



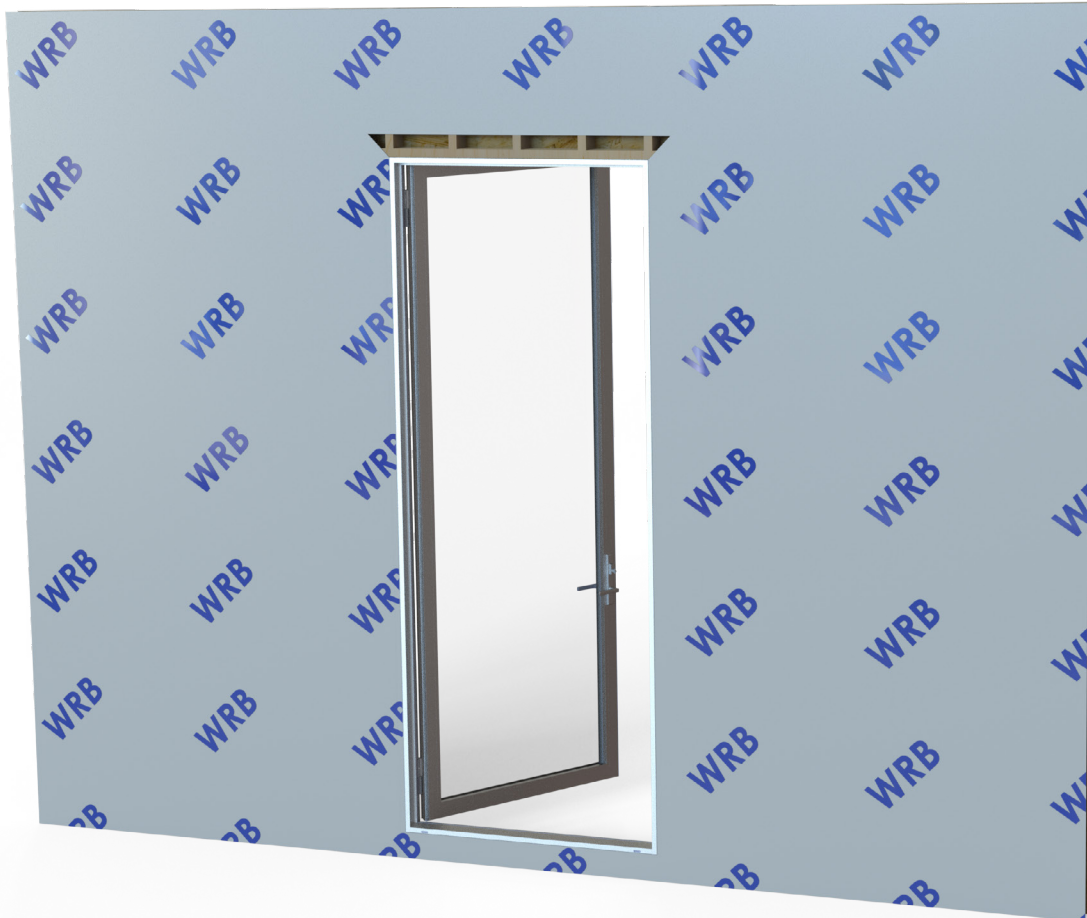
SERIES 8900 HINGED DOOR

INSTALLATION INSTRUCTIONS

WESTERNAO.COM



SCAN
TO PLAY
VIDEO



This guide provides step-by-step instructions for installing the Hinged Door. Sealants used should be compatible with the building envelope's waterproofing membrane. Drip caps should be ordered when the window is ordered. Application of building components such as flashing and WRB may vary. Refer to those manufacturers' instructions for incorporation and installation of their products. Western is not responsible for proper integration of its products into the structure for weather management. See current versions of AAMA 2400 and ASTM E2112 for pre-installation and installation details.



CAUTION

We recommend all Western Architectural Openings products be installed by experienced professionals

Contact us:

2200 E. Riverview Dr., Phoenix, AZ 85034

877-268-1300

WesternAO.com



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NOTE

Unless specifically indicated on the Figure as "Interior View". All figures in this installation guide are detailed from window exterior.



IMPORTANT SAFETY INFORMATION



WARNING

Risk of injury, potentially serious, if warning is not heeded



CAUTION

Risk of injury if precaution isn't taken



NOTE

Additional information is important to the installation

Read instructions, front to back, before beginning installation.

Product Storage and Transports

Product should be stored in a dry location protected from the elements. Wet packaging can cause damage to product finishes. If the packaging becomes wet, immediately replace it with dry packaging. Product should be stored and transported upside down. To avoid damage, do not drop or drag product from the delivery truck. Care is required in handling, transport and storing products to avoid compromising the integrity of components and product performance. Failure of care may limit warranty remedies.

Removal of Old Fenestration Products

Ensure that old fenestration products are removed and properly disposed. You may be able to recycle or donate removed glass and frames. For more information, check with your local recycling agency, the Fenestration & Glazing Industry Alliance (FGIA, f/k/a American Architectural Manufacturers Association, the U.S. Environmental Protection Agency, or the Building Materials Reuse Association to locate a nearby company or organization that accepts used windows and doors. To donate removed products, contact local nonprofits in need of building supplies, such as Habitat for Humanity.



WARNING

Homes and condominiums built before 1978 may have lead-based paint, which can pose serious health hazards during removal. Information and instruction regarding proper management of lead-based paint is available at www.epa.gov/lead.



IMPORTANT SAFETY INFORMATION

Safety and Handling

Installation of the product is not a “do-it-yourself” project. The product should be installed only by experienced, qualified, and where required, licensed installation professionals.

- Read and fully understand ALL manufacturer’s instructions prior to beginning the installation. Failure to follow applicable installation instructions and industry standards, such as AAMA 2400 and ASTM E2112, may affect coverage under the applicable Western Architectural Openings express limited warranty.
- This is a finished product that must be protected before, during and after installation to prevent damage to the glass, frame, finish and hardware. All component parts should be stored in a dry location that is protected from the elements.
- Before proceeding with installation, inspect the product and component parts and confirm that there is no damage or condition that will affect appearance or performance. Damaged or missing parts should be reported to your dealer immediately.
- Use caution when working at elevated heights including but not limited to ladders and scaffolding.
- It is the responsibility of the installation contractor to consult and establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to commencing installation.
- Do not work alone and use safe lifting techniques. Two or more people may be required to lift. Use a reasonable amount of people with enough strength to lift, carry and install to avoid injury and/or damage to the Product. Consult product order information for measurements and weight.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear (safety glasses, gloves, ear protection, etc...).
- Operate hand and power tools safely and follow the manufacturer’s operating instructions.
- Job site and worker protections are recommended and may be required.



