EURO-WALL®

SUPERIOR BY DESIGN.

VISTA CT™
INSTALLATION GUIDE

Vista Casement Thermally Broken

MANUFACTURING

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SHOWROOM

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Important
Before beginning the install, read the instructions in their entirety. Perform install using the recommended methods contained within this guide. Deviating from recommended install procedures could impair functionality and could void any warranty.

Caution
It is the obligation of the building owner, contractor, architect or installer to ensure that window systems being installed comply with all building codes and regulations pertaining to the install location. Euro-Wall Systems, Inc. assumes no responsibility for failure to meet applicable laws, ordinances, building codes, etc.

Description of Supplied Parts
Upon delivery please inspect for any noticeable damage and check supplied materials with included packing list. If there is any damage and / or any missing components, please contact Euro-Wall as soon as possible. For installs with multiple opening units, do not mix and match any components even if the units are the same dimensions.

Protection of Unit During Construction
It is important that during the construction phase the window system components are protected and covered in a clean dry location away from any factors that could cause damage. Window systems that are stored during the construction phase can often times be exposed to situations that can cause permanent damage such as cement splatter, tar, paint,weld spray, falling objects, construction dust, sandblasting, etc. After installation of the window system is completed and construction is still being performed, ensure that the large opening where the window system is installed does not become a major in and out access point for contractors and subcontractors. Damage done during the construction phase can be irreparable and can cause significant setbacks with new sashes needing to be constructed.

Considerations Before You Get Started
Space: Make sure you have the appropriate working space in and around the install opening. It is best practice to assemble the frame on top of saw horses (using at least four, one for each corner), therefore, make sure you have adequate room to assemble the frame in the area around the opening. Additionally, leave plenty of room without clutter to maneuver sashes during install.

Power: Ideally power should be connected and accessible for tool operation and to ensure optimal lighting conditions for the install.

Moving Sashes: Never “walk sashes” and never try to move sashes with only one person. Always lift and move sashes by hand or using glass suction cups using at least two people. For installs less than 8’ in height, use a minimum of two installers. For sashes over 8’ tall, a team of four is recommend for the install.

A. Tools Required

Step A.1 - Tools Checklist

Please make sure you have all of the required tools listed below before performing the install.

- ✓ Screw guns and chargers
- ✓ Extension bits Phillips #2 / #3 for tapcons
- ✓ Drill bits for steel, concrete and wood
- ✓ 11/64" and 1/4"drill bits
- ✓ 3/8” and 3/4” drill bits
- ✓ Hand screwdrivers (Phillips #2 and #3)
- ✓ Rubber mallet
- ✓ SDS gun
- ✓ Laser level
- ✓ 2’, 4’ and 6’ levels
- ✓ Pencil
- ✓ Chalk line
- ✓ String line (for measuring square)
- ✓ File
- ✓ Pliers
- ✓ Channel locks
- ✓ Snips
- ✓ Utility knife
- ✓ Saw horses (min 4)
- ✓ Glass cups for moving sashes (min 4)
- ✓ Shop-Vac
- ✓ Broom / dustpan
- ✓ Garbage can / garbage bags
- ✓ Copy of install guide
- ✓ 2.5mm allen key

Step A.2 - Disposables Checklist

Please make sure you have all of the required tools listed below before performing the install.

- ✓ Tapcons (if drilling into concrete)
- ✓ Screws for installing frame into substrate
- ✓ Caulk / sealant
- ✓ Lubricant / wax
- ✓ Shims
- ✓ Backer rod
- ✓ Sill pan (width of the opening plus extra for play)
- ✓ Windex / glass cleaner
- ✓ Clean rags
- ✓ Paper towels
- ✓ Cardboard / moving blankets

Step A.3 - Labor Checklist

Please make sure you have the adequate number of installers

- ✓ For installations with sashes under 8 feet, recommended minimum of 2 installers
- ✓ For installations with sashes over 8 feet, recommended minimum of 4 installers

B. Parts / Pieces Included

Below you will find a summary of the parts and pieces that are included with the window system. For a comprehensive checklist please see the packing list included with your order.

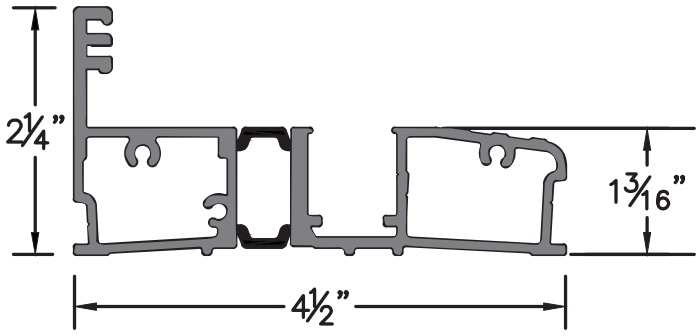
Step B.1 - Frame Checklist

- ✓ Jambs (2)
- ✓ Header (1)
- ✓ Frame weatherstripping *see* ***Figure B.2***
- ✓ Sill (1) - standard
- ✓ Mull Link - Multi-units Only

Step B.2 - Sash Checklist

- ✓ Sash weatherstripping small - *see* ***Figure B.2*** *to distinguish between the two different weatherstripping types*
- ✓ Sash weatherstripping large - *see* ***Figure B.2*** *to distinguish between the two different weatherstripping types*

FIGURE B.1: SILL



Standard Sill

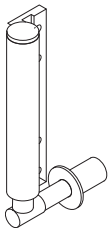
FIGURE B.2: SASH WEATHERSTRIPPING PROFILES

Sash Weatherstripping Large "Large P Weatherstripping"

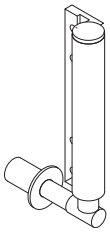
Frame Weatherstripping

Step B.3 - Hardware / Handles Checklist

NOTE:
The hardware included with your install package will vary depending on the install configuration. Please check your parts packing list for the hardware & handles specifications for this installation.

