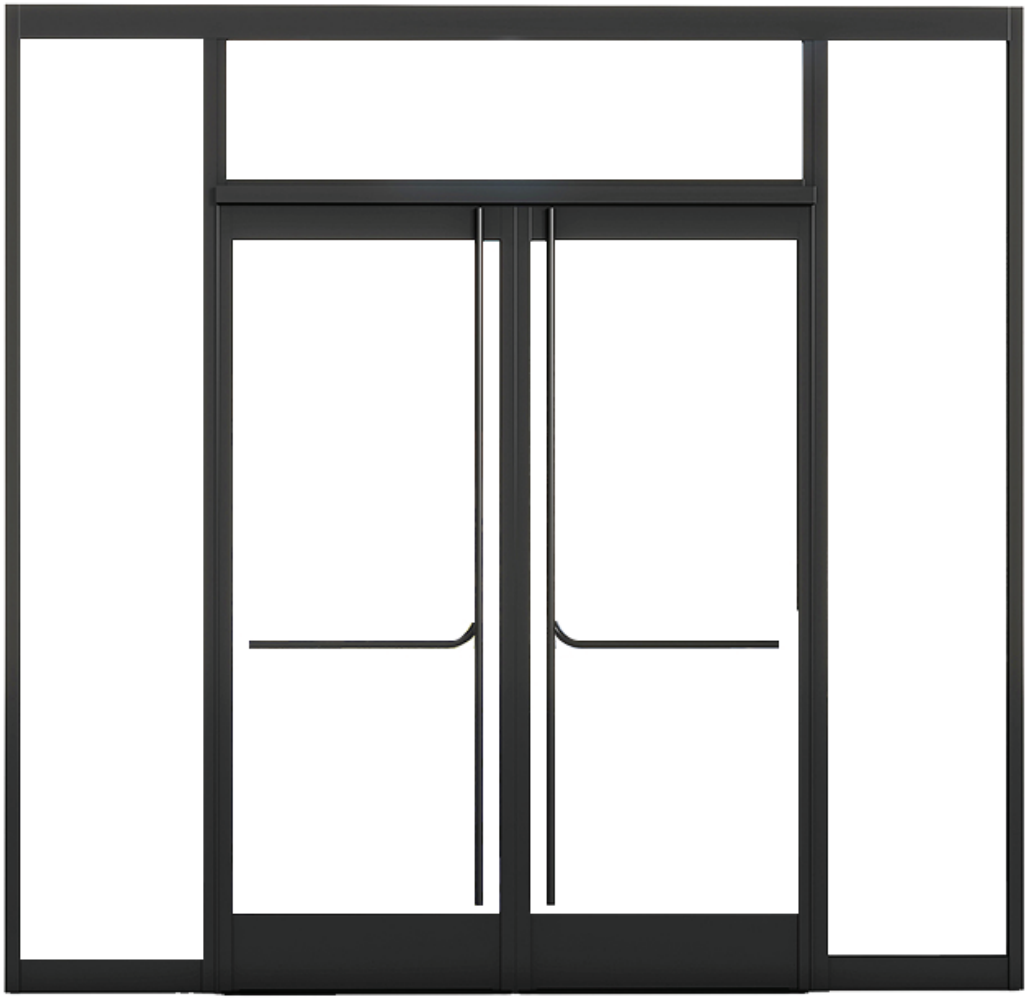
ENTICE HP+
PREMIUM ENTRANCE SYSTEM



RECOMMENDED GUIDELINES FOR ALL INSTALLATIONS

1. **REVIEW CONTRACT DOCUMENTS.** Check shop drawings, installation instructions, architectural drawings, and shipping lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project. Note any **field verified** notes on the shop drawings prior to installing. The installation instructions are of a general nature and cover most conditions.

2. **INSTALLATION.** All materials are to be installed plumb, level, and true. Install operable windows preglazed only.

3. **BENCH MARKS.** All work should start from bench marks and/or column lines as established by the architectural drawings and the general contractor with guaranteed accuracy. Working from these datum points and lines determine:
   a) The plane of the wall in reference to offset lines provided on each floor.
   b) The finish floor lines in reference to bench marks on the outer building columns.
   c) Mullion spacing from both ends of masonry opening to prevent dimensional build-up of daylight opening.

4. **FIELD WELDING.** All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Results will be unsightly and/or structurally unsound. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.

5. **SURROUNDING CONDITIONS.** Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with work.

6. **ISOLATION OF ALUMINUM.** Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.

7. **SEALANTS.** Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, cleaning, priming, tooling, adhesion, etc. It is the responsibility of the **Glazing Contractor** to submit a statement from the sealant manufacturer indicating that glass and glazing materials have been tested for compatibility and adhesion with glazing sealants, and interpreting test results relative to material performance, including recommendations for primers and substrate preparation required to obtain adhesion. The chemical compatibility of all glazing materials and framing sealants with each other and with like materials used in glass fabrication must be established. This is required on every project.

8. **FASTENING.** Within the body of these instructions "fastening" means any method of securing one part to another or to adjacent materials. Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements, perimeter and anchor fasteners are not specified in these instructions. For perimeter and anchor fasteners, refer to the shop drawings or consult the fastener supplier.

9. **BUILDING CODES.** Due to the diversity in state/provincial local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to assure that products selected for use on projects comply with all the applicable building codes and laws. C.R. Laurenceexercises no control over the use or application of its products, glazing materials, and operating hardware and assumes no responsibility thereof.

10. **EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and/or difference in metal temperature between the time of fabrication and the time of installation. Gaps between expansion members should be based on temperature at time of installation.

11. **COORDINATION WITH OTHER TRADES.** Coordinate with the general contractor to ensure proper sequencing with other trades whose work must be completed before or alongside curtain wall installation (e.g., fireproofing, backup walls, partitions, ceilings, mechanical ducts, converters, etc.).

12. CARE AND MAINTENANCE. Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA 609.1 for anodized aluminum and 610.1 for painted aluminum.

POLISHED STAINLESS STEEL
Polished stainless steel finishes should be routinely cleaned with CRL841 Stainless Steel Polish & Cleaner. The foam formula cleans and protects polished stainless steel without hard rubbing. It leaves behind a thin protective layer that resists fingerprints, grease, and water splash. The foam can be wiped off with CRL BX15 Lint-Free Wipes.

BRUSHED STAINLESS STEEL
Brushed stainless steel finishes can be cleaned the same way as polished stainless steel. Use cleaning and/or waxing motions in the same direction as the grain texture. Unlike polished stainless steel, brushed stainless steel can be rubbed with a light abrasive pad such as CRL SB7447F Scotch-Brite Fine Hand Pad.

MILD CORROSION
The best way to remove mild corrosion on stainless steel is with a metal restoration cleaner. Apply it like you would a wax, let it dry, and rub repeatedly to remove spots and restore luster. On a brushed stainless finish, you can use Scotch-Brite pads to remove tougher spots and help restore the original sheen. To ensure lasting beauty, a good quality wax for metals can be applied. An abrasive pad such as CRL SB7447F Scotch-Brite Fine Hand Pad.

ADDITIONAL TIPS
Do not use coarse abrasives like sandpaper or mineral acids and bleaches because they may cause rusting over time. Be sure to keep stainless steel away from rusting metals such as iron since they may cause contamination. With proper care and maintenance, the pristine appearance of CRL stainless steel hardware will last for years.

HANDLING, STORAGE, AND PROTECTION OF ALUMINUM

The following precautions are recommended to protect the material against damage. Following these precautions will help ensure early acceptance of your products and workmanship.

A. **HANDLE CAREFULLY.**
All aluminum materials at job site must be stored in a safe place, well removed from possible damage by other trades. Cardboard wrapped or paper interleaved materials must be kept dry.

B. **CHECK ARRIVING MATERIALS.**
Check for quantities and keep records of where various materials are stored.

C. **KEEP MATERIALS AWAY FROM WATER, MUD, AND SPRAY.**
Prevent cement, plaster or other materials from damaging the finish.

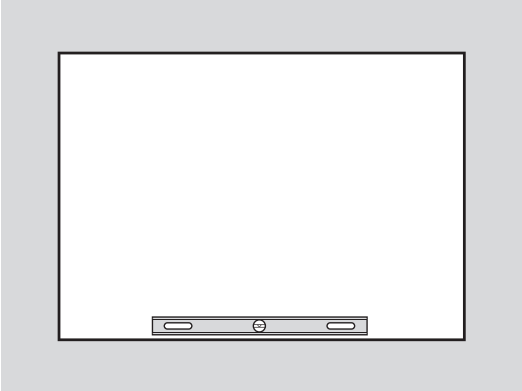
D. **PROTECT THE MATERIALS AFTER ERECTION.**
Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions, and acid based materials used to clean masonry are harmful to the finish. ***If any of these materials come in contact with the aluminum, immediately remove with water and mild soap.***

IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION

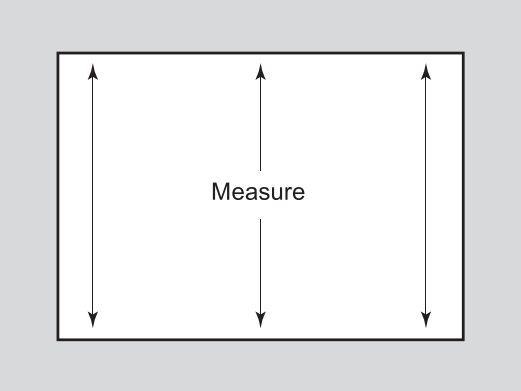
SITE PREPARATION

① Review and measure the opening.

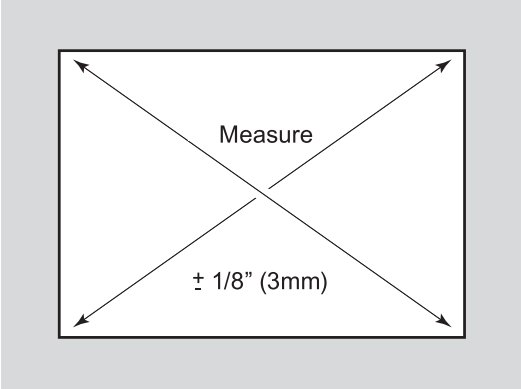
② Verify rough window opening size, 1/2” (12.7) clearance, in both width and height. Verify framing is plumb, straight, and true around opening. Measure opening at each end and at center vertically and horizontally. Make corrections to openings as required. Measure opening diagonally to check squareness. Chip concrete high points to flush and rounded corners to square.



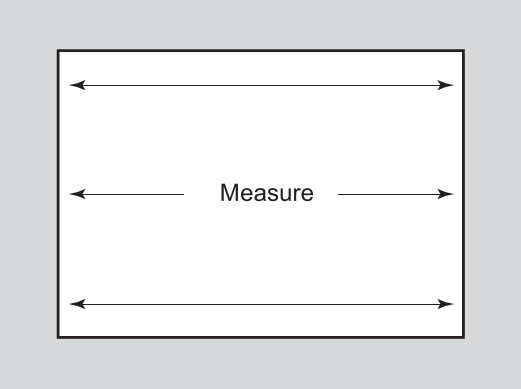
LEVEL



VERTICAL DIMENSION

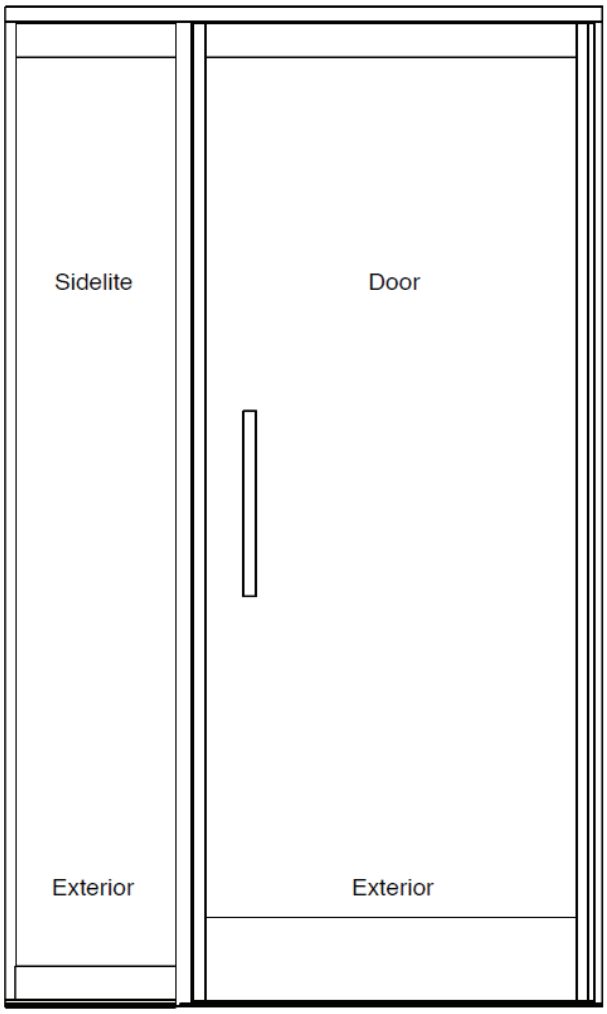


SQUARE

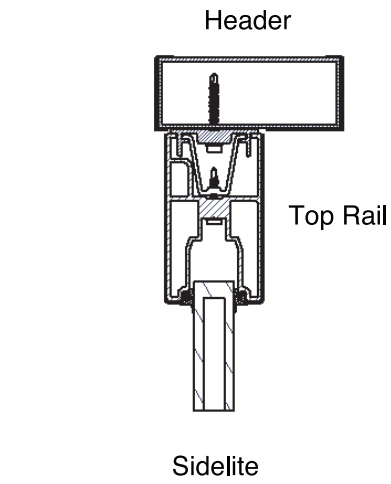


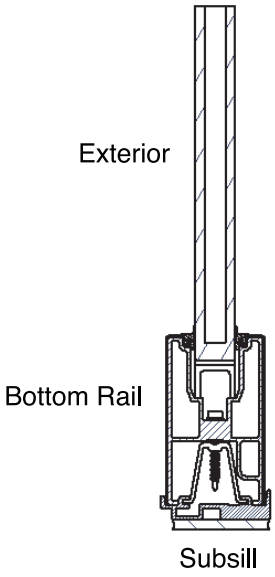
HORIZONTAL DIMENSION

DOOR WITH SIDELITE INSTALLATION OVERVIEW (PAGE 4 - 26)

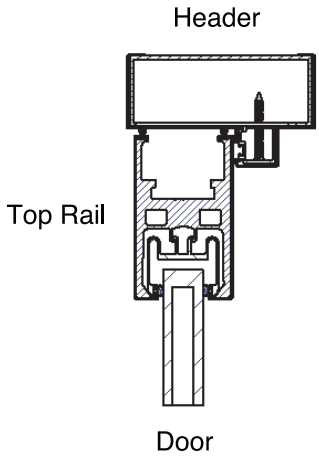


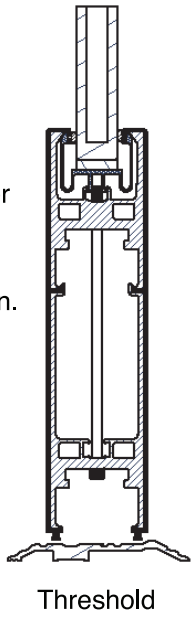
DOOR WITH SIDELITE INSTALLATION OVERVIEW



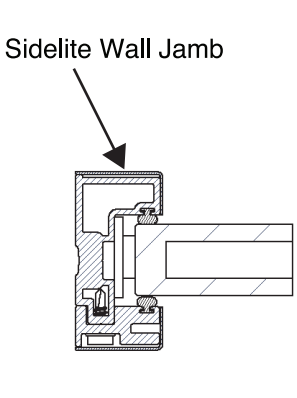


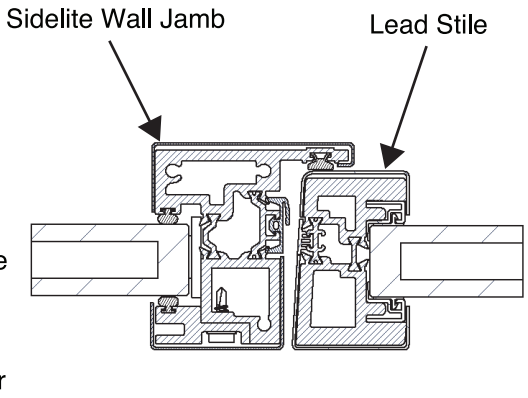
NOTE: 4" Bottom Rail Shown.
10" Bottom Rail Optional.