IMPORTANT SAFETY INFORMATION

Components

The components supplied will vary depending on the configuration you are installing. Before proceeding with the installation, inspect the components to become familiar with them. Confirm all parts and components have been ordered and delivered.

Confirm there is no damage that will affect the appearance or performance of the installed product. Damaged or missing parts should be reported to your dealer within 48 hours of delivery.



NOTE

Some windows will be shipped knocked down, in this case glass will need to be field glazed. Please consult a glazing contractor.

Installation Preparation

Prior to installation, it is important that you carefully review and understand the installation instructions and any drawings supplied. Western Architectural Openings fenestration products should be installed only by experienced and qualified installation professionals. Failure to follow these instructions and industry standards may result in poor performance, including but not limited to, operation, security, and weatherproofing failures, and may void Western Window Systems expressed limited warranties.

This is a finished product that must be protected before, during, and after installation to prevent damage.

Failure to follow these recommendations, local requirements, and good building practices may result in poor performance including, but not limited to, operation, security and weatherproofing failures and may void coverage under the applicable Western Window Systems' express limited warranty. Provide a copy of these recommendations and the applicable Western Window Systems' express limited warranty to the owner before installing. Western Window Systems does not permit adoption of its installation recommendations into the contracts of others without its prior, written consent.

Please contact Western Window Systems at 1-877-268-1300 for clarification.



NOTE

NOTE: The rough opening must be waterproofed in accordance with AAMA Installation Masters standards, as well as flashing and sealant manufacturer instructions, and must meet local building codes. Applicable industry standards AAMA 2400, AAMA Installation Masters™ ASTM E 2112, FMA/AAMA/WDMA 300-12 should be consulted.



REQUIREMENTS FOR A SUCCESSFUL INSTALL

Rough Opening

Ensure that the sill is flat and level.

Ensure that the entire opening is square and plumb. These instructions do not address all potential installation conditions and are minimum requirements. Building codes and industry standards may provide further details not included here.



MANPOWER

Multiple people should be used to install these systems. Consult product weight and measurements in order documents or contact WAO.



PROTECTION FROM WIND AND RAIN

Systems should be installed with overhead protection from wind and rain to prevent potential damage from water. We recommend that a professional waterproofing consultant be used to ensure proper steps are taken to reduce the potential for damage.



INSTALLING IN EXISTING STRUCTURES

System installation may disturb surfaces and paint in existing structures. Specific notice and work site precautions may be required. Additional information is available at www.epa.gov/lead. Comply with all applicable federal, state and local requirements.



INSTALLING IN EXISTING STRUCTURES

Special disposal considerations may be necessary for materials used during installation. Materials removed from an existing structure may also have their own disposal or recycling requirements. Comply with all applicable federal, state and local requirements.



MATERIAL AND TOOL LIST

Materials and tools indicated below are general suggestions. Additional or different items may be required depending on the type of install and regional code requirements.

Materials Required:

- ☐ Non-compressible shims.
- ☐ Fasteners for Wood Frame Installation provided
 - Type and number as required by code.
 - At minimum fastener type should be sufficient to properly affix the frame.
- ☐ Flexible membrane for sill pan flashing system.
- ☐ High quality compatible exterior grade sealant.
- ☐ Seal tape for the weather resistant barrier.
- ☐ Self-adhering flashing
 - In a width required by code but no less than 4".
 - AAMA 711 compliant flexible butyl tape flashing or equivalent is recommended.
- ☐ Backer rod.
- ☐ 2" Chip brush for spreading Liquid Applied Flashing.
- ☐ Joint knife, trowel, or spatula for applying Liquid Applied Flashing.
- ☐ Low-expansive, low-pressure foam or batt type insulation.
- ☐ DRILL BIT size required: #7 OR 13/64".

Other Material may be required for flashing and WRB integration. Consult other material manufacturer instructions.

Tool Checklist:





INSTALL OPTIONS

Verify the window is the correct size and the rough opening is sized correctly to for the unit(s) to be installed. If you are mulling two or more windows, refer to the mulling instructions found at the end of this instruction manual.

There are two install options for the Hinged Door , as seen below. Verify you are using the correct instructions based on your configuration of window.





PREPARE ROUGH OPENING

Wood Frame Construction

- Width of the prepared rough opening should be at least $\frac{1}{2}$ " more than unit width. Height of rough opening should be $\frac{1}{2}$ " more than unit height. Account for thickness of flashing material.
- Check sill plate for level. Sill must be level. Shim if needed.
- Check rough opening for plumb and level. If rough opening is not plumb or level, correct as needed.
- Check rough opening for square by measuring diagonally across, upper left to lower right and upper right to lower left corner. If measurements are within $\frac{1}{8}$ ", opening is square. If rough opening is not square, correct as needed.
- Cut house wrap along sill and head of rough opening.
- Cut house wrap vertically in center of rough opening from head to sill.
- Fold house wrap around to inside, trim excess and staple.
- Cut top corners of house wrap on 45° angles the width of head flashing. For arch top and Springline™ units, cut top corners on 45° angle for 8" to 10" then cut straight up until the cuts equal the width of the head flashing above the unit. See drawing.
- Fold flap up and temporarily tape in position.
- Apply sill flashing to rough opening sill. Keep sill flashing 6" above sill at sides and 2" to 3" onto house wrap around exterior.
- Secure corners of sill flashing by stapling, taping or nailing in position. Stapling shown in drawing.





NAIL FIN INSTALLATION INSTRUCTIONS

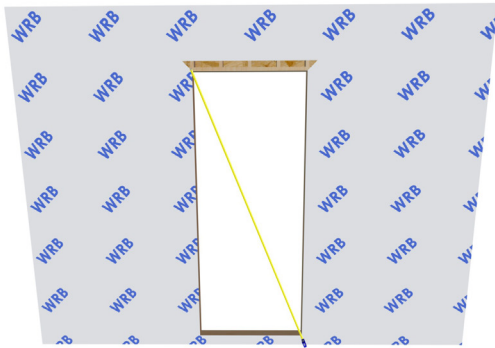


Fig 1. Prepare the Rough Opening. Confirm the opening is square using a tape measure.

