

acme 50

installation manual

Acme 50



Architecturally designed, seamless glass wall

Acme 50 is a seamless glass wall that defines space while maximizing daylight. A slim profile coupled with steel construction allows for solid architecture with a minimalist aesthetic. Clean lines enhance any corporate, creative or architectural environment.

Features & Benefits:







- Modern, slimline aesthetic with 1 1/2" profile
- Seamless butt-joined glass
- Available with either 3/8" or 1/2" thick glass
- Specialty glass options
- 3-way "T" condition and corner conditions without posts offer clean, uninterrupted aesthetic
- Framed glass door available up to 120" high
- Sliding, hinged and pivot doors are available with framed glass options and matching 1 1/2" stiles and rails
- Full or half-height locking door pulls
- Utilizes US-made hardware and cylinders to be compatible with existing master key systems
- Up to 1" of total adjustability
- 36-39 STC rating for glass panels
- Acme 50 can contribute towards points for LEED projects
- Manufactured with eco-friendly materials such as high recycled content steel
- FSC® Certified wood veneer doors
- Manufactured with 500 miles of projects in Chicago, Boston, New York and Washington, DC.



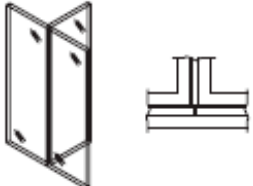
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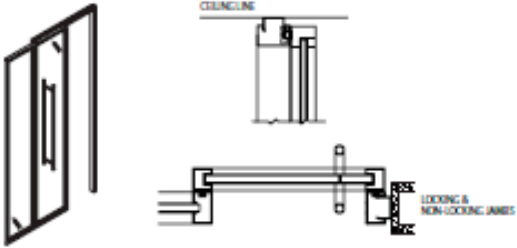
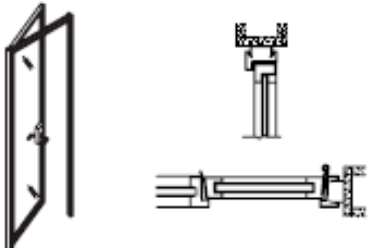
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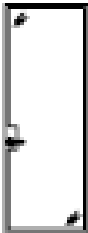

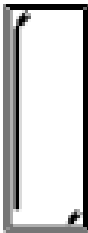
Glass Installation-See video







Statement of Line

Panel Framing					
					
Top & Bottom Framing	Finished End	Wall Start	Corner Condition	3 Way "T" Condition	Bypass Panel

Glass: 1/2" or 3/8" (Standard and specialty glass are available.)		
		
Glass Panel	Frameless Glass Corners	Frameless 3 Way "T" Condition

Door Framing	
	
Sliding Door Frame, Header & Jam	Hinged/Pivot Door Frame, Header & Jam

Doors				
				
Flush Metal Door (Hinged)	Flush Wood Door (Hinged/Pivot)	Full-Lite Door with Lock (Hinged/Pivot)	Frameless Glass Door (Hinged)	Full-Lite Door Pull Thru Glass (Sliding)

Hardware					
					
Cylindrical Lockset	Mortisel Lockset	Frameless Hinged Glass Lock	Sliding Door Lock	72" Tubular Pull	51" Tubular Pull

Required Tool List

Understanding which tools are required and what function they accomplish is critical to a successful installation. One of the most important specialty tools are the Porta-Band Saw. There is field cutting required for the ceiling track, floor track, and all vertical components. If this task is attempted by hand you will find it too time consuming. The porta-band saw offers the best solution and achieves the required professional results.

Standard tools require for Acme installation Quantity

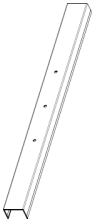

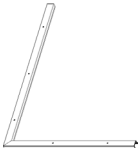


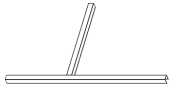

- Porta-Band portable band saw with extra blades(24 tooth) 1
- 18-gauge electric shears. 1
- 1/2" 18-volt drill/driver 1
- 25 foot tapes 1
- Open end wrenches 1/4", 5/16", and 3/8". 1
- Rubber mallets, white rubber 2
- Flat Bar. 1
- 9" Channel Locks 1
- Plumb Bob. 1
- Chalk Box with white or yellow chalk 1
- Craftsman 3/16" screwdriver #41248LWF (plinth screwdriver). 1
- Utility knife with extra blades 1
- Step bit 1/4" – 1 1/8" 1
- 1/8" drill bits 10
- 5/16" drill bits 10
- 50 foot power cord 1
- Left-hand Snips (qty.1) and Right-hand Snips. 1
- Hammer Drill 1
- Deep well socket set (US standard) 1
- 6" tri-square 1
- Screw driver set 1
- Needle-nose vise grip 5" 1
- 3" drywall finishing knife 1
- Masking Tape 1
- 2-foot level 1
- 4-foot level. 1
- File 1
- Drill bit case 1/16"-1/2" 1
- Metal scribe 1
- Drop Cloth 10' x 12' 1
- 6' Ladders 2
- Collapsible Saw Horses 2
- A-Frame Panel Cart 1
- Awl 1
- 10" Compound Mitre Saw with non-ferous blade 1
- Ram set shotgun with 1" nails 1
- Assorted Screws


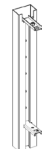



Staging of Material

On any installation the staging of materials is critical to the success of the installation. All rails should be stored flat on a clean floor where available. Care must be taken to protect the finished material as well as the building walls. We generally use the packing material that the product is shipped in to accomplish this.







The material should be unpacked and verified that all components are received and there are no defects in the product. This can be accomplished by reviewing the packing list and drawings to the product received.






Parts & Nomenclature

Tracking Components		
Description		Product Number
Ceiling Channel		INATCC120
Floor Channel		INATFC120
Ceiling Channel Corner		INATCCC
Floor Channel Corner		INATFCC
Ceiling Channel T-Connection		INATCCT
Floor Channel T-Channel		INATFCT
Ceiling Channel Splice		INATCCS

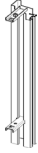

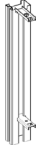



Verticle Components		
Description		Product Number
Vertical Post Assembly		INAVP096
		INAVP102
		INAVP108
		INAVP114
		INAVP120
Vertical End Post Assembly		INAVEP096
		INAVEP102
		INAVEP108
		INAVEP114
		INAVEP120
Bypass Connection Assembly		INAV5BP096
		INAV5BP102
		INAV5BP108
		INAV5BP114
		INAV5BP120
Wall Channel		INAVWC096
		INAVWC102
		INAVWC108
		INAVWC114
		INAVWC120
ByPass Wall Channel		INAVBWC096
		INAVBWC102
		INAVBWC108
		INAVBWC114
		INAVBWC120

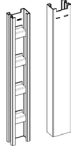
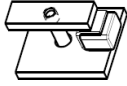
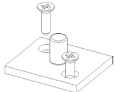
Parts & Nomenclature

Horizontal Components		
Description		Product Number
Floor T-Connection Assembly		INAHFTC
Ceiling T-Connection Assembly		INAHCTC
Rail Spice Assembly		INAHRS
Slide Track Rail Connector Assembly		INASTRCR
Slide Track Rail Connector Assembly		INASTRCL
Floor Anchor Assembly		INAFSA






Horizontal Components		
Description		Product Number
Bottom Rail Assembly		INAHBR024
		INAHBR048
		INAHBR072
		INAHBR096
		INAHBR120
Top Rail Assembly		INAHTR024
		INAHTR048
		INAHTR072
		INAHTR096
		INAHTR120
Top Open Rail Assembly & Cover		INAHTORA024
		INAHTORA048
		INAHTORA072
		INAHTORA096
		INAHTORA120
Floor Corner Rail		INAHFCR
Ceiling Corner Rail		INAHCCR





Parts & Nomenclature

Sliding Door Frame Components		
Description		Product Number
Sliding Door Frame Post Assembly		INASDFP096R/L
		INASDFP102R/L
		INASDFP108R/L
		INASDFP114R/L
		INASDFP120R/L
Sliding Door Frame Locking Post Assembly		INASDFLP096R/L
		INASDFLP102R/L
		INASDFLP108R/L
		INASDFLP114R/L
		INASDFLP120R/L
Sliding Door Frame Open Post Assembly		INASDFOP096R/L
		INASDFOP102R/L
		INASDFOP108R/L
		INASDFOP114R/L
		INASDFOP120R/L
Sliding Door Frame Header Rail Assembly		INASDFHRR/L
Sliding Rail Assembly		INASDFRA38R/L
		INASDFRA48R/L
Sliding Double Door Frame Header Rail Assembly		INASDRDHRR/L

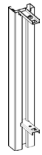



Sliding Door Frame Components		
Description		Product Number
Sliding Door Frame Wall Post Assembly		INASDFWP096R/L
		INASDFWP102R/L
		INASDFWP108R/L
		INASDFWP114R/L
		INASDFWP120R/L
Sliding Door Glide Stopper Assembly		INASDGS
Sliding Door Glide Plate		INASDGS

Parts & Nomenclature

Hinged Door Frame Components		
Description		Product Number
Door Frame Hinged Strike Post Assembly		INAHDFSP096R/L
		INAHDFSP102R/L
		INAHDFSP108R/L
		INAHDFSP114R/L
		INAHDFSP120R/L
Door Frame Hinged Post Assembly		INAHDFHP096R/L
		INAHDFHP102R/L
		INAHDFHP108R/L
		INAHDFHP114R/L
		INAHDFHP120R/L
Door Frame Wall Hinge Post Assembly		INAHDFWHP096R/L
		INAHDFWHP102R/L
		INAHDFWHP108R/L
		INAHDFWHP114R/L
		INAHDFWHP120R/L
Header Rail Hinge Door Assembly-36"		INAHDFHR036
Double Header Rail Hinge Door		INAHDFHR072

Hinged Door Frame Components		
Description		Product Number
Door Frame Strike Post Assembly Frameless Glass Hinge Door		INAFHDFSP096R/L
		INAFHDFSP102R/L
		INAFHDFSP108R/L
		INAFHDFSP114R/L
		INAFHDFSP120R/L
Door Frame Hinge Post Assembly Frameless Glass Hinge Door		INAFHDFHP096R/L
		INAFHDFHP102R/L
		INAFHDFHP108R/L
		INAFHDFHP114R/L
		INAFHDFHP120R/L
Door Frame Wall Post Assembly Frameless Glass Hinge Door		INAFHDFWHP096R/L
		INAFHDFWHP102R/L
		INAFHDFWHP108R/L
		INAFHDFWHP114R/L
		INAFHDFWHP120R/L
Header Rail Frameless Glass Hinge Door-36"		INAFHDFHR036

Parts & Nomenclature

Pivot Door Frame Components		
Description		Product Number
Door Frame Pivot Post Assembly		INAPDFP096R/L
		INAPDFP102R/L
		INAPDFP108R/L
		INAPDFP114R/L
		INAPDFP120R/L
Door Frame Pivot Strike Post Assembly		INAPDFSP096R/L
		INAPDFSP102R/L
		INAPDFSP108R/L
		INAPDFSP114R/L
		INAPDFSP120R/L
Door Frame Wall Pivot Assembly		INAPDFWP096R/L
		INAPDFWP102R/L
		INAPDFWP108R/L
		INAPDFWP114R/L
		INAPDFWP120R/L
Header Rail Pivot Door 36" W		INAPDFHR036R/L

Starting the Installation

Before starting to install the actual product. The following steps should be taken to ensure that all dimensions match and the correct product is on site.

***If for any reasons the dimensions do not match, contact your project manager or Inscape immediately before continuing with the installation.**

Follow these 5 critical steps BEFORE installing any product:

Step 1:

The carpenter must begin by reading the shop drawings, read any notes, check details and layouts. Carpenter must check that all bulkheads have proper blocking for installation of the product. Blocking in the bulkhead is critical and must be installed everywhere the product attaches to the ceiling.

Step 2:

It is critical to check the floor plan dimensions against the actual field dimensions to verify that everything will fit. The system accommodates up to a recommended 1" of adjustment vertically. If the floors deviate by more than 1" in a given span, then there are a couple options: a taller bottom channel or flash patch/level the floor. If the floor deviations are greater than 1", but not within a given span, Inscape will manufacture different post heights to accommodate. Doors with pivot doors may require floor preparation for closer location.

Step 3:

Locate the field location where the partition will be installed and delineate center line dimensions onto the ceiling using a chalk line, establish post center line locations, door and trimmed opening locations.

Step 4:

Establish corner, angle, and 3-way condition locations. Verify centerline dimensions in coordination with established shop drawings.

Step 5:

Transfer the marked lines from the ceiling to the floor to establish centerlines using a laser or plumb lines.

Once the 5 steps are completed, the product is now ready to be installed.

Understanding the Installation Drawings

Floor Plans

The floor plans will show all the partition runs and show all the required dimensions to layout the project. For each dimension on the plans, there are two dimensions. A partition type dimension and a daylight dimension. This simplifies the layout process and eliminates the need for the installer to implement a group of rules such as what should be added at a tee or corner.

