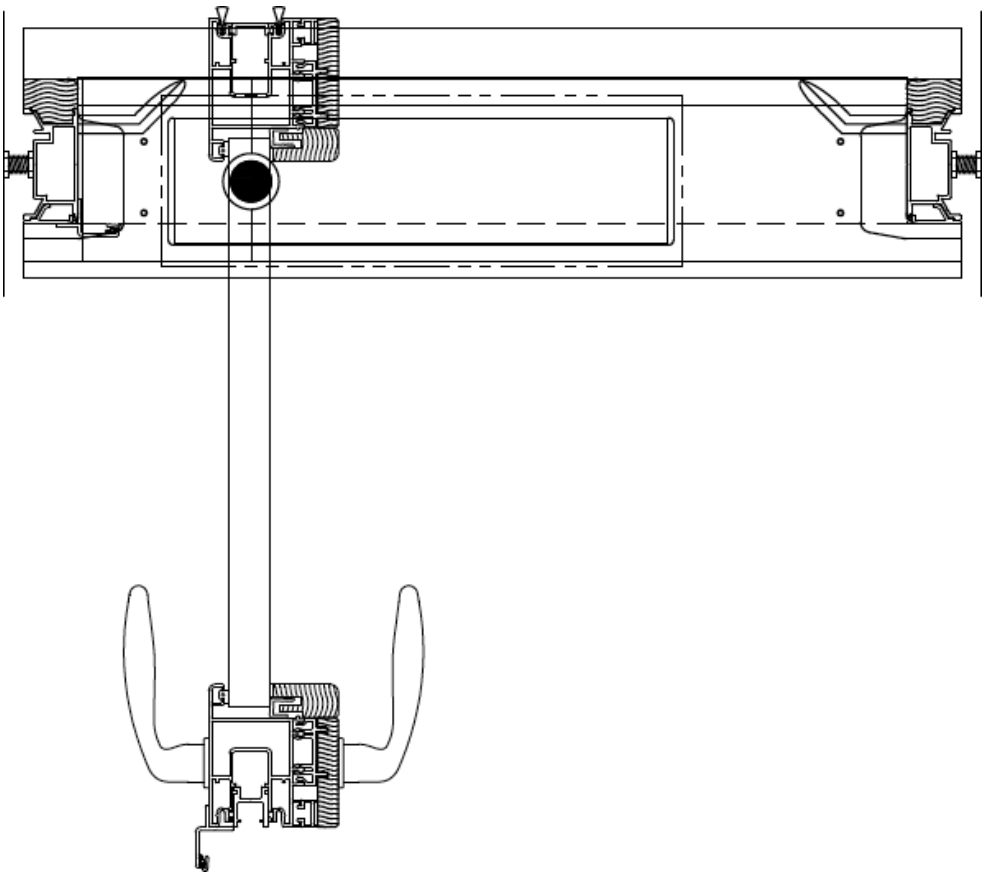
Pivot Door Installation Instructions



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Important Safety and Product Information

for Andersen® Windows and Doors

This is the Safety Alert Symbol used to alert you to potential injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Signal Word and Consequence

COULD Result in:	**WARNING** Major Injury/Death	COULD Result in:	**CAUTION** Minor Injury
COULD Result in:	***NOTICE*** Product or Property Damage		**IMPORTANT** Procedure and Product Information

Read this Important Safety and Product Information completely before starting.

Safety and Product Information Index

- Tools
- Handling
- Installation
- Sealing
- Fastening
- Finishing
- Glass
- Protective Film
- Cleaning
- Use/Operation
- Joining
- Product Information

- **Leave this installation instruction with the home/building owner**
- **For additional support or help please go to: help.andersenwindows.com**
- **To configure installation instructions go to: andersenwindows.com/installation**

Tools

WARNING

• Follow manufacturers' instructions for hand and power tools. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

Handling

WARNING

• Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry, and install window and door products. Heavier windows and doors will require mechanical assistance. Failure to do so could result in injury, product or property damage.

• **DO NOT** lift or carry window or door by the exterior trim or extension jambs. Doing so could result in injury, product or property damage.

• Windows, doors, and installation components can have sharp edges. Wear protective equipment when handling. Failure to do so could result in injury.

• **DO NOT** drag, rock, cartwheel, or walk windows, doors, sash, or panels across the floor. Doing so could result in product or property damage.

Installation

WARNING

• Use caution when working at elevated heights and around window and door openings. Follow the manufacturers' instructions for ladders and scaffolding. Failure to do so could result in injury or death.

• Support window or door in opening at all times until fully fastened. Failure to do so could result in window or door falling out causing injury, property or product damage.

• Windows and doors have small parts (e.g. hole plugs, operator spline caps, fasteners, etc.). 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.

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Installation (Continued)

NOTICE

• Andersen head flashing and installation flanges **DO NOT** take the place of window and door flashing tape or liquid flashing. Window or door must be properly flashed and sealed with a material compatible sealant for protection against water and air infiltration. Failure to do so could result in product or property damage.