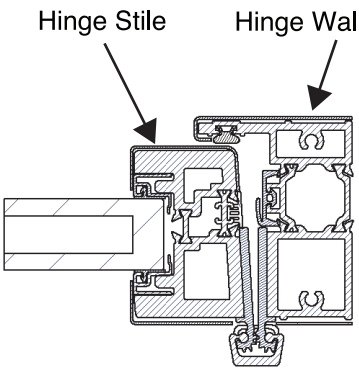




NOTE: 10" Bottom Rail Shown.
4" Bottom Rail Optional







HEADER HARDWARE INSTALLATION

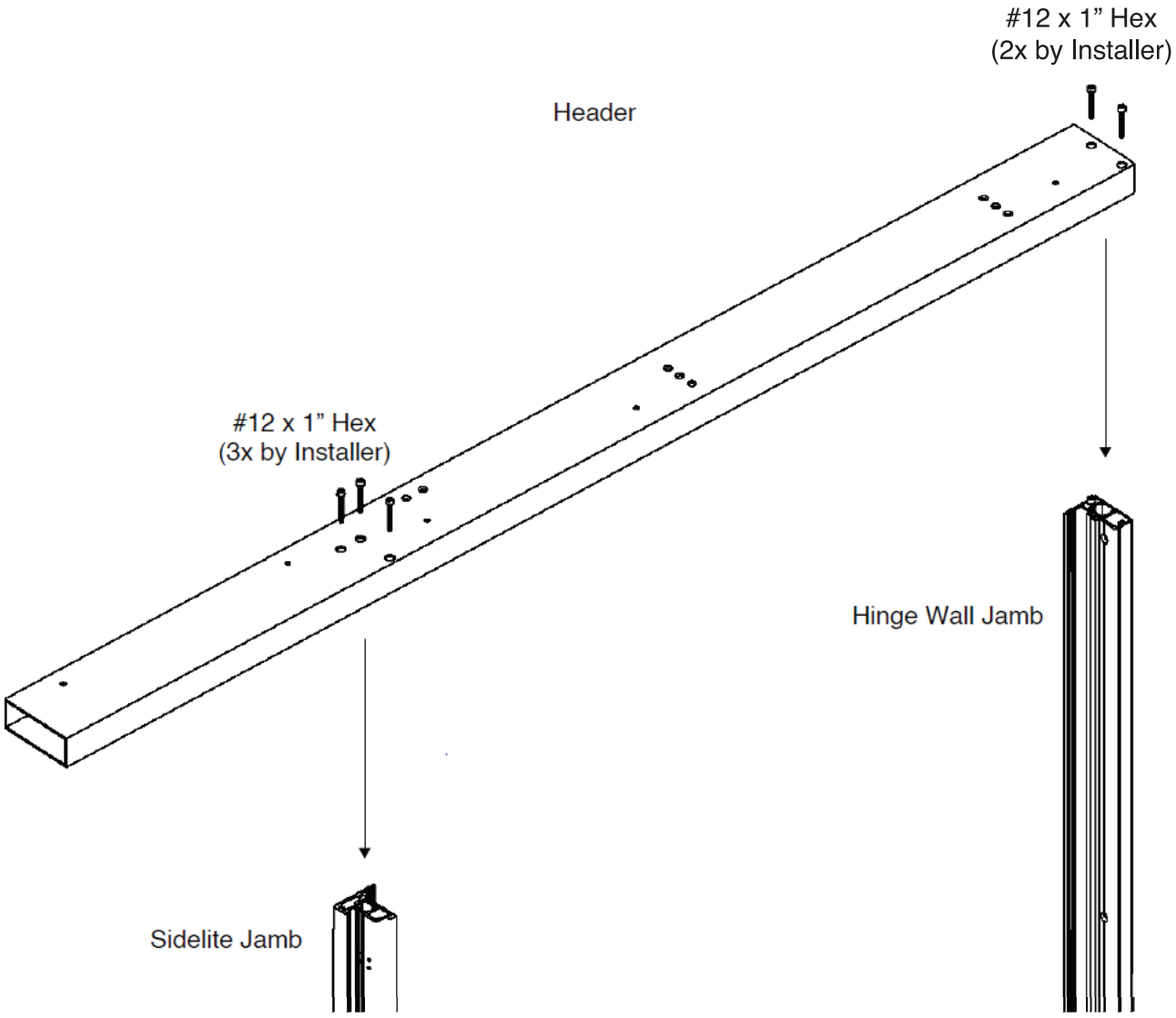
If required, install closing hardware in header.

HEADER & FRAME JAMB ASSEMBLY

① Install anchor to bottom of Sidelite Jamb using #12-24 x 1/2" machine screws (3x). See detail on next page.

② Install header on to Sidelite and Hinge Wall Jambs using (5) #12 x 1" Hex Washer Self Drilling Screws.
Note: Use pre-drilled clearance holes on header to install onto jamb screw race.

③ Once Header is securely fastened to Sidelite and Hinge Wall Jambs, proceed to installing up & over frame into rough opening.



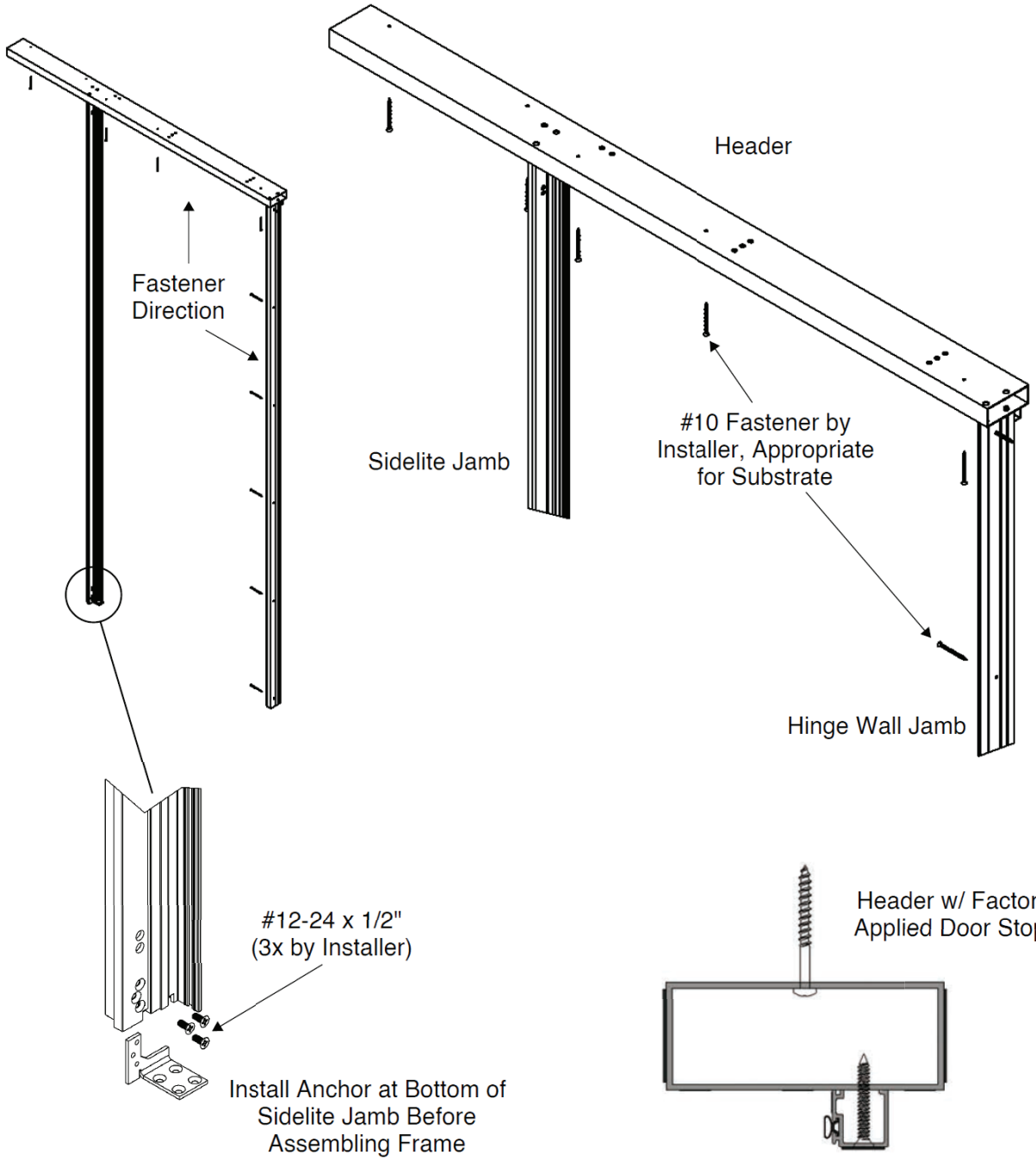
FRAME MOUNTING INSTALLATION

① Install up & over Frame into rough opening.

Note: Rough opening should be at least 1/2” wider and 1/2” taller than the frame dimensions to accommodate the perimeter seal

② Level and mount up & over Frame using #10 Frame Fasteners Appropriate for Substrate (by installer).

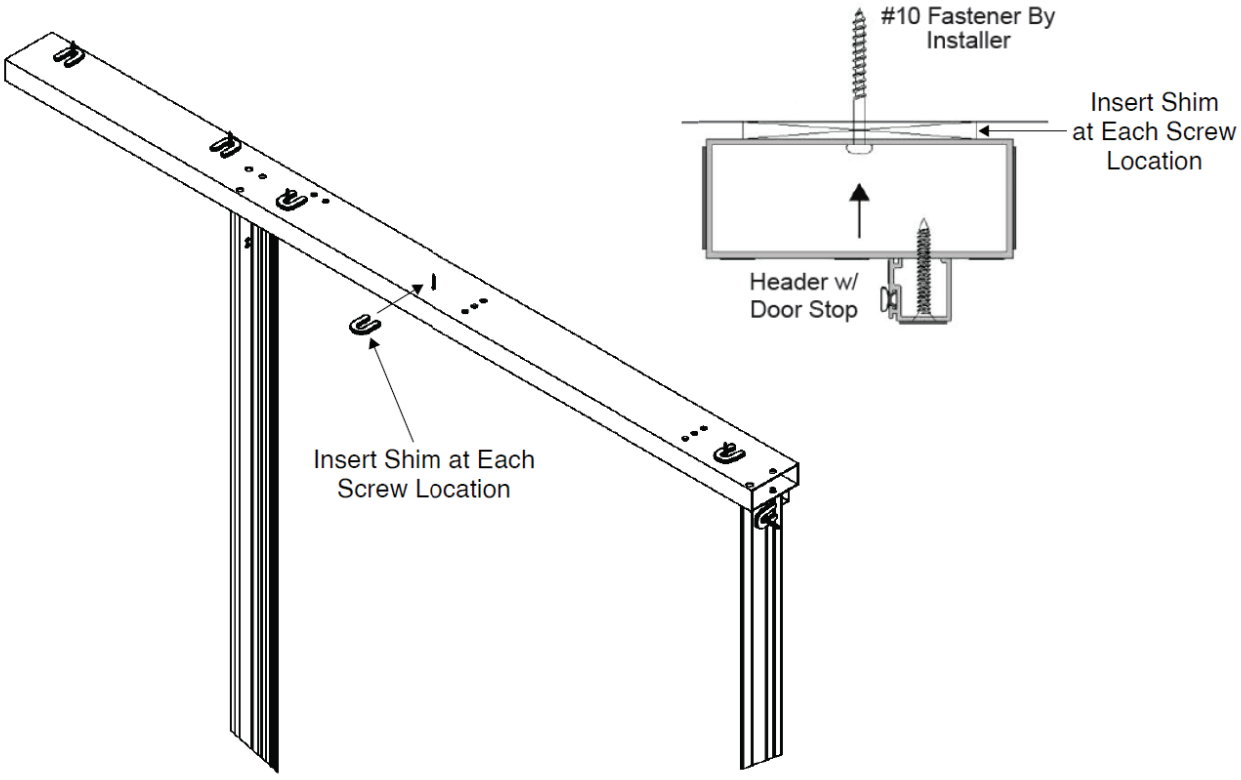
Note: Fasten to hold frame in place. Do not tighten fully, use pre-drilled installation holes.



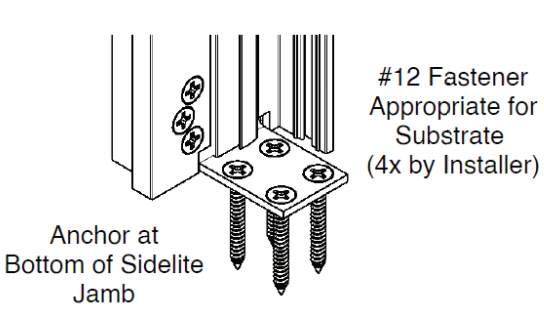
FRAME MOUNTING INSTALLATION CONTINUED

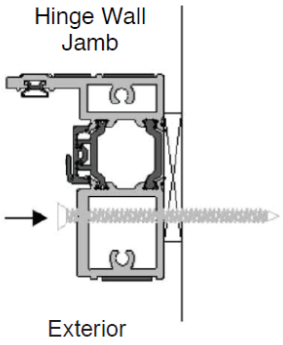
① Shim Under each Header & Frame Fastener (#10 by Installer).

Note: Header & Frame should be level, plum & square. Use Laser LD200 - CRL Cross-Line Self Leveling Laser Kit to aid in installation.



② Once Shims are installed/placed, proceed with fully fastening Header & Frame Screws into place.





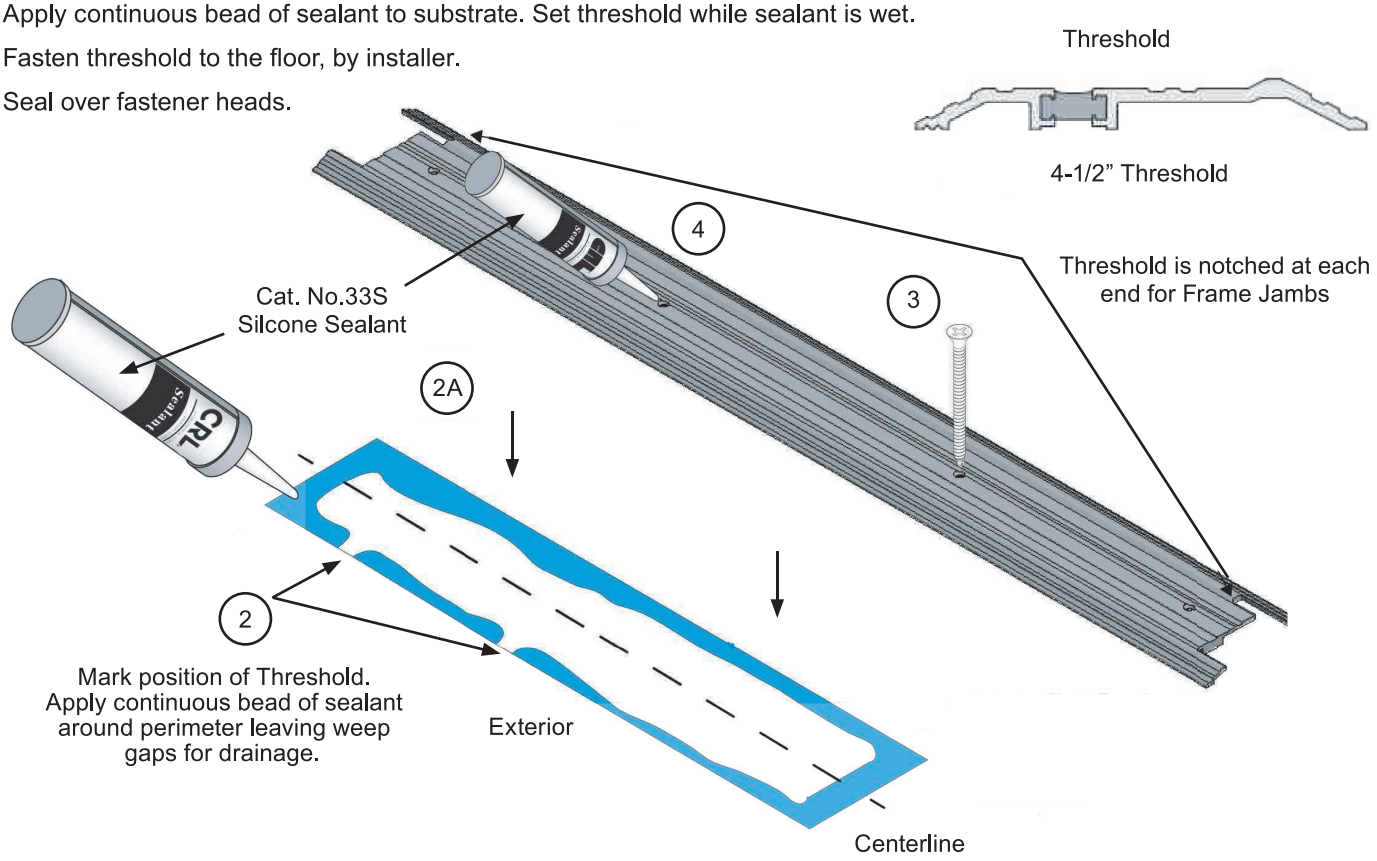
THRESHOLD INSTALLATION

① Clean Finished Floor thoroughly, removing all dust and debris.

② Apply continuous bead of sealant to substrate. Set threshold while sealant is wet.

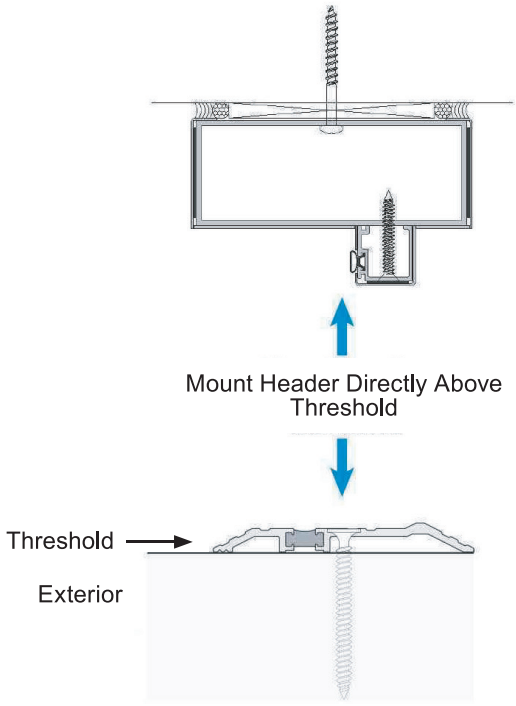
③ Fasten threshold to the floor, by installer.

④ Seal over fastener heads.



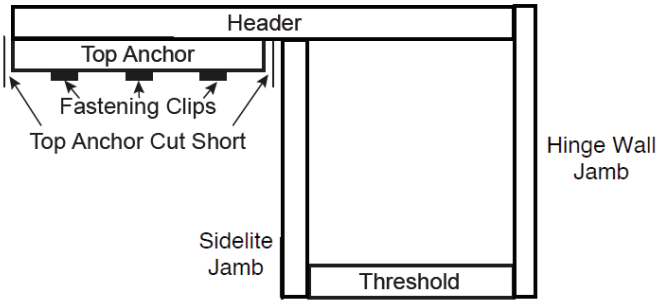
⑤ Align Threshold to Up & Over Frame.

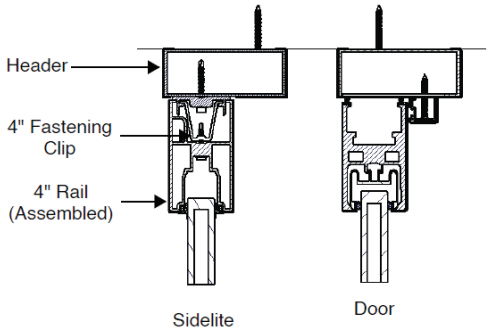
Note: Threshold should be level, plum & square.