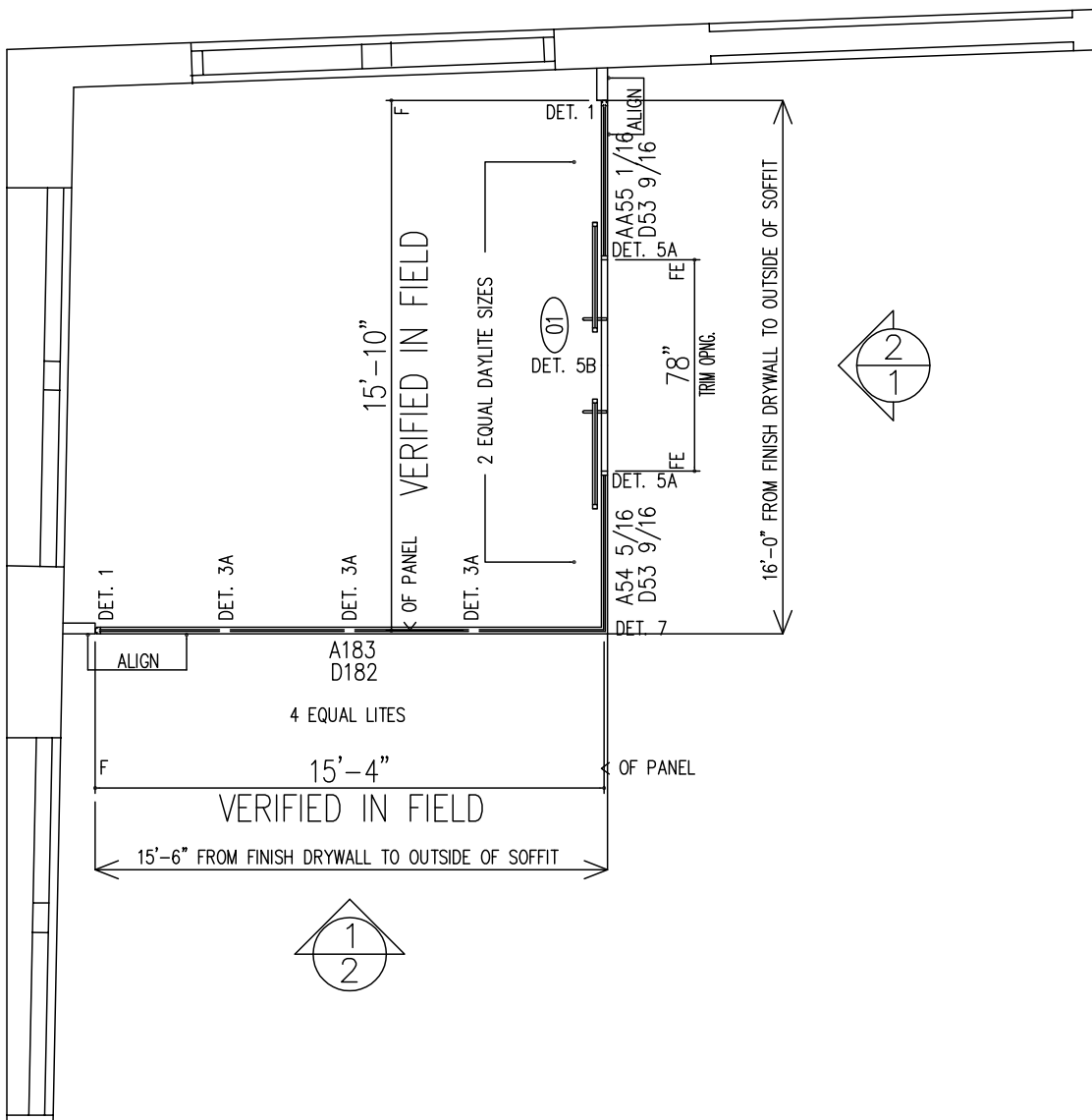
The plans will show the required bill of material, which can be easily cross-referenced to the packing list. The partition and door schedule will be general notes, specifications, and any information that pertains to the project.

Note: The “A” dimension is the center to center dimension from the vertical posts. It also signifies the partition type as shown in the partition schedule which is cross referenced in the sectional drawings.

The “D” dimension is the daylight dimension or the clear dimension between the posts.

PARTITION SCHEDULE										
ACME	50	PARTITION		RECESSED HEAD	N/R	RECESSED BASE	INSTALLED BY: ACME	GLASS AND GLAZING BY: ACME	FINISH: ENAMEL	
TYPE	SEQUENCE	STYLE	PRIN HGT	POST HGT	GLAZING TYPE		GLZ THK	COLOR NO.	COLOR	NOTES
A	ALL GLASS	FLOOR TO SOFFIT	8'-0"	94"	SEE GLASS LEGEND		3/8" & 1/2"	PL328	MOONLIGHT	NO LOOSE MLDG.

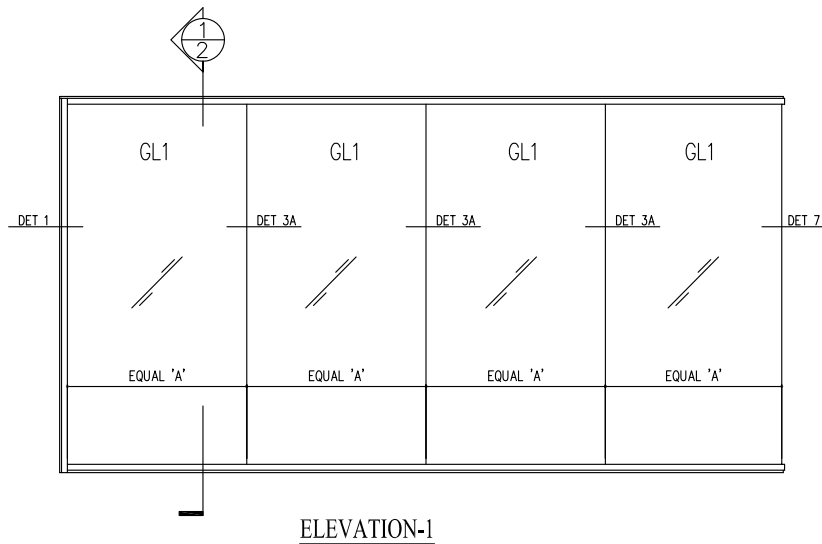
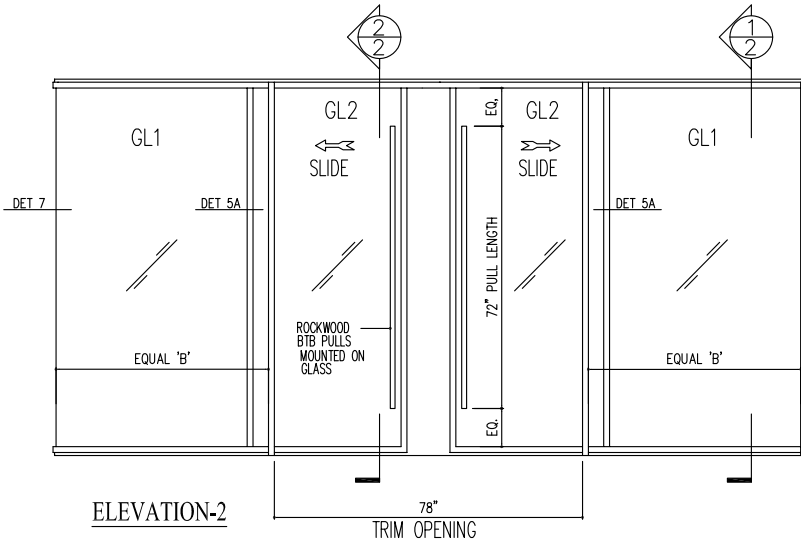
DOOR SCHEDULE											
GENERAL		DOOR			BUCK			HARDWARE			
DOOR	SWING	COLOR	TYPE	WIDTH	HEIGHT	THK	WIDTH	HEIGHT	SET	P TP	DESCRIPTION
1	PRSLD	PL2278	FULL LITE	(2) 40"	7'-10"	1"	78"		1	A	



Understanding the Installation Drawings

Elevations

The elevation drawings will show the different glass types and sizes used in your installation. It will also show the door types and any special conditions. They will be a completed set of details to reference as well. A glass and hardware schedule will be provided.



GLASS LEGEND

GL1 = 1/2" CLEAR TEMPERED GLASS

GL2 = 3/8" CLEAR TEMPERED GLASS

HARDWARE FOR DOOR TAG # 01

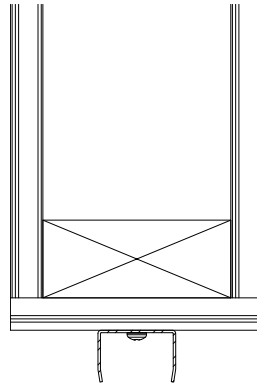
② PAIRS OF ROCKWOOD RM3301 72" LONG DOOR PULLS- US32D

② 8'-6" LENGTHS OF PEMKO 369AP

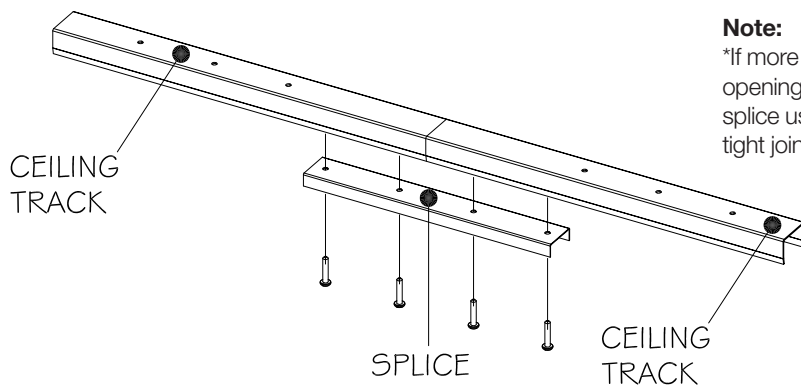
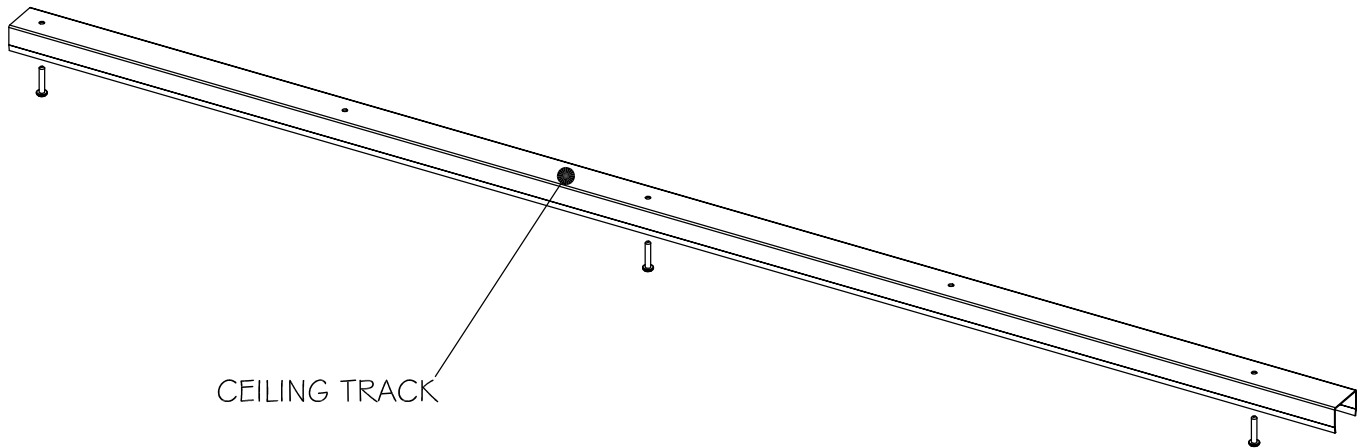
① 8'-6" LENGTH OF PEMKO 369AV

Installing the Ceiling Track

Step 1: Attach the ceiling track to the ceiling by screwing the ceiling track every 24" inches using 1 5/8" sheetrock screws. Ceiling tracking has pre-punched holes for screws. Pilot holes may need to be drilled as necessary.



Wood blocking is installed in the ceiling by others and must be installed everywhere product is located. If blocking is not installed into the ceiling, stop the installation immediately and contact your project manager. It is critical that blocking is in the ceiling especially at the sliding companion panel.

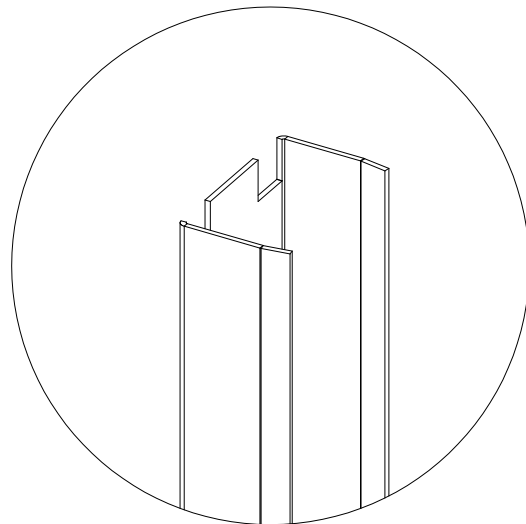
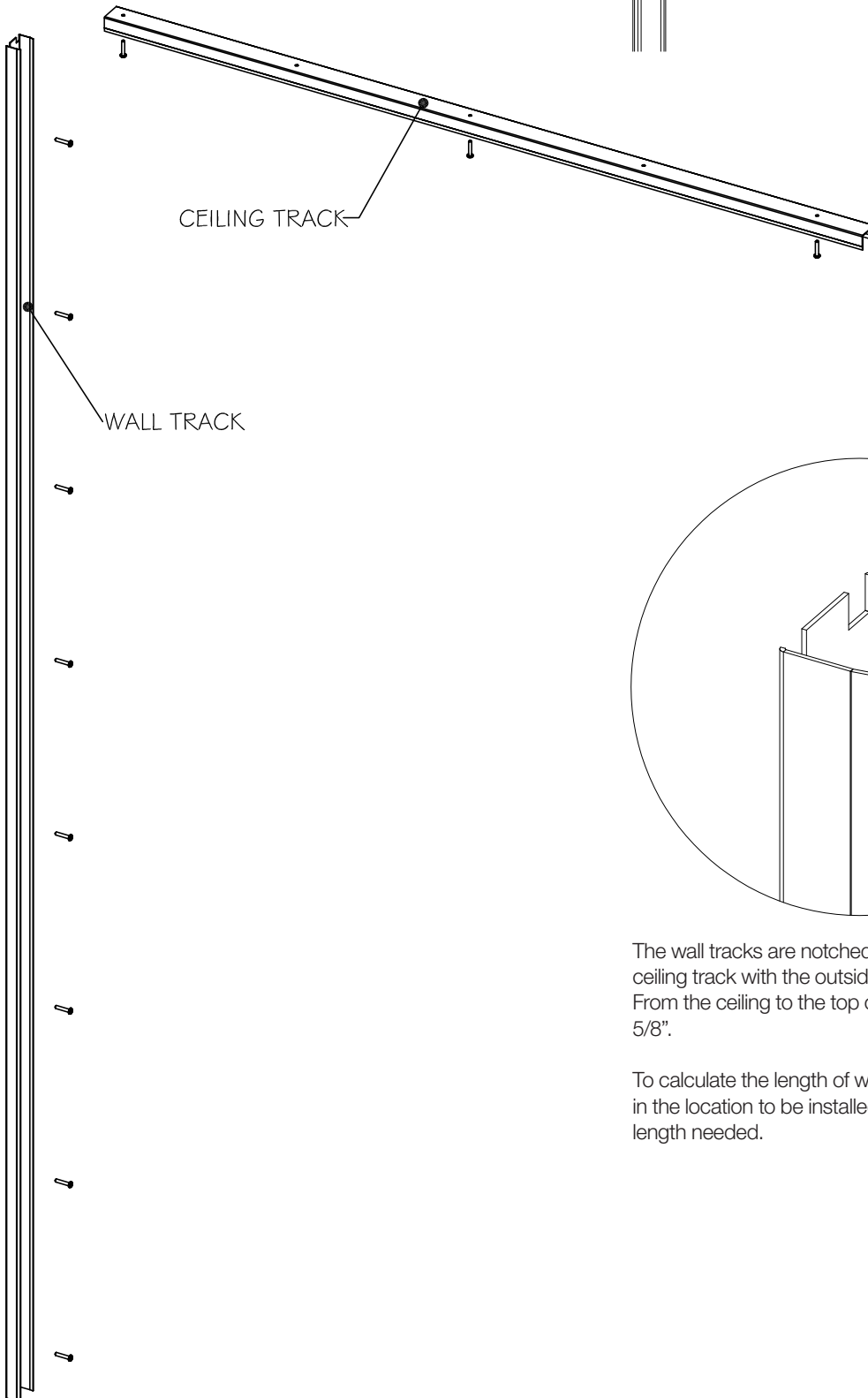
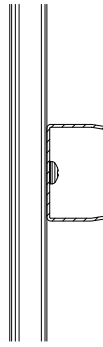


Note:

*If more than (1) piece of ceiling tracking is needed for an opening, butt (2) pieces of ceiling track together and attach a splice using 4 screws to hold them together and to ensure a tight joint.