• **DO NOT** set window or door directly on installation flange. Doing so could affect product performance, and could result in product or property damage.

• **DO NOT** set window directly on sill plate. Elevate window with shims under the side jambs. Failure to do so could affect operation and product performance, and could result in product damage.

• Window or door must be properly shimmed. Failure to do so could affect operation and product performance, and could result in product damage.

• A continuous full perimeter interior seal between window or door frame and opening is required. Failure to do so will affect product performance, and could result in product or property damage.

• Protect window and door sills during installation and throughout construction. Failure to do so could result in product damage.

• **DO NOT** remove window or door packaging material until instructed to do so. Doing so could result in product damage.

Sealing

⚠ CAUTION

• 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 injury, product or property damage.

NOTICE

• Clean and prepare surfaces receiving sealant following sealant manufacturer's instructions. Failure to do so could result in water infiltration causing product or property damage.

Fastening

⚠ WARNING

• Metal fasteners and components could corrode when exposed to preservative-treated or fire-retardant 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 a 1-1/2" minimum fastener embedment. Failure to do so could result in injury, product or property damage.

• **DO NOT** remove screws that attach installation clips or gusset plates to window or door frames. Doing so could result in injury, product or property damage.

NOTICE

• Use masonry screws when fastening directly into masonry or through a buck into masonry. Failure to do so could affect product performance, and could result in product or property damage.

• **DO NOT** over drive screws or nails. Doing so could result in product damage.

• Fasteners must be attached to a structural framing member. Failure to do so will reduce the structural performance to less than published values and could affect product performance, and could result in product or property damage.

Finishing

NOTICE

• **DO NOT** stain or paint weatherstrip, vinyl, glass, or hardware. Doing so could result in product damage.

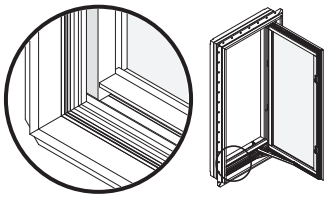
• Read and follow finish manufacturer's instructions and safety information. Failure to do so could result in product damage.

• **DO NOT** over load brush with stain or paint when finishing. Doing so could allow finish to wick between glass stop or grille, and glass.

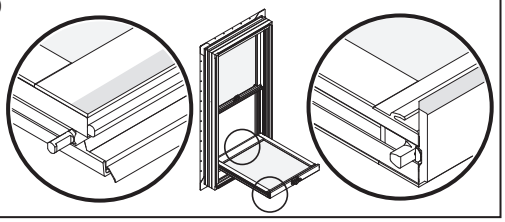
Finishing (Continued)

NOTICE

• Finish all wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and could bow or split. Some surfaces are hidden from view.



• Some products are shipped unassembled, and it may be more convenient to finish wood surfaces for these products prior to assembly and installation.



Glass

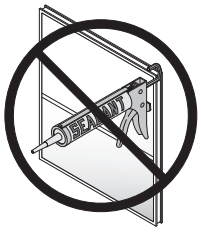
⚠ WARNING

• Unless specifically ordered, Andersen windows are not equipped with safety glass, and if broken, could fragment causing injury. Many laws and building codes require safety glass in locations adjacent to or near doors. Andersen windows are available with safety glass that could reduce the likelihood of injury when broken. Information on safety glass is available from your local Andersen dealer.

• Tempered or laminated safety glass is not standard for windows and must be special ordered. Check local building codes for required locations. Failure to do so could result in injury, product or property damage.

NOTICE

• **DO NOT** apply any type of film to insulating glass. Doing so could cause thermal stress conditions and result in glass damage. Shading devices (e.g. insulated coverings, shutters, etc.) could also cause thermal stress and condensation causing deterioration of windows or doors.



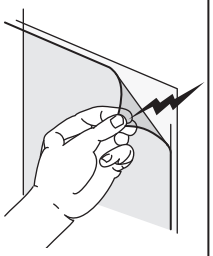
• **DO NOT** use sealants on exterior or interior glass surface.

Protective Film

⚠ WARNING

• **DO NOT** place suction grips over film seams on glass. Suction grips will not hold if placed over film seam to lift or move window or door. Window or door will fall and could result in injury, product or property damage.

• **DO NOT** remove any protective film near flammable materials. Static charge created when removing film can ignite flammable materials or cause a shock. Doing so could result in injury, product or property damage. **See warning label on glass.**



• Dispose of protective film immediately after removing. Failure to do so could pose a suffocation hazard to children.

NOTICE

• **DO NOT** remove protective film from glass until after construction is completed. Doing so could allow glass to be damaged.

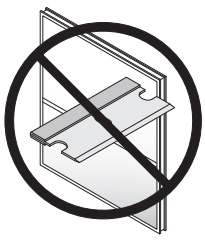
• Remove protective film from non-glass components immediately after installation. Failure to do so could result in product damage.