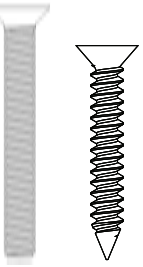


C0104-A
Left Wall
Center Pivot Hinge



C0105-A
Right Wall
Center Pivot Hinge

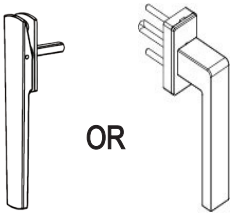
C0134-A
Allen Key



C0175-A
Frame Screw

C0092-A
Block Screw

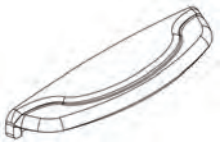
C0132-A
Hinge Screw



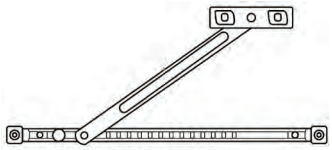
C0352-A
Twin Point Lever

OR

C0357-A
Kora Handle



C0359-A
Window Pull



C0356-A
Friction Stay and Limiter

C0336-A
Sill Block

C0384-A
FSM Block

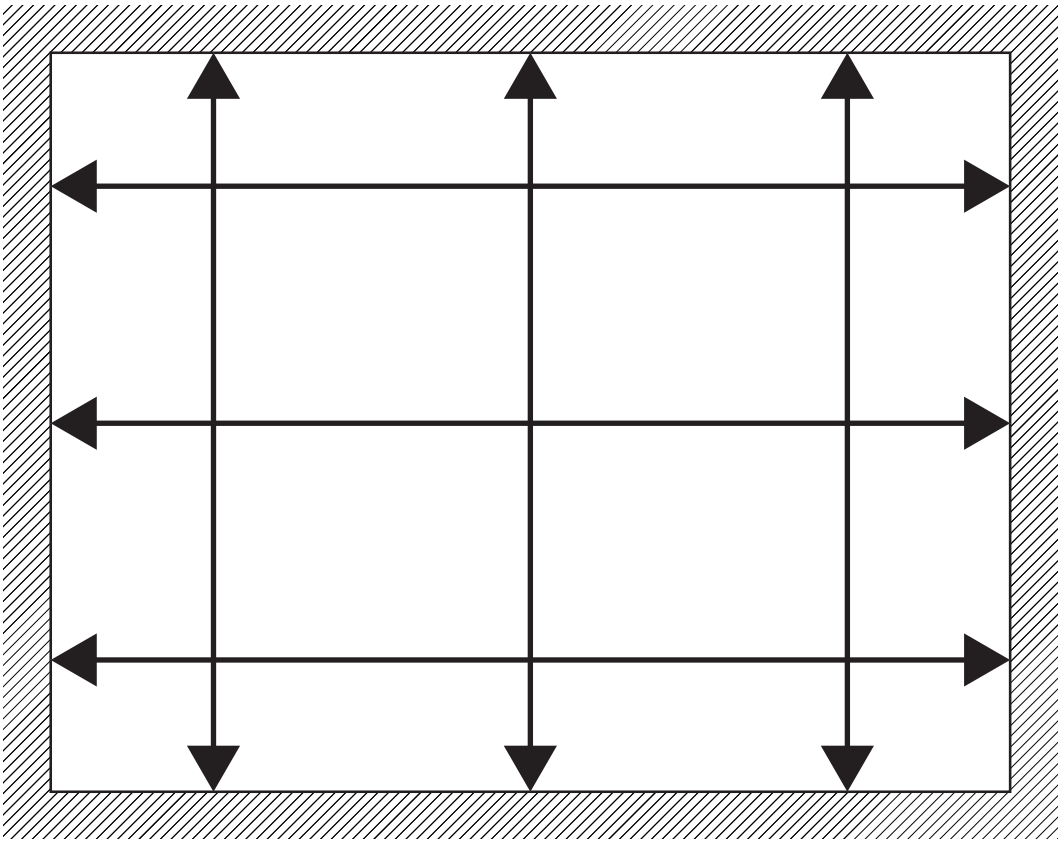
NOTE:
All Interior wood clad veneer products should be properly finished or sealed within 36 hours of delivery or stored in a climate controlled space until it can be properly finished or sealed.