Installing the Wall Track

Step 2: Install the wall track to any structural element where the wall intersects. Vertical wall tracks are shipped 2 7/8" longer than the verified ceiling height. Measure the ceiling height in the location and cut the bottom of the wall tracks to fit snug. Screw wall track to wall using 1 5/8" sheetrock screws.



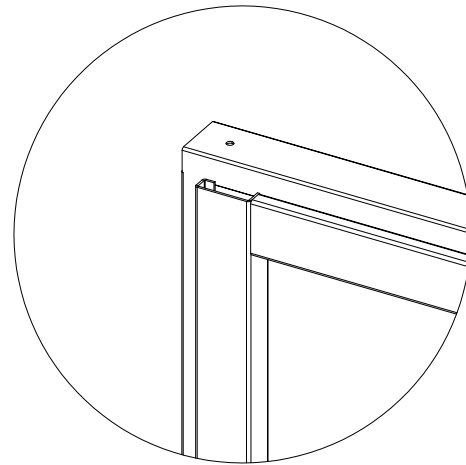
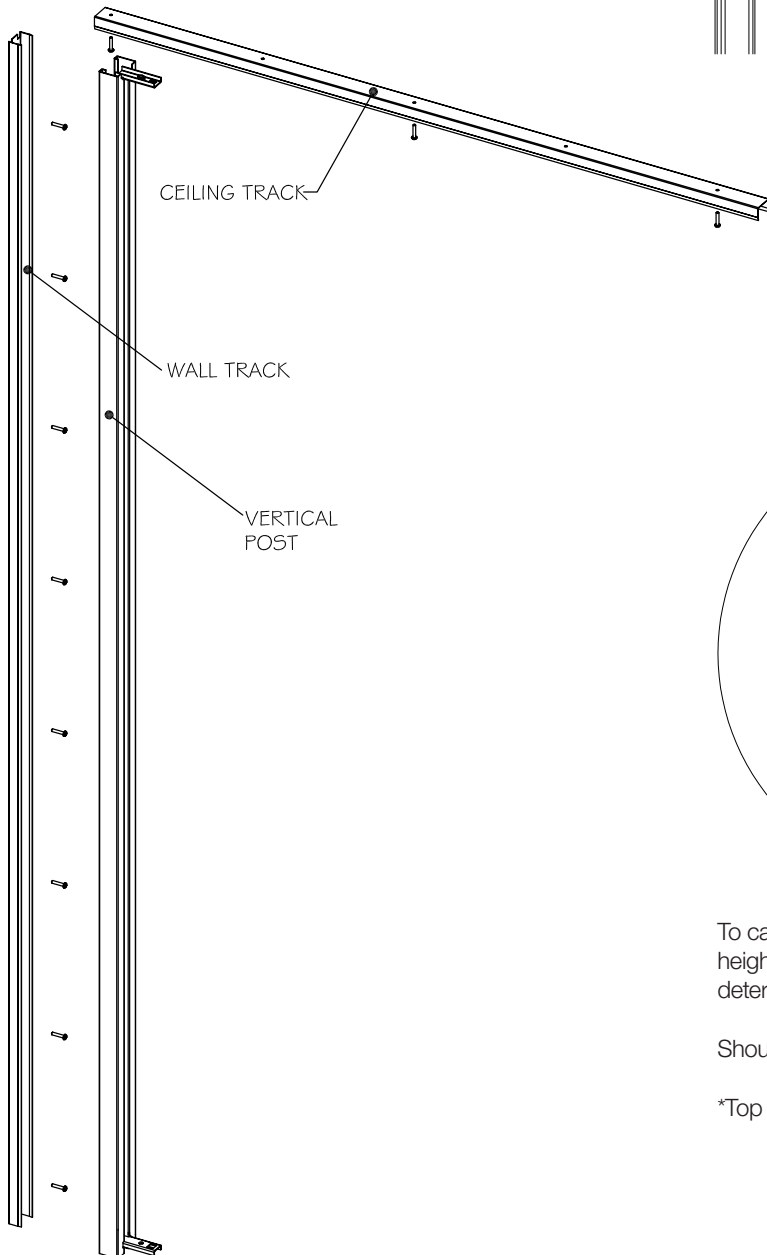
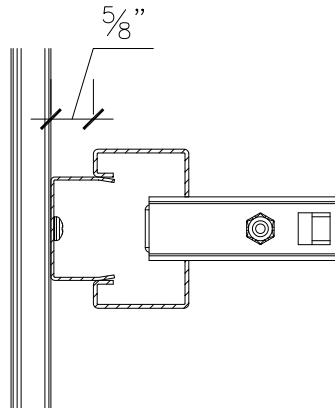
The wall tracks are notched at the top and will slip inside the ceiling track with the outside legs overlapping the ceiling track. From the ceiling to the top of the wall track should measure 5/8".

To calculate the length of wall track, measure the ceiling height in the location to be installed and deduct 5/8" to determine the length needed.

Installing the Vertical Posts

Step 3: Install the Vertical Posts over the wall tracks. Vertical wall tracks are shipped 2 7/8" longer than the verified ceiling height. Measure the ceiling height in the location and cut the bottom of the vertical post to fit snug.

Horizontal rails will secure the vertical posts into place using a friction fit



To calculate the length of vertical post, measure the ceiling height in the location to be installed and deduct 5/8" to determine the length needed.

Should be the same length as the wall track.

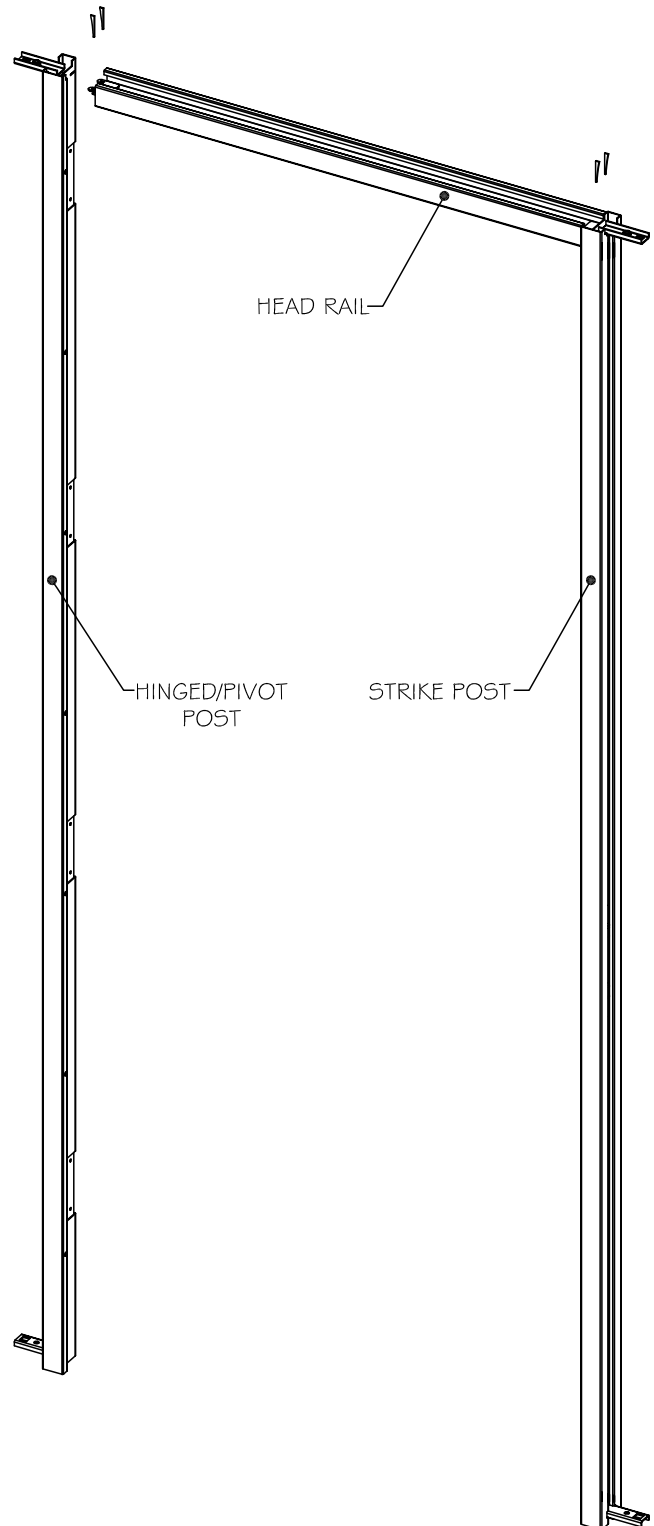
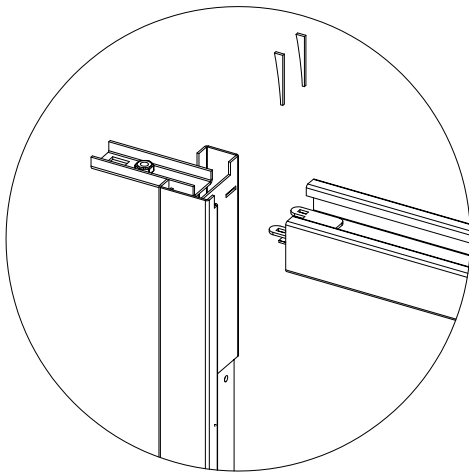
Top Rail shown for clarity

Assembly of Hinged/Pivot Door Frames

Step 4: All door frame head rails must be assembled to the vertical post before installing. Check the ceiling heights where door frame posts occur and trim bottoms to fit, should have a 5/8" reveal. Attach head rail to the jambs with nails, use driving pin and hammer to connect the head rail to the jambs

Slide the tabs of the head rail into the slots in the vertical post and secure by using cut nails..

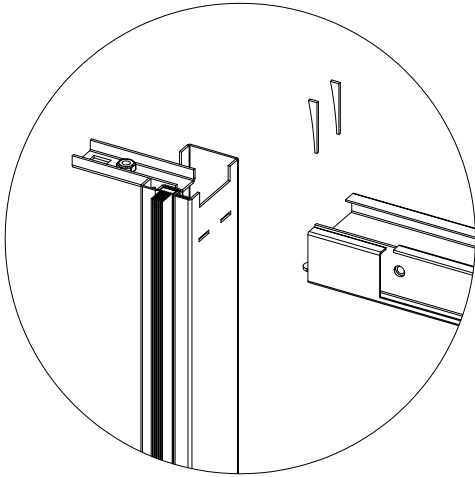
Applies to Single & Double Door Frames



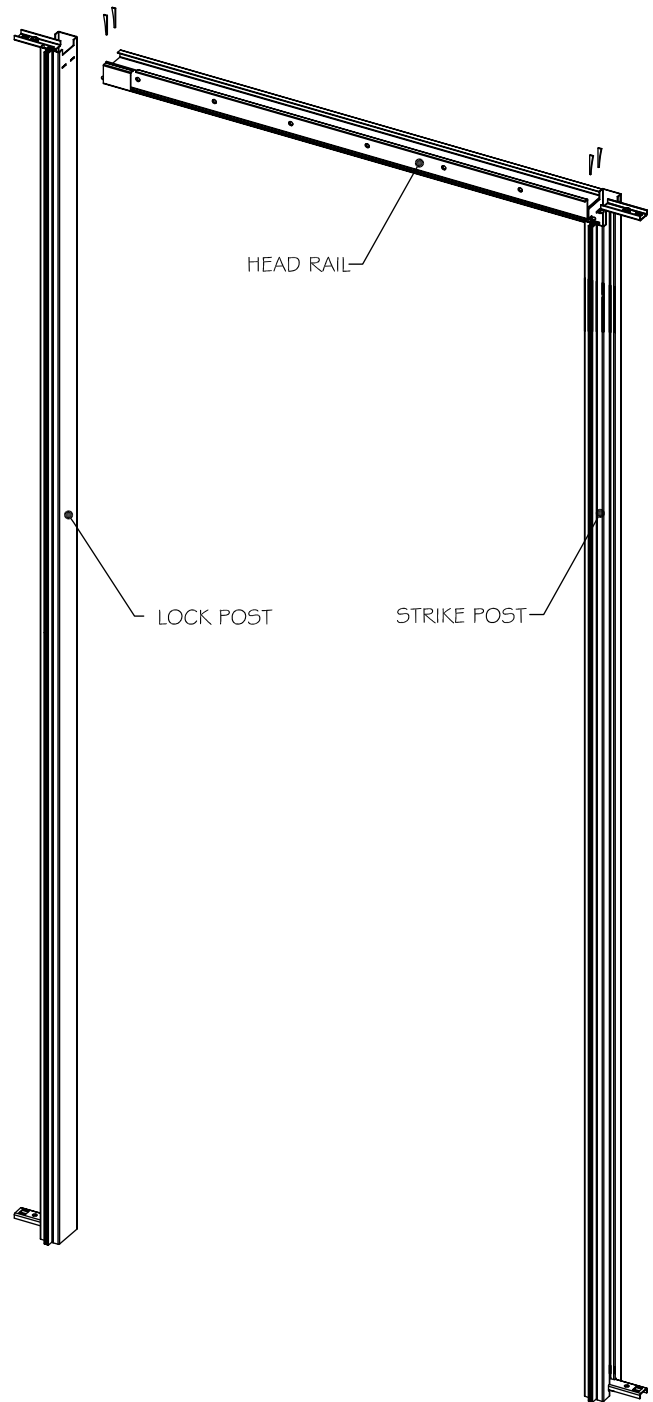
Assembly of Sliding Door Frames

Step 4A: All door frame head rails must be assembled to the vertical post before installing. Check the ceiling heights where door frame posts occur and trim bottoms to fit, should have a 5/8" reveal. Attach head rail to the jambs with nails, use driving pin and hammer to connect the head rail to the jambs.

Slide the tabs of the head rail into the slots in the vertical post and secure by using cut nails.