Cleaning

NOTICE

• Acid solutions used for cleaning masonry or concrete will damage all components of window or doors. Protect window or door and follow cleaning product manufacturer's instructions. If acid contacts window or door, wash all surfaces immediately with clean water.

• **DO NOT** use or apply solvents, abrasives, harsh chemicals or cleaners to window or door components. Doing so will result in product damage. For a list of recommended cleaners go to: andersenwindows.com



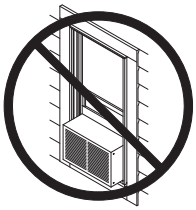
• **DO NOT** use metal razor blades to clean glass surface. Glass damage could result.

Use/Operation

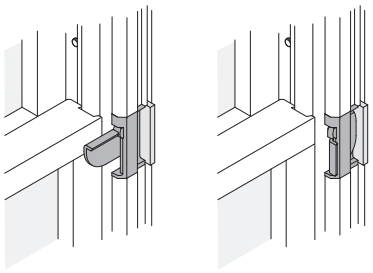
⚠ WARNING

• **DO NOT** stand in front of or near windows or doors during a storm. Doing so could result in injury. Accessories such as grilles, art glass, and insect screens could dislodge and become airborne if window or door is impacted by wind-borne debris from severe storms or hurricane strength winds. In the event of a storm, remove all accessories from windows or doors and move to a safe location.

• **DO NOT** install air conditioner in window. Doing so could result in injury, product or property damage.



• Wind load brackets must be flipped out when not tilting or cleaning. If wind load brackets are not flipped out, window could blow in resulting in potential injury and/or product damage.



Flipped Out Flipped In

⚠ CAUTION

• **DO NOT** attach objects or accessories to window or door except Andersen® products specifically designed for the window or door. Doing so could result in injury, product or property damage.

Joining

⚠ WARNING

• **DO NOT** join any window or door, horizontally or vertically, to any window or door not designed for joining. Doing so could result in injury, product or property damage.

• Joined windows or 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.

Product and General Information

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**

• Instructions may not be right 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.

• Installation flanges may need to be removed for some installations. (e.g. masonry, replacement), or where exterior finish is already applied (e.g. siding, brick veneer, stucco).

• Installation flange on the window or door alone will not properly flash and seal the window or door.

• **DO NOT** remove band, plastic ties, or packing clips from window or door until instructed.

• **DO NOT** remove performance (NFRC) label until after final inspection. Doing so could delay final inspection and sign-off by the code official.

• Check with your local building code official to identify and confirm compliance with local building code requirements.

• Contact local authorities or waste management company for proper recycling and disposal instructions for removed window or door.

• For cleaning instructions for window and door components go to: andersenwindows.com.

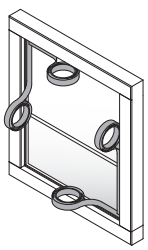
• During construction protect products from construction debris, harsh chemical such as brick wash, roof runoff, and cement/masonry which can cause damage to window and door products.

• Protective film is not present on all windows or doors. Protective film is not a substitute for masking.

• Remove protective film from glass within six (6) months of installation and when temperature is above 32° F.

• Remove protective film by peeling from seam or corner. Use a plastic scraper to start if needed.

• Extension jambs can be factory applied on some windows or field applied prior to installation. **DO NOT** apply extension jambs prior to window or door installation that will be fastened with installation clips. Doing so could prevent access to installation clips for fastening.



• For extension jamb application refer to instructions included with part(s) or go to: **andersenwindows.com**

• Use painters masking tape for protecting products during construction. Avoid using duct or packaging tapes.

General Product Information
And Installation Site Specifications

The following instructions are one method for installing your Pivot Door system. There are numerous variations to the following instructions such as system configuration, site conditions, local building codes, and exposure levels that will dictate how the units you have purchased are ultimately installed.

Document Use – Information in this document assists in the construction of the rough opening. It does not constitute actual wall fabrication, construction, or material recommendations. This document identifies considerations that must be taken into account in the construction of the rough opening. Andersen has no obligation to perform any on-site inspection, before, during, or after construction and installation.

Code Compliance – Compliance with all applicable laws, ordinances, building codes, and safety requirements with regard to Andersen specifications or use of the door is the responsibility of the architect, building owner, installer and/or contractor.

Product Protection – Store the door and any accessories off the ground, fully supported, under cover, protected from weather and construction activities. Take special care to protect all uncartoned components. Continue to protect door from construction activities and floor traffic after installation.

Construction by Others – Andersen is not responsible for conditions in or performance of the building construction adjacent to and beyond the perimeter of the door. The method of attachment for the door to the building structure and the fastener selection is the responsibility of the architect, building owner, installer and/or contractor. In door replacement situations, Andersen is not responsible to inspect the site or door rough opening to approve the structural integrity of the existing rough opening, header load carrying capabilities, or overall rough opening fitness for door installation.

Your Door System

Your particular configuration may be different than the example used, but these instructions and your shop drawings will provide you with the information you will need prior to the arrival of your door(s).