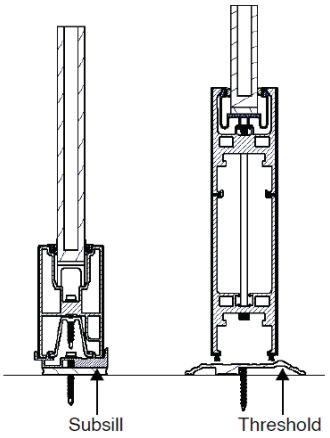


TOP ANCHOR AND HEADER INSTALLATION

NOTE: Fastening Clips are packed loose with Sidelite Rails.



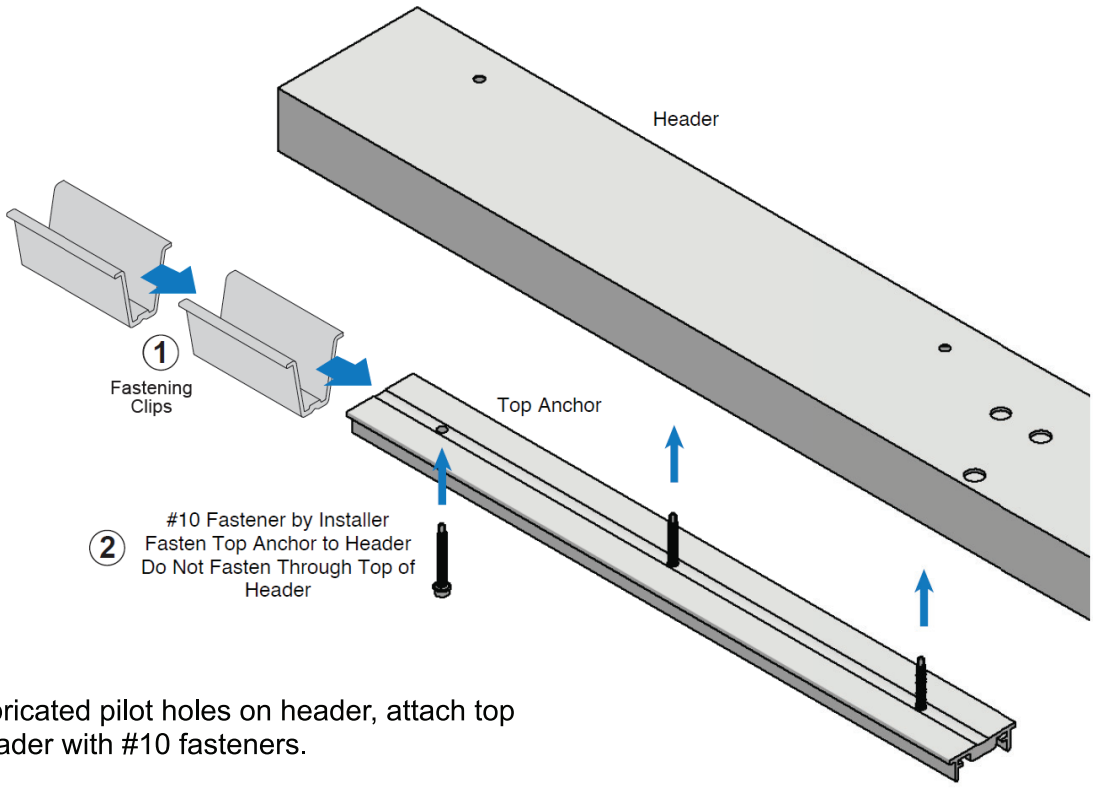




① Slide Fastening Clips into each Top Anchor.

NOTE: 4” Fastening Clips with 4” Sidelite Rails shown.
Use 10” Fastening Clips with 10” Sidelite Rails.

Fastening Clips must be installed before Sidelite Rails.
Use holes in Sidelite Rails as a guide for placement.
Maximum distance between clips = 9” (229 mm)



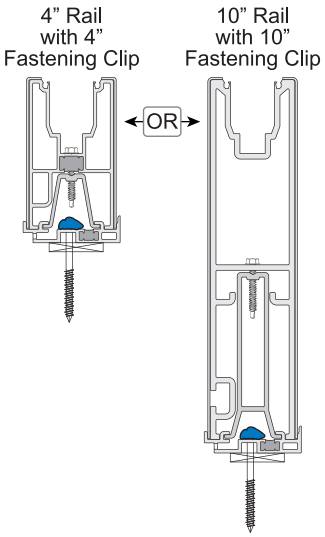
② Using the fabricated pilot holes on header, attach top anchor to header with #10 fasteners.

Note: Sidelite Jamb Removed for Clarity

SUBSILL INSTALLATION

Prepare Subsill

NOTE: Fastening Clips are packed loose with Sidelite Rails.
End Dams are packed loose with Subsill.

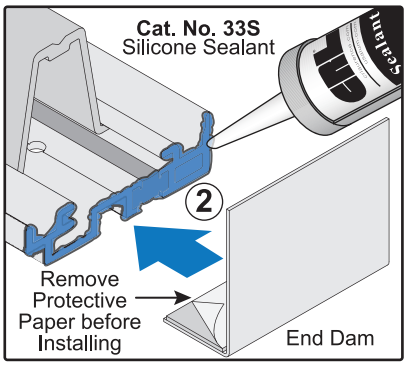


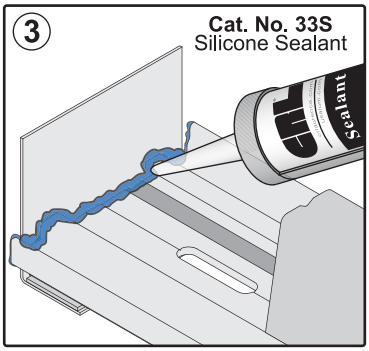
1. Slide Fastening Clips into Subsill.

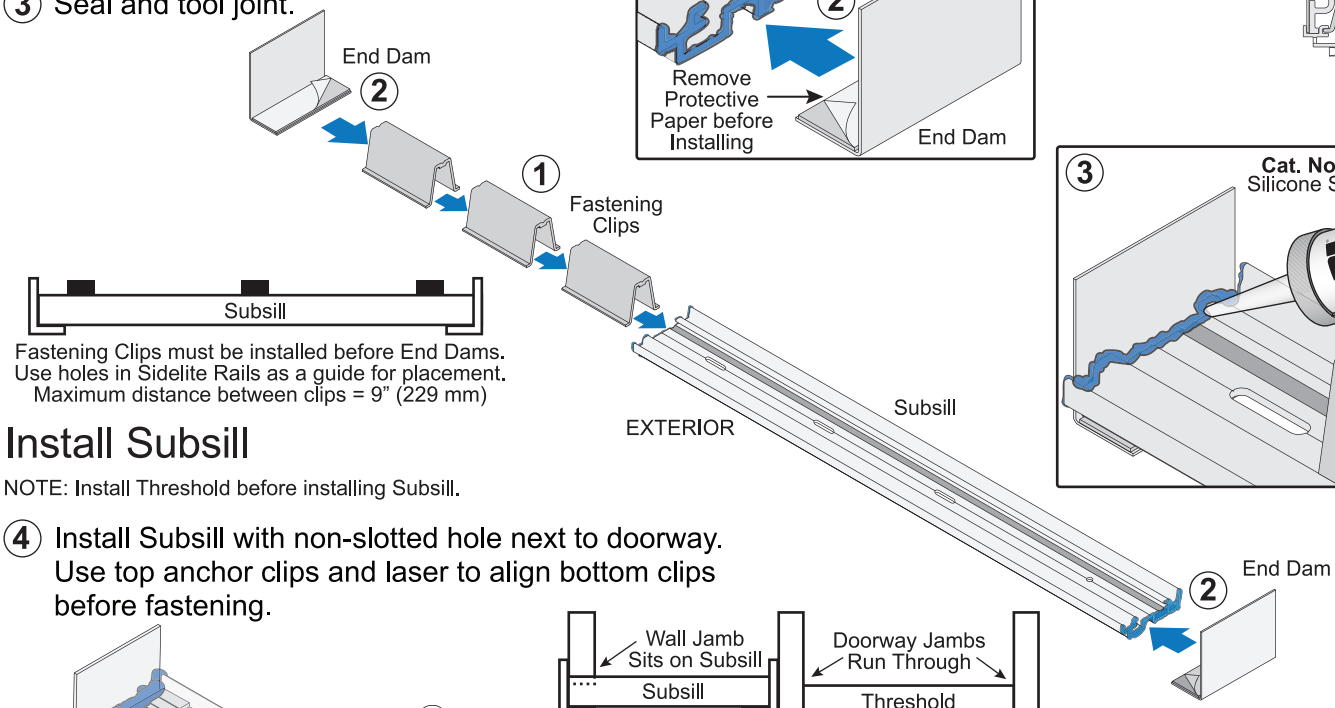
NOTE: 4" Fastening Clips with 4" Sidelite Rails shown.
10" Fastening Clips used with 10" Sidelite Rails.

2. Seal ends of Subsill and install End Dams.

3. Seal and tool joint.



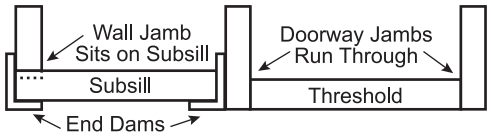


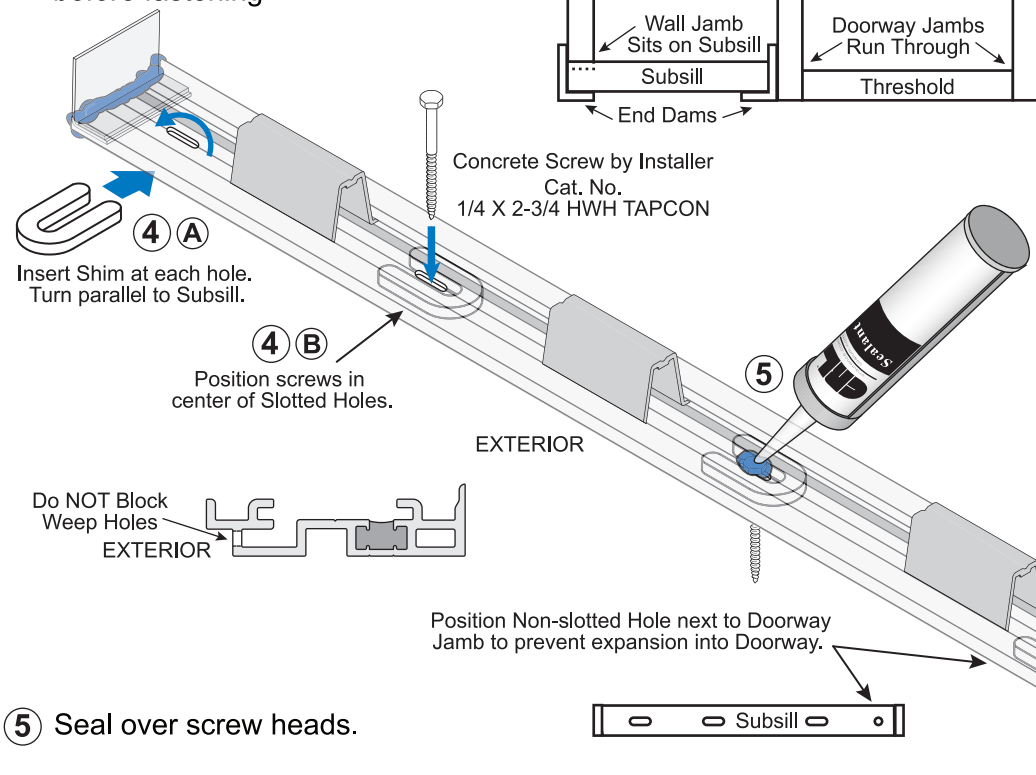


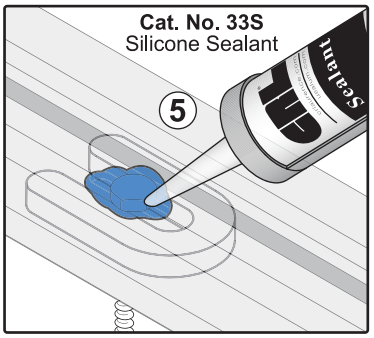
Install Subsill

NOTE: Install Threshold before installing Subsill.

4. Install Subsill with non-slotted hole next to doorway. Use top anchor clips and laser to align bottom clips before fastening.

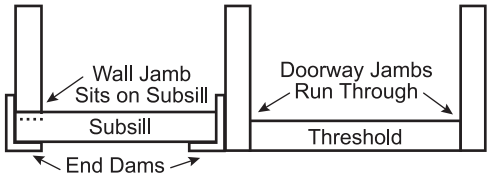






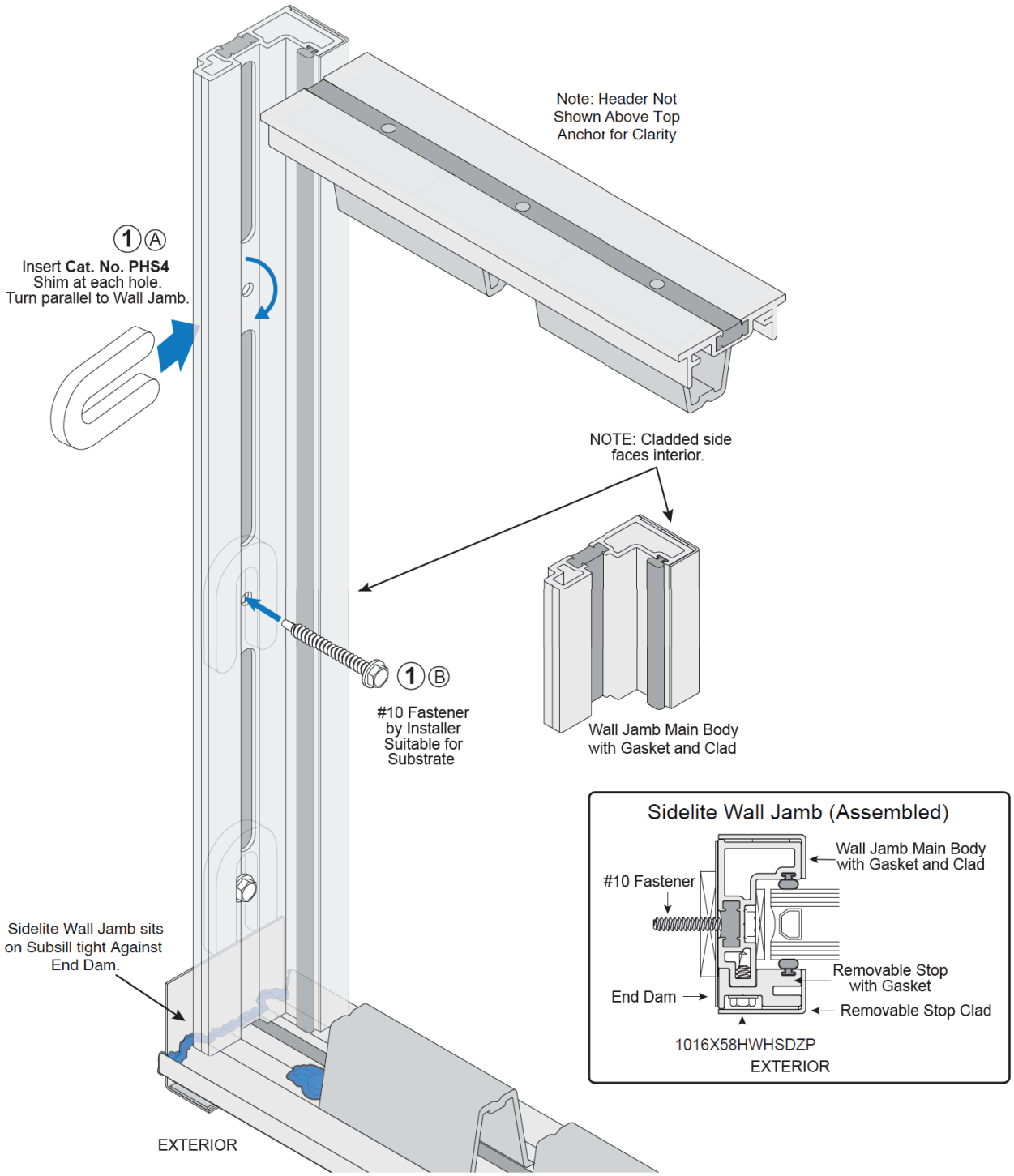
5. Seal over screw heads.

SIDELITE WALL JAMB INSTALLATION



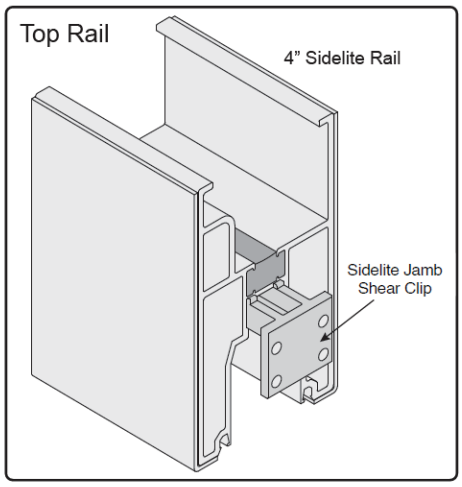
① Fit Sidelite Wall Jamb on the Subsill with cladded side facing interior. Push it tight against End Dam and wall.

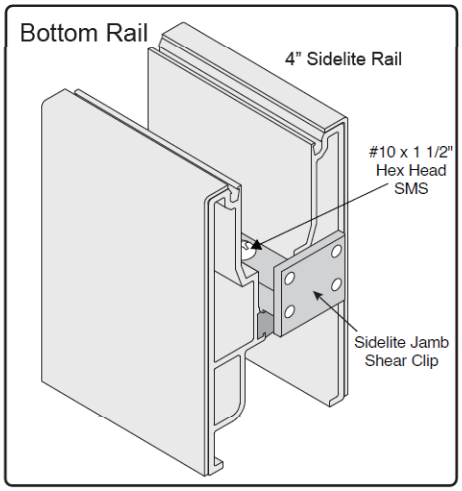
② Shim and fasten to the wall.