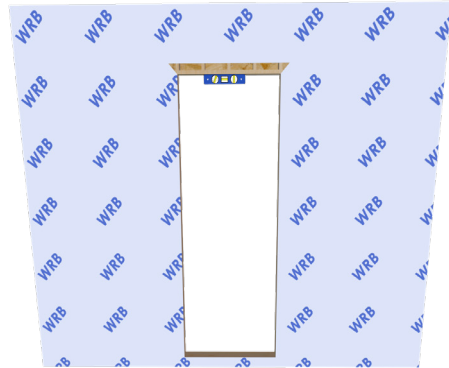


Fig 2. Use a level to ensure plumb and level conditions.

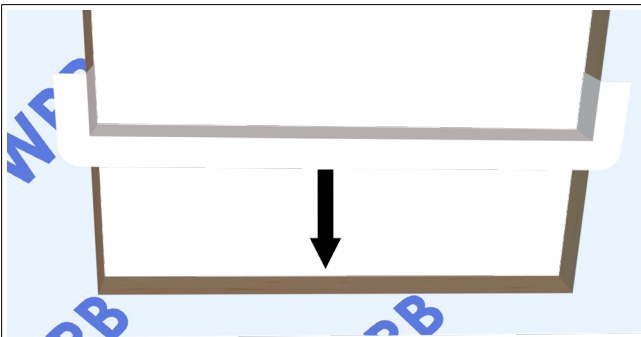


Fig 3. Apply sill flashing along the bottom, extending at least 6 inches up each jamb.



Make sure to apply flashing and appropriate weather resistant barrier material, per AAMA Installation Masters Handbook.

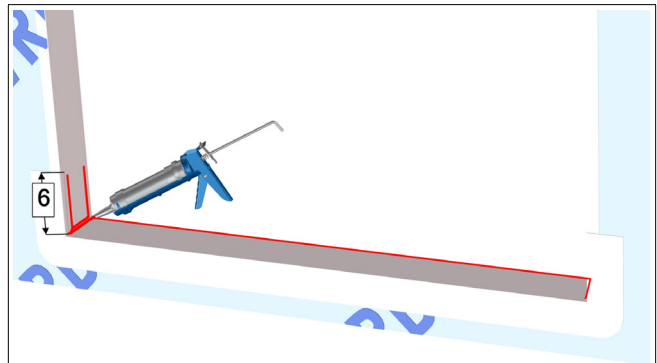


Fig 4. Apply sealant at the sill, up the side jambs, and into the corners.



NAIL FIN INSTALLATION INSTRUCTIONS

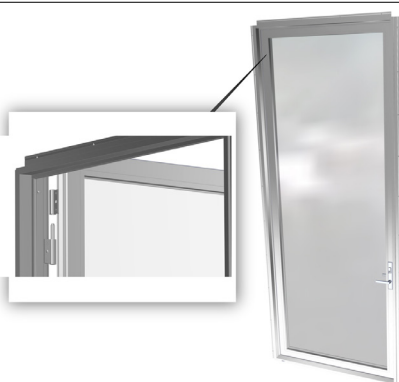


Fig 5. Before mounting the unit, prep the Door Assembly.

You may remove the door assembly by lifting it off the hinges. This makes it easier to handle the frame assembly.

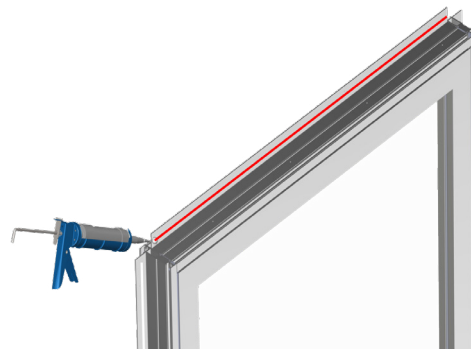


Fig 6. Apply sealant to the back side of all nail fins.



Fig 7. Next, install the Door Assembly. With assistance, tilt the unit into the rough opening. Use shims as needed for a snug fit.

Before anchoring, re-check that the unit is square, plumb, and level. Anchor the Frame.

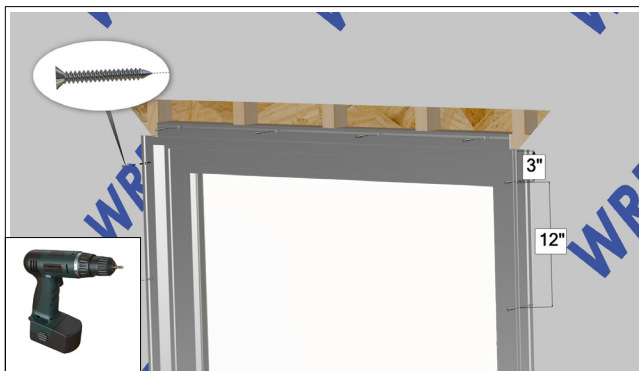


Fig 8. Pre-drill holes using a 13/64-inch drill bit.

Install the first screw 3 inches from each corner, and space additional screws 12 inches apart. Use the provided #10 x 1 1/2" screws. Seal all screw heads and nail fin edges once anchoring is complete.



NAIL FIN INSTALLATION INSTRUCTIONS



Fig 9. Cover all corners with corner gaskets, ensuring full coverage of the nail fins.



Fig 10. Apply sealant where the gaskets touch the frame.

