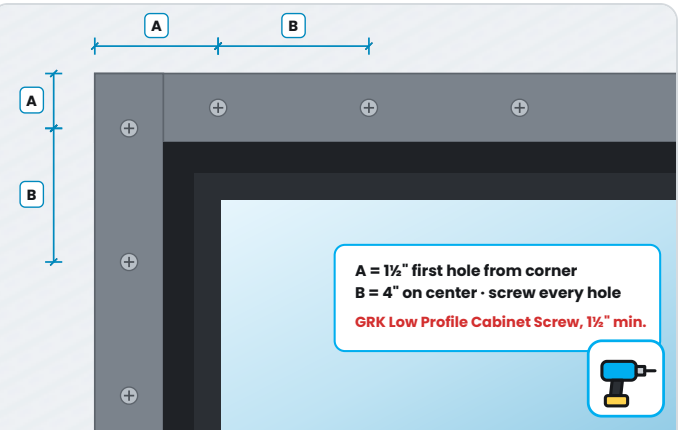


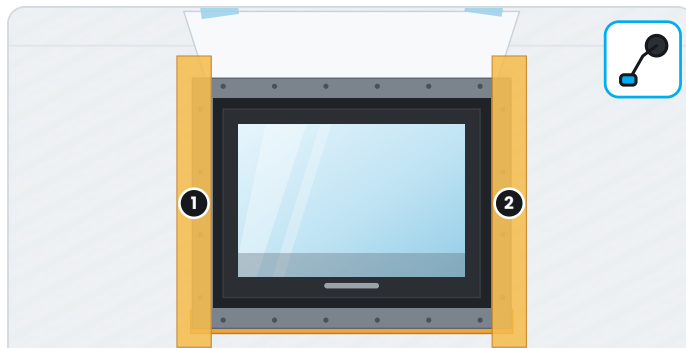
FIG 8 Install a GRK Low Profile Cabinet Screw (1½" minimum) in **every** pre-drilled flange hole. The holes are set **A = 1½"** from each corner, then **B = 4"** on center. Do not overdrive or distort the flange.

Fastener size and A / B values: see the fastener schedule, page 08.

1½" RIGID NAIL FLANGE

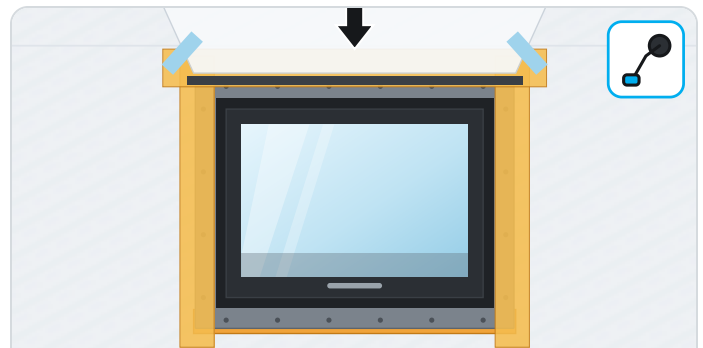
NEW CONSTRUCTION

FIGURES 9 – 12



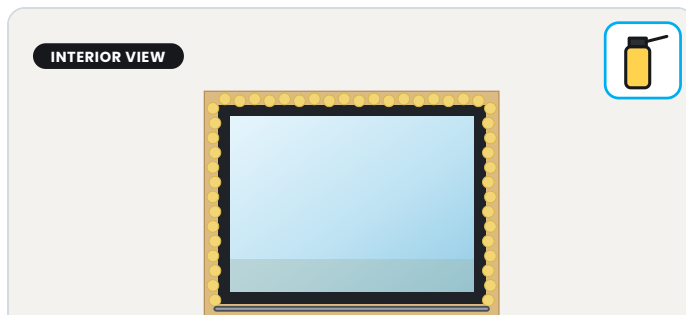
Jamb tape: above the head and down over the sill pan leg

FIG 9 Before final fastening, open and close the sash to confirm smooth operation and even reveals. Then flash the jambs: tape over the side flanges, starting below the sill pan leg and running above the head.



Drip cap + head tape, then flap down & tape the 45° cuts

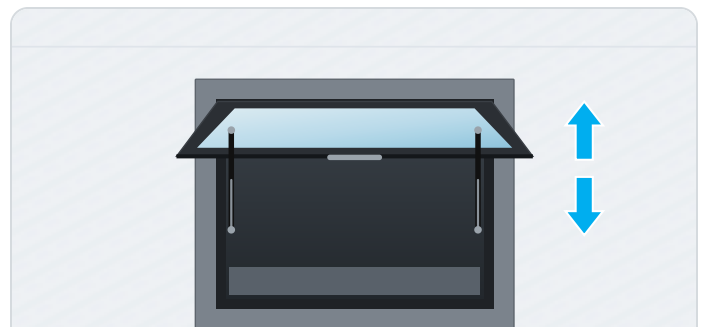
FIG 10 Install the drip cap and tape the head flange. Lower the WRB flap over the head flashing and tape the 45° cuts.



INTERIOR VIEW

Low-expansion window & door foam · backer rod + sealant

FIG 11 From the interior, fill the gap between the frame and the framing with low-expansion foam or batt insulation. Do not over-fill – foam must not bow the jambs. Seal with backer rod and sealant as required.



Open & close several times: smooth travel · struts hold · seals close

FIG 12 Open and close the window several times. Confirm the struts hold the sash at the open position ordered and the sash seals evenly when closed.