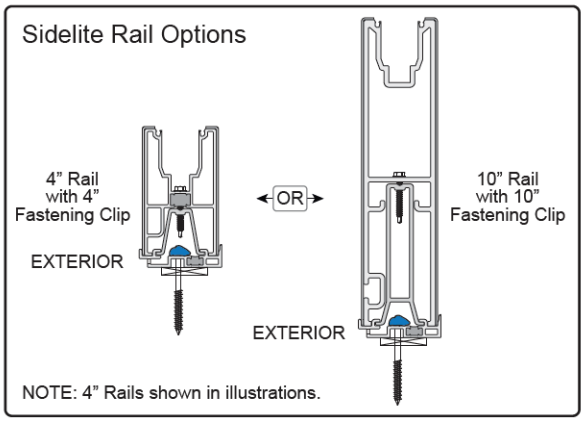


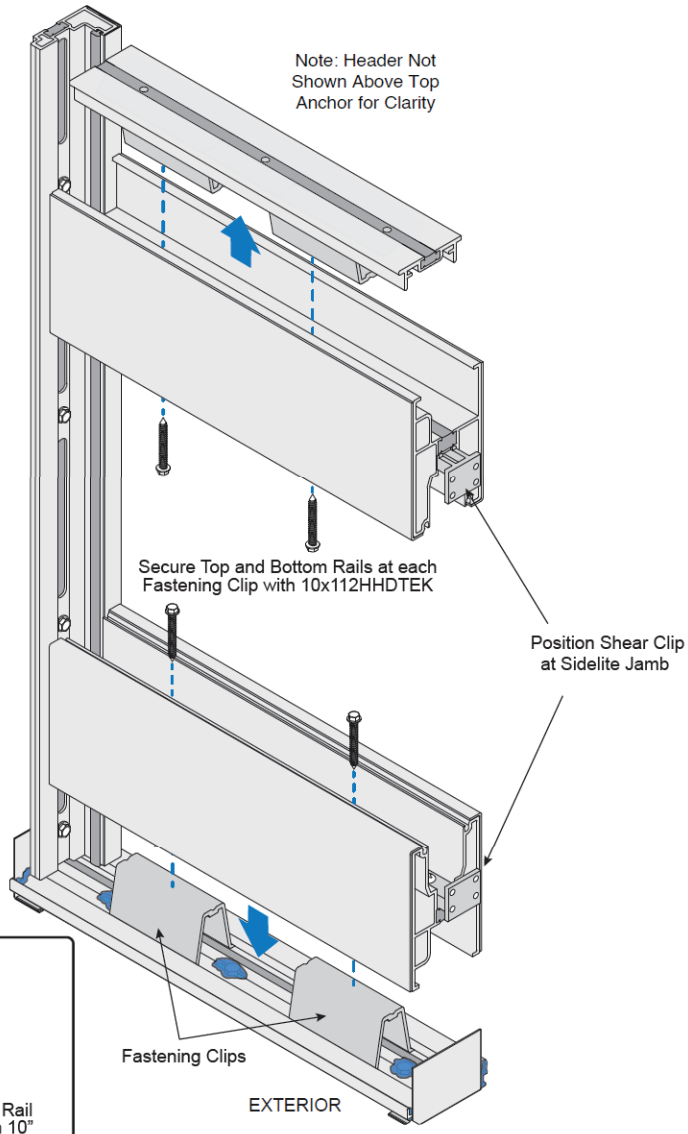
TOP AND BOTTOM RAIL INSTALLATION

Install Top and Bottom Rails with Shear Clips positioned at Sidelite Jamb. Secure at each Fastening Clip with #10 x 1-1/2” Hex Washer Head Self-Drilling Screws.



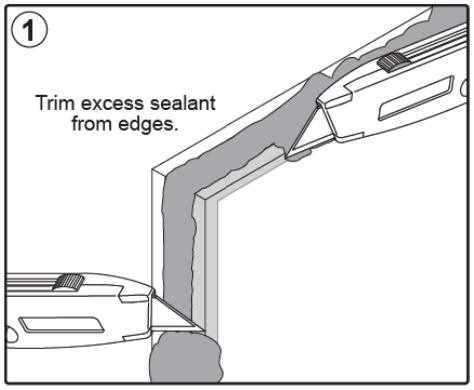


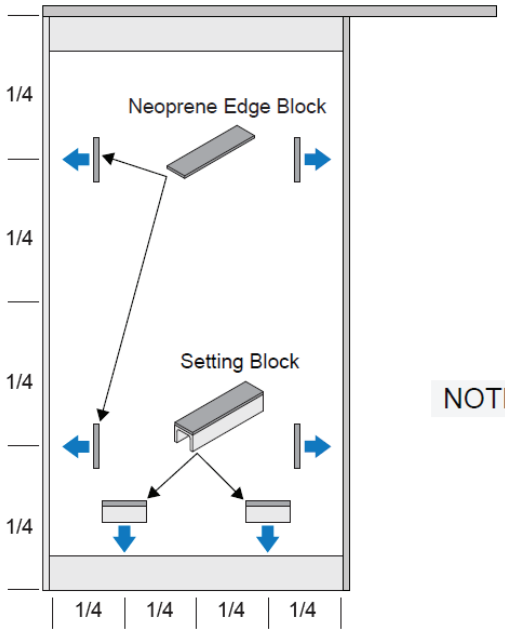




SIDELITE GLASS INSTALLATION

① Trim edges of the glass at face and sides with a sharp utility knife to remove any excess Silicone Sealant.

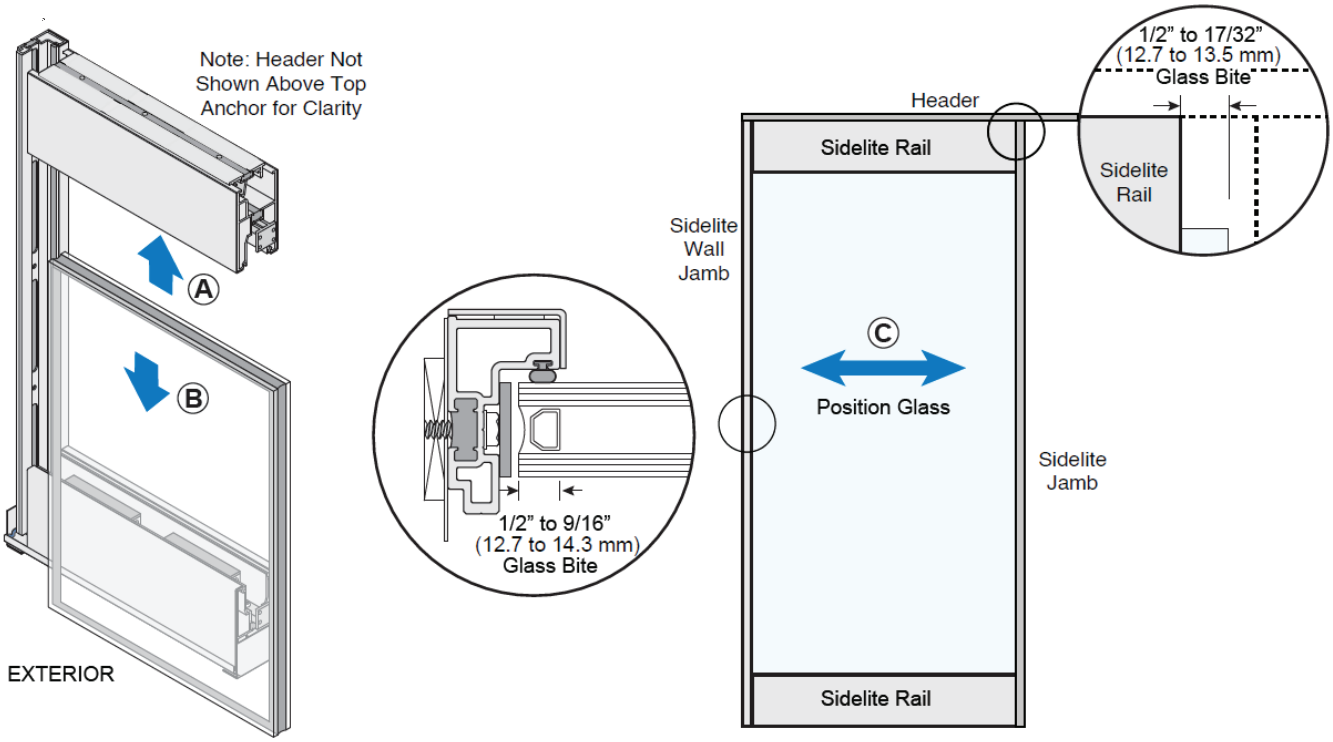




NOTE: Setting Blocks are packed loose with Sidelite Rails.

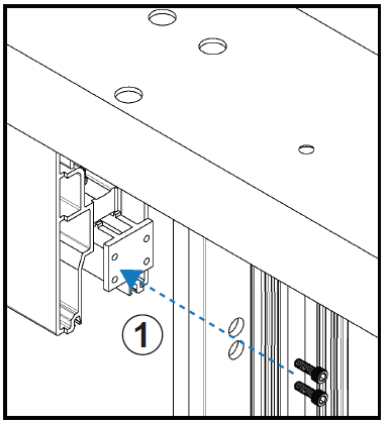
② Place Setting Blocks at quarter points in Bottom Rail, and Edge Blocks at quarter points inside Sidelite Wall Jamb pocket and Sidelite Jamb pocket.

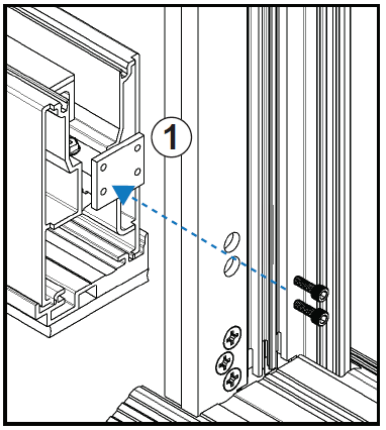
③ Lift and set glass into pocket. Position glass for a minimum glass bite of 1/2”(12.7mm) at both the Sidelite Wall Jamb and Sidelite Rail.

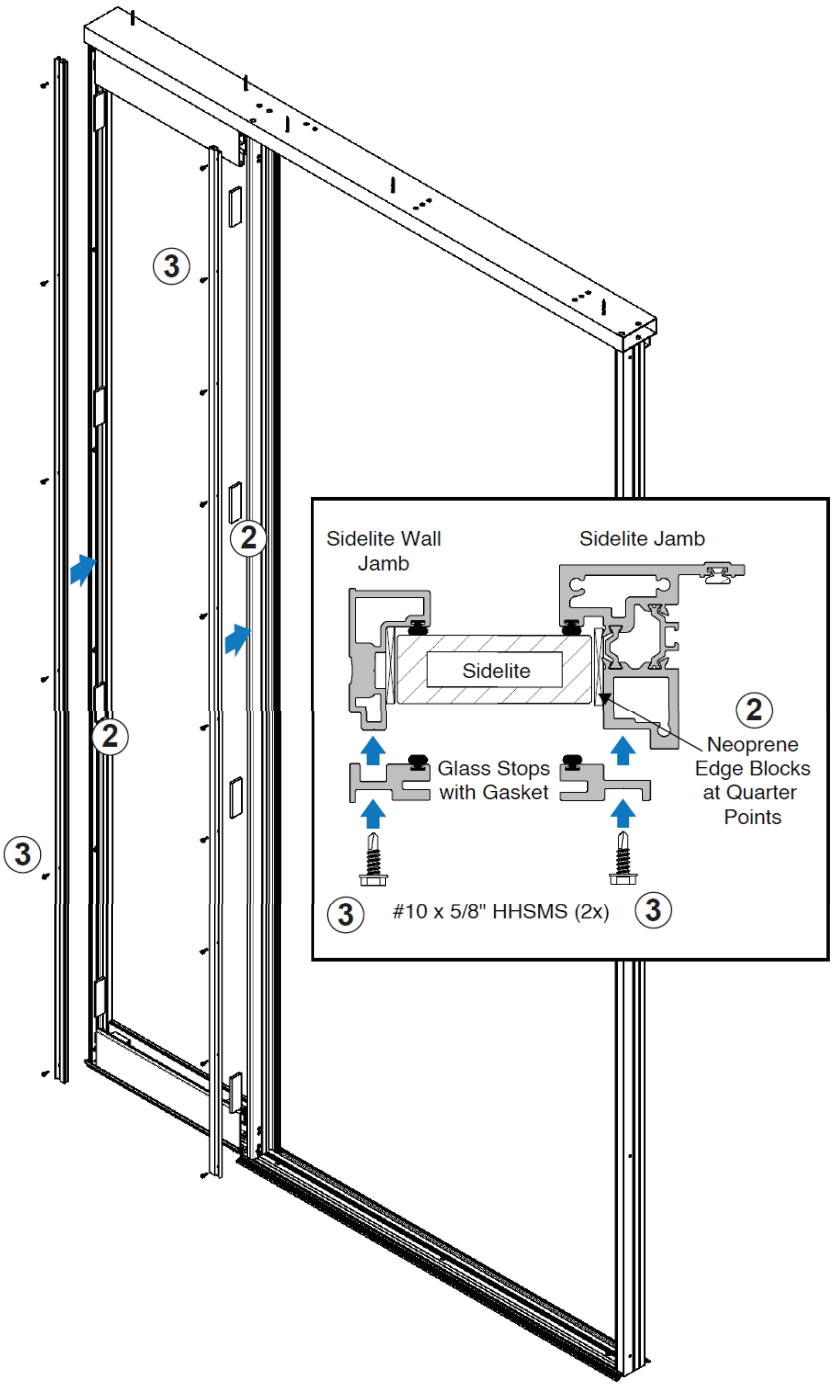


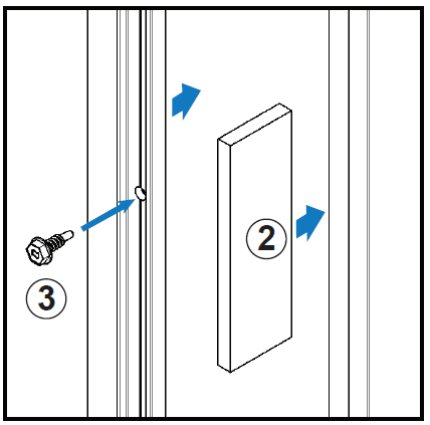
JAMBS AT SIDELITE INSTALLATION

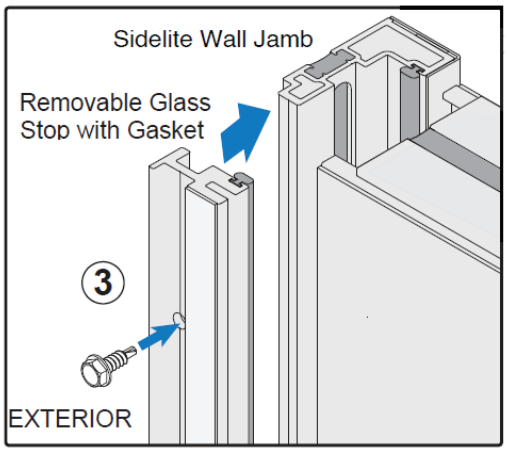
1. Fasten Sidelite Jamb to Top and Bottom Rail Shear Clips with #8-32 x 3/8" Socket Screws (4x).
2. Place Edge Blocks at quarter points inside Jamb pockets. See step 2 of SIDELITE GLASS INSTALLATION.
3. Secure Glass Stop to Sidelite and Wall Jamb at all pre-drilled hole locations with #10 x 5/8" Hex Head Sheet Metal Screw.





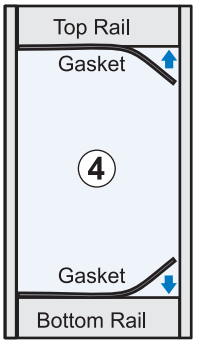




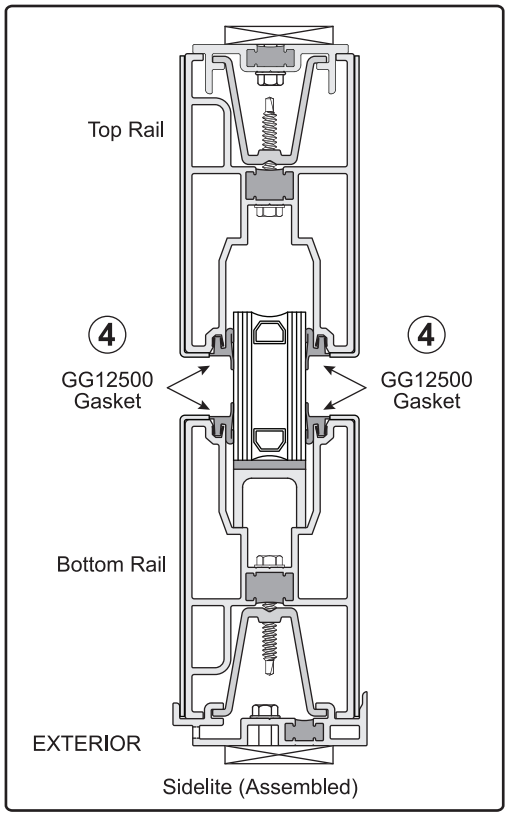


JAMBS AT SIDELITE INSTALLATION (CONTINUED)

④ Roll GG12500 Gaskets into both sides of Top and Bottom Rails with a CRL Vinyl Roller.



Roll Gaskets at interior and exterior Top and Bottom Rails.