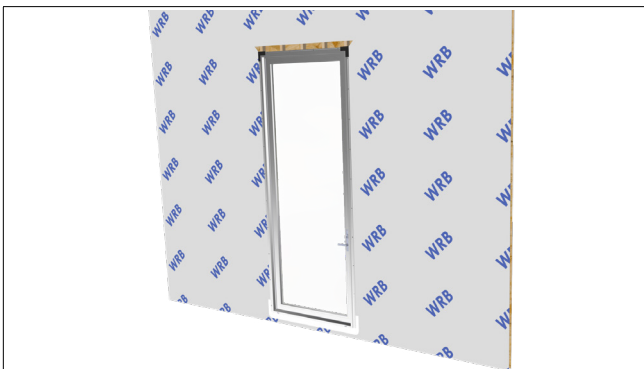
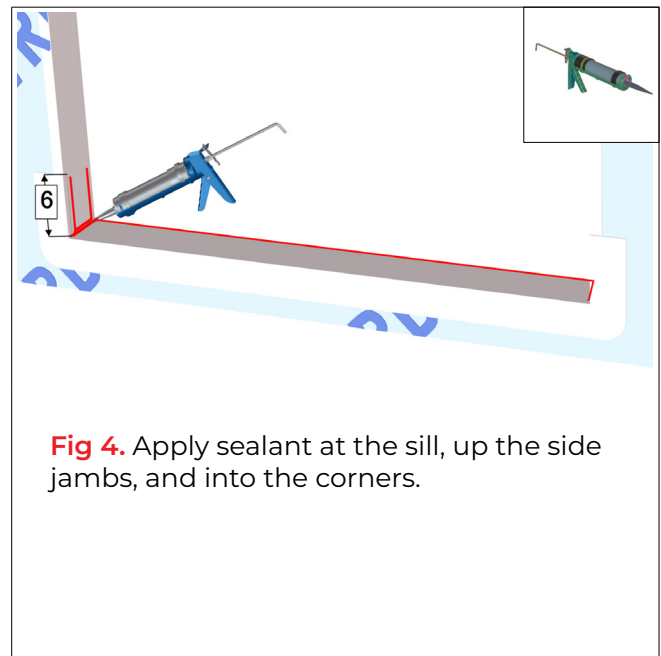
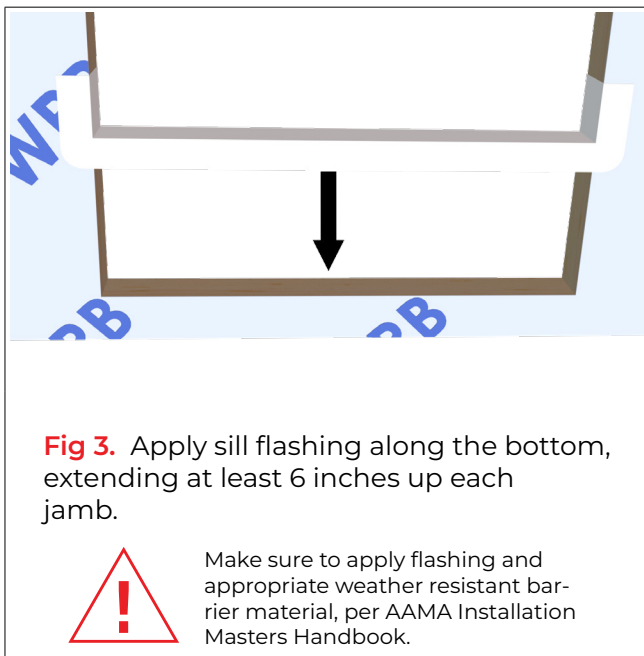
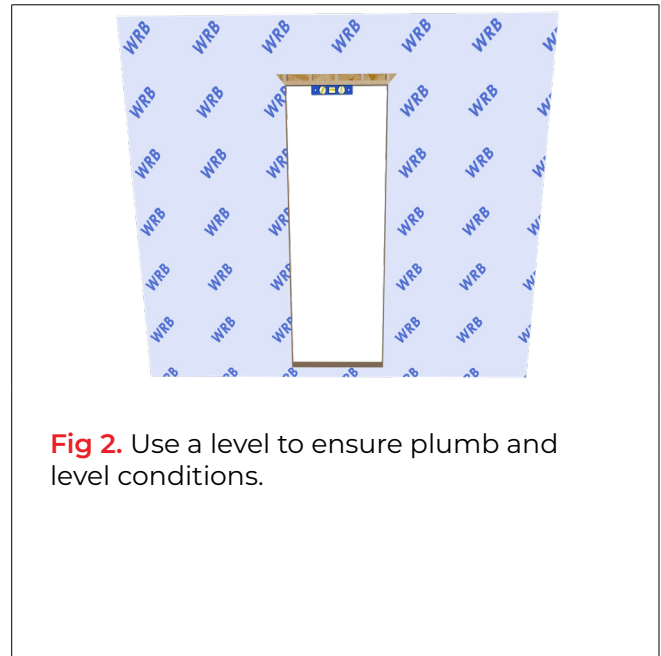
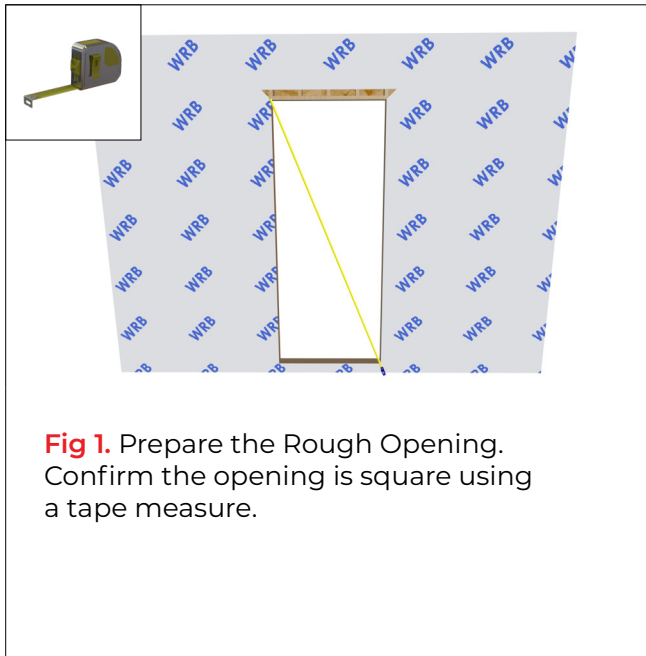


Fig 11. Test the door by opening and closing to verify proper function.

The Nail Fin installation is now complete.



EQUAL LEG INSTALLATION INSTRUCTIONS





EQUAL LEG INSTALLATION INSTRUCTIONS



Fig 5. Next, Prep the Door Frame.

Open the door to access the interior frame.

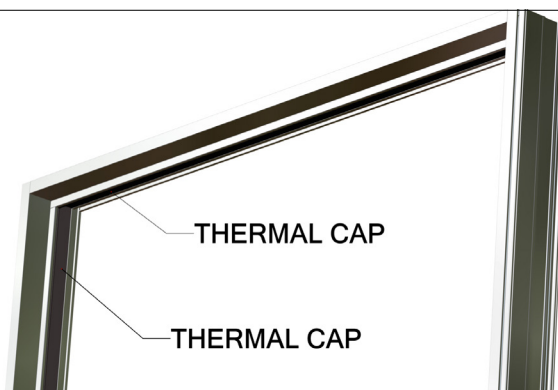


Fig 6. Remove the thermal caps on both side jambs and the head jamb (use a PLASTIC pry tool if necessary).