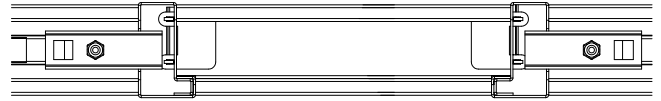


Applies to Single & Double Door Frames

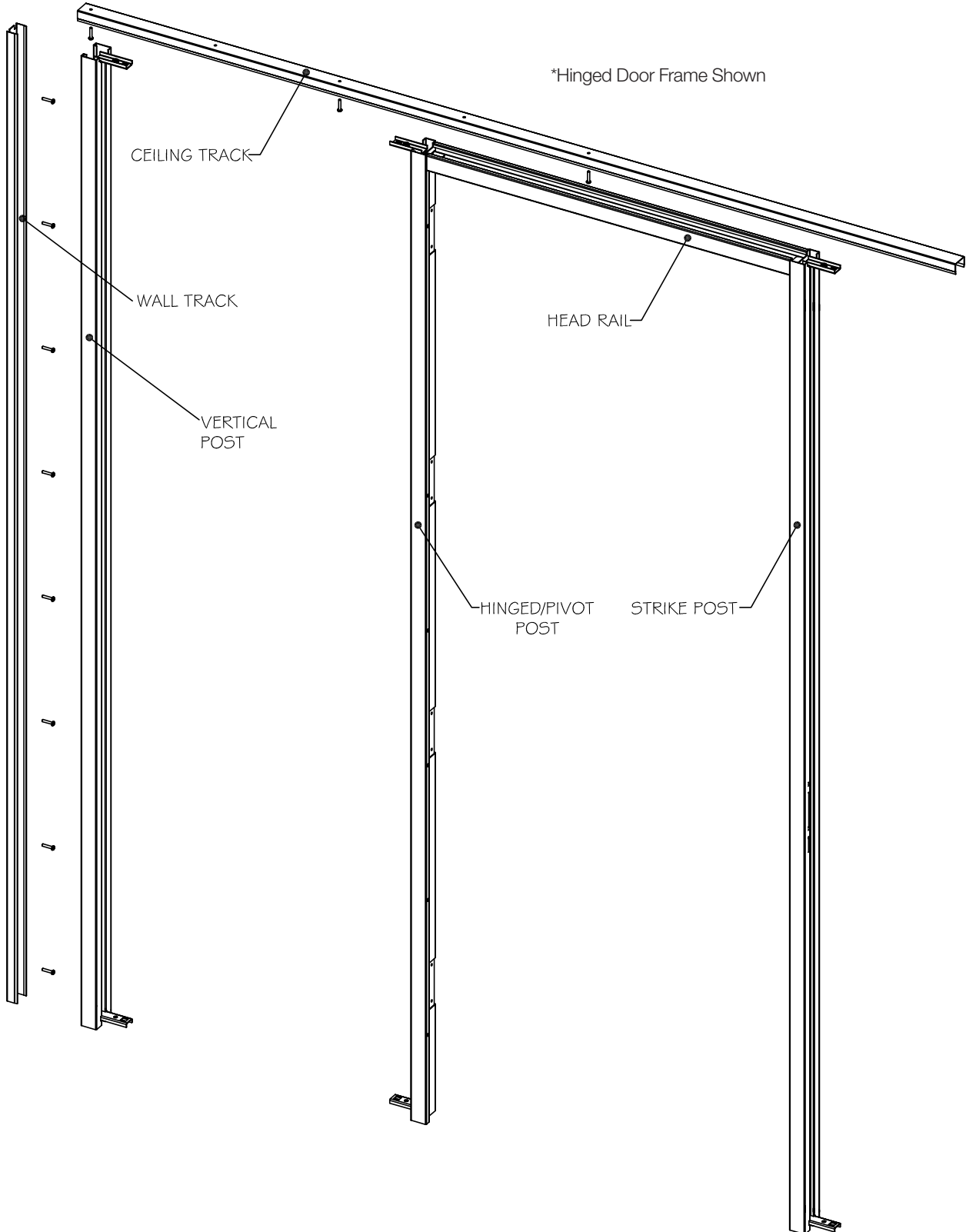


Installing the Assembled Hinged/Pivot Door Frames

Step 5: Once all the door frame head rails have been attached to the posts, slide the head of the frame into the ceiling channel and position jambs per the dimensioned drawing.



Applies to Single & Double Door Frames



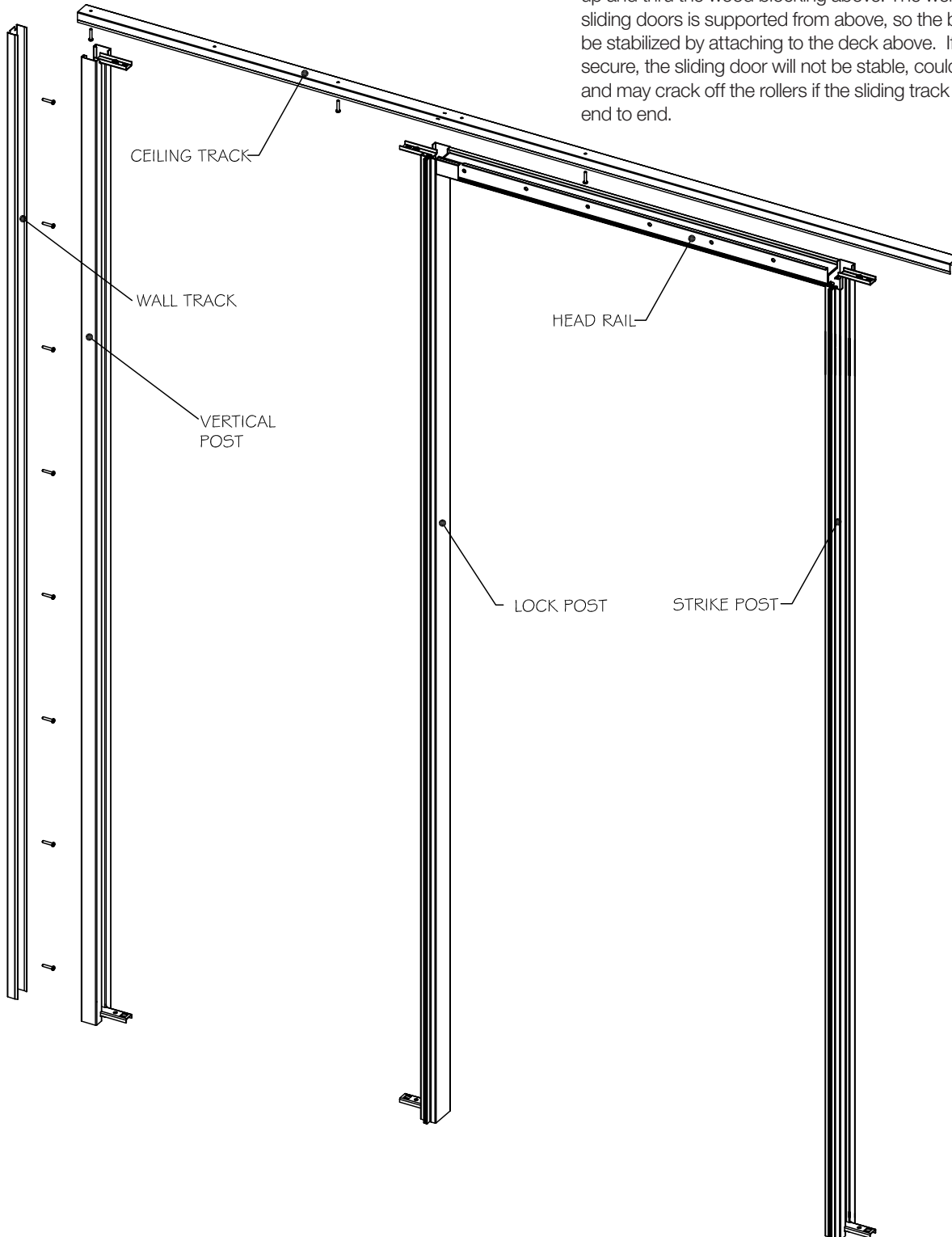
Installing the Assembled Sliding Door Frames

Step 5A: Once all the door frame head rails have been attached to the posts, slide the head of the frame into the ceiling channel and position jamba per the dimensioned drawing. The screws for the ceiling and head of the frame must be screwed up and thru the wood blocking above. The weight of the sliding door is supported from above



Applies to Single & Double Door Frames

Note: The ceiling track and head of the frame must be screwed up and thru the wood blocking above. The weight of the sliding doors is supported from above, so the blocking must be stabilized by attaching to the deck above. If blocking is not secure, the sliding door will not be stable, could be out of plumb and may crack off the rollers if the sliding track is not level from end to end.



Installing the Hinged Door Frames in Drywall Conditions

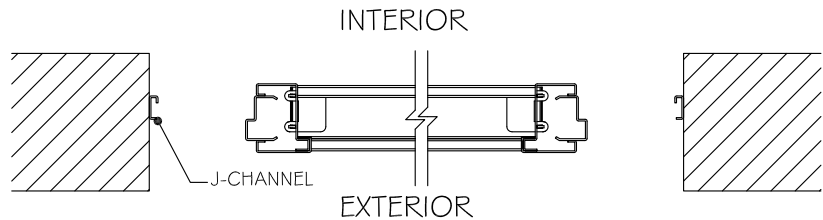
Step 5B: When a single door frame is installed into a drywall opening, there are special steps that need taken. Follow the same steps of installing the ceiling channel and assembling the door frame. See steps below to finish the installation.

Cut the J-Channel and Spline the same length as the door frame posts.

Step 1:

Install the J-Channel

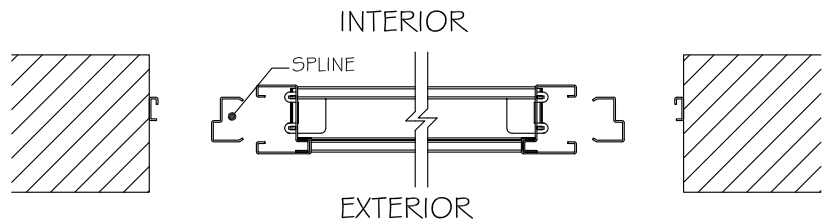
Secure the (2) J-Channels to the drywall opening using drywall screws. The J-Channel has factory punched holes for the screws.



Step 2:

Attach Spline Channel

Insert the Spline channel into the door frame.



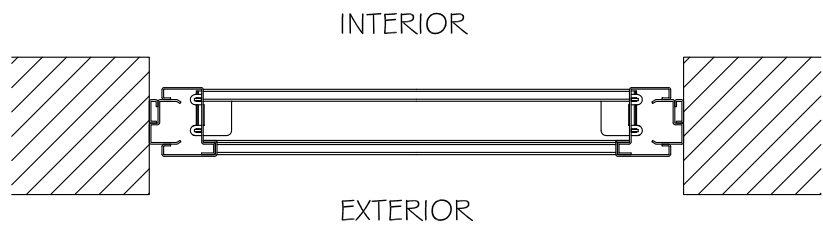
Step 3:

Install Door Frame

Slip the head of the frame into the ceiling channel and tilt the bottom of the frame until it's plumb and tight against the J-Channel.

Sheet metal screws can be installed either through one or more hinges and the back of the strike to the blocking in the drywall.

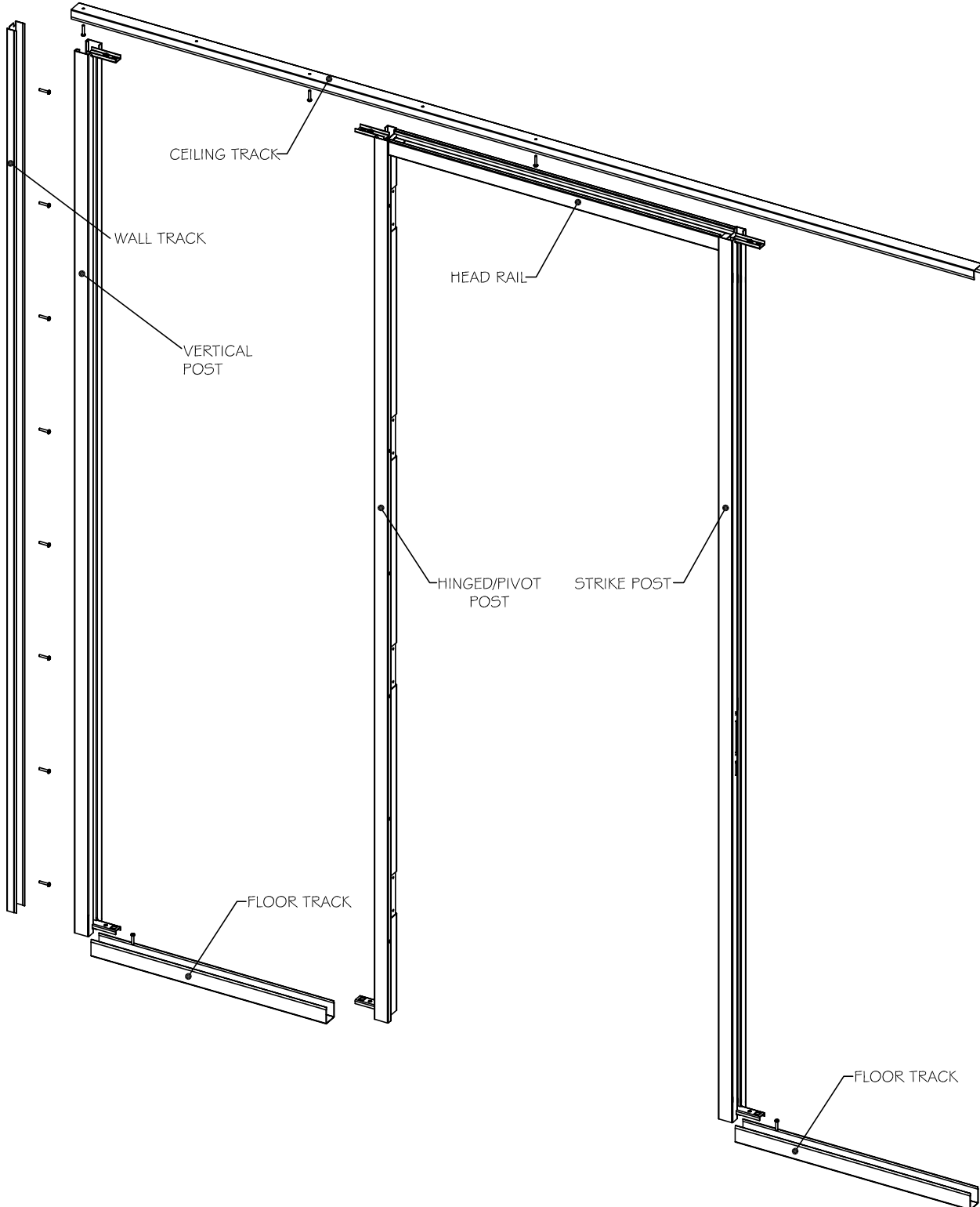
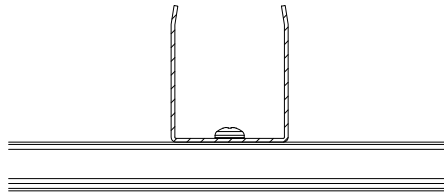
Screws can be installed at the very bottom of each jamb thru the narrow side of the J-Channel through to the Spline Channel, but not all the way through to the outside of the jamb.