Verify you have the final approved shop drawings. Final approved shop drawings and installation instructions are necessary reference documents during the installation of the floor and rough opening preparation. Your job specific drawings contain information that will be required when reading this manual. If you do not have a copy of the approved shop drawings please contact your dealer directly to obtain a copy.

Important To Know
Precise measurements are critical to the success of the unit installation and long-term performance.

Delivery & Arrival
Pivot Door systems are delivered on a truck or by common carrier. With a common carrier, the system components are crated. All components are securely wrapped and protected during shipment.

Unpack & Organize
Place the component bundles near the rough opening so they don't get moved unnecessarily. Locate final approved shop drawings, installation instructions and all recommended tools.

Unwrap and inspect all components for damage or for missing parts. If there is damage, take pictures and write comments on the carrier's paperwork before they leave the jobsite and please let your dealer know immediately.

Contact Customer Service at 760.722.8828 with questions.

Rough Opening Preparation

Confirm the dimensions of the rough opening match those identified in the approved shop drawings. Any materials added to the opening must be structurally attached. In the event that the opening is larger than the approved drawings, adjust the opening accordingly. Additional materials added to the opening must be attached structurally. It is important to maintain the ½" shim space for jacking screws.

Confirm the structure above the header line is fully loadedwith building materials.

Confirm the mounting surface of the header has satisfactory support. Any sagging or deflection must not exceed 1/8" over the entire opening. Adjust as necessary

Confirm the side jamb mounting surfaces have satisfactory support for the supplied materials.

Confirm the rough opening is plumb, level, square.

Confirm the appropriate sill pans and window/door flashing are installed per local building codes and your weather exposure levels prior to installation.

Please refer to the list of recommended tools and supplies needed to complete the installation.

Recommended Tools & Supplies

- Final approved drawings and installation instructions
- Safety Glasses
- Plumb Laser
- Level
- Adjustable Wrench
- Drill/Driver
- Plastic Chisel
- 6mm hex key
- Variety of waterproof horse shoe shims
- Glass suction cups
- Caulking Gun
- 7/8" Foam Backer Rod
- Sealant
- 1/2" inside diameter tubing (High Performance Sill only)
- The required installation fasteners per your jobsite condition
- #3 Phillips long handle screwdriver

Installation Fastener Chart

IMPORTANT

Due to varied installation techniques and substrates, fasteners to secure the frame to the rough opening are not provided. The fasteners required depends on your particular construction substrate and local building code.

Substrate	Screw Type	Embedment
Wood	#10 Wood Screw	1 ½" Minimum
Concrete/ Masonry	#10 Gr. 5 SMS	1 ½" Minimum
Metal Stud	3/16" ITW Tapcon	Minimum 3 threads beyond metal structure

Jacking Screws & Fasteners
Jacking screws are used to adjust the position of the head and jambs and come pre-installed. The head and jambs are pre-drilled and countersunk for #10 flat-head screws. Stainless steel screws are recommended for all other uses. Predrilling is required.

Layout
Determine how your system will finish out in the opening in relation to flooring, architectural features, wall finish material etc. Always keep the approved shop drawings on hand for reference.

Start Installation

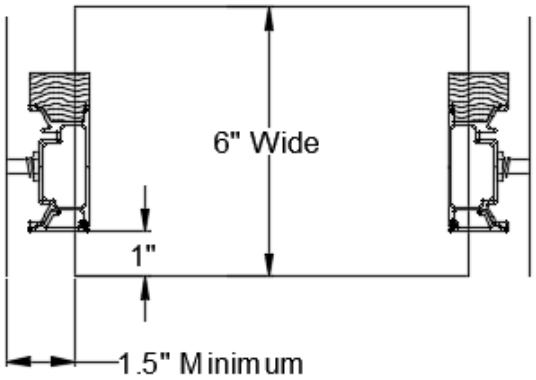
IMPORTANT
Your floor thickness, finish floor elevation, trim details, jobsite conditions, etc. may vary. Verify all your dimensions and make sure that your specific systems are set to your unique jobsite conditions.

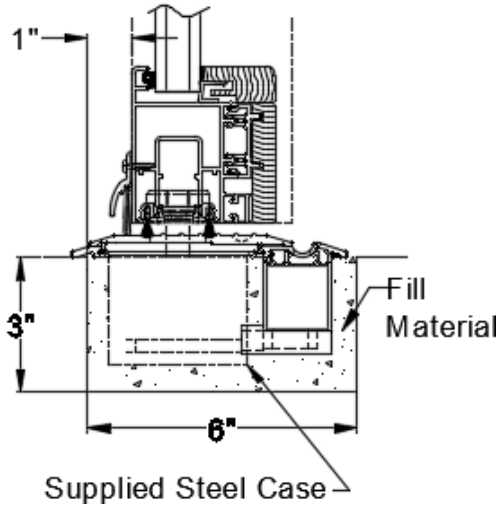
Creating Space for the Sub Sill Components
Dry fit the frame into the opening to determine the exact location of the depression in the floor that will be needed for the closer box and drain rail if using a high performance sill.