Fig 7. Carefully remove the thermal Caps. Take care not to damage them.

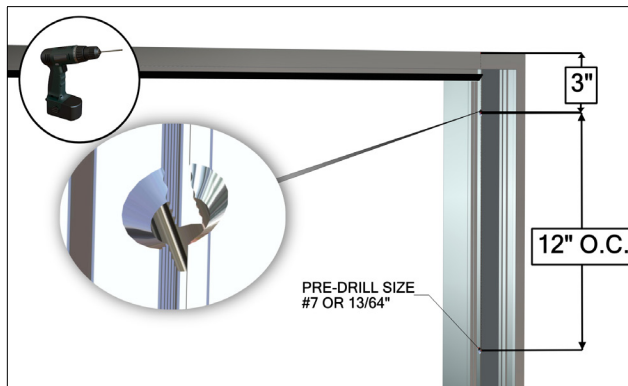
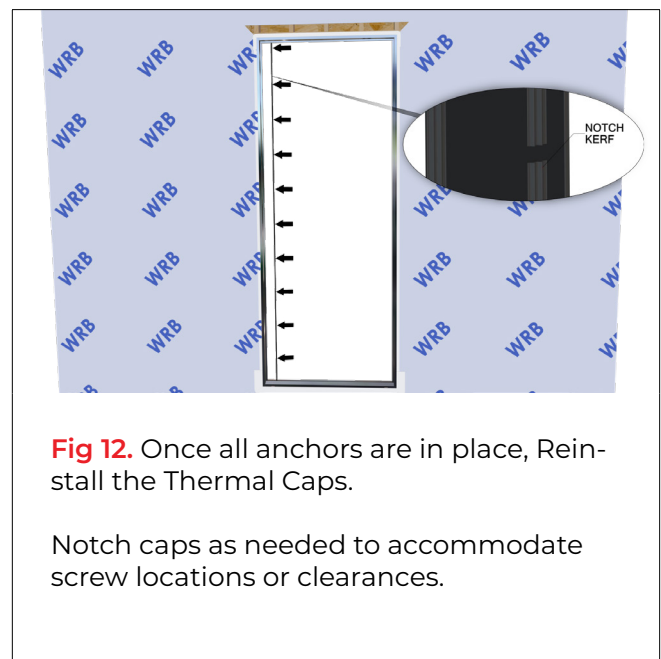
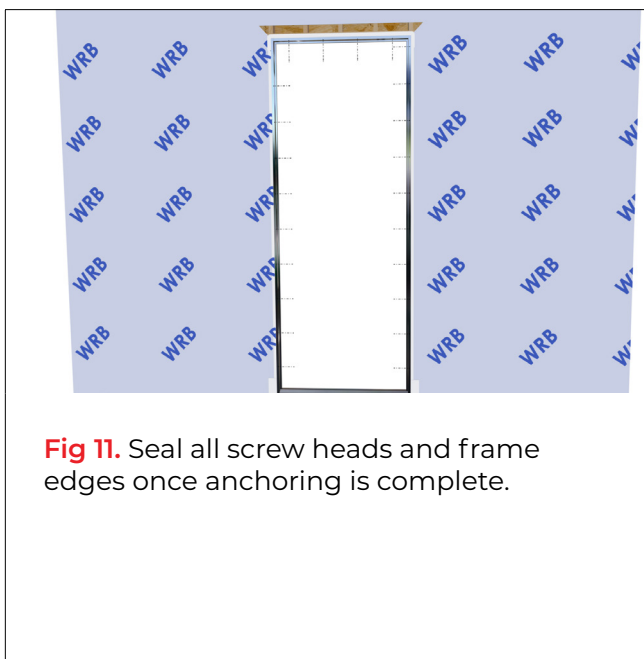
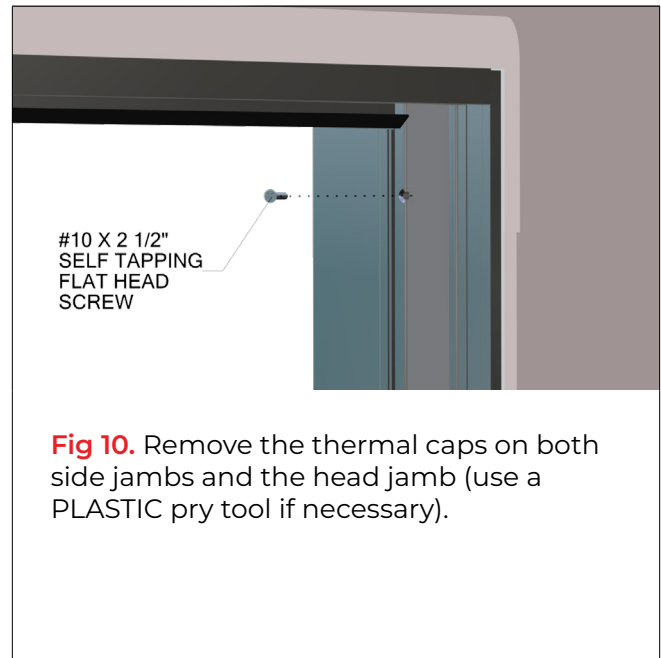


Fig 8. Pre-drill holes in the interior frame using a 13/64-inch drill bit.

Place holes 3 inches from each edge, and 12 inches apart between them. Close the door after prepping is complete.



EQUAL LEG INSTALLATION INSTRUCTIONS





EQUAL LEG INSTALLATION INSTRUCTIONS



Fig 13. Close the door and verify smooth operation.



Fig 14. Finally, Seal the Exterior. Apply backer rod and sealant around the perimeter—vertical sides and head jamb—according to standard procedures.

Equal Leg installation is now complete.



DOOR ADJUSTMENT



Fig 1. You can adjust the door for proper operation using the following steps:

Swing the door open and locate the hinges.