Note: Apply the J-Channel to the interior of the opening.

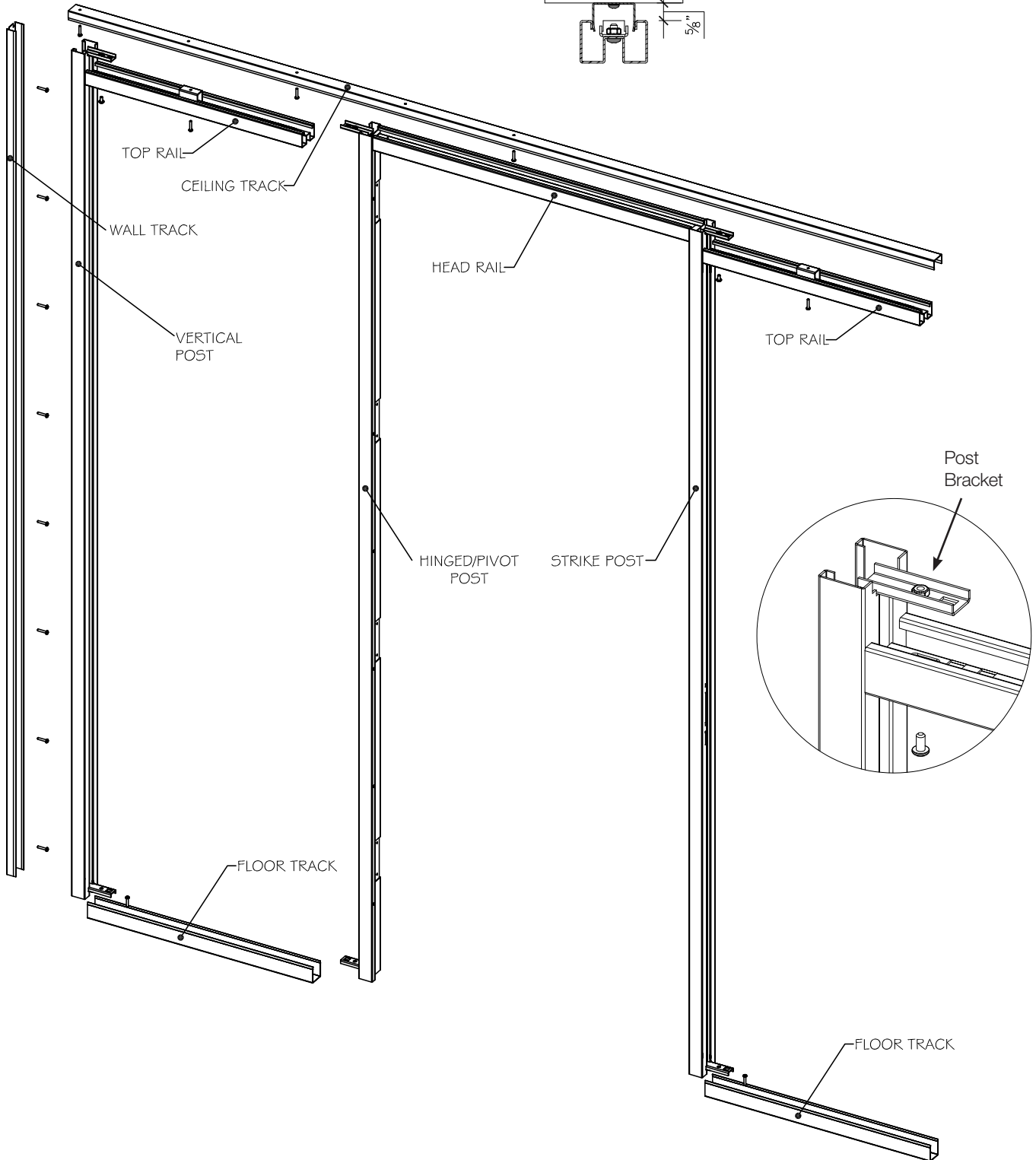
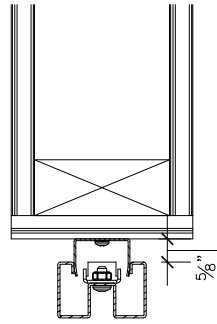
Installing the Floor Track

Step 6: Check the shop drawings to cut and install floor track. The length of the floor track is the same length as the daylight opening which is indicated with a "D" on the drawings. Secure the floor track to the floor using a Ram set shotgun with 1" nails every 12".



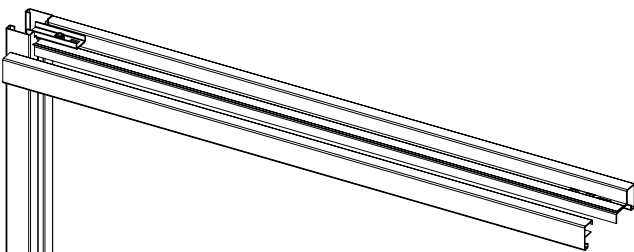
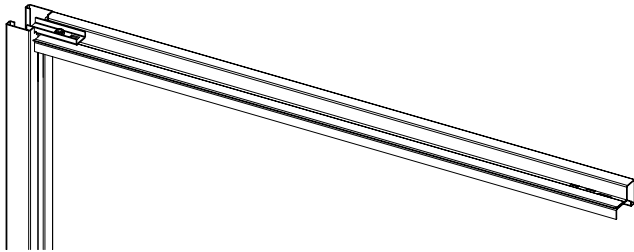
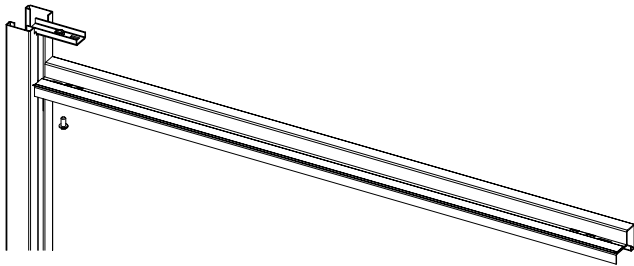
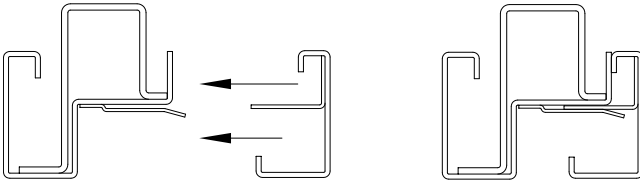
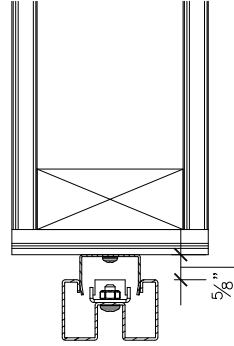
Installing the Top Rails

Step 7: Check shop drawings and select top rail to form opening. Insert the top rail over the ceiling track, slide top rail over post brackets. Using vise grips, squeeze the top rail and bracket together to form a tight connection. Screw (2) 1/4" x 20 x 1/2" long flathead screws into each bracket.



Installing the Top Rails when opening has (1) pane of glass

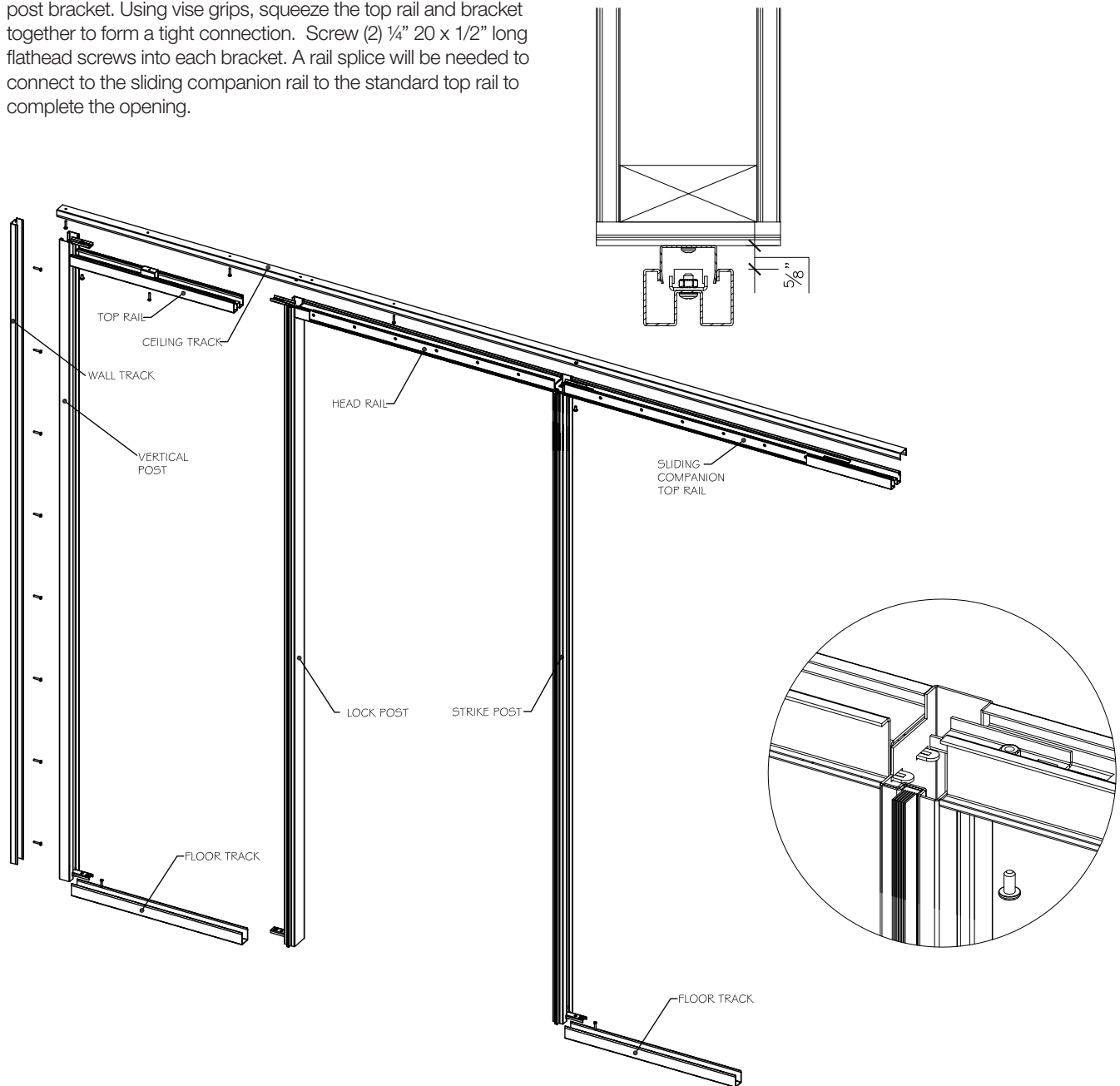
Step 7A: Check shop drawings and select top rail to form opening. When an opening contains only (1) pane of glass, a special 2-piece top rail is required. Insert back of the top rail over the ceiling, slide top rail over post brackets. Using vise grips, squeeze the top rail and bracket together to form a tight connection. Screw (2) 1/4" 20 x 1/2" long flathead screws into each bracket. Once the glass is installed in the opening, attach the cover of the top rail.



Installing the Sliding Companion Top Rails

Step 7B: A special sliding companion rail is used next to the sliding door frame where the door will be sliding across. Check shop drawings and select sliding companion top rail to form opening. Insert the top rail over the ceiling, slide top rail over post bracket. Using vise grips, squeeze the top rail and bracket together to form a tight connection. Screw (2) 1/4" 20 x 1/2" long flathead screws into each bracket. A rail splice will be needed to connect to the sliding companion rail to the standard top rail to complete the opening.

Sliding Companion Top Rail will be applied to both sides of the door frame when it's a double sliding door

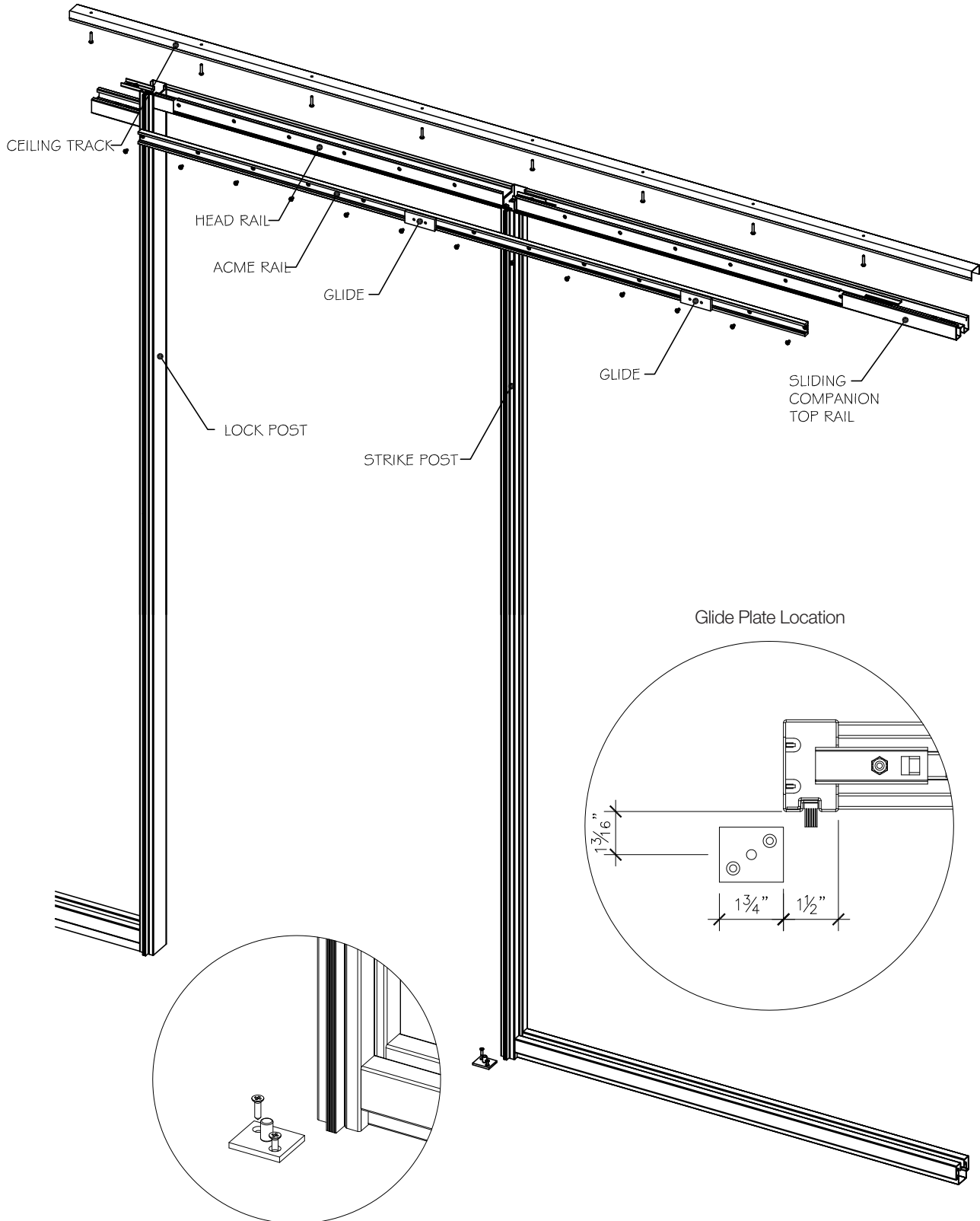


Note: The ceiling track and sliding companion top rail must be screwed up and thru the wood blocking above. The weight of the sliding doors is supported from above, so the blocking must be stabilized by attaching to the deck above. If blocking is not secure, the sliding door will not be stable, could be out of plumb and may crack off the rollers if the sliding track is not level from end to end.