C. Opening Preparation

Step C.1 - Measure, Level, Square & Clean

- ✓ Measure opening at at least 3 points *(see **Figure C.1**)* to check for plumb, square and level of the opening
- ✓ Ensure that there is only a maximum header deflection of 3/16” or less
- ✓ Vacuum / sweep opening to be clear of dust / dirt / debris

FIGURE C1: MEASURING THE OPENING



QR CODE: VIEW VIDEO INSTRUCTIONS ON MEASURING THE OPENING

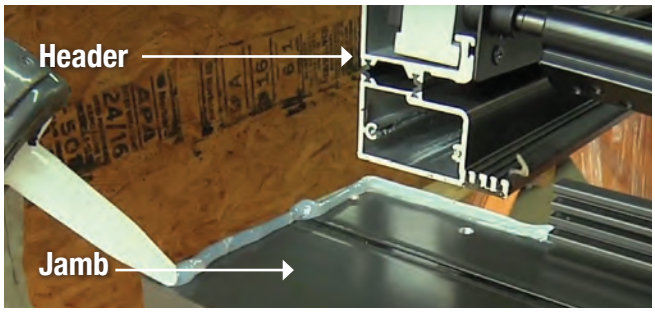
D. Frame Assembly

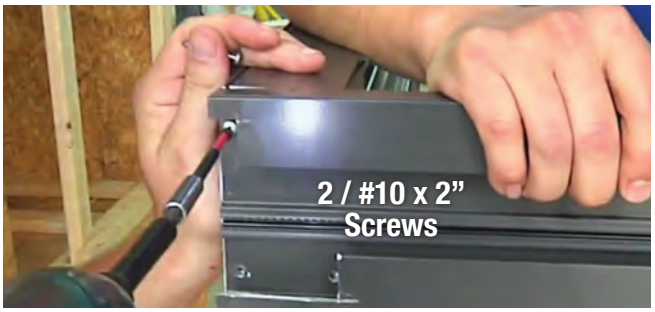
Step D.1 - Frame Assembly Preparation

Place the frame as it will be assembled on 4 sawhorses near the opening. Sawhorses should be padded / wrapped to protect the frame from scratches or damage. **DO NOT ASSEMBLE FRAME ON THE GROUND.**

Step D.2 - Connect Header to Jambs

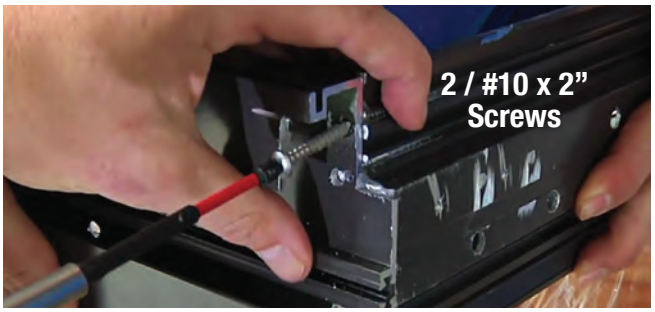
Before assembling the frame, dip the frame screws into wax or other lubricant. Seal the jambs along the edge with 100% silicone. Align the jamb and header together and connect securely with screws at the three pre-drilled locations. Drill at a moderate speed to avoid stripping or breaking screws. Repeat steps for other jamb.





Step D.3 - Connect Sill to Frame

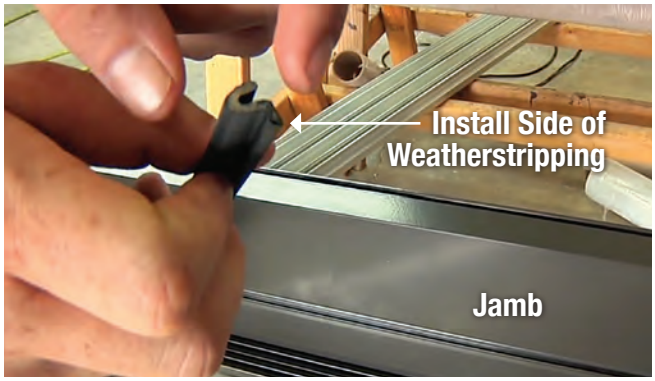
Seal edge of sill with 100% silicone. Snug the jamb to the sill and with waxed / lubricated screws, screw sill into the jamb into the three pre-drilled locations. Repeat steps for other side of the sill.



E. Frame Weatherstripping

Step E.1 - Install Weatherstripping into the Jamb

Place protruding end of weatherstripping into the first slot / groove of the jamb and push down to snug. Slide the weatherstripping all the way down to the sill snugging down the entire length of the jamb. Run over the entire weatherstripping to ensure a tight fit reaching the header. At the header location use snips and cut weatherstripping flush with the top of the header.