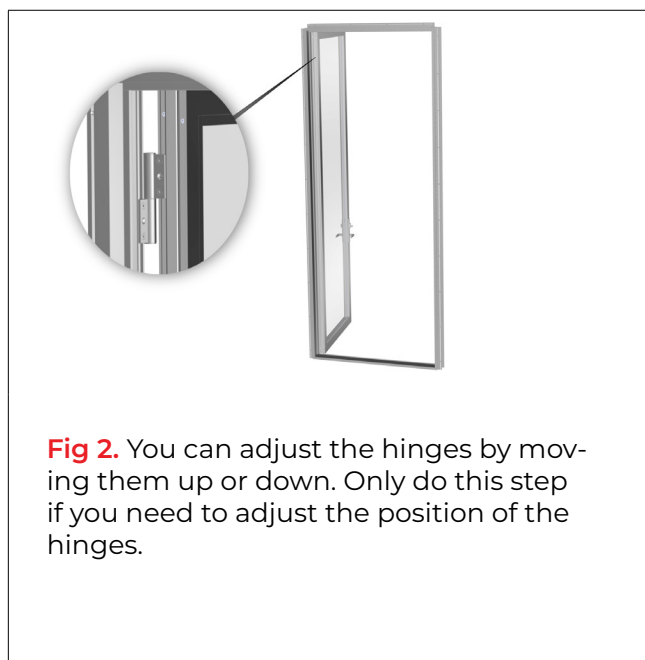


Fig 2. You can adjust the hinges by moving them up or down. Only do this step if you need to adjust the position of the hinges.

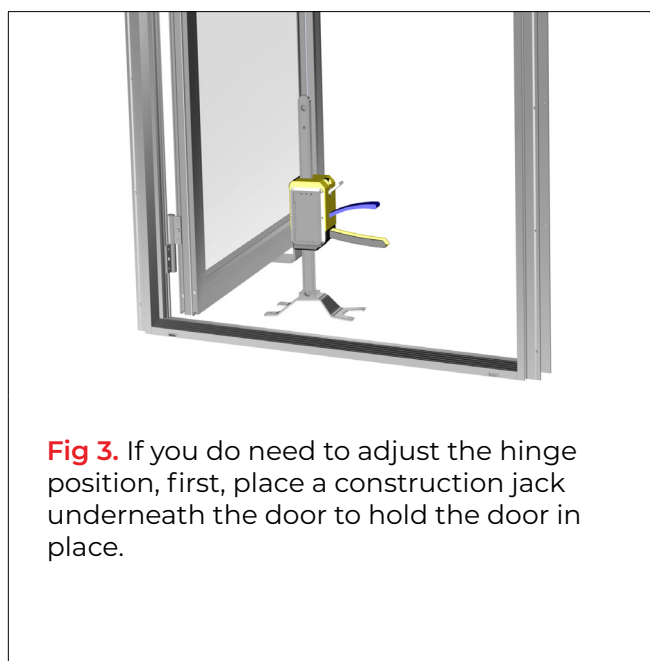


Fig 3. If you do need to adjust the hinge position, first, place a construction jack underneath the door to hold the door in place.

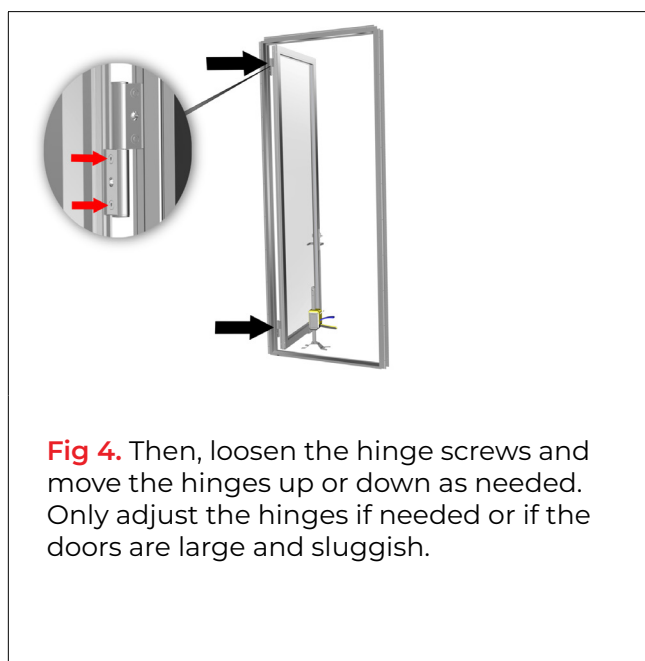


Fig 4. Then, loosen the hinge screws and move the hinges up or down as needed. Only adjust the hinges if needed or if the doors are large and sluggish.



DOOR ADJUSTMENT



Fig 5. Next, if you wish to adjust the panel up or down, close the door and continue with the following steps.



Fig 6. Locate the hinges, and remove the end caps.



Fig 7. Remove components as needed to expose the adjustment nut.



Fig 8. Use an Allen wrench to access the threaded adjustment nut inside.



DOOR ADJUSTMENT

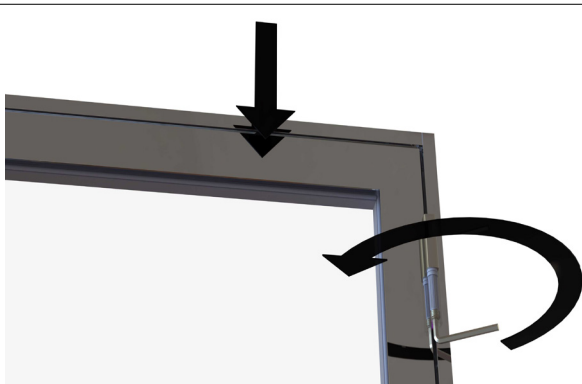


Fig 9. To lower the Panel: Loosen the nut slightly on both hinges.

Lower as needed for a tighter fit.

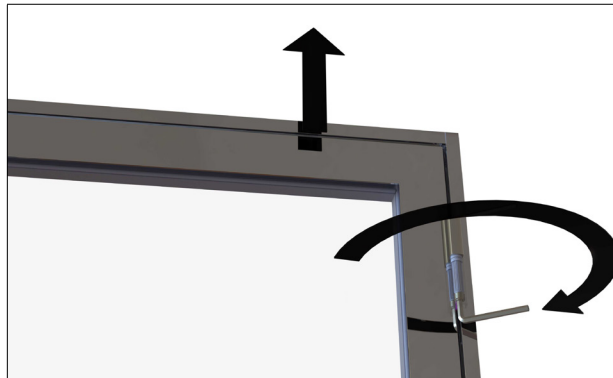


Fig 10. To raise the Panel: Tighten the nut slightly on both hinges.