CAUTION

Never leave the sash open and unattended during construction. Wind can lift the open sash and overload the struts and hinge.

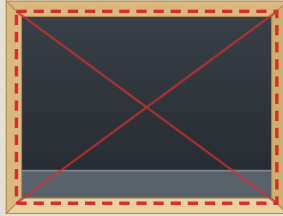
RETROFIT FRAME

EXISTING OPENING

SAME METHOD AS BLOCK FRAME

FIGURES 1 – 4

EXISTING OPENING



Remove old sash, stops & hardware · clean & inspect for damage

FIG 1 Remove the existing sash, stops and hardware (or the complete old frame, as your order requires). Clean the opening and inspect for rot or water damage; repair before continuing.

3 WIDTHS · 3 HEIGHTS · USE THE SMALLEST

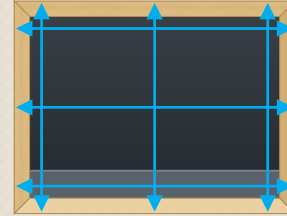


FIG 2 Measure the opening width at the top, middle and bottom, and the height at the left, center and right. Use the smallest of each.

$$A = B \pm 1/8"$$

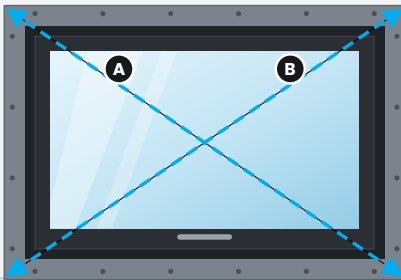


FIG 3 Check the unit for square by measuring both diagonals.



Sill flat & level · sealant bed where shown

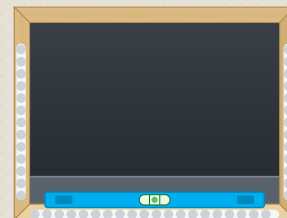


FIG 4 Confirm the sill is flat and level, shim or pack as needed, and apply a sealant bed where shown on your sill detail. **Windows with a sill** (#4, #4.1, #5, #6) require a sill pan.

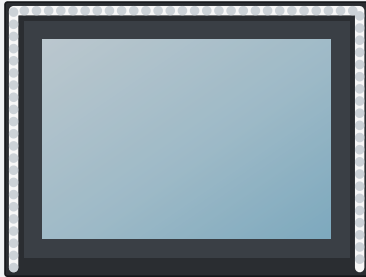
RETROFIT FRAME

EXISTING OPENING

SAME METHOD AS BLOCK FRAME

FIGURES 5 – 8

BACK (WALL) SIDE



Continuous bead on the back of the trim leg – all four sides

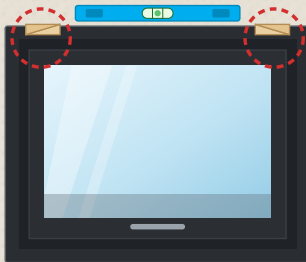
FIG 5 Apply a continuous bead of sealant to the back of the retrofit flange (trim leg) on all four sides, to seal it to the existing structure.

This is the only step that differs from a block frame install – block frames have no flange and skip it.



Center the unit – trim leg tight to the wall

FIG 6 With the sash closed and secured, set the unit into the opening with at least two people. Center it and press the trim leg firmly against the wall.

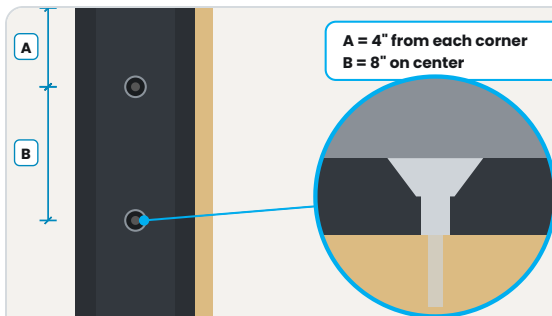


Rigid shims at both upper corners – shim at every fastener

FIG 7 Shim at every fastener location until the sill is level and the jambs are plumb and straight. **Pack both upper corners solid to the header with very rigid shims** – no movement at the window head.

Upper corners: under immense stress in the closed position.

Countertop sills #1, #2, #3, #7, #8: install the countertop (or lower counter for step sills) first, then set the window flat on it – do not shim the bottom to level. See page 19.



A = 4" from each corner
B = 8" on center

Countersink so the screw head sits flush

FIG 8 Open the sash and remove the strut covers (page 23). Pre-drill $\frac{1}{4}$ " through the top (hinge) jamb from the exterior and $\frac{1}{8}$ " through the side (slot) jambs from the interior. Fasten all sides – top, both jambs and the sill if the window has one (sill from the interior side only, never through its exterior flat surface) – with #12 flat head Deckmate® screws, $2\frac{1}{2}$ "– $3\frac{1}{2}$ ". **A = 4"** from each corner, then **B = 8"** on center. Reinstall the strut covers.