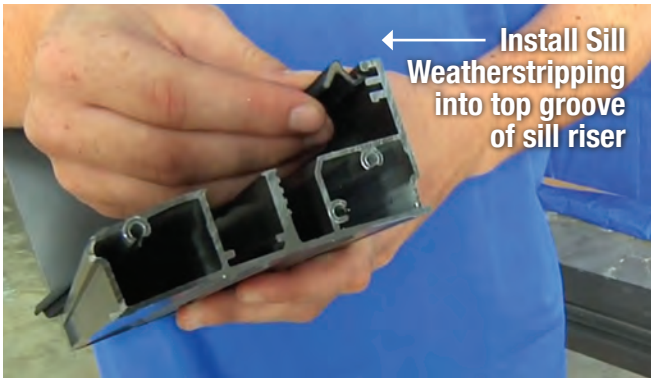
QR CODE: INSTALL JAMB WEATHERSTRIPPING

Step E.2 - Install Weatherstripping into Header

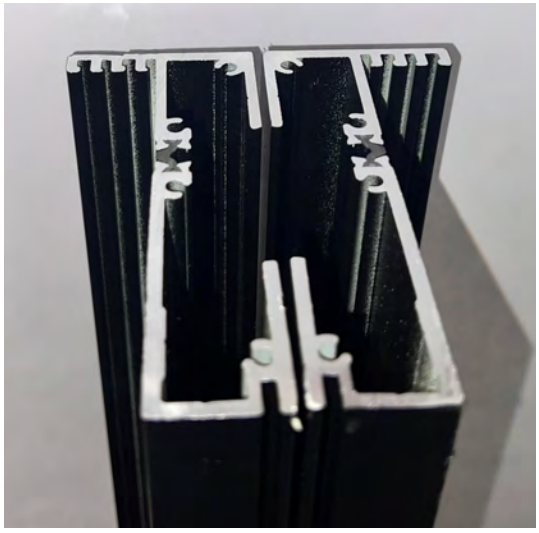
Following the same process used in installing the weatherstripping into the jamb, place protruding end of the weatherstripping into the first slot / groove of the header. Slide weatherstripping towards the jamb where the previously installed weatherstripping is. Move weatherstripping all the way to the jamb and over top of the jamb weatherstripping making sure they touch creating a seal. Trim to fit.

Step E.3 - Install Weatherstripping into Sill

Install the weatherstripping on the top groove of the sill riser all the way across the sill touching both jamb side weatherstripping applications. Trim to fit with snips.



F. Mull-Link Install

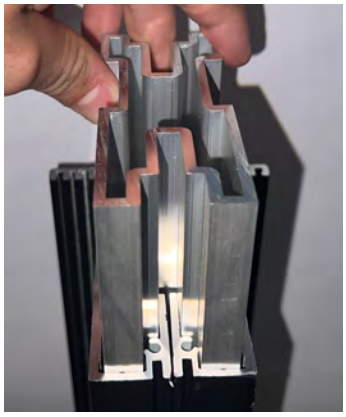


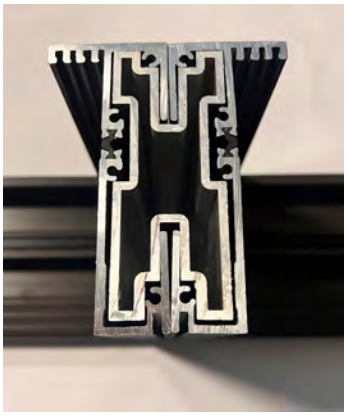
Step F.1 - Line Up Mull Link

If the unit consists of multiple sections, you will be required to connect each section with a mull link piece. Place the left and right sections side-by-side with the connecting jambs facing each other.

Step F.2 - Slide Mull Link into place

Slide the mull link piece into place by starting the end into each jamb, and then sliding the mull link in until flush. Use a rubber mallet if necessary. Repeat as necessary.





G. Dry Fit Frame

Step G.1 - Fit and Tack Frame into Place

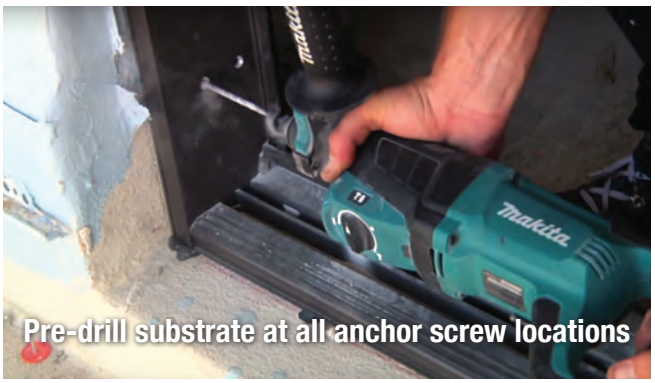
Make sure opening is clean and clear of dirt / debris. Move frame into opening verifying opening is large enough. With the frame in position, temporarily tack into place through the jambs. All anchor screw locations on the frame come pre-drilled.

Step G.2 - Level & Plumb Frame

Check sill for level and plumb, shim where necessary. There should be no more than 1/16" sill sag at the center span of the sill. There should be no bow in the sill at any location.

Step G.3 - Pre-Drill Opening Substrate

Once the frame is shimmed and leveled, prepare the substrate by drilling through all frame anchor screw locations into the opening substrate where necessary. The type of drill bit used will vary depending on the substrate. Remove frame and vacuum / sweep clean of debris.



H. Install the Frame

Step H.1 - Sealing Sill Opening

Make sure opening is clean of all dirt and debris. Seal sill opening location with DOW 795 or 100% silicone. Place frame into opening and make sure the entire sill is embedded in the sealant.

Step H.2 - Securing the Sill

Position frame so that the jamb is plumb and level with adequate space for shimming and then tack into place. Follow the same steps for the second jamb. Proceed to securing the sill. Level the sill placing shims at least at every other pre-drilled anchor screw location and anywhere else shimming is needed. Dip screws in silicone and secure sill at every anchor screw location. Ensure that the sill remains level after every anchor location is secured and adjust as necessary.