Raise as needed for a tighter fit.

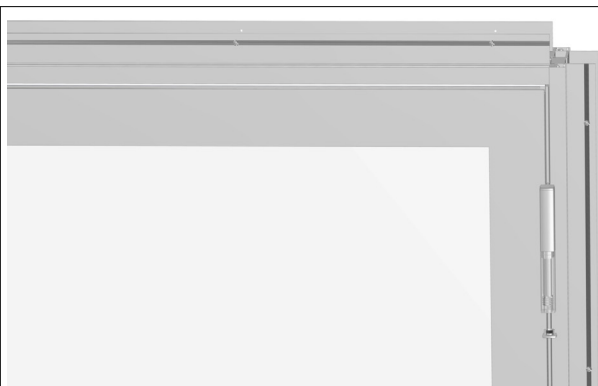


Fig 11. When finished, Re-install all previously removed hinge components.

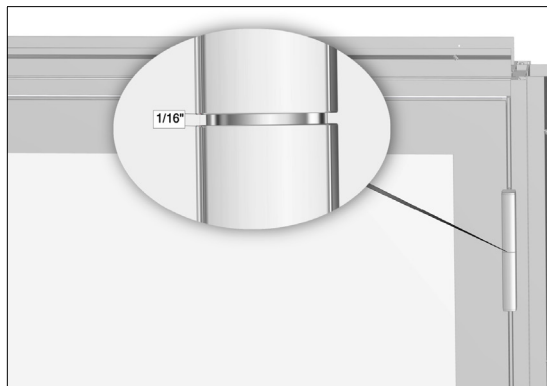


Fig 12. We recommend leaving a one-sixteen inch gap between hinges.



DOOR ADJUSTMENT

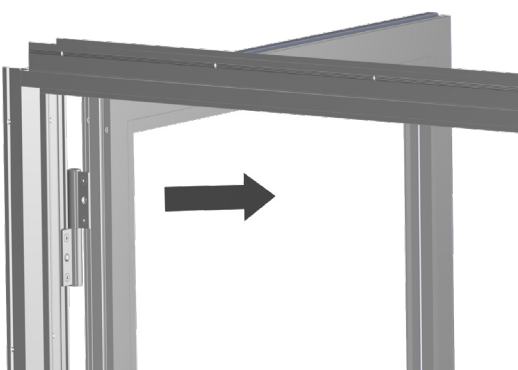


Fig 13. For a Horizontal Adjustment (Hinge Spacing), open the door panel.

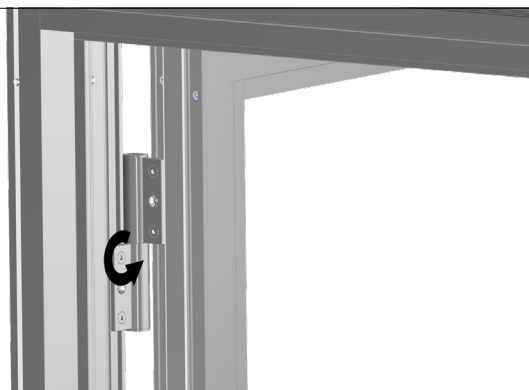


Fig 14. Next, Loosen the screws on the panel hinge that's attached to the door frame.

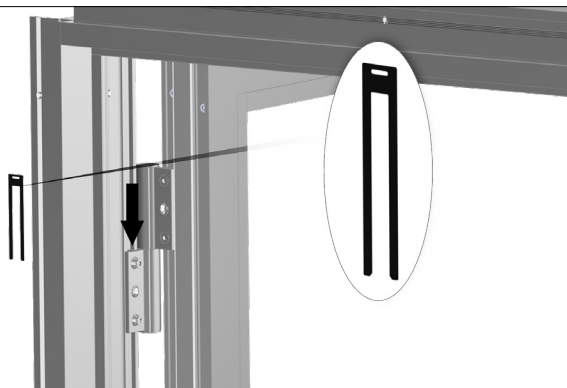


Fig 15. Insert the provided shims between the hinge and the frame.

Use as many as necessary to achieve desired spacing.

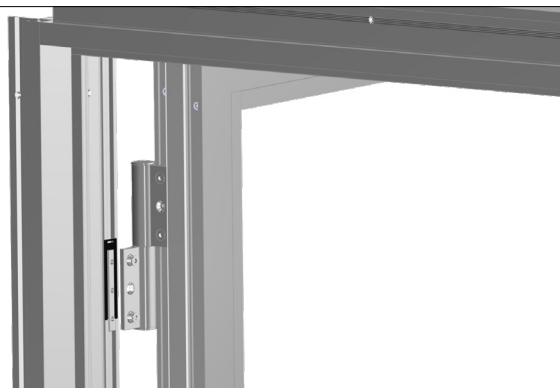


Fig 16. Fully tighten the screws once shims are in place.

Use caution not to overtighten screws during adjustment.



DOOR ADJUSTMENT



Fig 17. Test the door for a smooth operation.

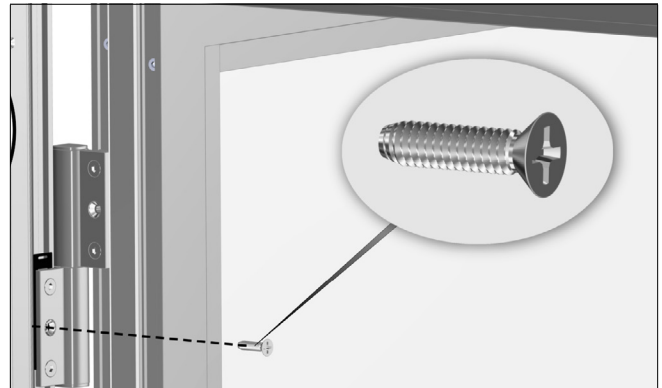


Fig 18. Once the door is properly aligned, secure all hinge fasteners using a one quarter inch by 20 by 1 inch long, Phillips flat head thread-cutting screw for metal.