Installing the Sliding Hardware Track

Step 7C: If sliding doors are on project, insert the 2 glide plates into the Acme rail and then attach to the head and sliding companion top rails. This is the sliding track hardware that is used for the sliding doors. The Acme rail is attached by using 1/4" x 20 x 1/2" flathead screws, place a screw in every pre drilled hole.

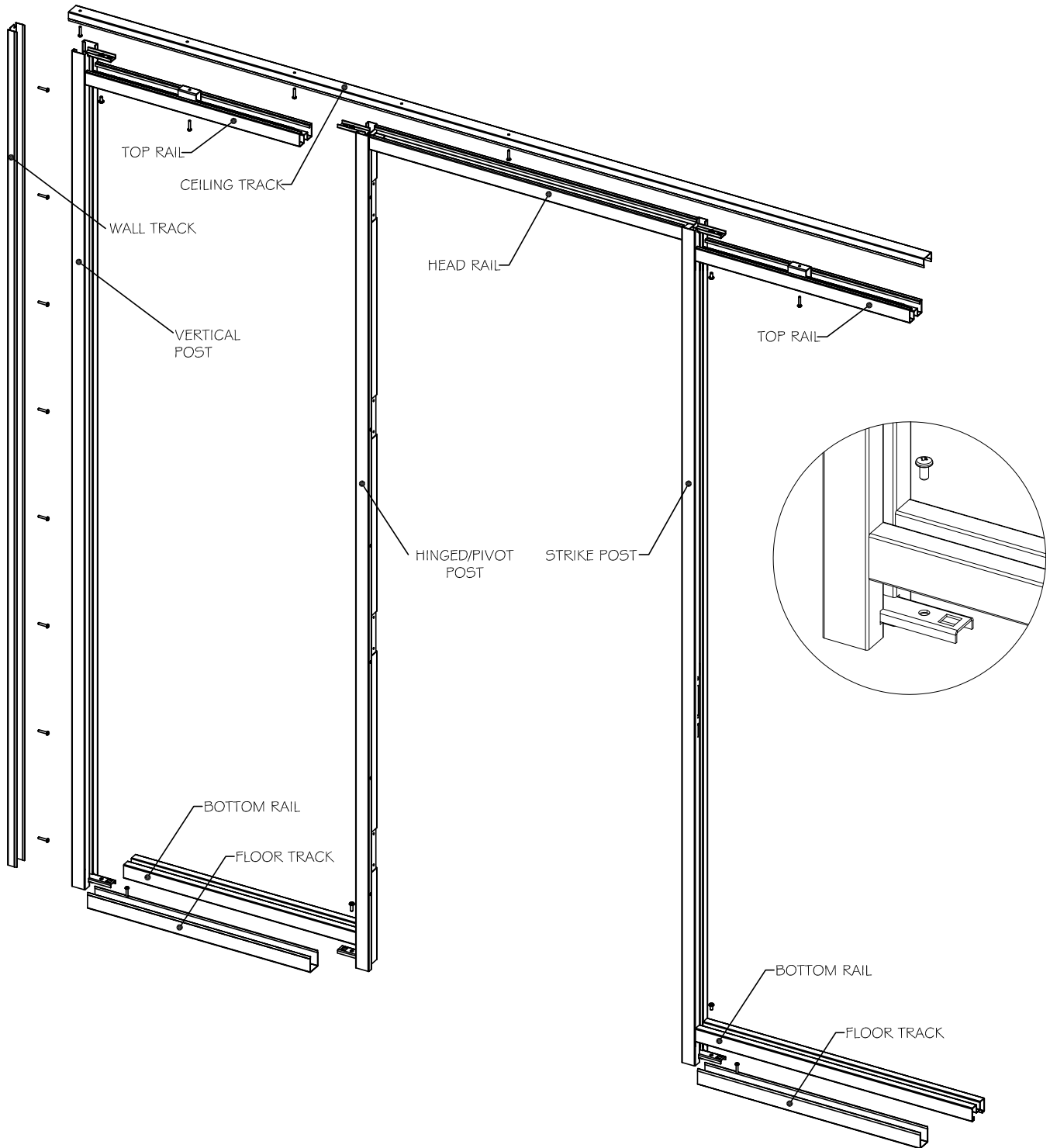
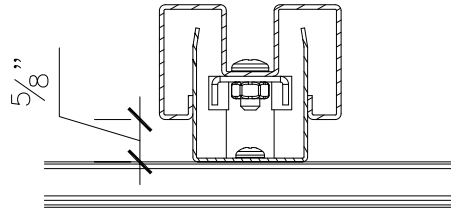
(2) Acme Rails will be attached when double sliding doors occur



Installing the Bottom Rails

Step 8: Check shop drawings and select bottom rail to form opening. Insert the bottom rail over the floor track, slide bottom rail over post brackets. Using vise grips, squeeze the bottom rail and bracket together to form a tight connection. Screw (2) 1/4" 20 x 1/2" long flathead screws into each bracket.

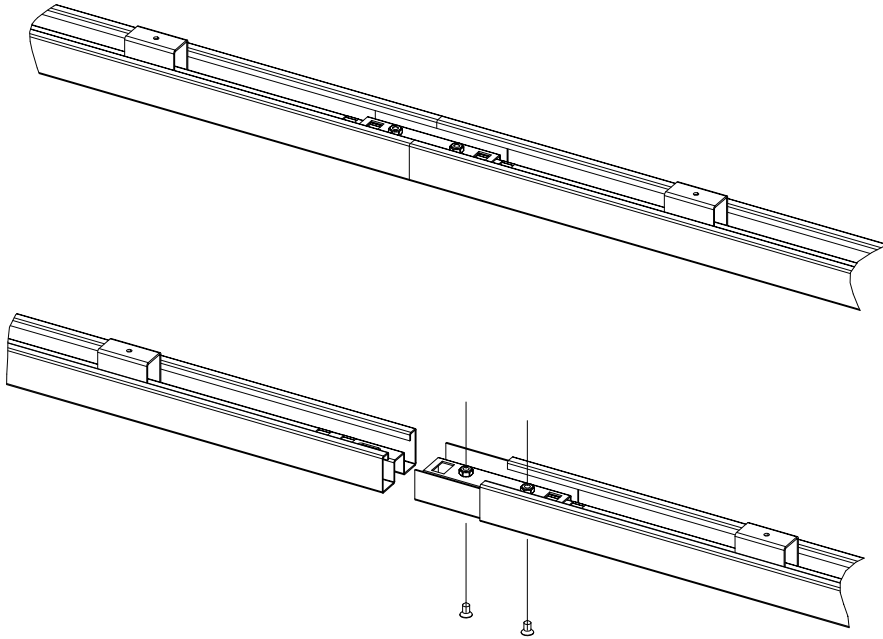
Note: Bottom rails wider than 3'-0" require one or more leveling screws for leveling purpose. Insert jack screws where required and level rail before glazing.



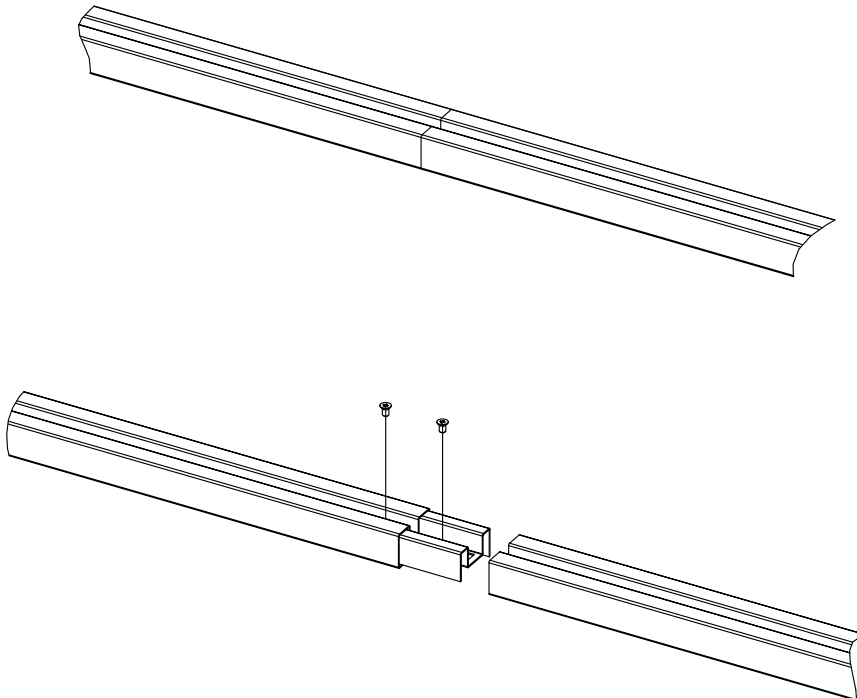
Installing the Top & Bottom Rails with Splices

Step 9: If an opening is longer than 10', a splice will need to be used to combine 2 top/bottom rails to create the opening. Insert the splice inside the rails and pull together using vise grips and screw together to create a tight connection.

Top Rail Splice



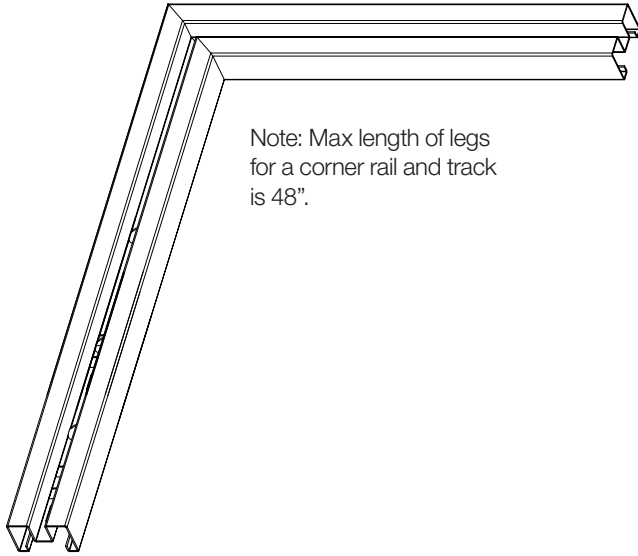
Bottom Rail Splice



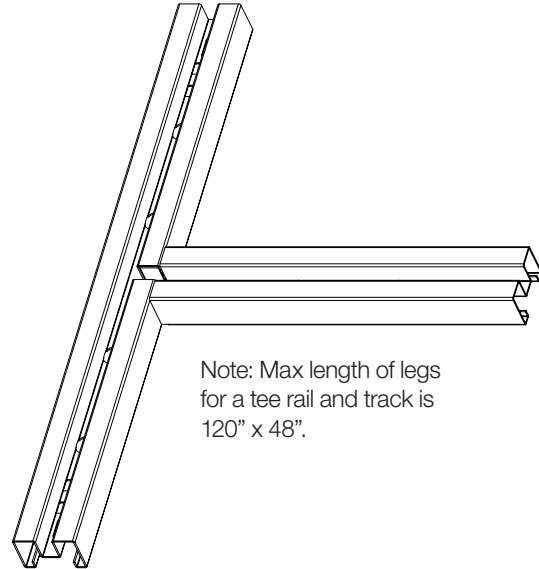
Installing the Corners and Tees

Step 10: If the project contains corners or 3-way conditions, the rails and floor track are shipped as an assembled unit. The ceiling track will be joined with a straight run using a ceiling channel splice and the rails will be joined using a rail splice.