Step H.3 - Securing the Jambs

Re-check jambs for level and plumb. Place shims behind every anchor screw location and screw jamb into place. Do not over tighten screws as this could cause the frame to bow. After screwing the jambs securely into the opening, check again for level and plumb.

Step H.4 - Securing the Header

Starting at either of the jambs, shim and secure the header into place proceeding down the entire length of the header checking for level with a two foot level. The screw used to secure the header must penetrate at least 1 1/2” into the opening substrate and the bolt head should not interfere with the window operation. Take care not to over tighten screws as this could cause the header to pinch creating window operation issues. After header is secured, re-verify level with a four foot level noting that there is a maximum allowed deflection of 3/16”.

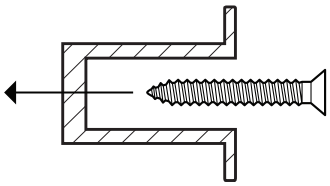
NOTE: Material used to insulate the shim space between the frame and the opening should be a non-expandable material.

I. Install the Sashes

Step I.1 - Install the Center Wall Pivot Cup
ONLY FOR SASHES OVER 66” TALL

Locate the pre-drilled center wall pivot location on the jamb and using a 3/4” drill bit drill through the center wall pivot hole and into the opening substrate. Drill deep enough so that the center wall pivot cup can be seated.

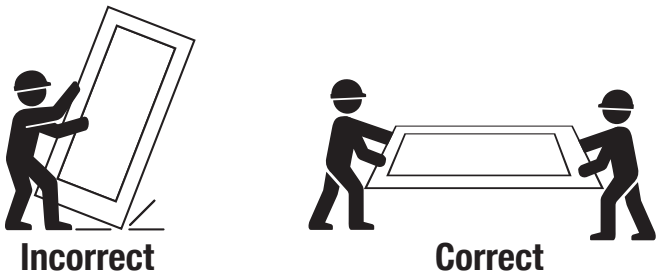
NOTE: If the substrate you are securing into requires the use of tapcons, insert the center wall pivot cup into the jamb and use a 3/16” bit and drill through the pre-drilled hole in the back of the pivot cup and into the substrate.



Step I.2 - Sash Installation Preparation

Before installing sashes, place wood, protective foam, cardboard or other similar protectant over the sill to protect from damage during the sash installation process. Additionally, have a ladder near the sash installation for ease of installation.

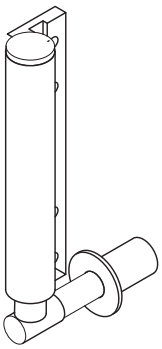
Each window sash comes with its own clearly labeled box which includes all hinges, hardware and screws for that particular sash. Locate those and set aside. Move the first jamb sash into position for install. When moving sashes, always move them with at least two people making sure to **NEVER "walk" the sashes.**

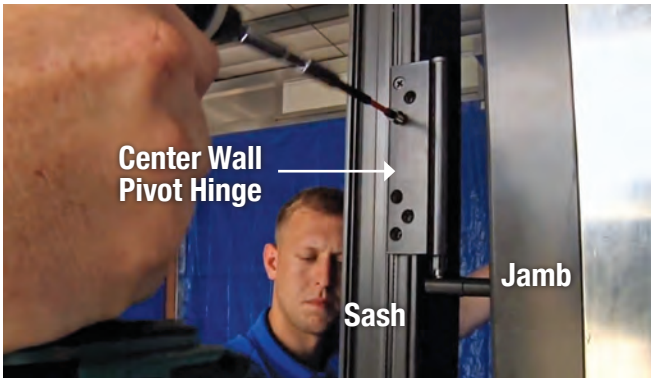


If your system is using a Kora handle(s), install the Kora handle into the sash before installing the sash. This will require two #10-32 screws provided in the hardware kit.

Step I.3 - Attach the Center Wall Pivot to the Sash and Frame ONLY FOR SASHES OVER 66" TALL

Screw and anchor the center wall pivot to the first sash. Next, position sash by the jamb and slide the center wall pivot into the center wall sleeve.





NOTE: Always support the weight of unsecured sashes with a protected flat / pry bar or similar tool when installing or making adjustments.

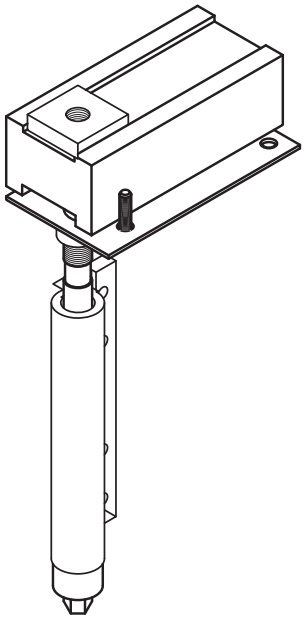
Step I.4 - Attach the Upper and Lower Jamb Hinges