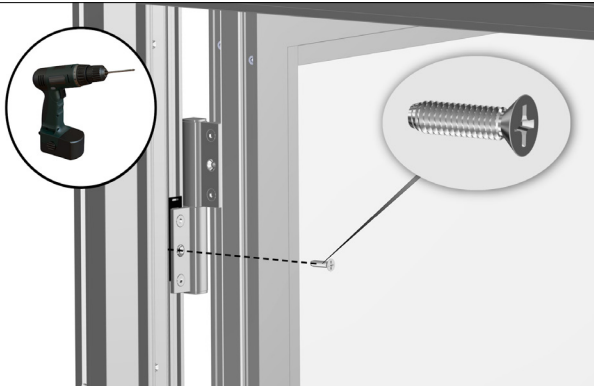


Fig 19. Before inserting the screw, pre-drill a hole using a drill gun with a number seven or thirteen-sixty-four inch drill bit. Insert the screw through the center hinge hole, and Anchor as needed.

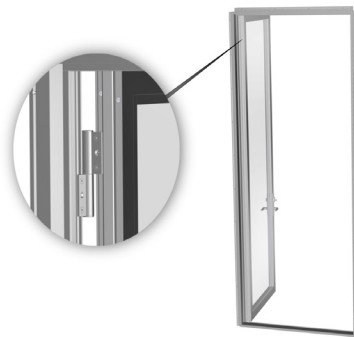


Fig 20. Open and close the door several times to confirm smooth operation.



DOOR ADJUSTMENT

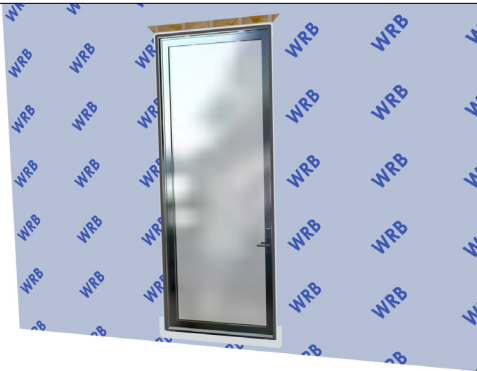


Fig 21. Ensure all fasteners are tight, sealed, and in accordance with the instruction manual.



DOOR HANDLE INSTALLATION INSTRUCTIONS

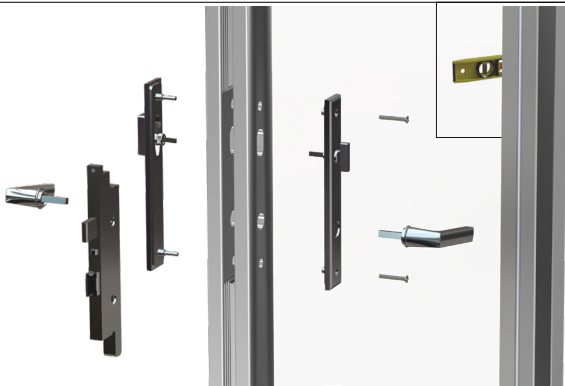


Fig 1. Locate the center edge of the door frame, and place the Door Handle parts as shown.



Fig 2. When installing the Door Handle, make sure the Lock faces the inside of the room, and key knob faces outside the room.



Fig 3. Once the handles are in place, use a Mallet to tab the Handles into place. Make sure the Handles are fully in place, but do not over tighten.

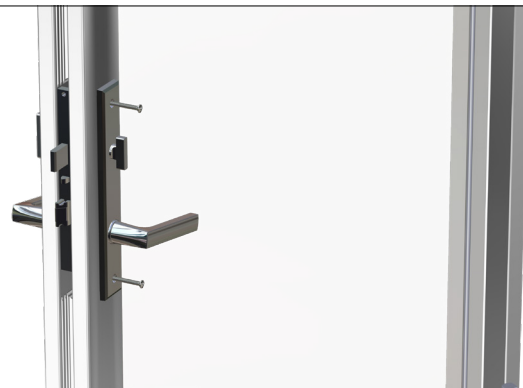


Fig 4. Next, use the screws to secure the assembly to the Door Frame. Do not over tighten the screws.



DOOR HANDLE INSTALLATION INSTRUCTIONS



Fig 5. If you overtighten the screws, the door handles might not return to their original position when opened.

Double check that the handles open and go back to their original position with ease.

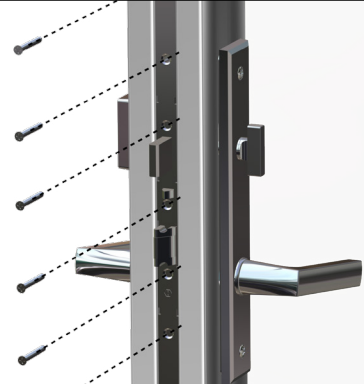


Fig 6. Finally, secure the latch.

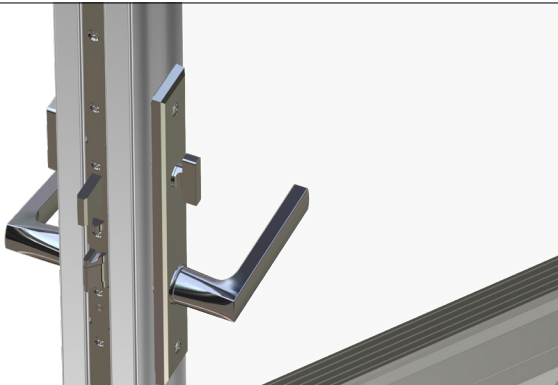


Fig 7. Do a final check and make sure the handles are working properly. If needed, loosen the screws or tighten as needed.



FINISHING INSTRUCTIONS

FINISHING

- Apply interior casing to complete installation.
- Finish all hidden wood surfaces
- Do not overload brush with stain/paint when finishing.
- Finish may wick between glass stop/grille on glass.
- Read and follow “Care, Finish, and Maintenance Guide”.
- Read and follow finishing product instructions and warnings on finishing materials

MAINTENANCE

- Do not apply any type of film to insulated glass.
- Thermal stress and glass damage can result. Shading devices (insulated covers, shutters, etc.) may also cause thermal stress and condensation damage.
- For more information regarding Maintenance contact your local Western Architectural Openings or visit www.westernAO.com

CLEANING

- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water. For more information regarding Cleaning visit www.westernAO.com.



CAUTION Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.



CAUTION Abrasive cleaners will damage glass surface.



CAUTION Metal razor blades can damage glass surface and exterior coating.



SERIES 8900 HINGED DOOR

INSTALLATION INSTRUCTIONS

Upon completion of installation, ensure all connections are tight and secure in accordance with the installation manual and AAMA Installation Masters standards. For more information, give us a call or visit us online.

We recommend all Western Architectural Openings products be installed by experienced professionals.

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WesternAO.com

08/26/26