All the dimensions that follow in this section are relative to the location of the frame.

For Units with a High Performance Sill
Prepare a 6” wide by 3” deep cavity. The cavity should run the length of the opening but start and end at least 1 1/2” minimum from the RO framing. The front edge of the cavity must be 1” past the exterior edge of the jamb.

High Performance Sill Prep:

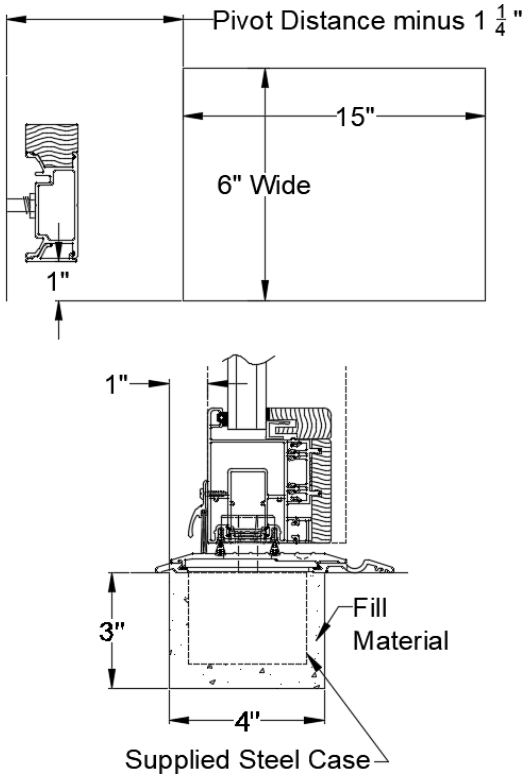




For Units with a Standard Sill

Prepare a 4” wide by 3” deep cavity that is 15” long. From the rough opening, the cavity should start a distance equal to the pivot distance marked on your approved drawings minus 1 1/4” from the jamb closest to the pivot point (except in the case of a center pivot). The front edge of the cavity must be 1” past the exterior edge of the jamb.

Standard Sill Prep:



Installing the Frame into the Rough Opening

Remove the frame from its packaging and place it in the rough opening.

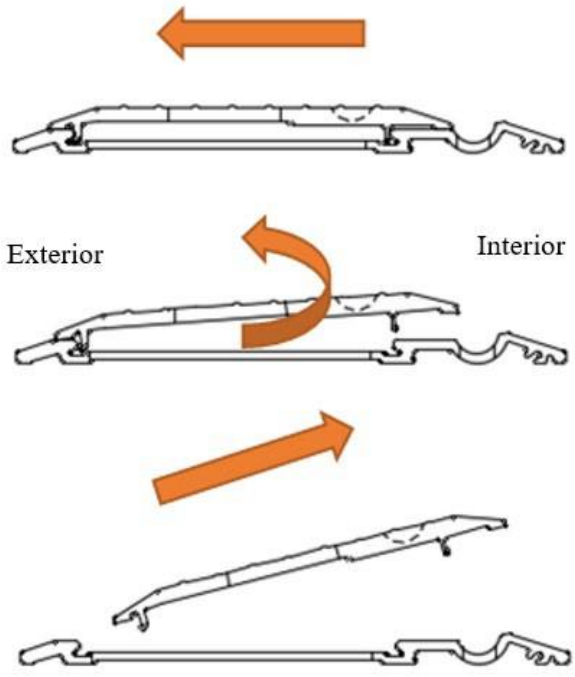
Use a 6mm hex key and a level to adjust the jacking screws so the frame is plumb, level, and square in the opening. The diagonal measurements across the frame should be within 1/8”. Adjust as needed. The bottom of the threshold should be finish floor height.

Once the frame is square, use #10 flat head fasteners (not included) to secure the frame to the rough opening. Drill pilot holes to correct depth for your fastener through the jacking screws into the rough opening.

The maximum spacing that the jacking screw can accommodate is 1/2”. If your shim space is larger than recommended, a pad of plywood can be installed between the rough opening and the jamb or head. Keeping the 1/2” jacking screw space is important for future adjustment of the door. Confirm that the jacking screws are seated correctly against the rough framing and they have enough length to be an effective shim. If applied, make sure to secure the pads in place so that the mounting screw that goes through the jamb or head does not hit any nails or screws holding the pad in place. Use the included story pole to check proper frame height.

Remove the Top Threshold Plate

To remove the top threshold plate, push it towards the exterior, lift the interior edge up with a plastic chisel, then pull the plate towards the interior and out of the opening (see below).



IMPORTANT

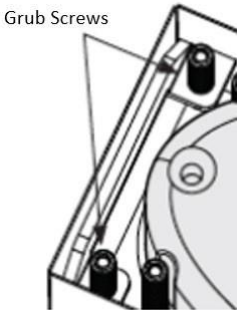
If your system uses a drainage track, you will need to connect all drains with 1/2” i.d. drain tubing to your outside weep or drainage and should be sloped a minimum of 1/8” per foot. The tubing is available at hardware stores.