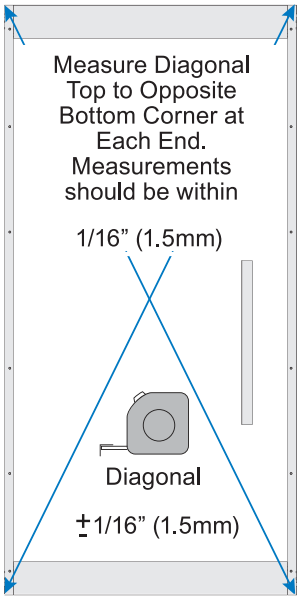
Sidelite (Assembled)

DOOR PREPARATION

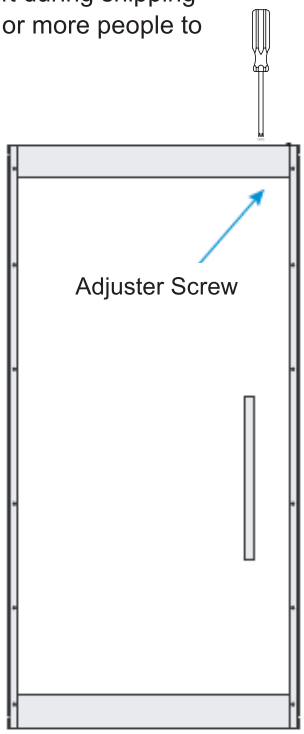
Unpacking

The doors for the Entice System are shipped fully assembled and glazed. The glass may shift during shipping so it is important to follow the preparation procedures to ensure the door is square. Use two or more people to lift doors.

Note: Clad on vertical stiles is applied after door is installed.



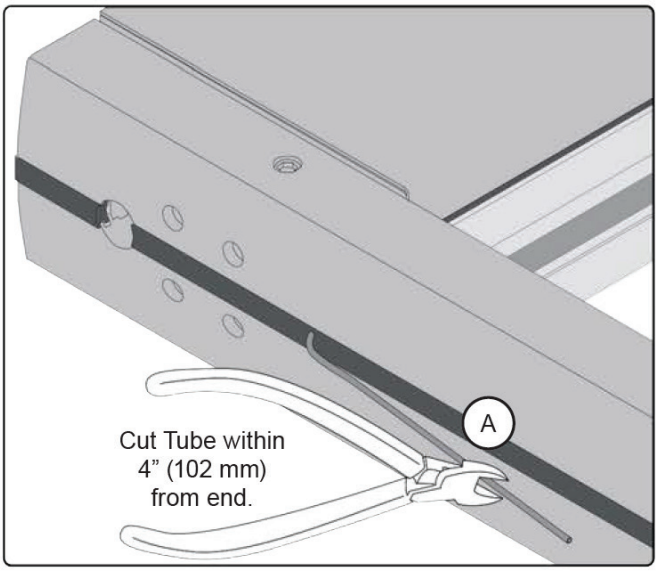
Note: Use a Phillips Screwdriver to turn Adjuster Screw until it is firmly touching the top of the glass. This will hold glass in place and the door square.

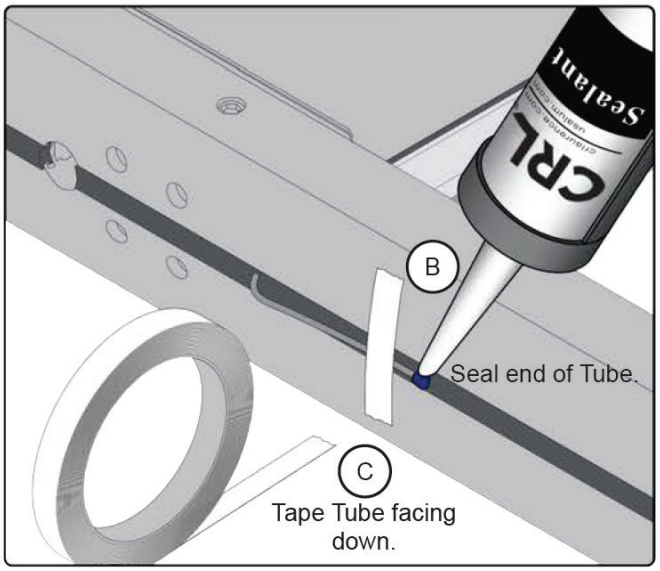


Note: If door is not square, follow instructions on Page 13 to adjust.

Cut the Capillary Tube

A breathing tube is installed to stabilize the glass panel during travel. Cut and seal tube before installation.





Check Handle Alignment

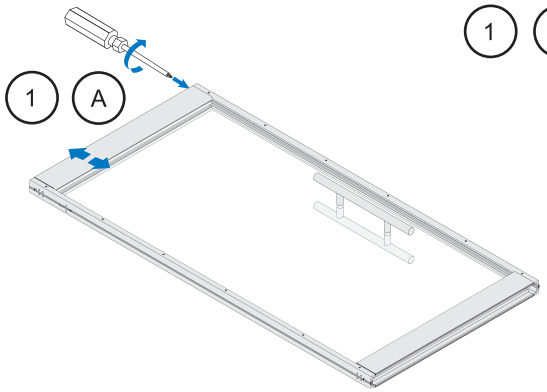
Panic Handles can shift during shipping. Check alignment and adjust when necessary.

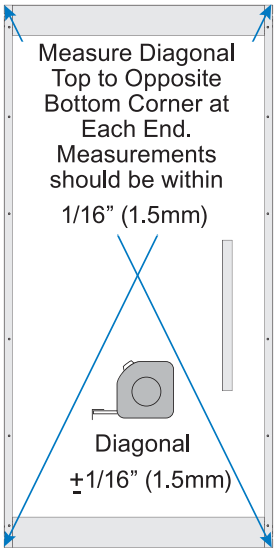
(See panic handle instructions)

DOOR PREPARATION (CONTINUED)

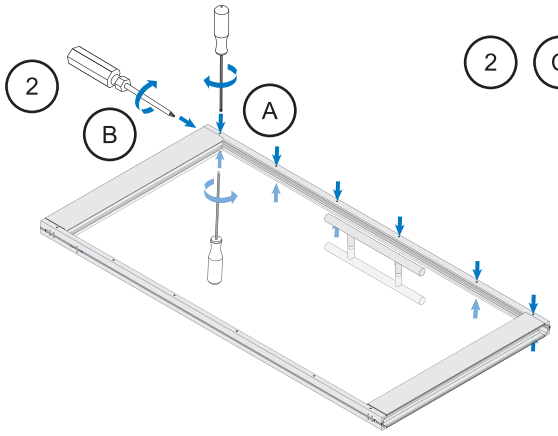
Adjust Door to Square

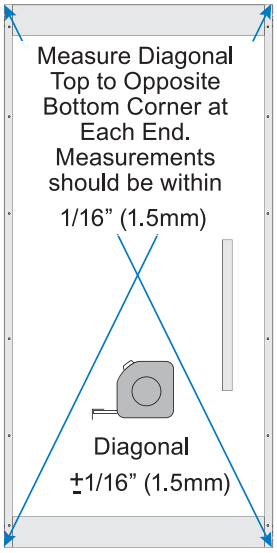
① In most cases, using the Adjuster Screw to raise or lower the handle side of the door will solve the problem. Use a Phillips Screwdriver to turn Adjuster Screw. Check the diagonal measurements again.
If the door is square move on to installation. If not, try Step 2 below



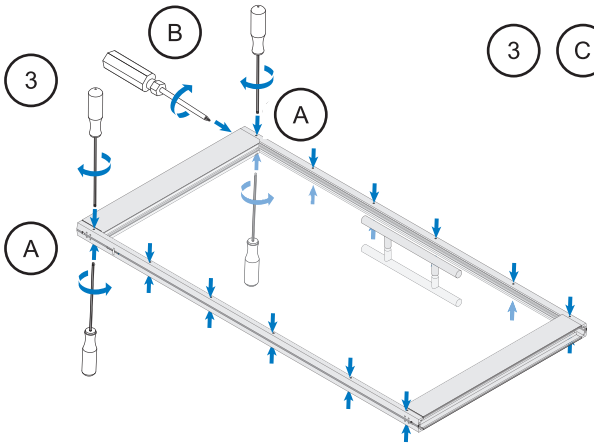


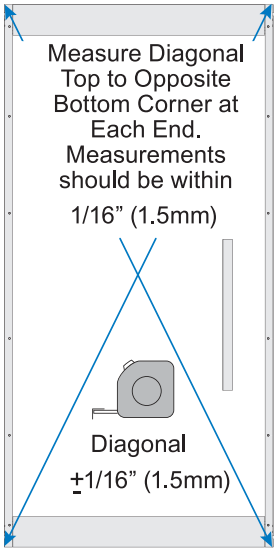
② Loosen the set screws on both sides of the Lead Stile with included Hex Driver. Use Phillips Screwdriver to turn Adjuster Screw. Check measurements again. If the door is square, tighten the set screws and move on to installation. If not, go to Step 3 below.





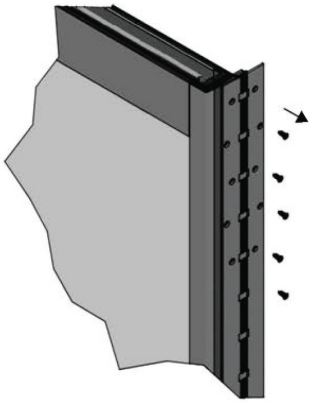
③ Loosen set screws on both sides of Lead and Pivot Stiles. Use Phillips Screwdriver to turn Adjuster Screw. Make sure glass fully rests on bottom setting block. Check measurements. When the door is square, tighten all set screws and move on to installation.



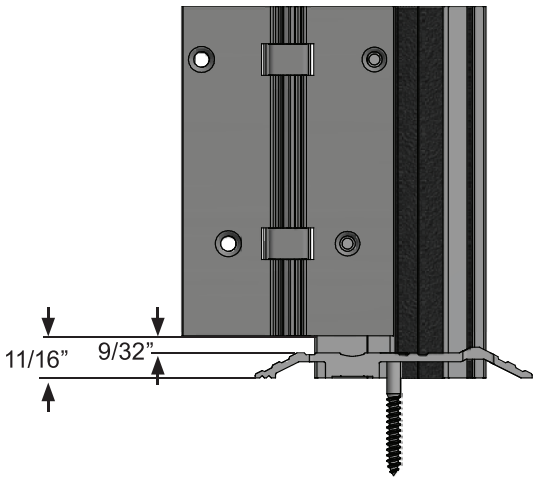


FRAME GEAR HINGE INSTALLATION

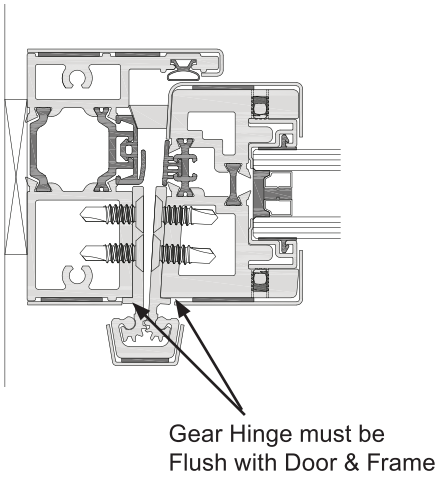
① Locate Door and remove pre-installed Gear Hinge by removing #12 self drilling screws



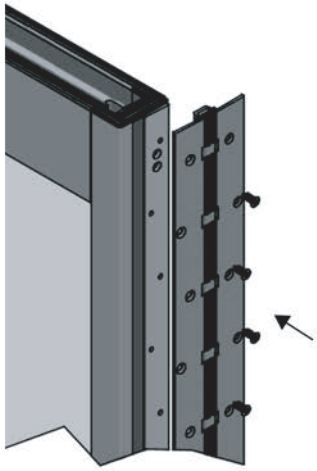
② For hinge side of Frame Jamb, please use the provided gear hinge as a template to prep for #12 pilot holes. Make sure Gear Hinge is installed per dimension shown in image below



2A. Please make sure Gear Hinge butts up flush with Door & Frame



③ Once pilot holes have been prepped on Frame Jamb, re-install gear hinge back onto door



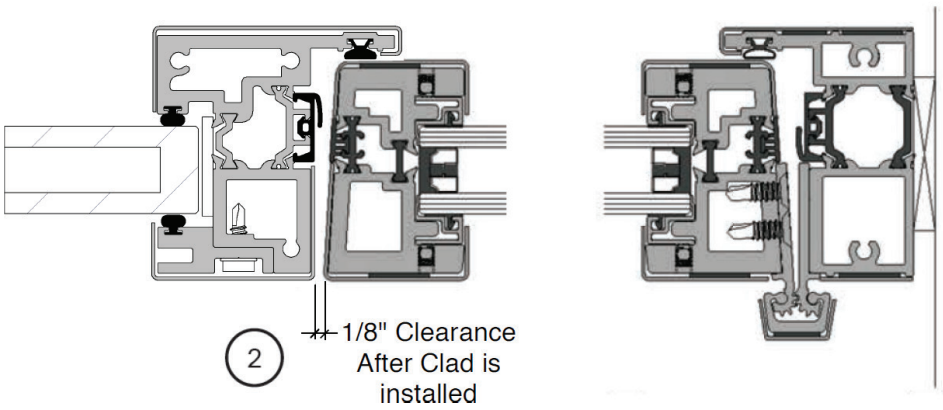
DOOR INSTALLATION

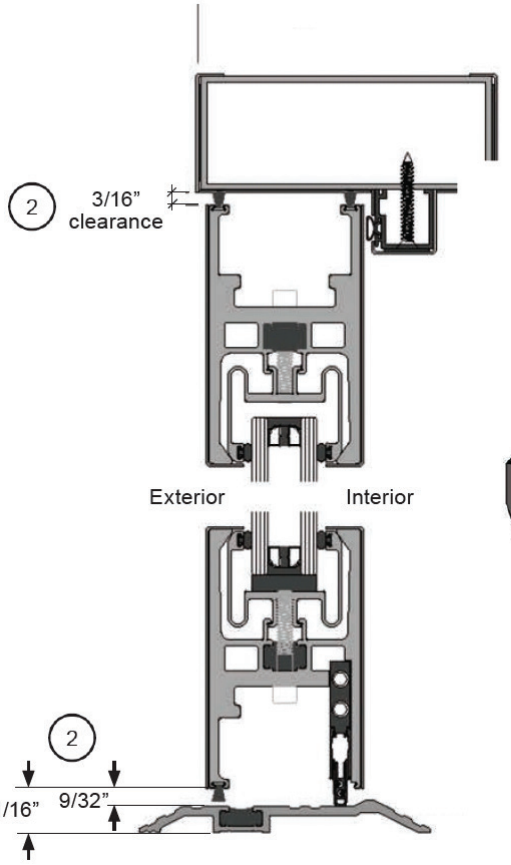
Use two or more people to lift and install the doors. After installation, follow the instructions below to adjust.

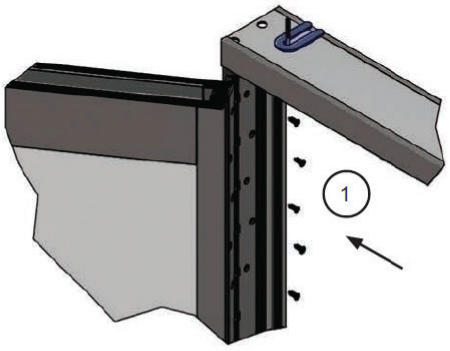
NOTE: Installation varies with hardware selection. Consult Installation Instructions in hardware packages.

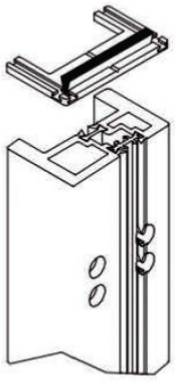
① Once default horizontal and vertical gaps have been set, open door to 90 deg and screw in #12 self drilling screws into pre-drilled holes.

② Once all screws have been fastened check for default clearances, 3/16" clearance between Door and Header, 9/32" between bottom of Door & sill and 1/8" between Door & Frame after cladding is installed.









Optional end caps for the top and bottom of each door stile. These end caps should snap into place after the clad is applied and should be flush with the edge of the cladding.