RETROFIT FRAME

EXISTING OPENING

SAME METHOD AS BLOCK FRAME

FIGURES 9 – 11

SECTION – JAMB

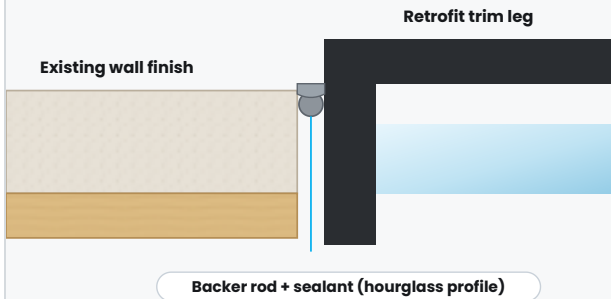
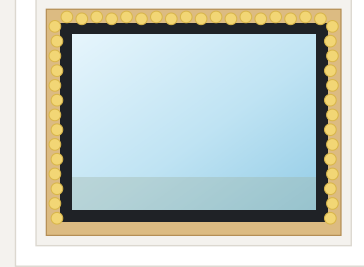


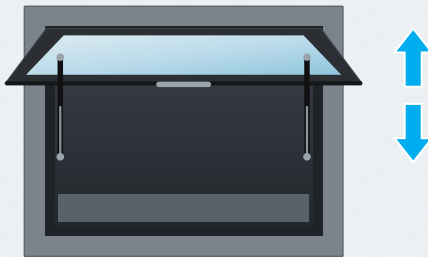
FIG 9 Seal the exterior perimeter: backer rod and sealant between the trim leg and the existing finish, tooled to an hourglass profile. Do not seal weep or drain openings.

INTERIOR VIEW



Insulate the gap, then apply interior trim

FIG 10 From the interior, insulate the gap with low-expansion foam or batt insulation without bowing the jambs, then apply interior trim.



Open & close several times: smooth travel • struts hold • seals close

FIG 11 Open and close the window several times. Confirm smooth travel, that the struts hold the open position and that the sash seals evenly.



WARNING

Seal all fastener heads and edges once anchoring is complete. Never drive screws through the exterior flat surface of a sill – fasten sills from the interior side only. Never drill into the countertop or through the drainage channel. Either can create a leak path into the wall.

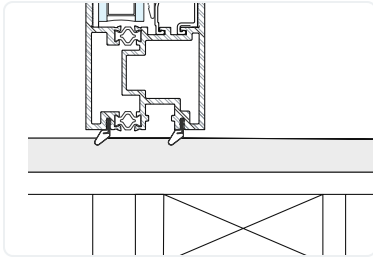


INSTALLATION COMPLETE

Leave this guide, the shop drawings and OPTVUE's limited warranty with the building owner.

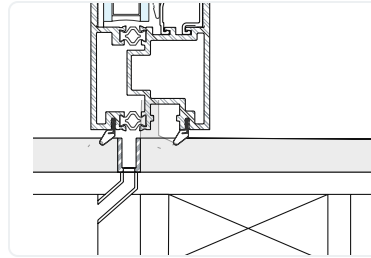
SILL OPTIONS #1 – #8

Section views at the sill. The sill on your order is shown on your shop drawing. Countertops, subtops and supports noted "by others" must be installed flat, level and fully supported before the window is set. **Sills #1, #2, #3, #7 and #8 seal directly to the countertop: install the countertop first (for step sills #3 & #8, the lower counter) and read page 19 before installing.**



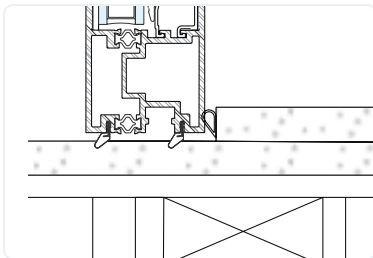
#1 No sill

Flush countertop. The sash seals directly to the finished countertop. Not intended to hold back standing water – see Water Exposure.



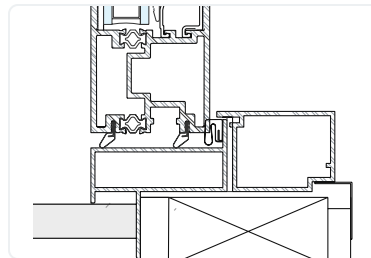
#2 Drainage channel

Flush countertop with a drainage channel. Up to 8'0" wide. Drain to the exterior below the counter, behind the cladding, or to an interior drain.



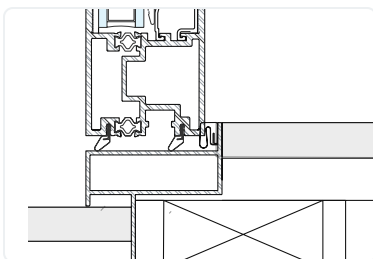
#3 Step sill

The sash closes onto a sill with a step up to the countertop. Countertop by others.



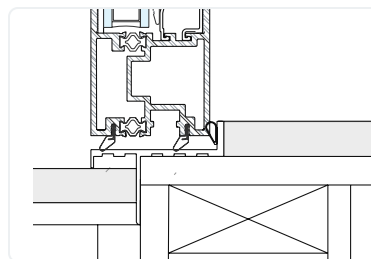
#4 Full bound sill

A full sill frame member on the bottom of the window. (#4.1 is the block frame version.)



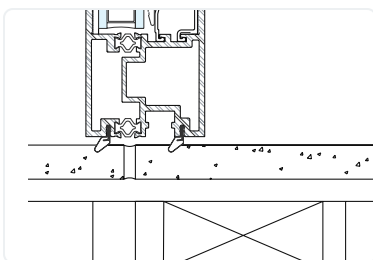
#5 Hybrid sill

A sill member combined with a countertop transition.