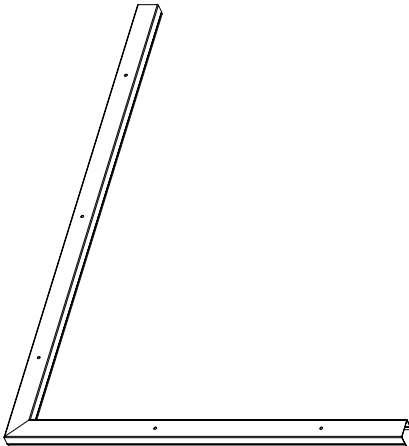
Assembled Corner Rail



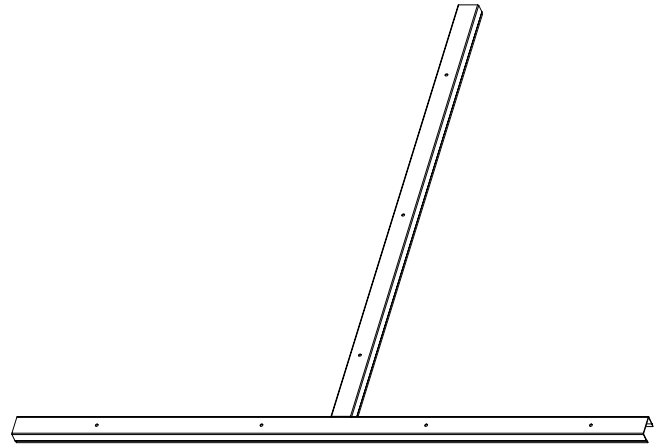
Assembled Tee Rail



Assembled Corner Track



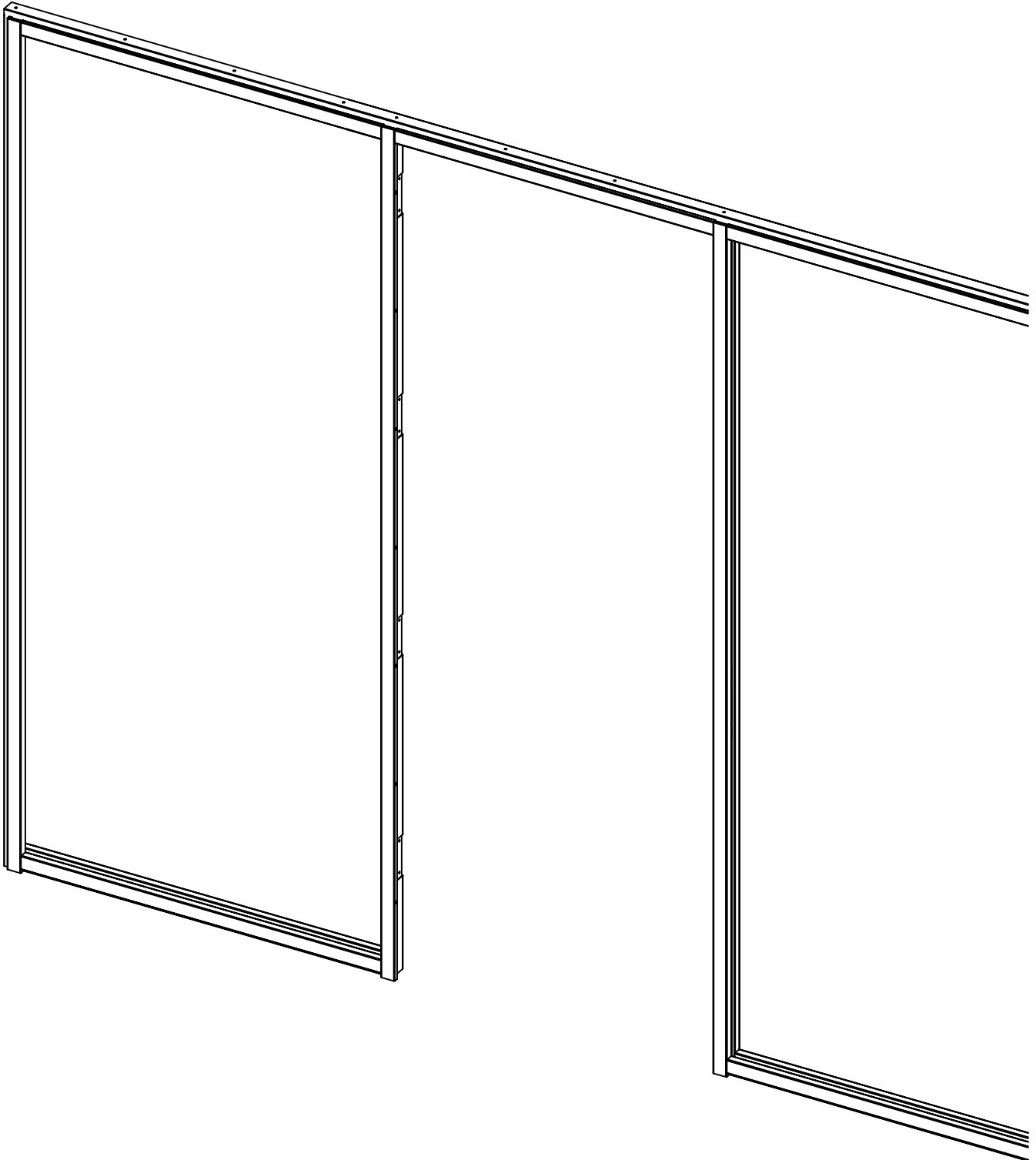
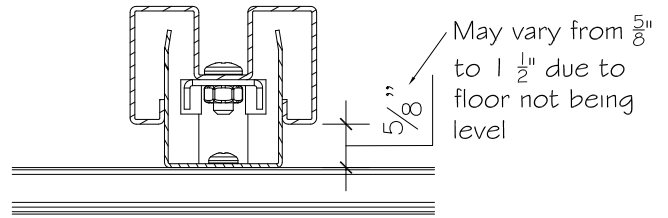
Assembled Tee Track



Completing and Leveling Framing

Step 11: Once all framing is installed, verify all posts are plumb and level along with the bottom rail. Verify all openings are correct to the drawing to ensure all the glass components will fit accordingly.

Note: Use a lever sitting on top of the rail, adjust height with a screwdriver. Turn screw up or down to achieve leveling wherever required. Screws may need to be cut down or install different lengths for leveling. Screw head must be flush inside the seat to avoid interference with the glass.



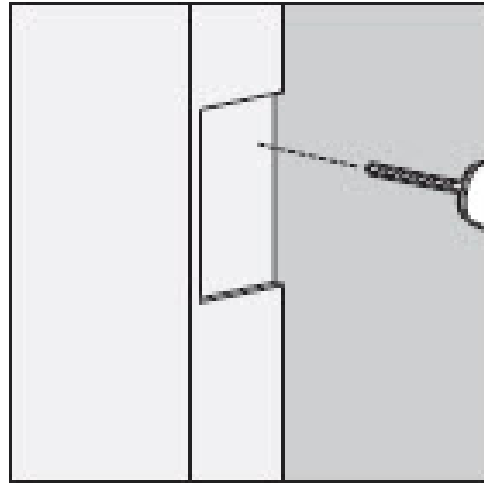
Installing Wood Hinged Doors

The door frames and the doors are factory mortised for the hinges and locks.

Step 1:

Pre drill doors for hinge screws

It will be necessary to pre drill the door for screws, the door will split if you do not pre drill.

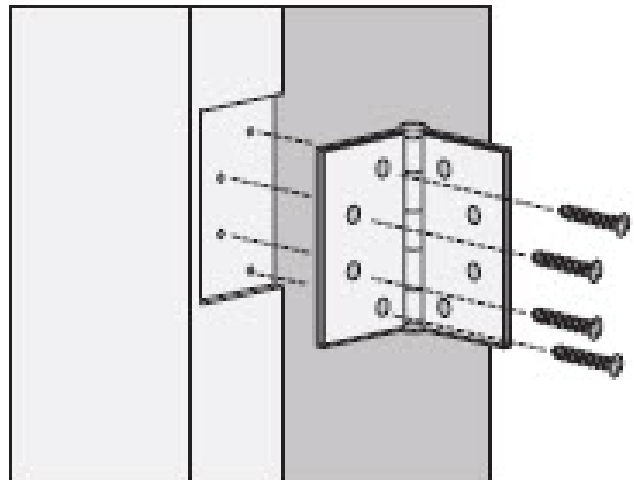


Step 2:

Installing the hinges

Install the hinges to the door using the supplied wood screws.

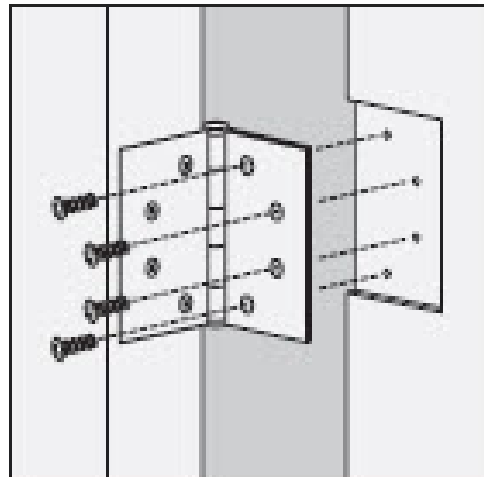
Do not separate the hinge at it's pin to install them on the frame.



Step 3:

Attaching hinges to door frame

Attach door hinge to frame with supplied machine screws.



Installing Hinged Doors

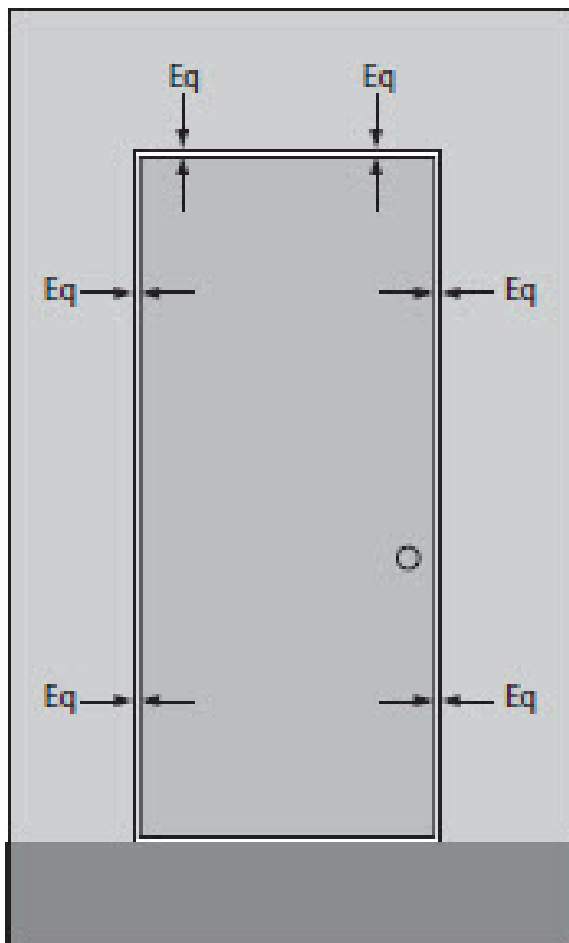
Step 4:

Make necessary adjustments

After the door is hung and all the screws installed, close the door. Check for:

- reveals top
- hinge side
- strike side

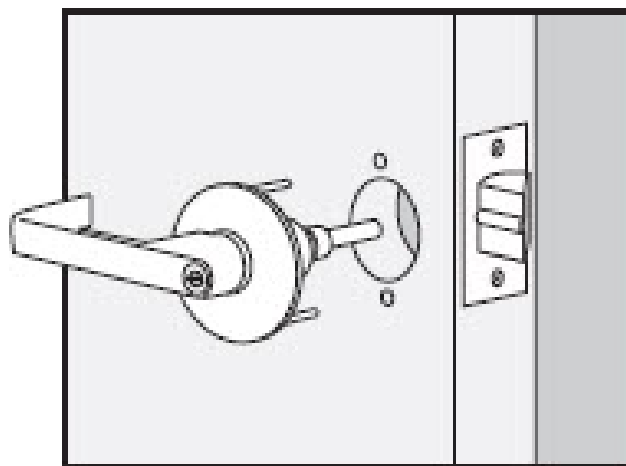
Adjust accordingly



Step 5:

Install locks

Install the locks following the lock manufactures instructions.

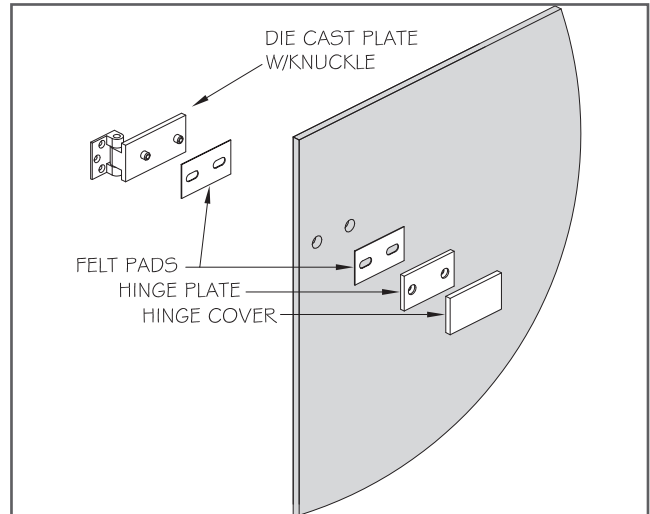


Installing Frameless Glass Hinged Doors

Step 1:

Attaching Hinge Hardware

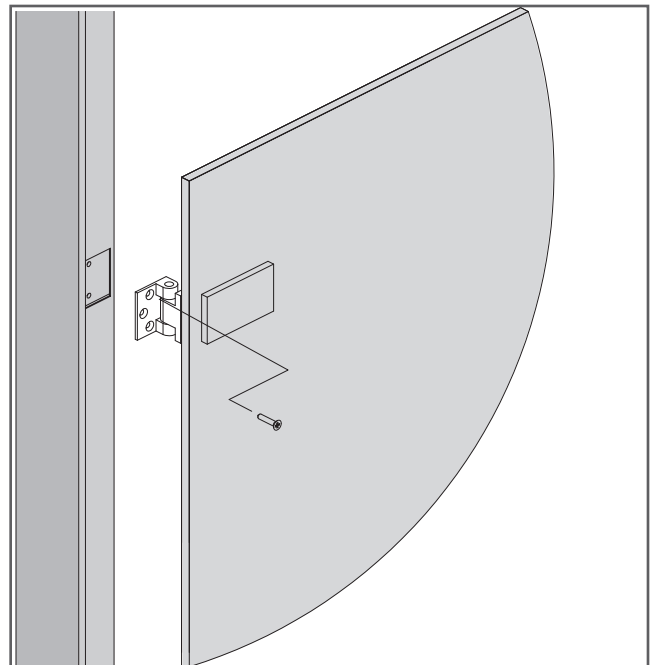
Attach the hinge hardware as shown on the left.
(Typically 4 per door)



Step 2:

Attaching Frameless Door to Frame

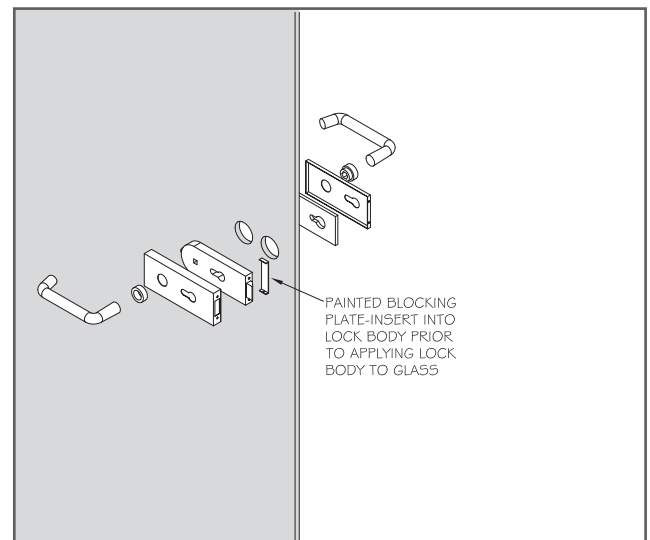
Attach the hinge as shown as shown on the left.