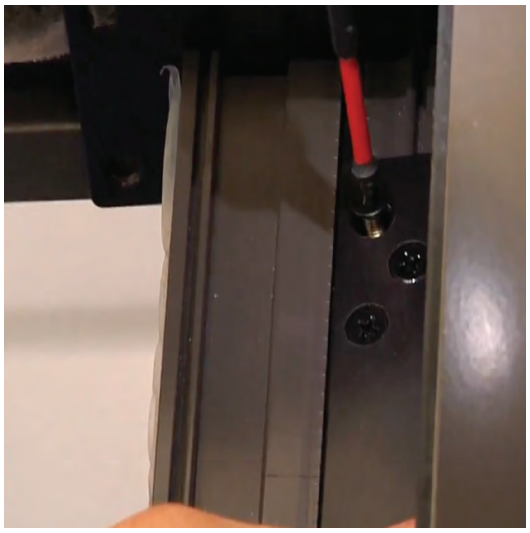
NOTE: All upper carriers and upper jamb hinges come pre-installed in the header track. Also, each upper carrier / upper jamb hinge has a 2.5mm set screw for making adjustments. It is recommended that each carrier rod be rotated so the set screw is visible facing away from the riser allowing easy access for adjustments. If set screw is not accessible, the corresponding sash will have to be removed when making sash adjustments.

Attach the Upper Jamb Hinge

Align the upper jamb hinge with the pre-drilled hinge holes on the sash. You may need to adjust the upper jamb hinge up or down. The clearance of the sash and header should be no more than 3/8". To adjust the upper jamb hinge, use the provided 2.5mm allen key to loosen the allen bolt on the upper jamb hinge. Then use a 1/2" ratchet with an extension to raise or lower the upper jamb hinge to align with the sash hinge holes. **Please see section K** of this document for more details on making adjustments.

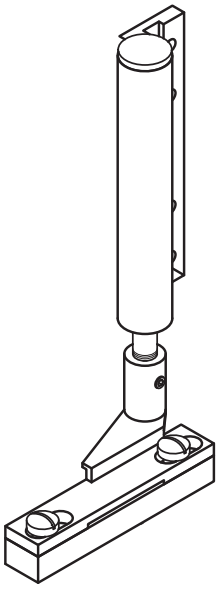
After holes are aligned, re-tighten the allen bolt and attach the upper jamb hinge to the sash with the provided screws.





Attach the Lower Jamb Hinge

Attach the lower jamb hinge to the sash using the supplied screws. Align the lower jamb hinge holes with the pre-drilled hinge screw holes on the frame and attach using the supplied screws. After the first jamb sash is installed, slowly open and close the sash making sure the sash does not rub against the header or the sill. Adjust as necessary.



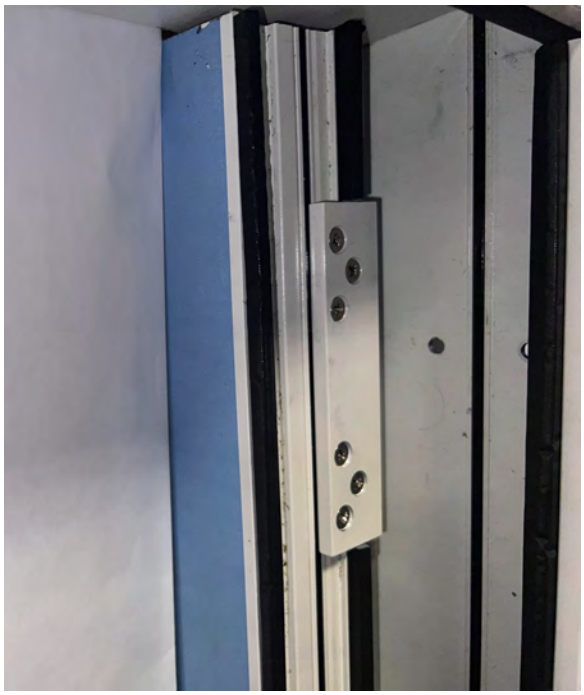
J. Install Sash Weatherstripping

Step J.1 - Weatherstrip Profiles and When / Where to Apply

The large p weatherstripping always gets installed on the sash edges. When installing weatherstripping, the large side of the weatherstripping should face out towards the edge of the sash stile.

The large p weatherstripping also goes on the jamb side sash edges.