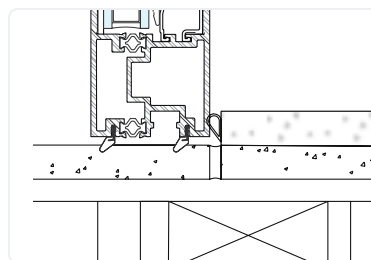
#6 Minimal sill

A low-profile sill member for a minimal sight line at the counter.



#7 No sill – thermal

Thermal flush countertop. Same water limits as #1.



#8 Step sill – thermal

Thermal step sill. Countertop by others.



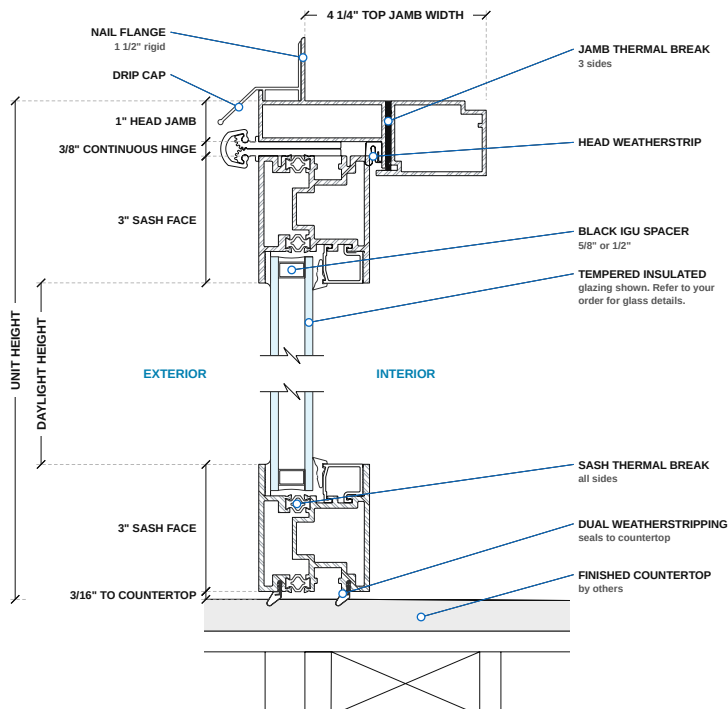
NOTE

Typical details for every sill are available at www.optvue.com/technical. Your shop drawings show the exact sill, sash and countertop gap for each window.

TYPICAL SECTION & PLAN VIEW

SL SERIES GAS STRUT WINDOW · SILL #1 FLUSH COUNTERTOP SHOWN

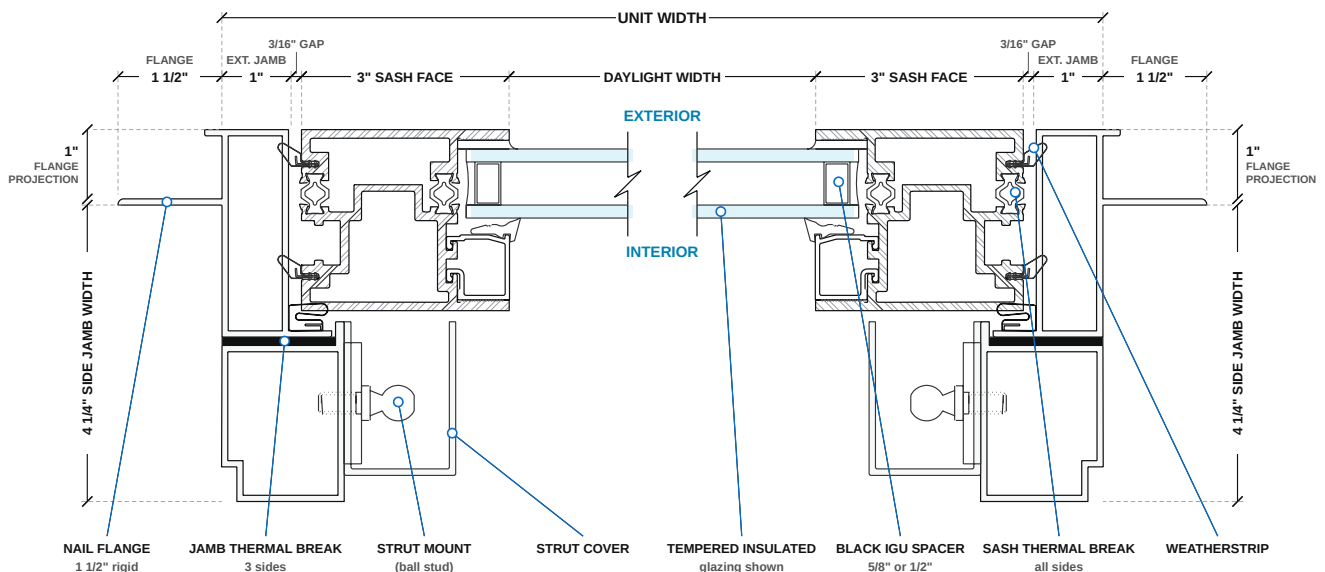
VERTICAL SECTION



READING THE DRAWINGS

- The 1½" rigid nail flange and drip cap sit on the exterior face at the head.
- The sash hangs from a continuous hinge at the head; the gas struts mount at the jambs on ball studs, behind the strut covers.
- On a flush countertop the bottom of the sash seals directly to the countertop with dual weatherstripping – set the window flat on a level countertop (page 19).
- Jambs and sash are thermally broken. Glass is tempered insulated glass unless your order says otherwise.
- Countertop by others. Keep the 3/16" countertop gap shown on your shop drawing.