Aligning the Closer

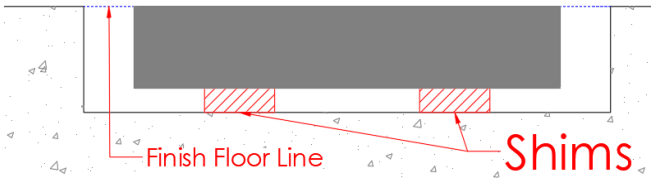
NOTICE

Do not use power tools to adjust the walking beam pivot. Power tools could damage the adjustment mechanisms beyond repair.

Place the closer in the closer box and center it. Adjust the grub screws to lock the closer in place.

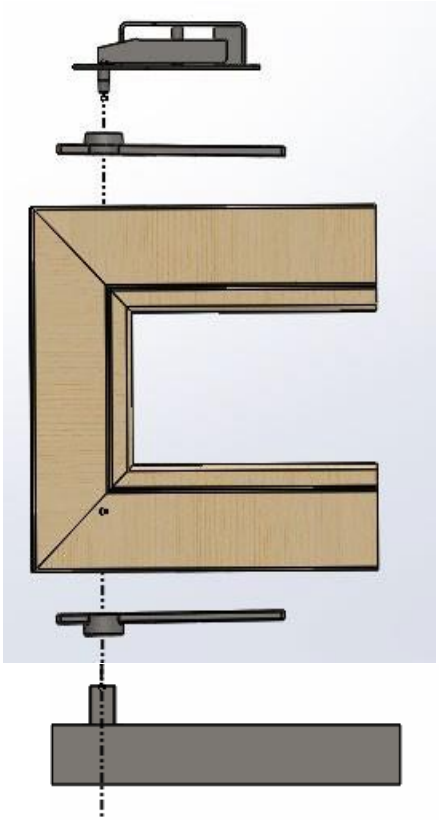


Shims can be inserted between the edge of the box and the closer to keep it locked and centered. Support the bottom of the steel closer box with shims and level the box in preparation for concrete. The top of the closer box should be level with the finish floor and the bottom of the sill.



Position the bottom spindle roughly under the top spindle. Using a #3 screwdriver, adjust the screw closest to the spindle (2) to drop the spindle all the way down. Using the adjustment screw further from the spindle (1), move the spindle to the center line marked on the face so the spindle is in the same position as below

Position a plumb laser directly on the top spindle and move the closer until the bottom spindle is centered on the plumb laser. Make sure the closer box is square in relation to the threshold. The closer spindle and top spindle need to be exactly in line before the closer box is secured so the panel lines up correctly as shown below.



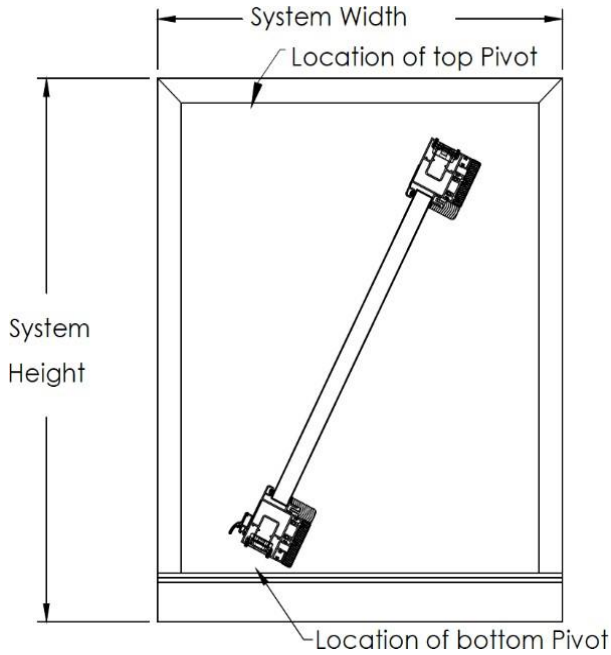
Securing the Closer to the Floor

Dry pack the closer into the floor without moving it from its position aligned with the top pin. After the dry pack product has fully cured and the closer box is structurally supported, use a 3/16" hex key to make sure the bottom spindle is screwed tightly to the closer. Use an adjustable wrench or locking pliers to position the spindle at the 90 degree detent (if applicable).

Installing the Panel

Panels come assembled as a single unit with hardware and glass installed, unless it is requested without glass. Each panel comes protected with cardboard and plastic wrap. In the case of a multi panel system, consult the included shop drawings for proper panel orientation and placement.

Before installing the panel, turn the adjustment screw (2) on the top walking beam pivot counterclockwise until the top spindle is fully retracted into the head. Use a pencil to mark the location of the top and bottom pivot arm on the face of the panel. Make sure any locks or shoot bolts are fully retracted before bringing the panel into the opening to avoid damaging the frame. Bring the panel into the frame opening perpendicular to the frame and at a diagonal angle.