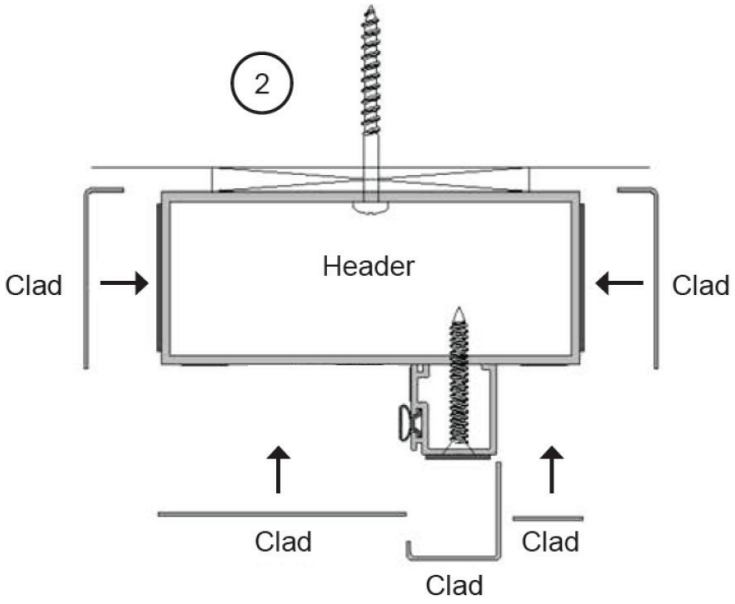
FRAME CLAD INSTALLATION

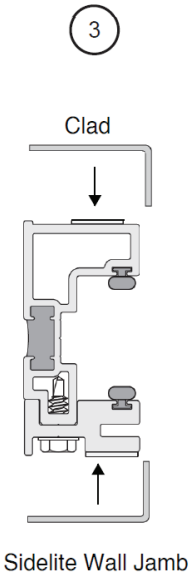
① Begin by removing liner from double sided tape (attached to Header & Frame members)

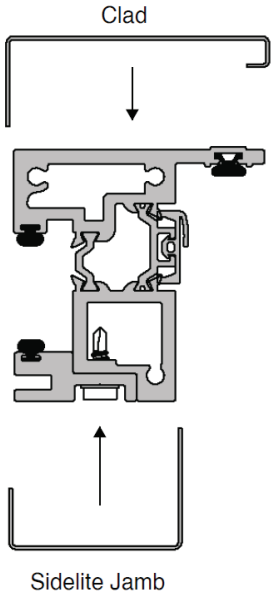
② Apply Clad to Header

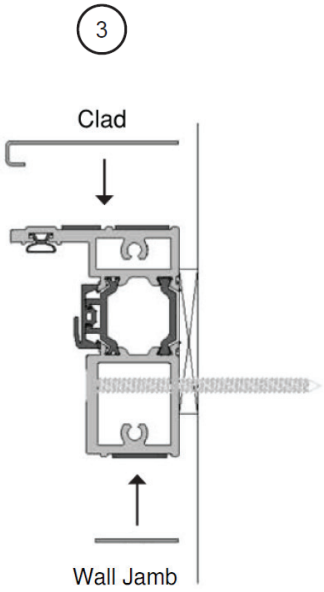
③ Apply Clad to Frame Jambs

Note: Cladding must be applied with smooth even pressure to ensure adhesion and aesthetic make sure to wipe clean cladding using solvent before installing





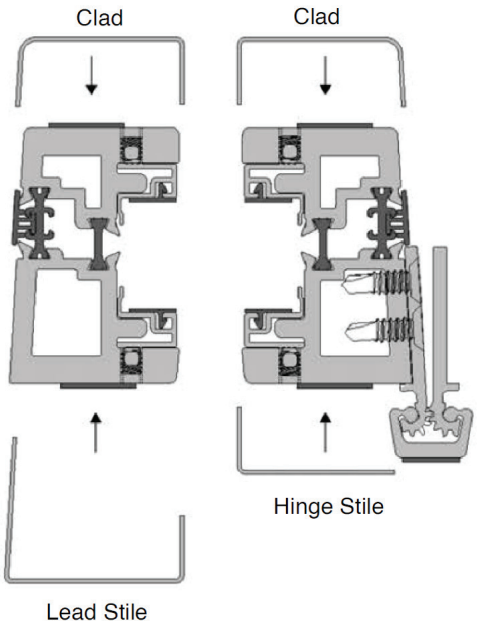




VERTICAL DOOR STILE CLAD INSTALLATION

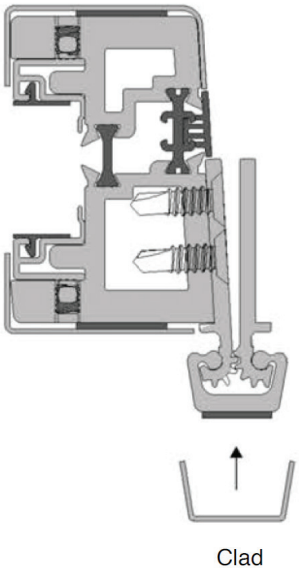
① Clean Cladding using solvent before removing VHB Tape liner for installation; then apply Cladding to the Vertical Stiles.

Note: Apply Clad after Door is installed and adjusted



② Clean Cladding using solvent before removing VHB Tape liner for installation; then apply Cladding to the Geared Hinge.

Note: Apply Clad after Door is installed and adjusted

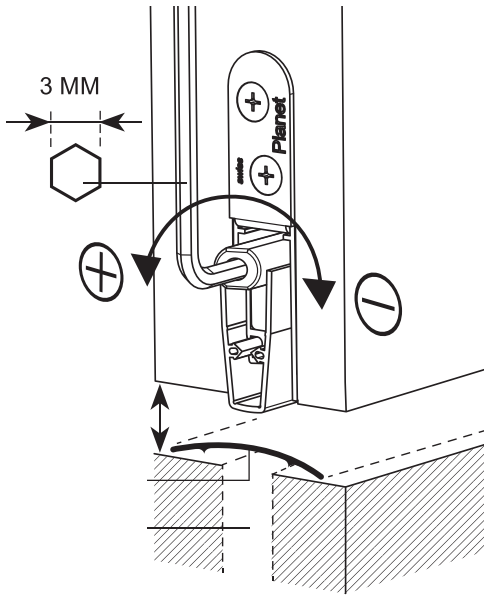


Note: Door Rail Clad will be pre-installed by CRL

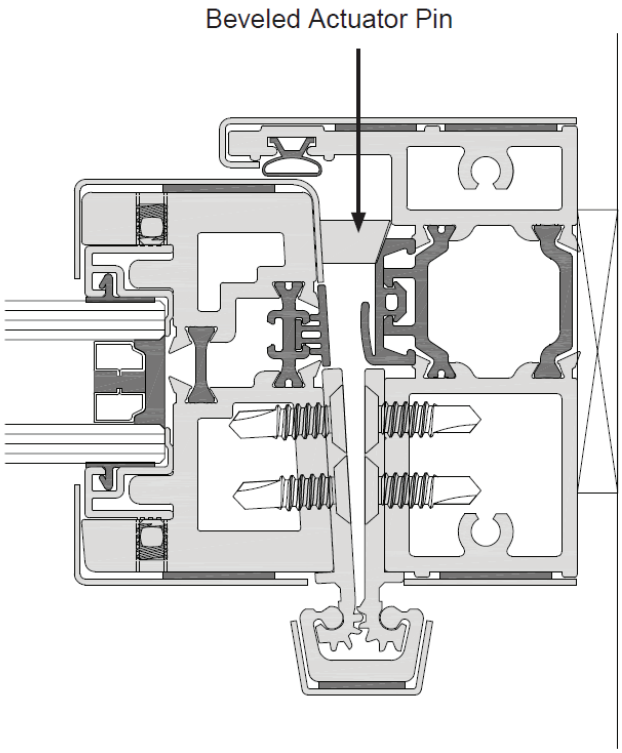
DROP SEAL ADJUSTMENT

① For Drop Seal adjustments; lift height adjustment with allen key (3mm) and avoid pressing to the sill.

Note: Installation varies with hardware selection. Consult Installation Instructions in hardware packages.

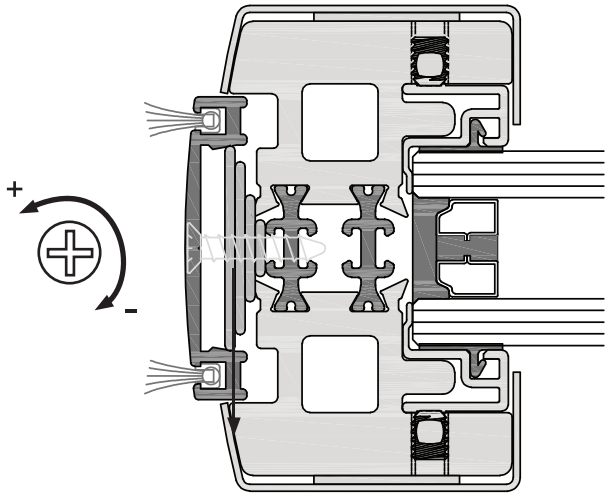


② Please note the orientation of the beveled actuator below. Actuator contact with frame jamb will engage drop seal.

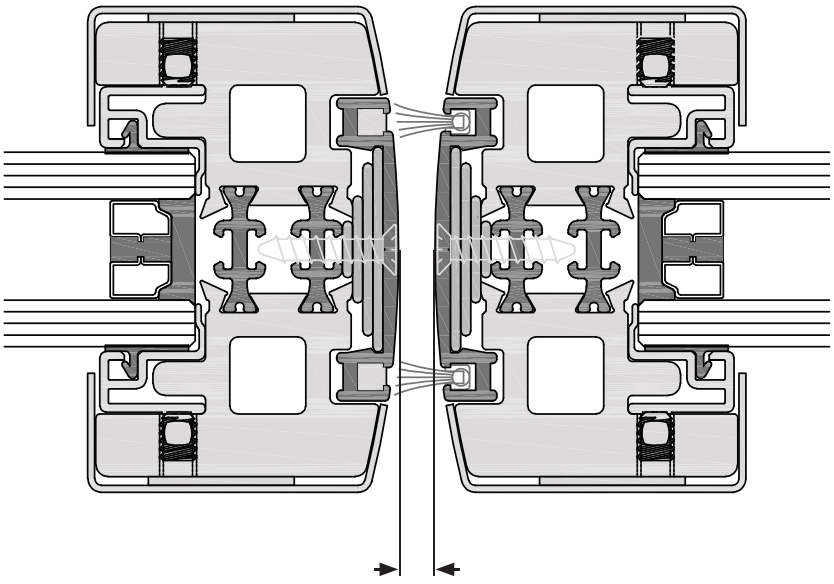


DOUBLE DOOR ASTRAGAL ADJUSTMENT

① Astragal projection is fully adjustable. Turn Phillips head counter-clockwise to increase projection, and vice-versa.
Note: Installation varies with hardware selection. Consult Installation Instructions in hardware packages.

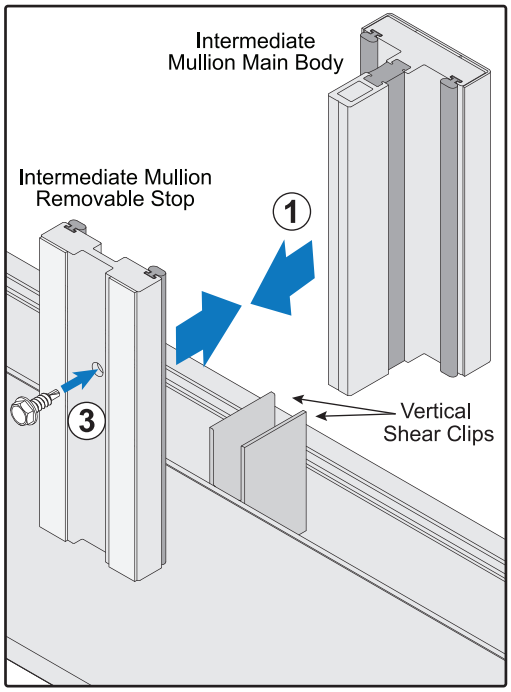


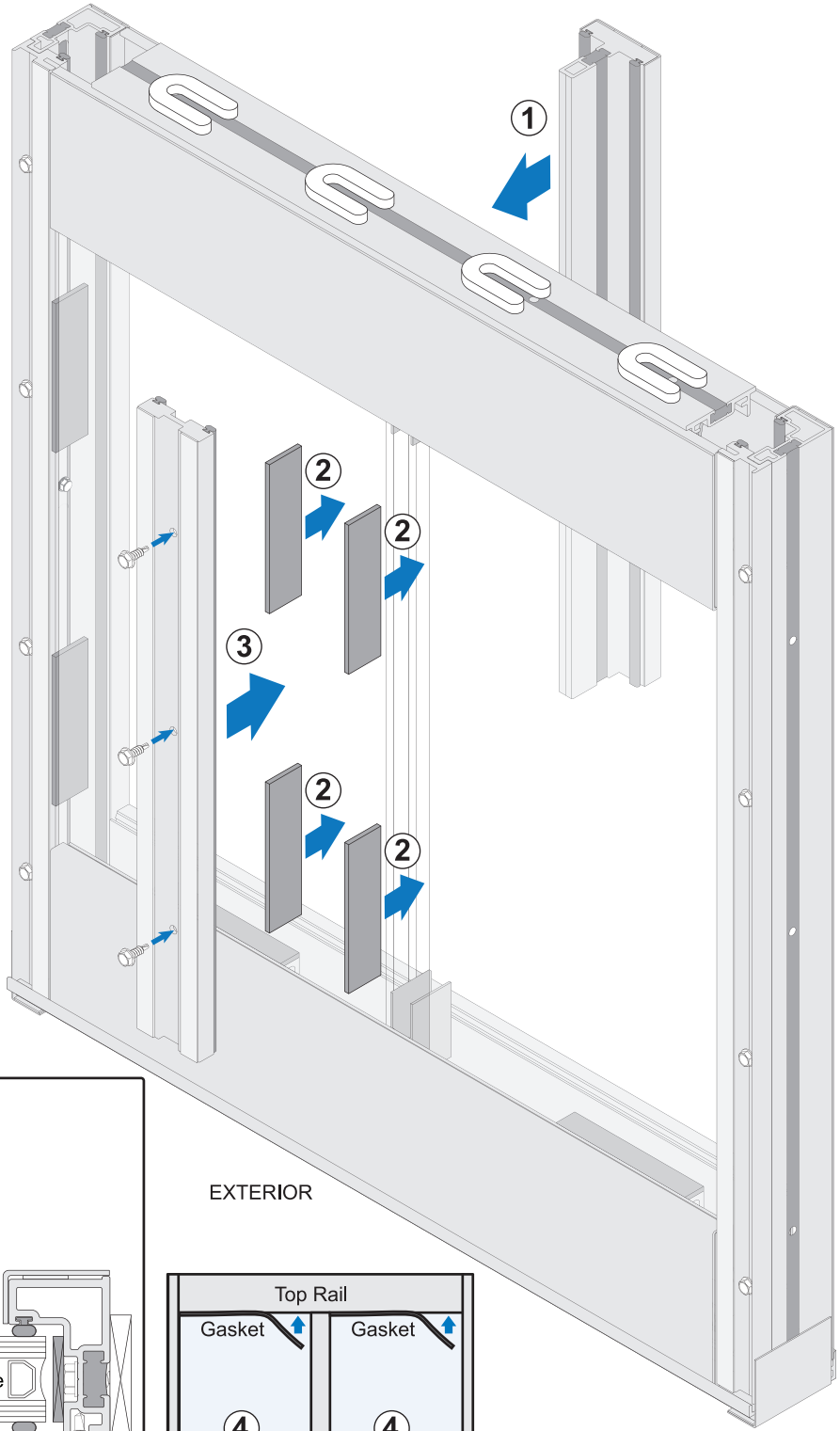
② Adjust astragal to nominal dimension of 3/16” between Meeting Stiles.

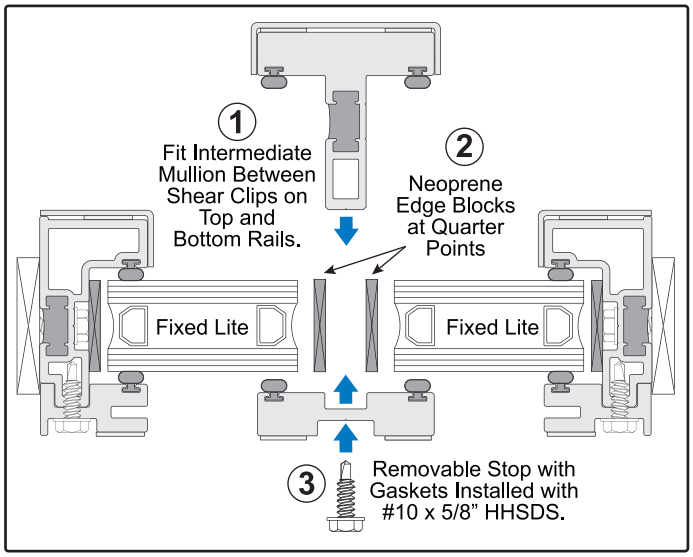


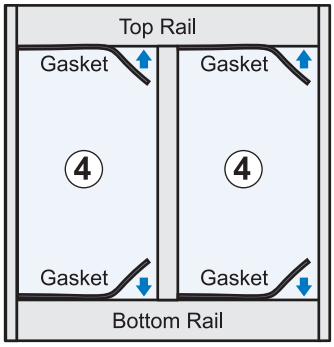
INTERMEDIATE VERTICAL MULLION INSTALLATION

1. Fit Vertical Mullion Main Body between Vertical Shear Clips.
2. Place Edge Blocks at quarter points on both sides of Vertical Mullion.
3. Install Removable Stop with screws at all predrilled hole locations.
4. Roll NP238 Gaskets into both sides of Top and Bottom Rails.









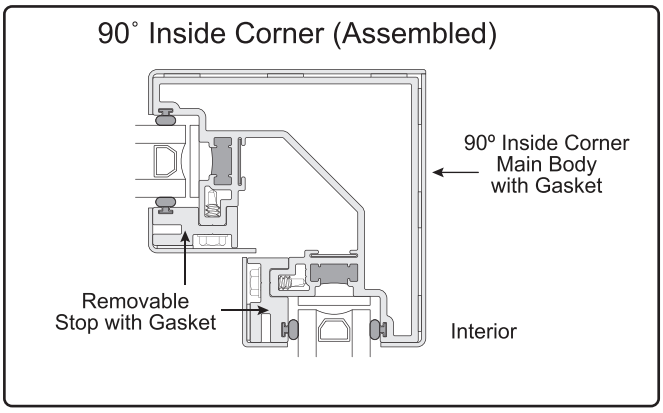
Roll Gaskets at each Fixed Lite Interior and Exterior Top and Bottom Rail with CRL Vinyl Roller.

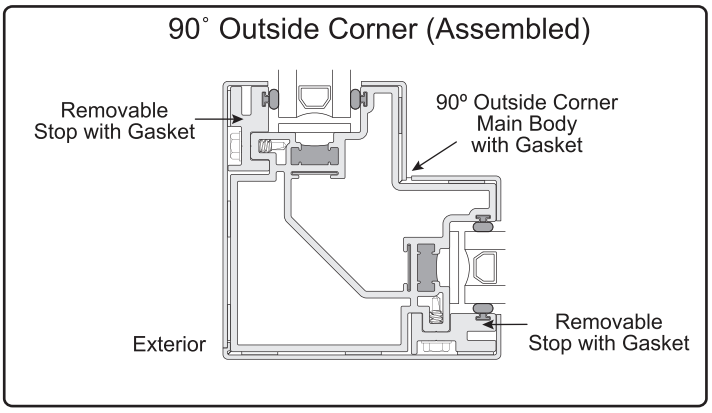
5. Install clad as shown on Page 21.

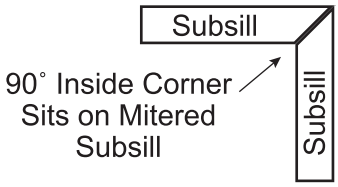
90º INSIDE AND OUTSIDE CORNER INSTALLATION

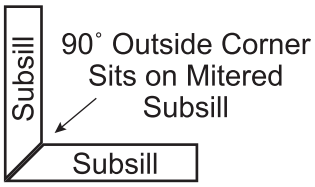
① Install Mitered Subsill and Top Anchor above.

② Install Corner Main Body and Wall or Doorway Jambs on either side of it.