PLAN VIEW · HORIZONTAL SECTION THROUGH THE JAMBS



COUNTERTOP SILLS – SETTING THE WINDOW

SILL OPTIONS #1, #2, #3, #7 & #8

On these sills the bottom of the sash seals directly against the countertop (or step) supplied by others. The seal only works when the window sits flat on that surface along its full length. On an out-of-level countertop, water pools toward the low side and can run into the house – which is why a flat, level countertop is critical, and why the window must always be set flat to the counter so its exterior leading edge seals across the full countertop.



CRITICAL

Set the window flat on the countertop and let it follow the countertop. **Do not shim or set the window to level on an out-of-level countertop.** Any difference between the window and the countertop becomes an open gap under the bottom seal – a countertop $\frac{1}{4}$ " out of level leaves a $\frac{1}{4}$ " gap at one end if the window is set level.

WRONG – SET LEVEL



Window set level on an out-of-level counter: the bottom seal lifts off

WRONG Window set level on a countertop that is out of level. The bottom seal lifts off the counter, leaving a tapered gap for air and water.

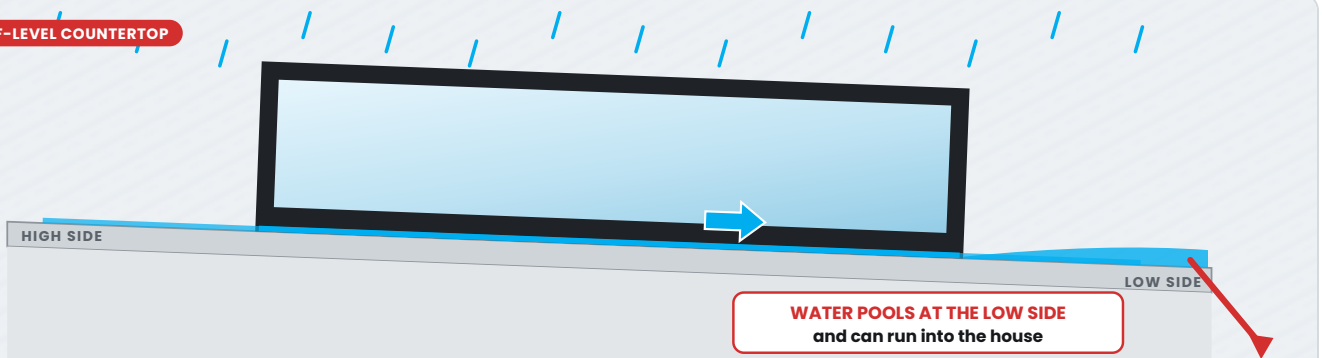
RIGHT – FLAT ON THE COUNTER



Window set flat on the counter: the seal bears along its full length

RIGHT Window seated flat on the same countertop. The seal bears evenly along its full length; the jambs follow the countertop.
Slope exaggerated for clarity.

OUT-OF-LEVEL COUNTERTOP



WHY IT MATTERS On an out-of-level countertop, water runs to the low side, pools against the window and can run into the house. A flat, level countertop lets the window sit flat and its exterior leading edge seal across the full countertop.

Slope exaggerated for clarity.

COUNTERTOP SILLS – SEQUENCE & SETTING

SILL OPTIONS #1, #2, #3, #7 & #8 · CONTINUED



HOMEOWNER / INSTALLER RESPONSIBILITY

If the countertop is not level, stop and have it corrected first. Leveling the countertop is the sole responsibility of the homeowner or installer. Water intrusion caused by an out-of-level countertop is their sole risk and responsibility and is not a window defect.

THE COUNTERTOP COMES FIRST

- **OPTVUE recommends installing the countertop first**, level, flat and fully supported, so the window can be set onto it. A level countertop is what allows the window to be installed level and plumb.
- **Step sills #3 & #8** (step countertop or step sill by others): install the **lower counter first** so the window can be set onto it.
- Check the countertop with a 4 ft level along the full width of the opening and at both ends. Correct an out-of-level countertop – do not try to correct it at the window.
- The countertop surface under the seal must be smooth, clean and free of joints, lips or seams.
- Coordinate with the countertop installer early; the countertop is supplied by others.

SETTING THE WINDOW

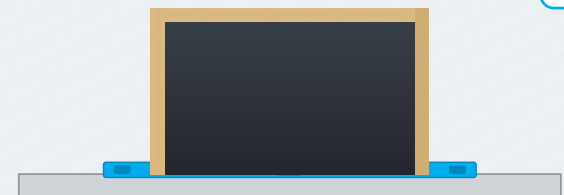
- Seat the window on the countertop and confirm full contact along the bottom seal, end to end.
- Shim only at the jambs and head to support the frame – never under the bottom of the window.
- Check the gap between the sash and the countertop with the sash closed; it must be even along its full length.