Position the bottom pivot arm under the bottom spindle using the mark made earlier. Slide the bottom pivot arm onto the bottom spindle and tilt the panel upright.

Position the top pivot arm under the top spindle using the mark made on the panel earlier. Using the adjustment screw closest to the spindle, lower the top spindle into the top pivot arm until it is fully down and seated in the top pivot arm. Support the bottom corner of the panel furthest from the closer to ease alignment. Using the second adjustment screw, adjust the top spindle until the panel sits plumb, level and square in the frame opening. Check for proper 1/4" reveal between the panel and frame in the closed position

NOTICE

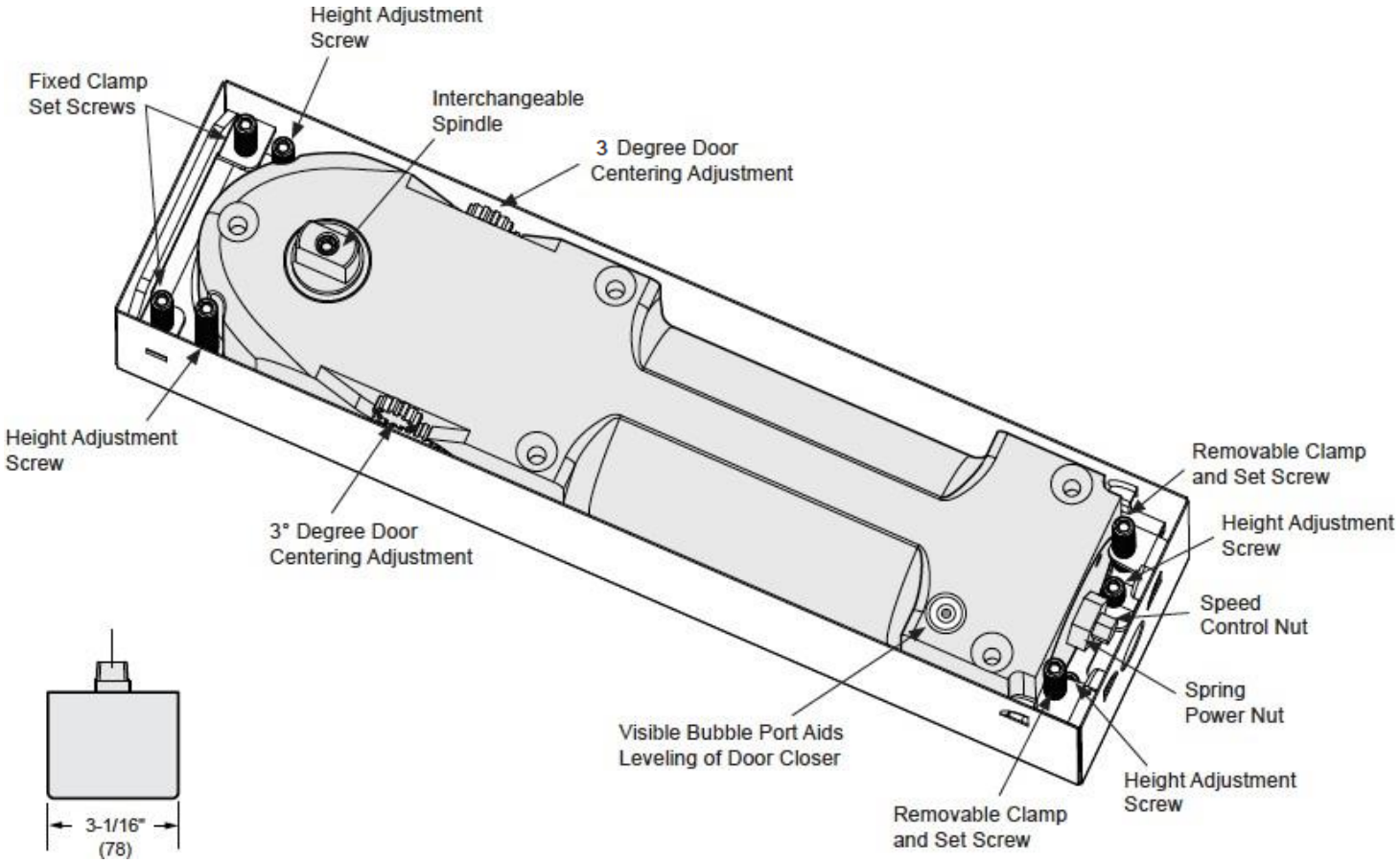
Proper panel to frame reveal is critical for air and water performance level, as well as proper door functionality. Improper reveal between panel and frame may cause weather seal failure, product damage, or hardware malfunction

IMPORTANT

The water performance levels are achieved by connecting the drain tubes to a 1" PVC manifold with a 'flapper style' PVC check valve. The style of drainage you use is dependent on your site conditions. Proper slope must be maintained for any drain system. As a general rule, connecting drain tubes together without increasing the drain diameter can impede flow. A check valve will help reduce any water or air backflow.