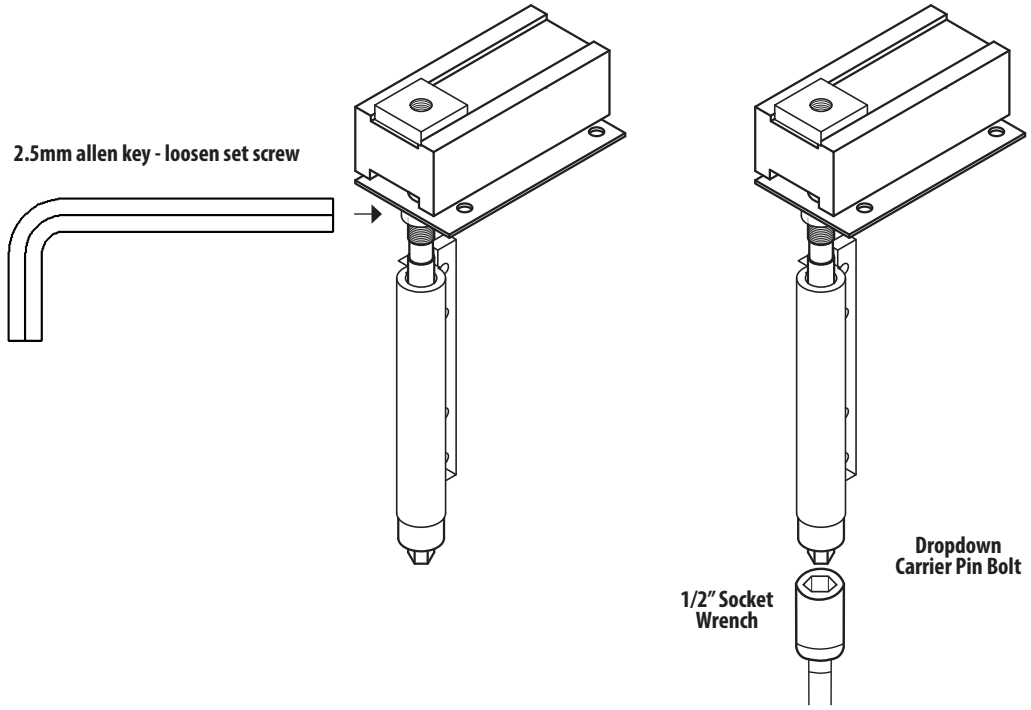
Large P Weatherstripping



K. Horizontal / Vertical Adjustments

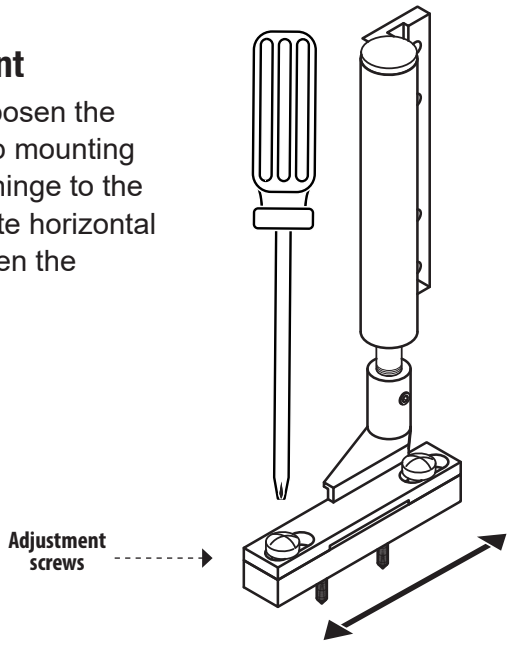
Step K.1 - Vertical Adjustments

To adjust the vertical alignment of your sash, you must first locate and loosen the set screw on the upper jamb hinges. With a 2.5mm allen key loosen the set screw and adjust the drop down carrier pin bolt by using a 1/2" socket ratchet. Adjusting the dropdown carrier bolt will raise or lower the sash. Once the appropriate vertical adjustment has been made - re-tighten the set screw.



Step K.2 - Horizontal Adjustment

Lower Jamb Hinge Adjustment. Loosen the adjustment screws on the lower jamb mounting hardware and move the lower jamb hinge to the desired position. Once the appropriate horizontal adjustment has been made - re-tighten the adjustment screws.



L. Install the Friction Stay

Step L.1 - Attach the sash arm

Attach the sash arm of the stay to the bottom of the sash using the pre-drilled holes under the bottom rail.

Step L.2 - Position the Frame

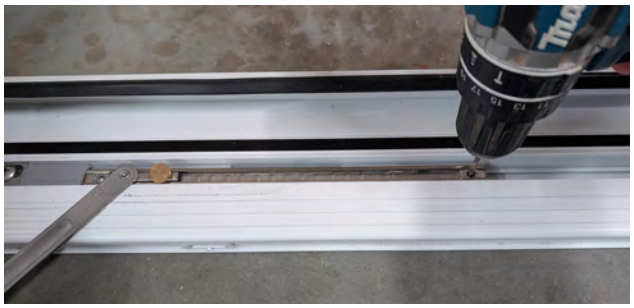
Place the frame portion into the sill, and slide the friction stay blocks underneath the housing.

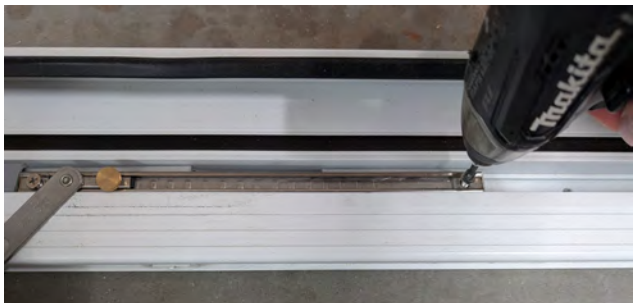
Step L.3 - Locate the Stay

Fully open the casement (at least 90 degrees) and push the friction stay flush with the exterior wall of the sill channel. Mark the location of the stay using a pencil.

Step L.4- Secure the Stay

Using an 11/64" drill bit, drill two holes into the sill through each tab of the friction stay. Secure the friction stay using the provided #10-32 x 1-3/4" screws.