RECOMMENDED SEQUENCE

1 Countertop (lower counter for step sills), level **2** Window set flat onto it **3** Fasten, flash & seal

COUNTERTOP LEVEL BEFORE THE WINDOW



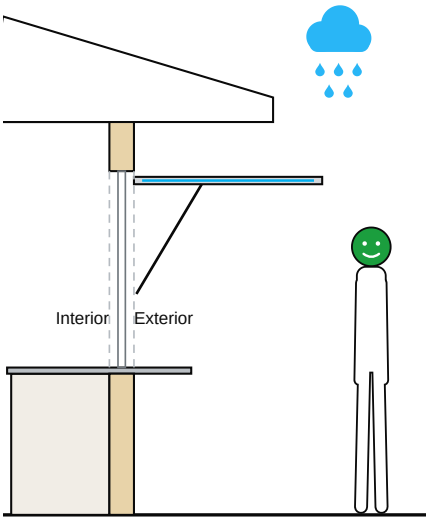
Check the full length and both ends – correct the counter, not the window

WATER EXPOSURE

NO SILL (FLUSH COUNTERTOP) & DRAINAGE CHANNEL

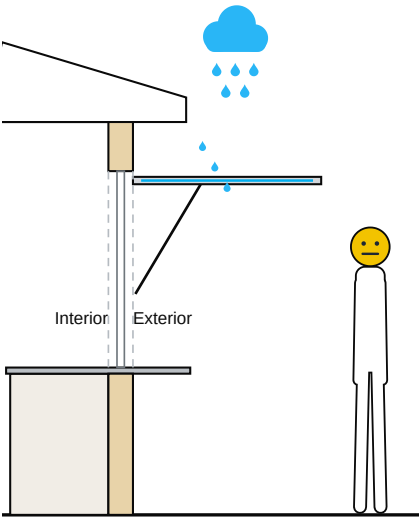
OPTVUE windows with no sill create a flush transition at the countertop and are **not intended to hold back standing water**. Choose the sill option that best suits the window's exposure – the overhang above the window makes the difference. The countertop must be flat and level: on an out-of-level countertop, water pools toward the low side and can run into the house. Water intrusion caused by an out-of-level countertop is the sole responsibility of the homeowner or installer (page 19).

1 Extended overhang

BEST


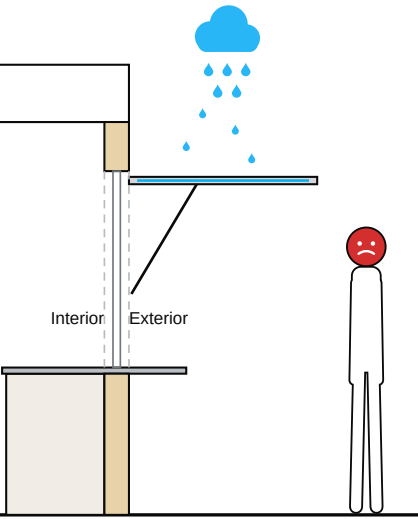
The best scenario for a no sill (flush counter) window.

2 Minimal overhang

CAUTION


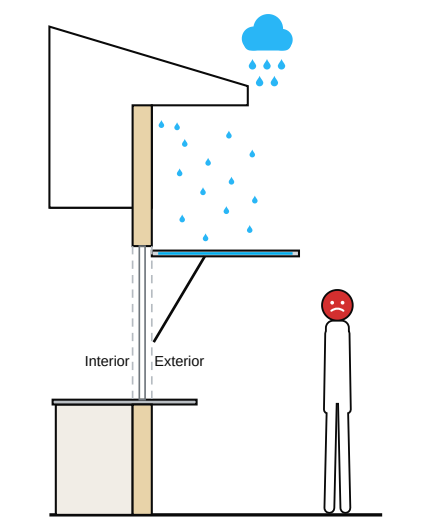
Vulnerable in heavy, wind-driven rain.

3 No overhang

NOT RECOMMENDED


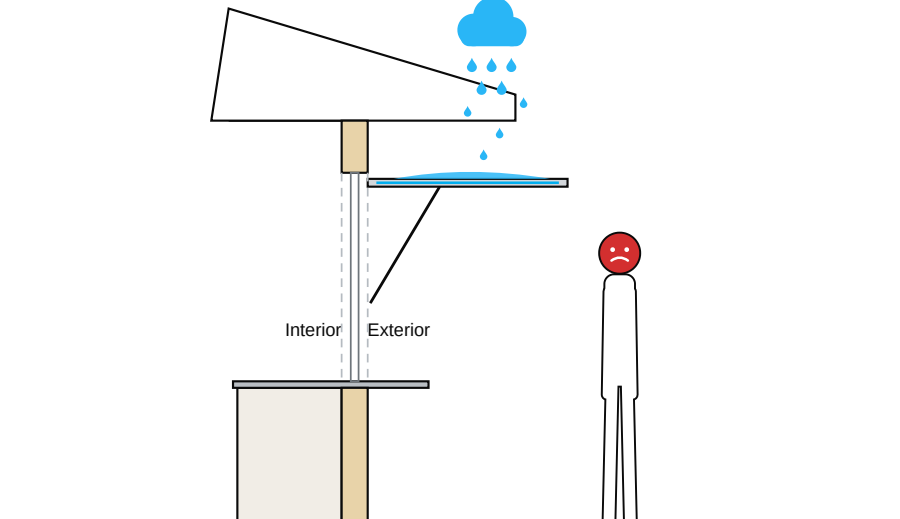
This exposure will fail with any water exposure.

4 Elevated overhang

WORST


Water collects on the wall above and sheets onto the counter.

5 Water pooling

NOT COVERED BY WARRANTY


Standing or pooling water against the glass will damage the window. Damage from pooling water is not covered by OPTVUE's limited warranty.