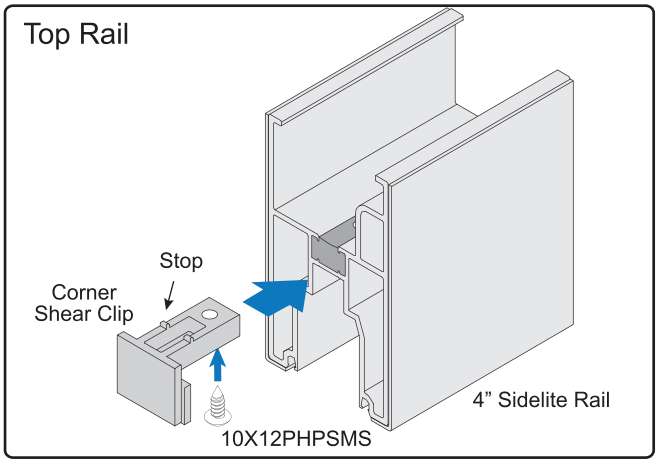


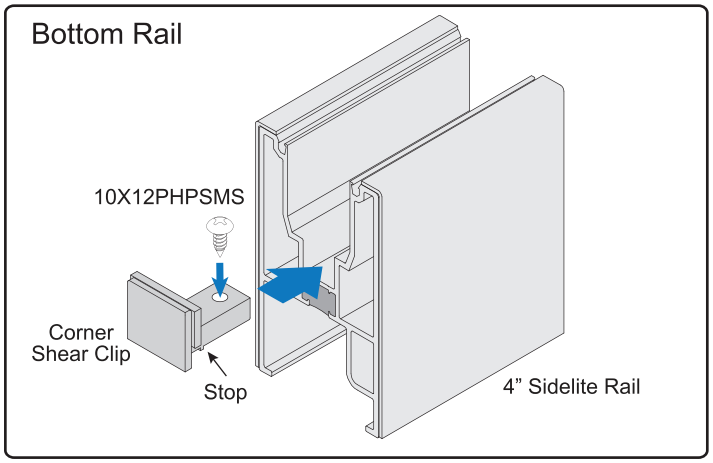




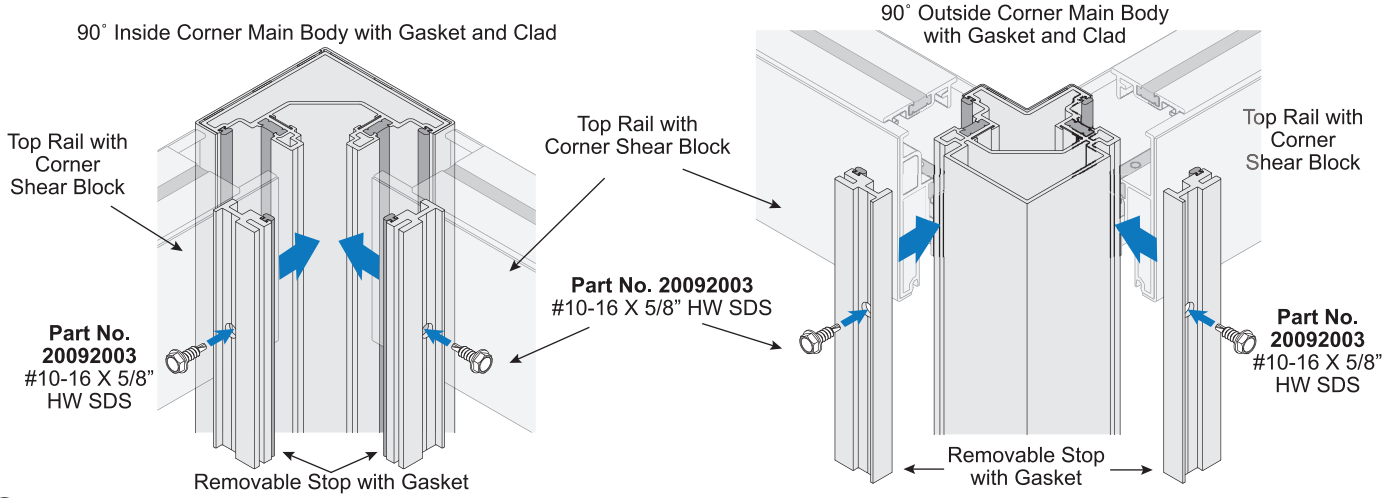


③ Install Corner Shear Clip into ends of Top and Bottom Rails next to Corner.



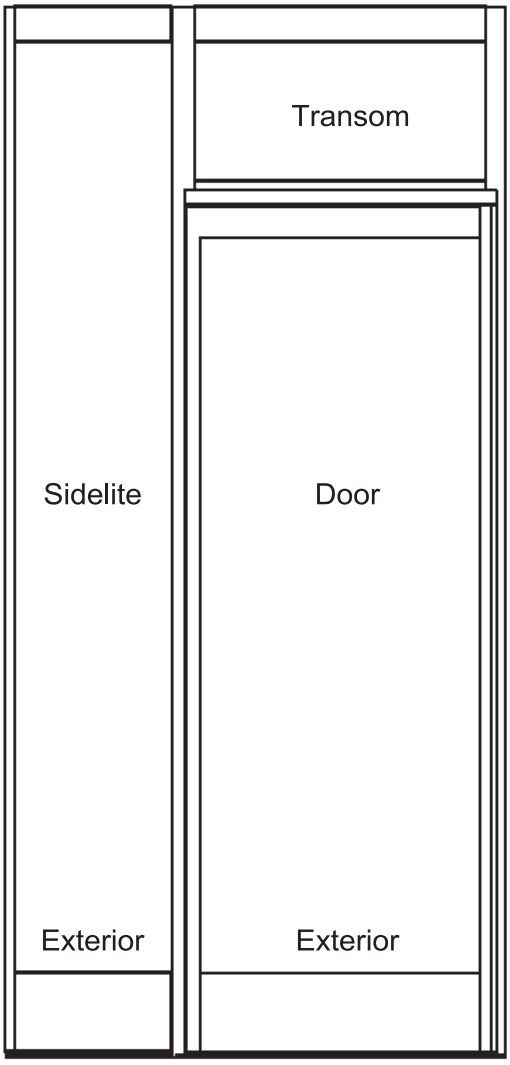


④ Prepare and install glass panels. Secure with Removable Stops.

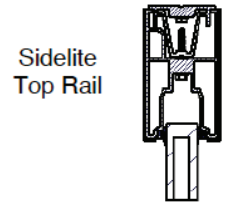


⑤ See Page 21 for Clad Installation.

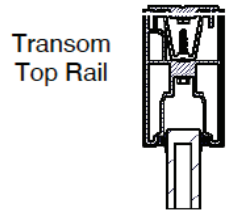
TRANSOM DOOR WITH SIDELITE INSTALLATION OVERVIEW



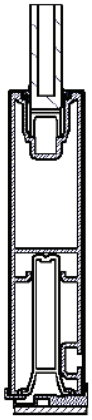
TRANSOM DOOR WITH SIDELITE INSTALLATION OVERVIEW



Sidelite

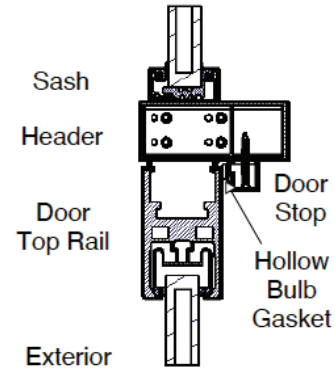


Transom



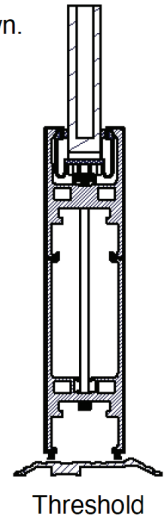
NOTE: 10" Bottom Rail Shown.
4" Bottom Rail Optional.

Subsil

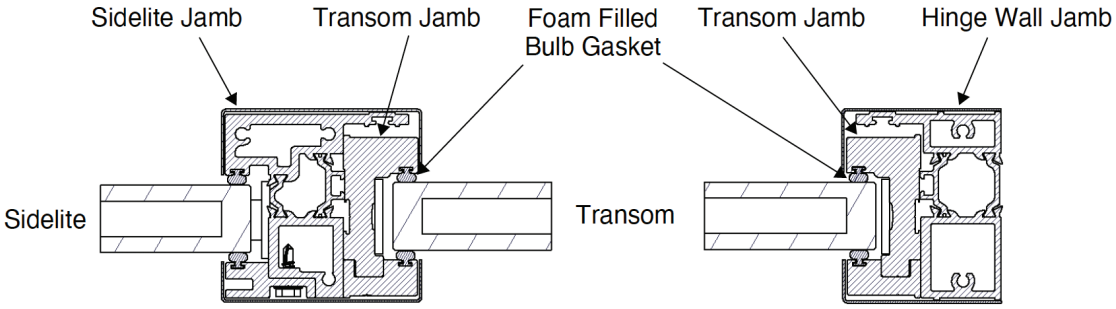


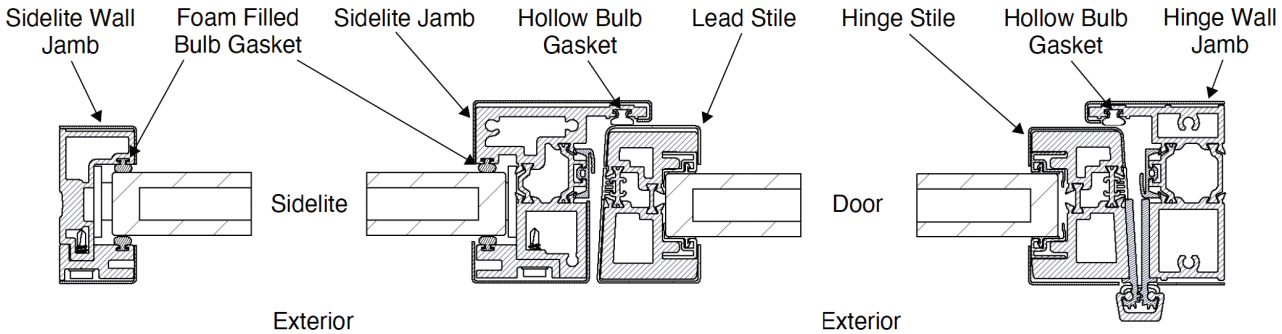
Door

NOTE: 10" Bottom Rail Shown.
4" Bottom Rail Optional.



Threshold





Exterior

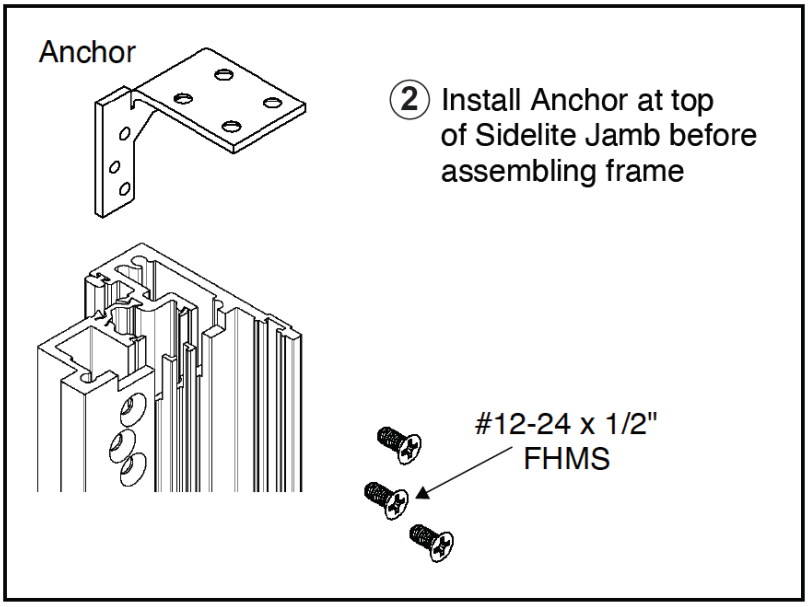
Exterior

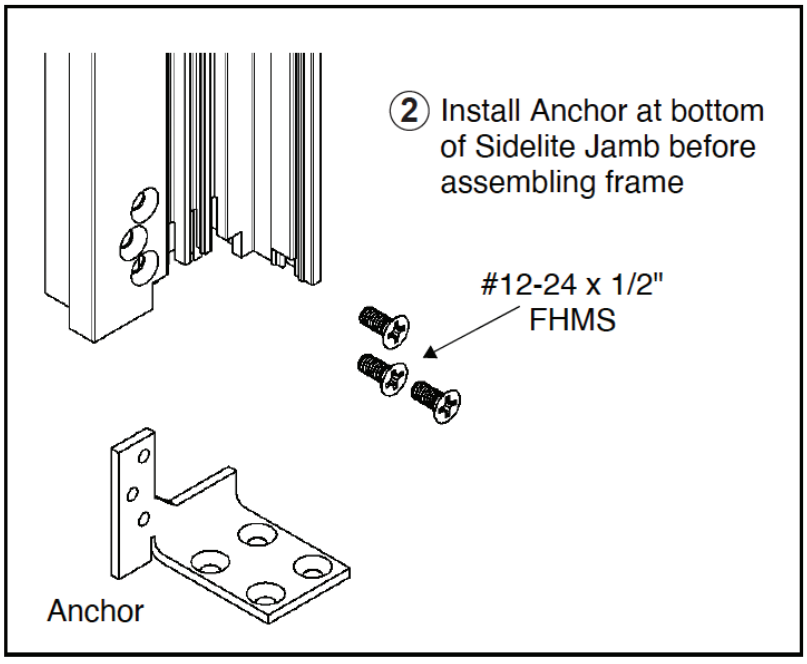
TRANSOM FRAME ASSEMBLY

If required, install closing hardware in Header

① Install Hollow Bulb Gasket into Hinge Wall Jamb, Sidelite Jamb at door, and Door Stop. Install Foam Filled Bulb Gasket on Transom Jambs, Sidelite Wall Jamb, and Sidelite Jamb at Sidelite. Refer to INSTALLATION OVERVIEW on previous page for Gasket locations.

② Install Anchor at top and bottom of Sidelite Jamb with #12-24 x 1/2" FHMS (3x per Clip).





TRANSOM FRAME ASSEMBLY CONTINUED

③ Fasten Shear Clips to Sidelite Jamb and Hinge Wall Jamb using #10-32 x 1/2" SHCS (4x per Clip).

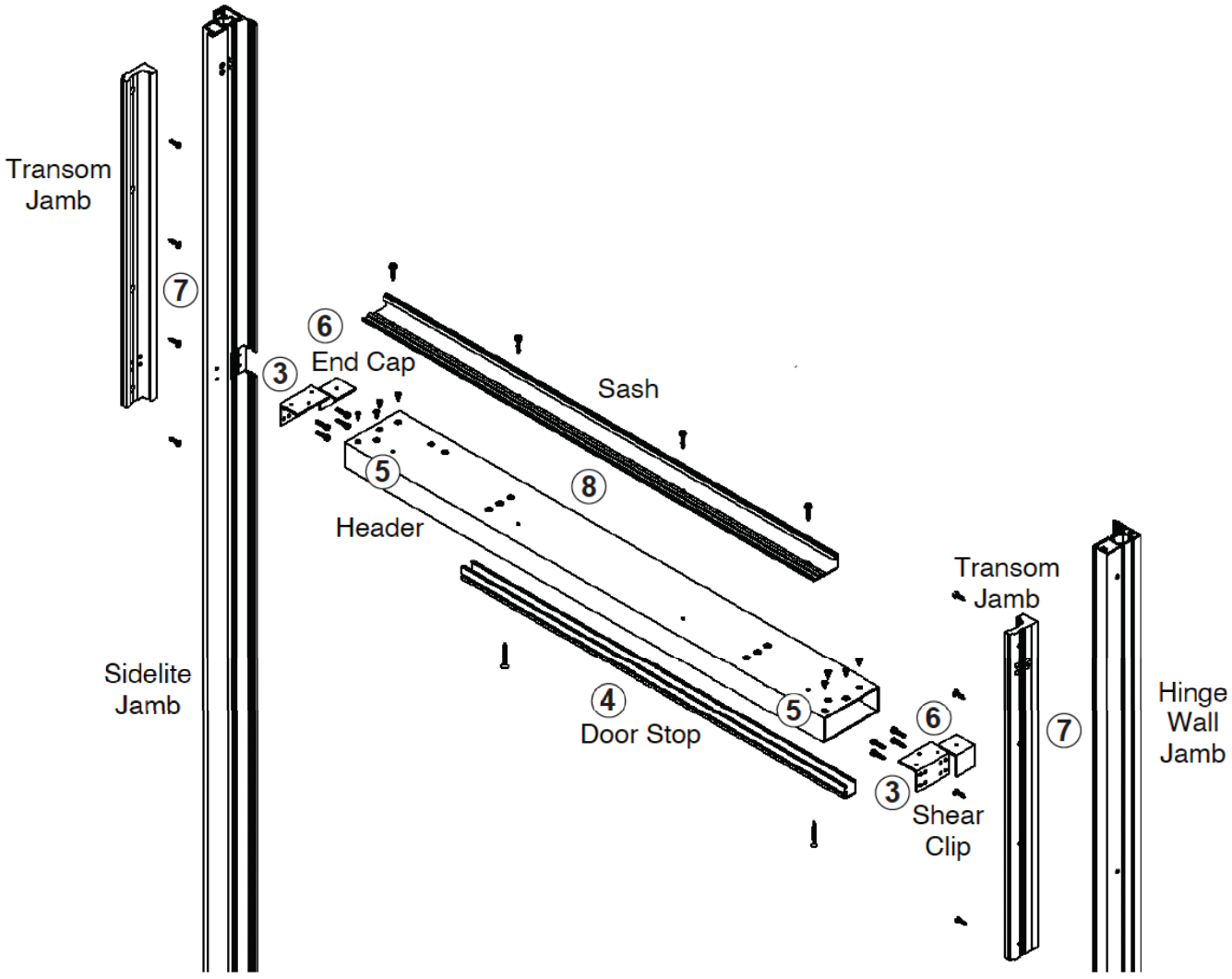
④ Attach Door Stop to underside of Header using #12 x 1 3/4" FHSMS.