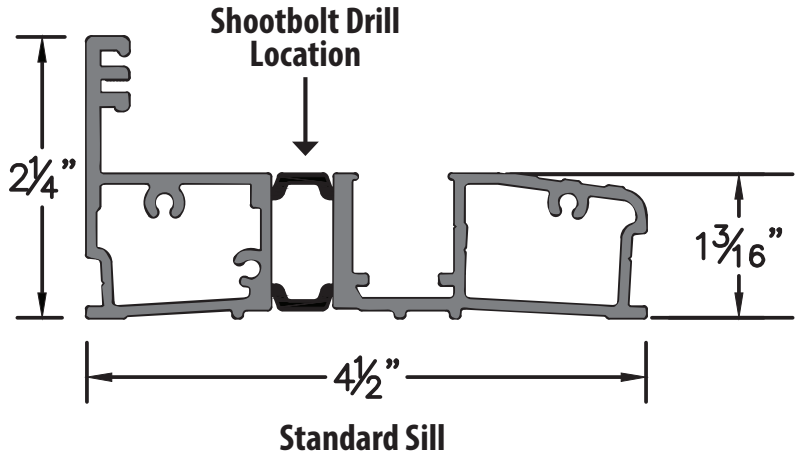
Step L.5- Test the Stay

Test the operation of the stay by carefully opening and closing the system fully.

M. Prepare Sill for Shootbolt

Step M.1 - Drill for Shootbolt Location(s)

After the windows have been installed and adjusted engage the twinpoint shootbolt(s) and mark on the sill where the shootbolts make contact with the sill. Drill a 1/2” hole at your marked location(s) - this will allow the twinpoint shootbolts to secure into the sill when in the lock position. Use the diagram below to reference the sill used for your particular application and for the shootbolt drill location.



Standard Sill

Step M.2 - Install Sill Block

Install the sill block from the hardware kit centered in front of the twin point cup, using two anchors into the substrate

N. Install U-Channel / Sill Liner

Step N.1 - Install

The last step in your installation will be installing the sill liner / U-channel which covers the anchor screws in the sill. **If your install requires an inspection, DO NOT INSTALL SILL LINER UNTIL AFTER THE INSPECTION.** Once the sill liner is installed, it will need to be cut in order to remove it.

Measure and cut your sill liner to length. Starting at either jamb side, push one end of the sill liner into the sill channel until it snaps snuggly into place. Slide the sill liner underneath the bottom jamb hinge until it is pushed all the way against the jamb. You may now continue to push the rest of the sill liner into the sill channel by hand or with a rubber mallet.

O. Ball Catch - Strike Plate

Step O.1 - Install Ball Catch

Install the ball catch strike plate into the jambs using the predrilled holes. Units with mull links may need to be predrilled and tapped for a #10 screw using a #21 drill bit and a 10-32 standard tap.

P. Maintenance & Care

Sash Protective Film

Remove all protective film from sashes, frames and any other metal extrusion within 30 days of job delivery. Failure to do so could cause finish damage voiding the product warranty.

Hinges

Wipe down the visible surfaces with warm soapy water on a soft cloth and then rinse off by wiping with a clean damp cloth.

Locks and Hardware

Wipe down the visible surfaces with warm soapy water on a soft cloth and then rinse off by wiping with a clean damp cloth. Spray a thin film of Boeshield T-9 (or other corrosion preventative spray such as CRC Marine 66, Innox or CorrosionX, or with machine oil) on any exposed hardware, including but not limited to: handles, locking mechanisms, hinges, unpainted or uncoated metal components, brackets, bearings, exposed screws etc. Be careful to avoid overspray and be sure to wipe down any overspray that does occur. Take care to avoid spray onto wood components, as staining may occur. Use a soft cloth to buff out any excess residual film.

Track and Bearings

Apply white petroleum jelly (Vaseline) or equivalent, to inner lip of each side of head track with a clean cloth. Distribute lubricant evenly along track. Ensure wheels and bearings receive sufficient lubricant. Wipe all contaminant from track surfaces with damp cloth and mild detergent, clean surfaces with clean soft cloth. Apply thin film for systems installed in severe environments by wiping surfaces of track with anti-corrosive substance, such as, CRC Marine 66®, Innox® or CorrosionX®.

Hangers, Pivots and Brackets

Before applying anti-corrosive substance, wipe exposed surfaces with clean soft cloth soaked in warm soapy water; then rinse, clean and dry. Spray thin film to hangers, pivots and brackets with anti-corrosive substance, such as, CRC Marine 66®, Innox® or CorrosionX®. Spray a thin film of Boeshield T-9 (or other corrosion preventative spray such as CRC Marine 66, Innox or CorrosionX, or with machine oil) and wipe off any overspray or excess residual film with a soft cloth.

Frequency

Regular maintenance is required for all hardware, even stainless steel, to keep manufacturer's warranty in place. Failure to provide proof of maintenance will void any warranty.

Carry out maintenance procedures with the following minimum recommendations:

- General environments - every 3 months
- Marine, industrial environments, within 5 miles of a body of water and / or a pool area - every month.
- Boeshield T-9 re-application: every 6 months for general environment, and up to every 3 months for marine/industrial environments, or within 5 miles of a body of water and/or a pool area.

NOTE: Maintenance is required to extend the life of your window system and to maintain the Euro-Wall Warranty