GAS STRUT OPERATION

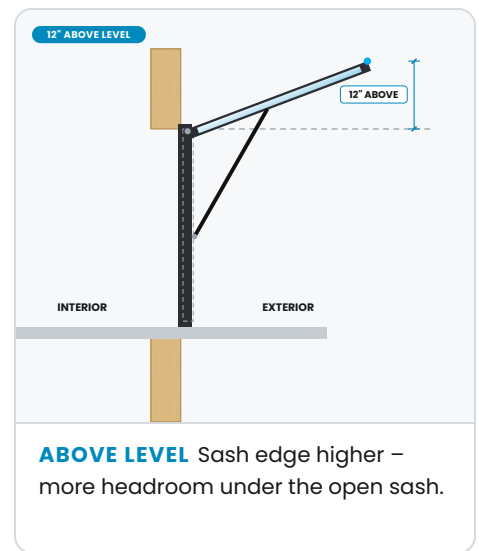
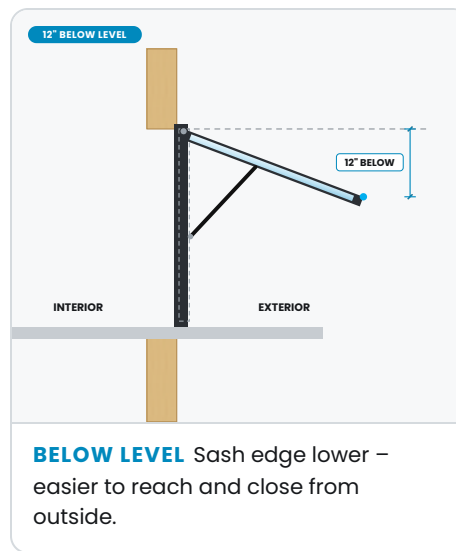
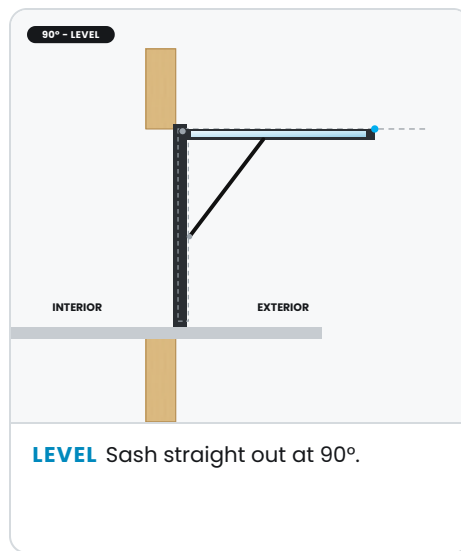
OPEN POSITION

The sash is hinged at the head and held open by gas struts at each jamb. The open position was selected with your order: 90° straight out (level), or set to stop 2" to 12" below or above level in 2" steps. It is shown on the reach-height sheet in your shop drawings.



CRITICAL – OPEN POSITION IS FACTORY SET

The level, above-level and below-level open positions are set at the factory and must not be changed in the field. Any field adjustment or modification of the gas struts will void the OPTVUE limited warranty. Decide on the sash open position when ordering the window, and confirm it on the shop drawings (reach-height sheet) during the shop drawing approval process.



TO OPEN & CLOSE

- **Unlock:** from the interior, turn the locking handle upward (counterclockwise) one quarter turn.
- **Open:** push the lower sash rail outward. The struts assist and hold the sash at its open position.
- **Close from the exterior:** pull the sash down with the exterior grab handles and ease it into place. Do not let it drop or slam.
- **Lock:** from the interior, turn the locking handle back down (clockwise) one quarter turn.
- Never use the locking handle to push the window open, or to pull the window down from the exterior.
- Keep hands clear of the hinge, the frame and the sash edge while the sash moves.
- Strut force can drop in cold weather and recovers as the struts warm up.

DO NOT

- Hang on, lean on, or place loads on the open sash.
- Adjust or modify the gas struts or the factory-set open position – field adjustment voids the warranty.
- Leave the sash open in high wind or storms.
- Puncture, heat or disassemble a gas strut. Replace struts in pairs, with OPTVUE-supplied struts only – always with the sash fully open and securely supported (see page 23).
- Allow anything to block the swing of the sash outside – railings, posts, awnings, lights, plants or walkways.