⑤ Connect each end of the Header to it's respective Jamb using the Shear Clips and #10 x 1/2" Flat Head SMS (3x per Clip).

⑥ Insert End Caps on ends of header and fasten with #10 x 1/2" Flat Head SMS (1x per End Cap).

⑦ Fasten Transom Jambs to Sidelite and Hinge Wall Jamb using #10-24 x 3/4" PHMS. Before starting this step, first Install the Shear Clip used for the Sidelite Top Rail (see TOP AND BOTTOM RAIL INSTALLATION step of Sidelite Installation Manual.)

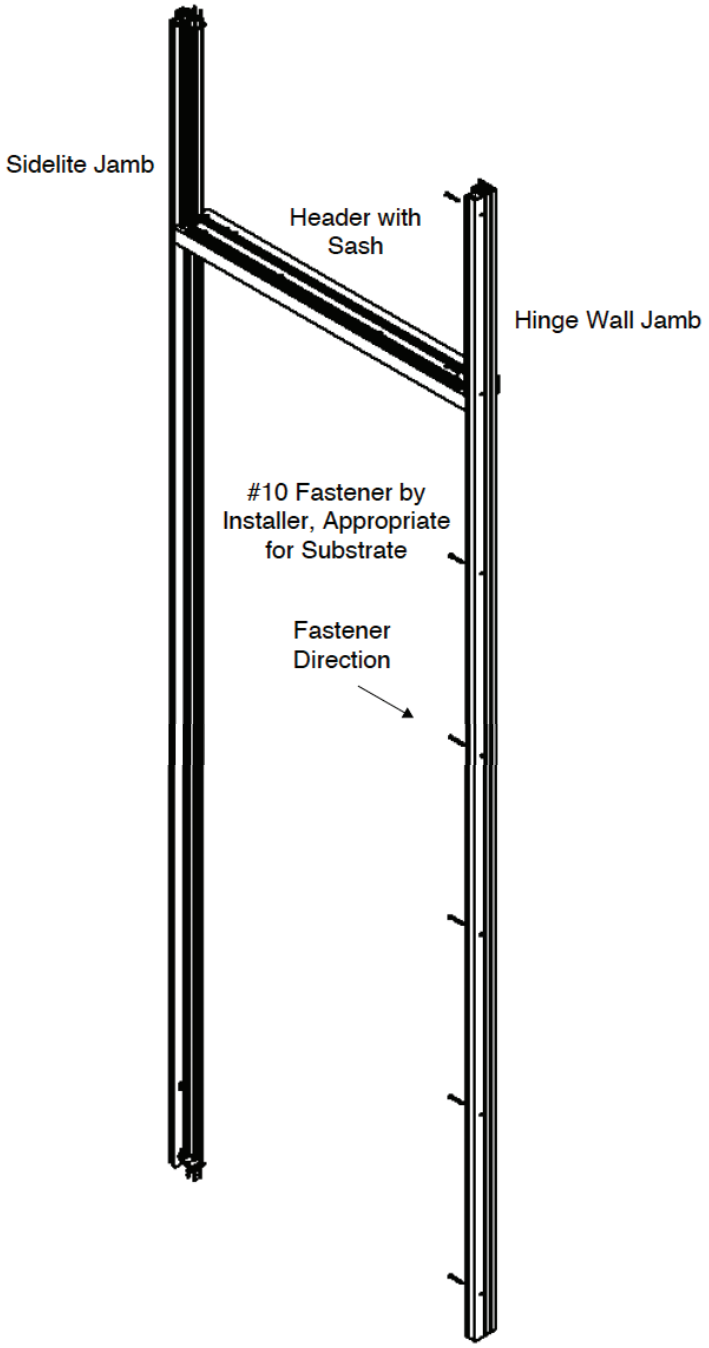
⑧ Attach Sash to Header with #10 x 1" Hex Head SMS.



FRAME MOUNTING INSTALLATION

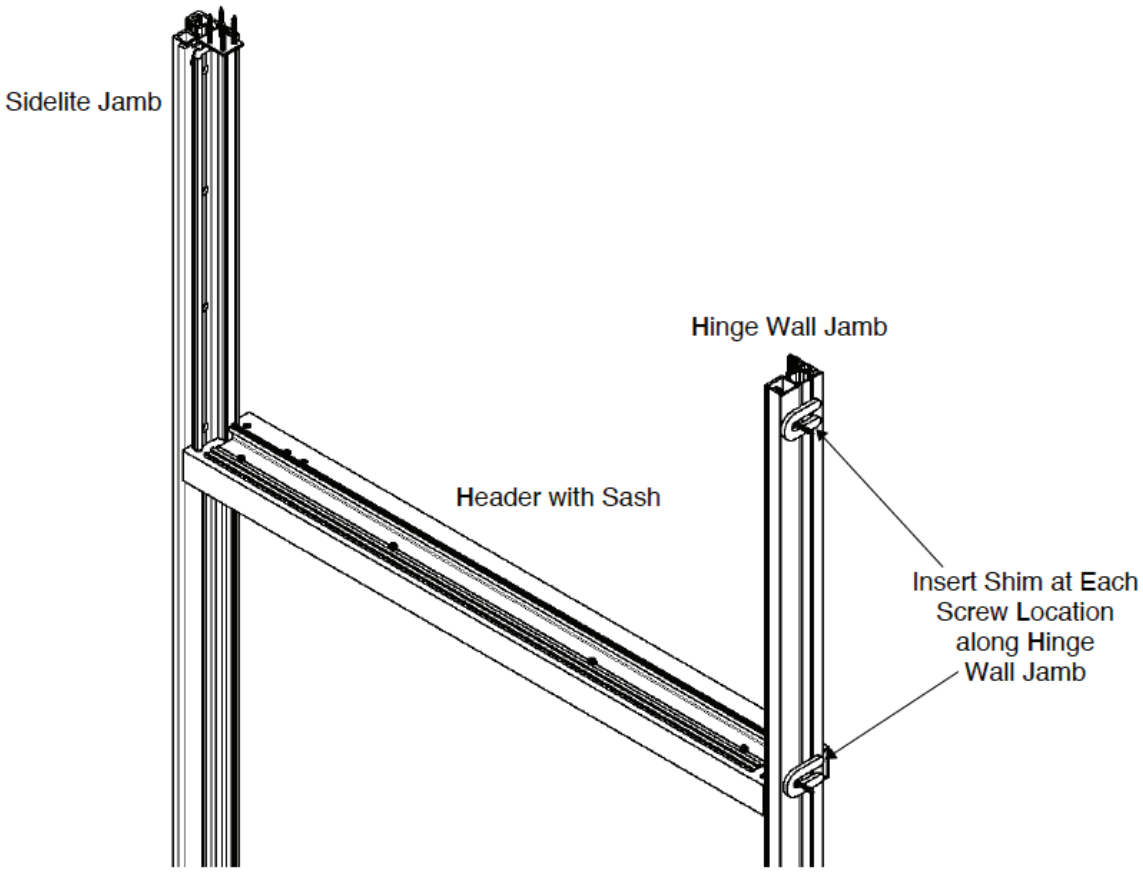
① Install H-Frame into rough opening.
Note: Rough opening should be at least 1/2” wider and 1/2” taller than the frame dimensions to accommodate the perimeter seal

② Level and mount H-Frame using #10 Frame Fasteners Appropriate for Substrate (by installer).
Note: Fasten to hold frame in place. Do not tighten fully, use pre-drilled installation holes.

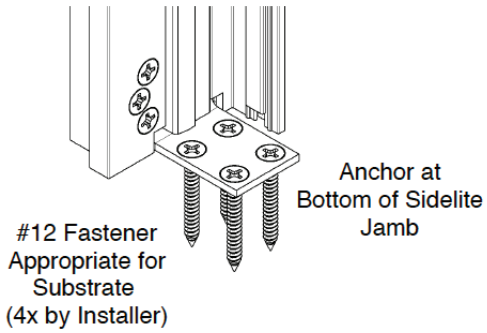


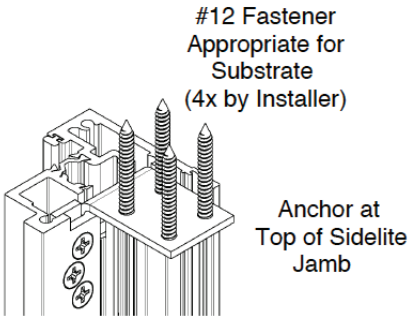
FRAME MOUNTING INSTALLATION CONTINUED

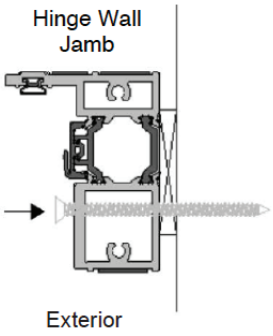
① Shim at each Frame Fastener (#10 by Installer).
Note: Header & Frame should be level, plum & square. Use Laser LD200 - CRL Cross-Line Self Leveling Laser Kit to aid in installation.



② Once Shims are installed/placed, proceed with fully fastening Anchor & Frame Screws into place.







TRANSOM TOP RAIL INSTALLATION

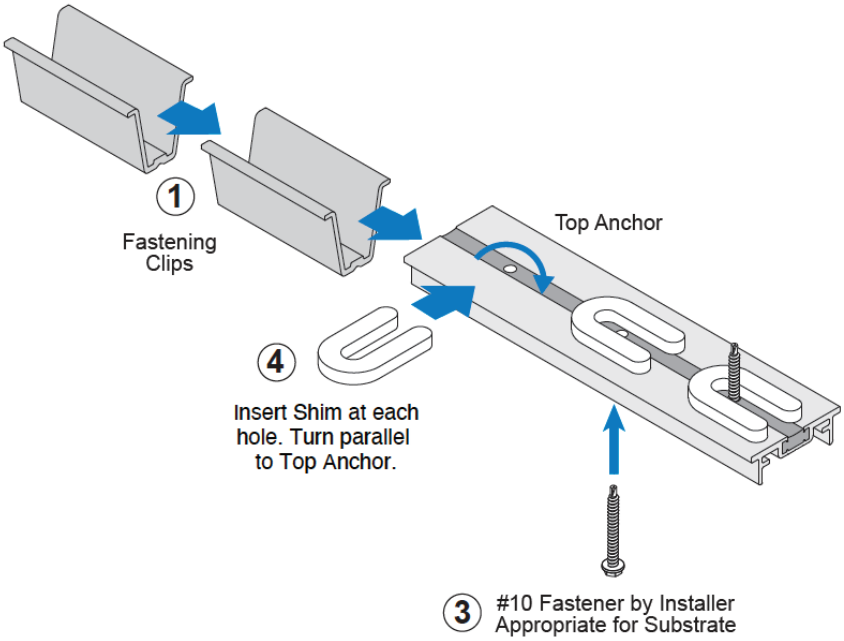
① Slide Fastening Clips into Top Anchor.

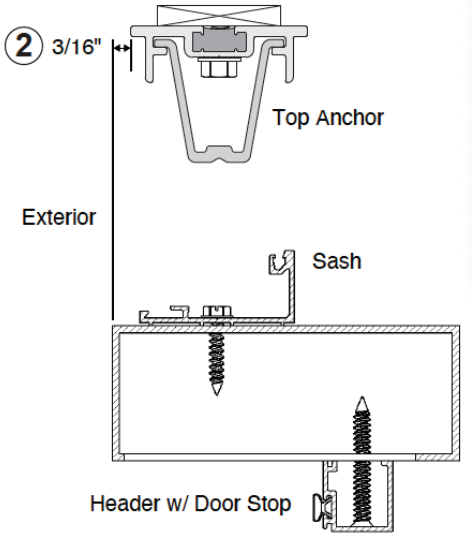
② Laser align the exterior side edge of the Top Anchor 3/16" back from the exterior side face of the Header.

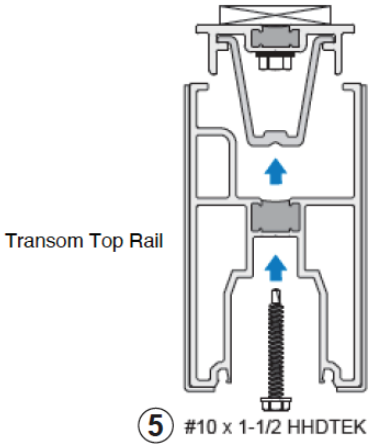
③ Mount Top Anchor to substrate using a #10 fastener appropriate for substrate.

④ Insert Shim at each hole and turn parallel to Top Anchor.

⑤ Align Fastening Clips with holes in Transom Top Rail and secure.





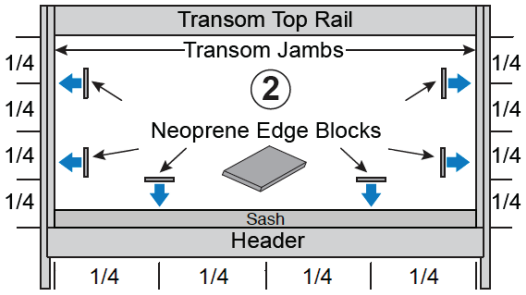


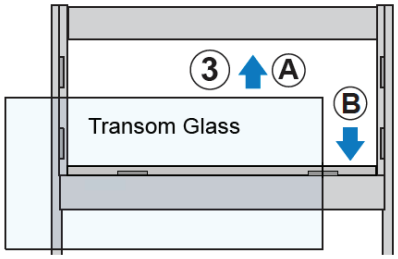
TRANSOM GLASS INSTALLATION

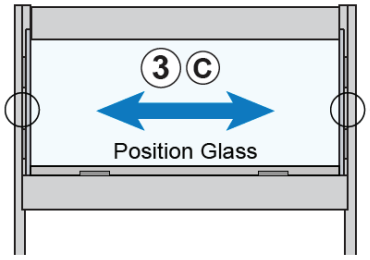
① Trim edges of the glass at face and sides with a sharp utility knife to remove any excess Silicone Sealant.

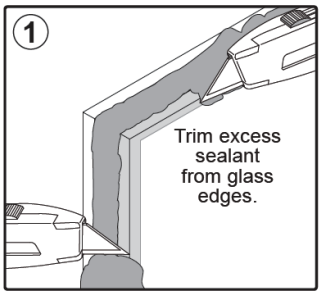
② Place Setting Blocks at quarter points along Sash, and Edge Blocks at quarter points inside Transom Jamb Vertical pocket. Insert interior side horizontal glazing gaskets (GG12500 & NP225)

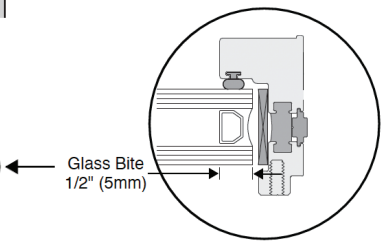
③ Lift and set glass into pocket.







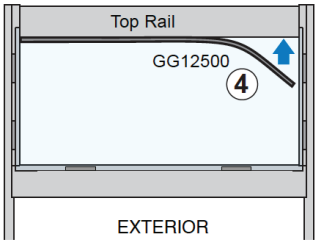


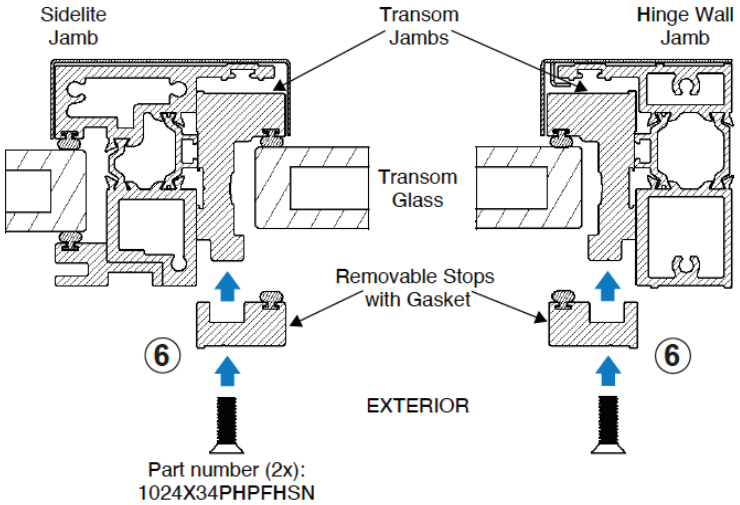


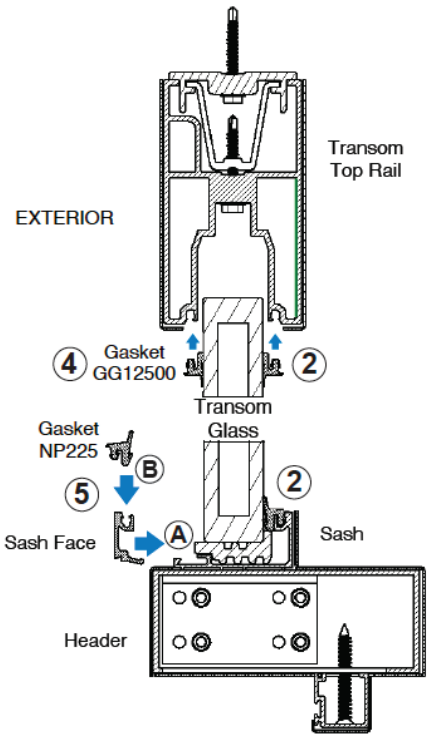
④ Roll GG12500 into exterior side of Transom Top Rail with a CRL Vinyl Roller.

⑤ Place Sash Face onto Sash and then insert NP225 into Sash Face.

⑥ Install Removable Stop with Gasket at Transom Jamb and secure with screws (part no.1024X34PHPFHSN) at all predrilled hole locations.







FRAME AND TRANSOM CLAD INSTALLATION

① Begin by removing liner from double sided tape (attached to Jambs & Sash members).

② Apply Clad to Sash and Sash Face.

③ Apply Clad to Jambs.

Note: Cladding must be applied with smooth even pressure to ensure adhesion and aesthetic make sure to wipe clean cladding using solvent before installing