⚠ WARNING

Secure the panel until it is square in the frame and the closer is properly adjusted for speed and power (you can't adjust if the panel is secured). Failure to do so may result in injury, product or property damage.

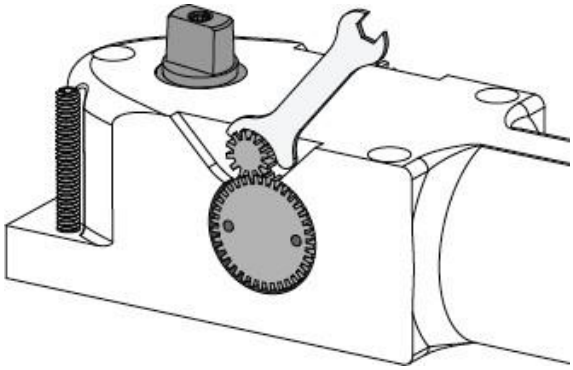


Adjusting the Closer

The closer has both speed and power adjustments. Use both supplied wrenches to make adjustments to the control nuts. One will be used to keep both control nuts from turning when adjusting speed or power independently.

Reinstall the top plate by snapping it into place and test the panel for speed. The door should take 5 to 7 seconds to go from a 90° open position to the closed position.

After adjusting for proper speed, check that the door latches on its own. The side adjustment gears on the closer can help the panel latch as opposed to changing speed and power. Only adjust 1/4 turn at a time. If large temperature changes occur, the closer may need to be re-adjusted for speed and power.



NOTICE

The closer has 3 degrees of adjustment in or out. Attempting to adjust beyond that could result in permanent damage to the closer. If more adjustment is needed the closer can be moved within the box.

NOTICE

Before finishing installation, check all latches, locks, and deadbolts for proper function, alignment and engagement. Improper function, alignment or engagement could cause product damage, weather seal failure, or cause the door not to lock securely.

NOTES

The exterior floor must be sloped away from the interior. A general guideline is 1/4" per foot starting at the exterior of each panel surface. Check with local building code requirements in your area.

Be sure to protect the sill plate and sub-floor assembly in a way that keeps backfill material, glue, grout, etc., out. Never allow a panel to close over the sill plate or roll over glue, grout, and concrete that may be stuck on the bottom plate.

You may wish to have the flooring contractor backfill the sub floor depression. This determines what spacing they will need to give the finished flooring, and how to get the flooring to the correct height. Also, it enables them to determine what will be required to complete the installation of the flooring system.

Most customers use a grout or high strength concrete to fill the sub floor depression. Be careful not to damage the track surface or drainage.

NOTICE

Do not use expanding foam between the rough opening and the system head track. The space between the rough opening header and the system head track should be filled with standard insulation or something that can be compressed for adjustability. Failure to do so may result in product or property damage.

"J" metal may be run between the finish work and the system. This will allow adjustments upward without doing any damage to the surrounding finish work. The "J" metal should be installed near the head track and side jambs but not in contact with them. There should be a sealant joint between the "J" metal and the head track and side jambs in order to allow adjustment.

System protection

Protect this system as you would any expensive items on the site. There are several sources of potential damage to the Pivot Door system. See the limited warranty for additional information.

Stucco – etches the finish on the aluminum, stains the wood, and clogs the drains.

Drywall – stains the wood, clogs the drains and gums up the closer.

Wheel barrows – can bend the bottom plate and scratch the jambs and doors when they rub the sides. If you must use this area, it's a great idea to build a bridge over the bottom plate to protect it.

Adhesive Tapes – adhesives can chemically release finishes. Use painter's tape to protect your painted surfaces. Painter's tape should not remain on the surface for more than 7 days as noted on the package.

Wood – if left unsealed, could cause swelling, shrinking and finish distortions that could prevent proper operation of the door. All wood parts must be sealed immediately following delivery. See Buyer's Preparation and Care Obligations.

Protect the Glass

Don't cover glass with plastic tarps or anything that can blow in the wind.

Cleaning

Rinse contaminants off the surface with clean water. After the panels have dried, apply a high quality car wax to all non-wood surfaces to help maintain the appearance.

Gaskets and contact surfaces should be cleaned as needed. Use a damp cloth to remove dirt and dust.

Wood should be maintained as directed by the finisher.

Routine Annual Maintenance

Proper maintenance includes, but is not limited to, lubricating locks and moving parts regularly, as well as keeping surfaces clean and waxed. In corrosive environments near the ocean or around swimming pools, it might be necessary to frequently clean and lubricate the doors. Sand and other debris can enter and disrupt the closer mechanism.

Special Notes for Saltwater Environments

The best way to protect doors and windows in this type of environment is to rinse them with clean water as often as possible (daily if necessary) and to wax all surfaces (exterior wood or aluminum, locks, handles, etc.) with a good quality automobile wax every two to four weeks. Pay particularly close attention to small seams and corners where corrosion can start.