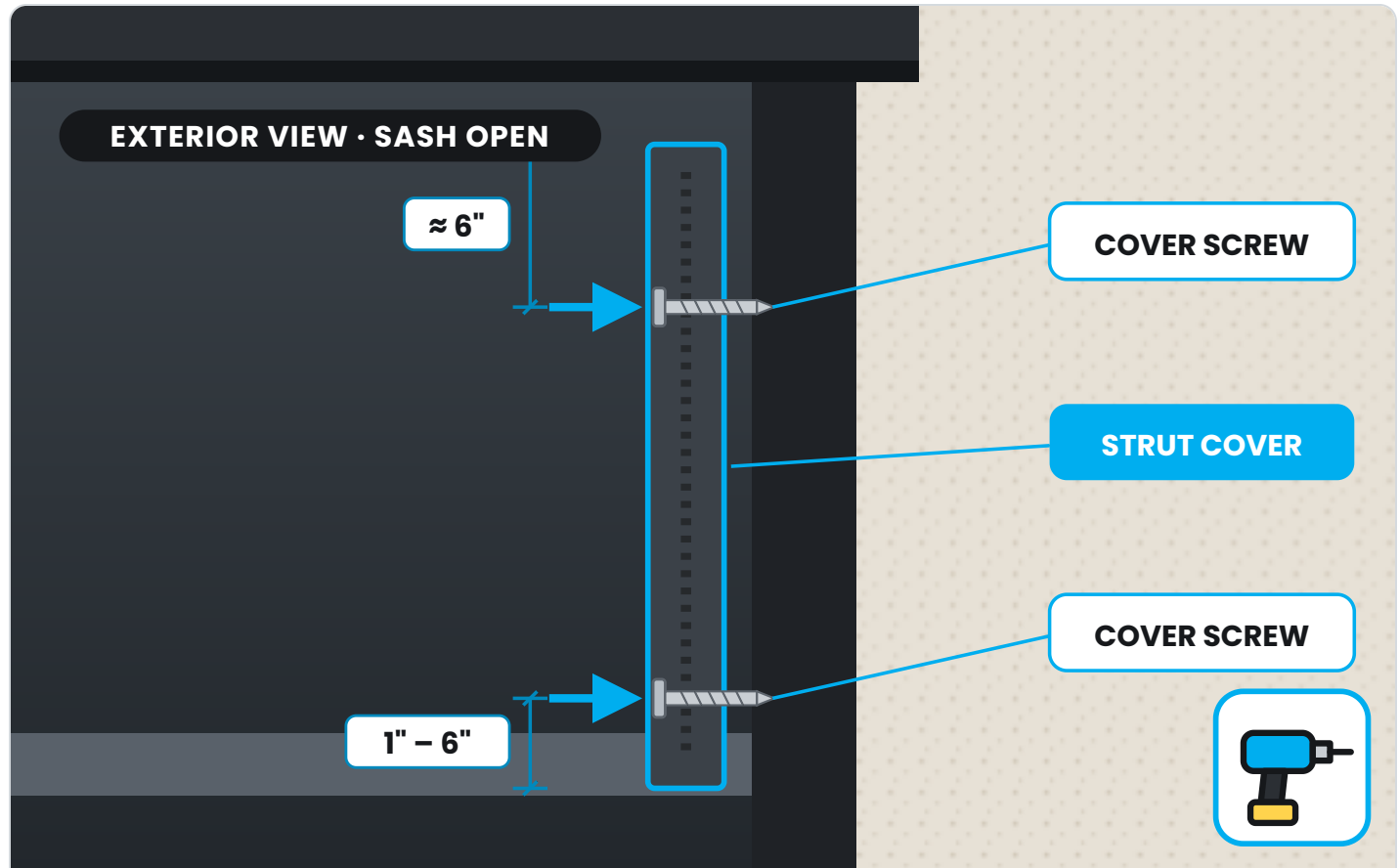
SERVICING THE GAS STRUTS

STRUT COVERS · REMOVAL & REPLACEMENT



WARNING

The sash must be fully open and securely supported before any strut is disconnected. A gas strut cannot be compressed by hand – removing or installing a strut with the sash closed releases enough force to cause serious personal injury and damage the window.



STRUT COVER SCREWS With the sash open, each strut cover's screws are exposed from the exterior: one about 6" down from the top of the cover, and one 1" to 6" up from the bottom. The screws go in **sideways** – from inside the cover, through the side of the cover into the jamb.

PROCEDURE

1. **Open the sash fully and support it securely** (a prop rated for the sash weight, or a second person). The struts must never be disconnected with the sash closed.
2. **Remove the strut covers first.** From the exterior, remove the cover screws shown above.
3. With the screws removed the strut cover is loose. Lift it off to expose the gas strut mounting brackets.
4. Service or replace the strut with the sash still supported. Replace struts in pairs, with OPTVUE-supplied struts only.
5. Reinstall the strut covers and screws, remove the support, and check that the sash opens, holds and closes correctly.

FINISHING, CLEANING & MAINTENANCE



FULL CARE INSTRUCTIONS

For complete cleaning and maintenance instructions for your OPTVUE window, visit www.optvue.com/care.

FINISHING

- Apply interior trim to complete the installation.
- Wood interior (aluminum / wood units): seal or finish all exposed and hidden wood surfaces, following the finish manufacturer's instructions. Do not let stain or paint run onto the glass, gaskets or weatherstripping.
- Do not paint or coat the gas struts, hinge, gaskets or weatherstripping.

MAINTENANCE

- Do not apply window film to insulated glass. Film, and tight-fitting shades or covers, can cause thermal stress breakage and condensation damage.
- Keep the sill, countertop joint and any drainage channel clear of debris so water can drain.
- Periodically check that strut and hinge fasteners are tight and that weatherstripping is in place.
- Inspect exterior sealant joints yearly and repair as needed.
- Full cleaning and maintenance instructions: www.optvue.com/care
- Questions: (760) 760-0110 · info@optvue.com · www.optvue.com

CLEANING

- Clean glass with a liquid glass cleaner and a soft cloth.
- Clean the frame and sash with mild detergent and water and a soft cloth or brush, then rinse.
- For stubborn spots use a non-abrasive cleaner, or a mix of isopropyl alcohol and water.



CAUTION

Acid solutions used to clean masonry or concrete will damage glass, finishes, fasteners and flashing. Protect the window; if acid contacts it, rinse with plenty of water immediately.



CAUTION

Abrasive cleaners and pads scratch glass and finishes.



CAUTION

Metal blades and scrapers can scratch the glass surface and coatings.



THRUVUE™ INFINITY SERIES

GAS STRUT PASS-THROUGH WINDOW

INSTALLATION INSTRUCTIONS

When the installation is complete, confirm that all fasteners are tight and all joints are sealed in accordance with this guide, the shop drawings and AAMA InstallationMasters™ practice. OPTVUE recommends that all OPTVUE products be installed by experienced professionals.