Step 3:

Attaching Lockset to Frameless Door

Attach the lockset as shown as shown on the left.

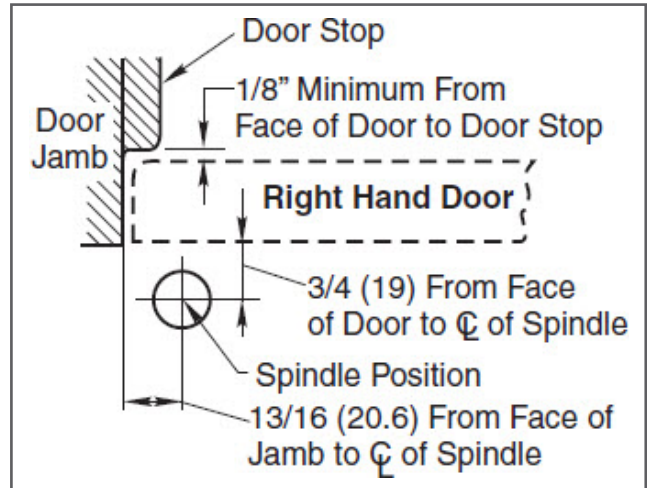


Installing Pivot Door Using (Rixson 117 Pivot 3/4" Offset)

Step 1:

Locate Pivot

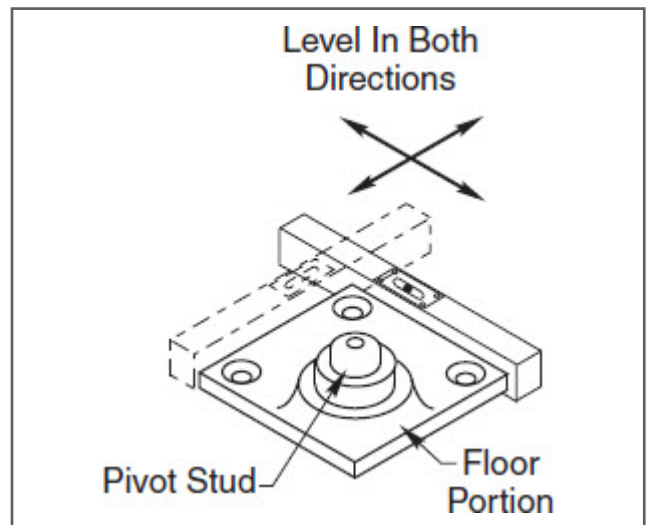
- A. Measure 13/16" from door jamb.
- B. Allow 1/8" Minimum clearance from door stop to door face.
Measure door thickness; add 3/4".
- C. Where lines meet determines centerline of pivot.



Step 2:

Set Pivot Set

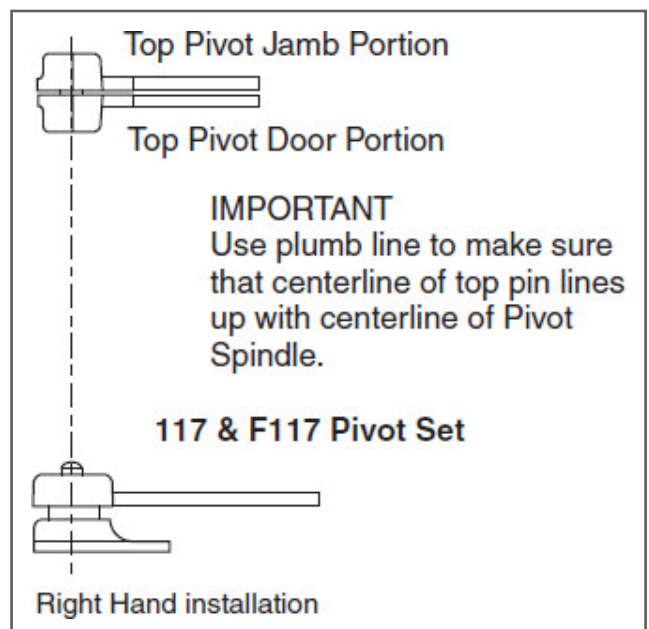
- A. Prepare floor to receive floor portion. Set anchors provided securely in floor.
- B. IMPORTANT: Floor portions must be level. Level in both directions per illustration.
- C. Floor portion should be parallel with face of door.



Step 3:

Install Top Pivot and Pivot Arm

- A. Install top pivot in door per template.
- B. Install top pivot in frame per template.
- C. Install arm in door per template.
- D. Centerline of top pivot should line up with centerline of spindle. Use plumb lines as illustrated.
- E. If side jamb pivot is used, see required template M19.

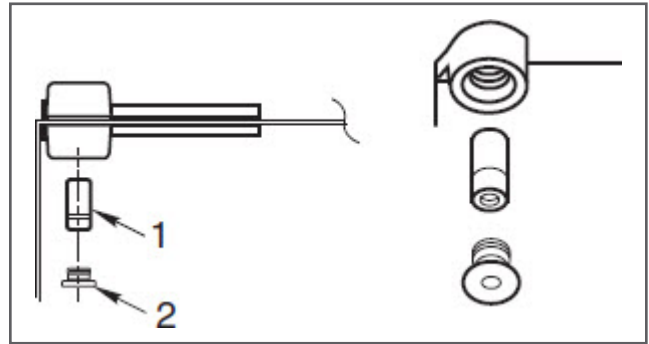


Installing Pivot Door Using (Rixson 117 Pivot 3/4" Offset)

Step 4:

Hang Door

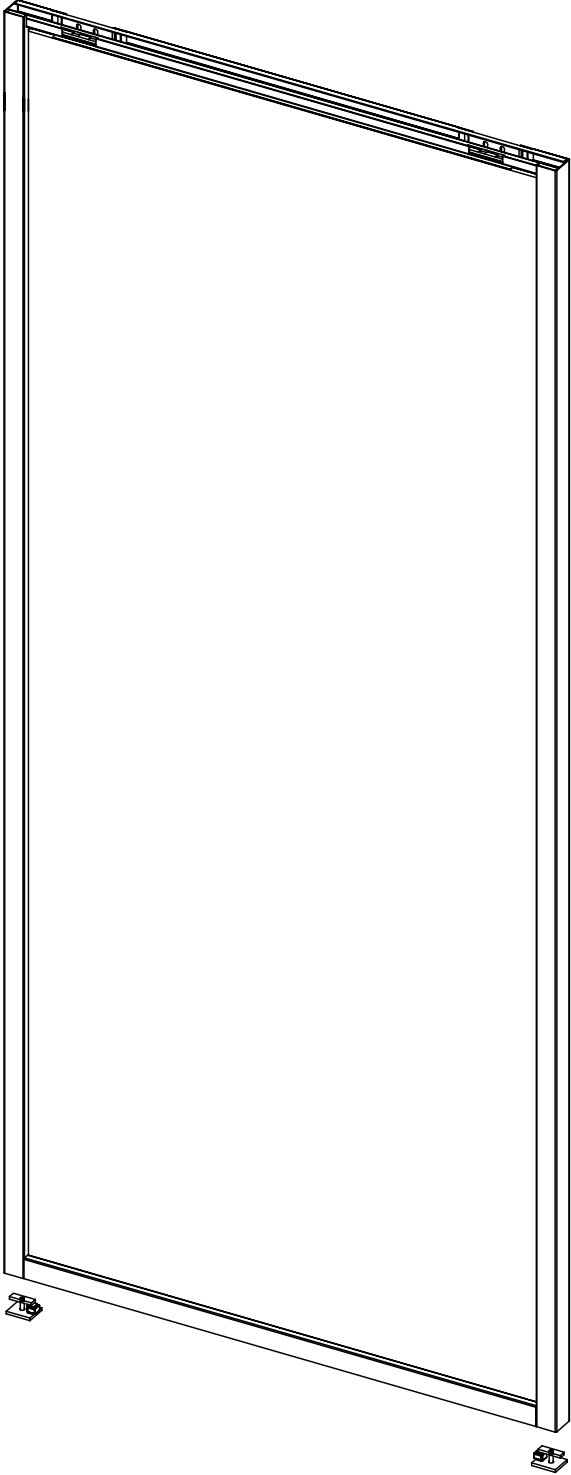
- A. Set door on floor.
- B. Push top pivot pin (1) up into place and replace cap (2).
- C. Put arm cap on arm and secure tightly with screw furnished.



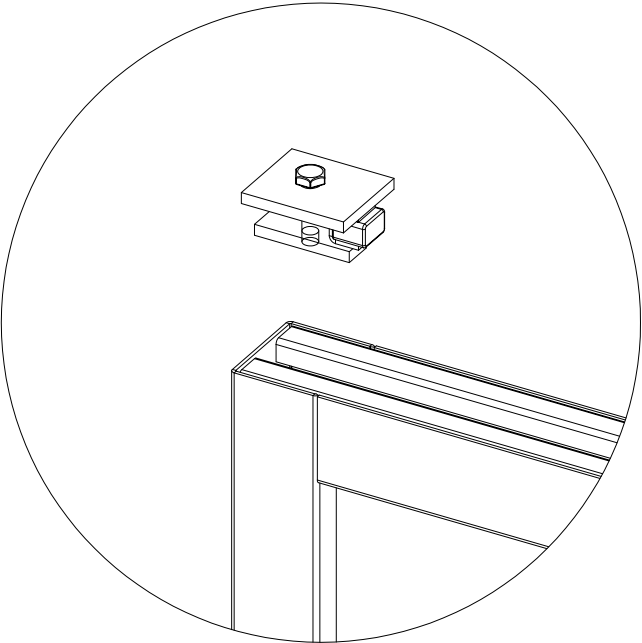
Installing Sliding Doors

Step 1: Attaching Sliding Door Glide Stopper (Typically 2 per door)

Align sliding door stopper plate to fit into door bottom groove, push in door stop and tighten nut at desired position.



*Door is shown upside down for clarification.

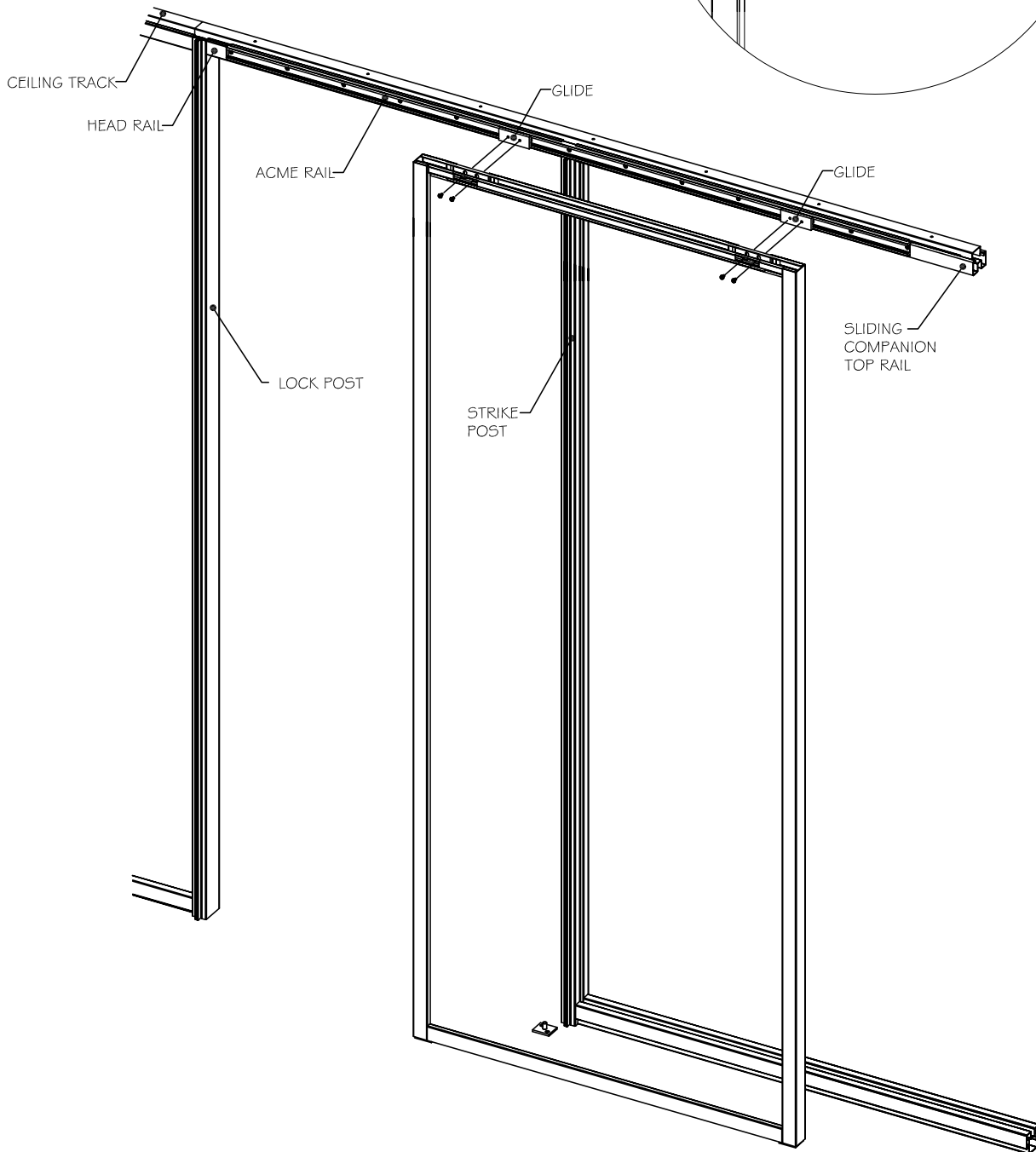
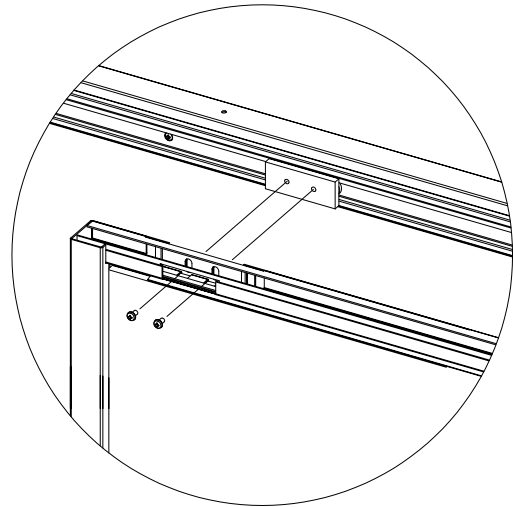


Installing Sliding Doors

Step 2: Attaching the Sliding Door to the Acme Rail

Lift the door into place over the guide pins and attach the door to the glide plates with the supplied screws.

Adjust door to be plumb and level.



Aligning Double Sliding Doors

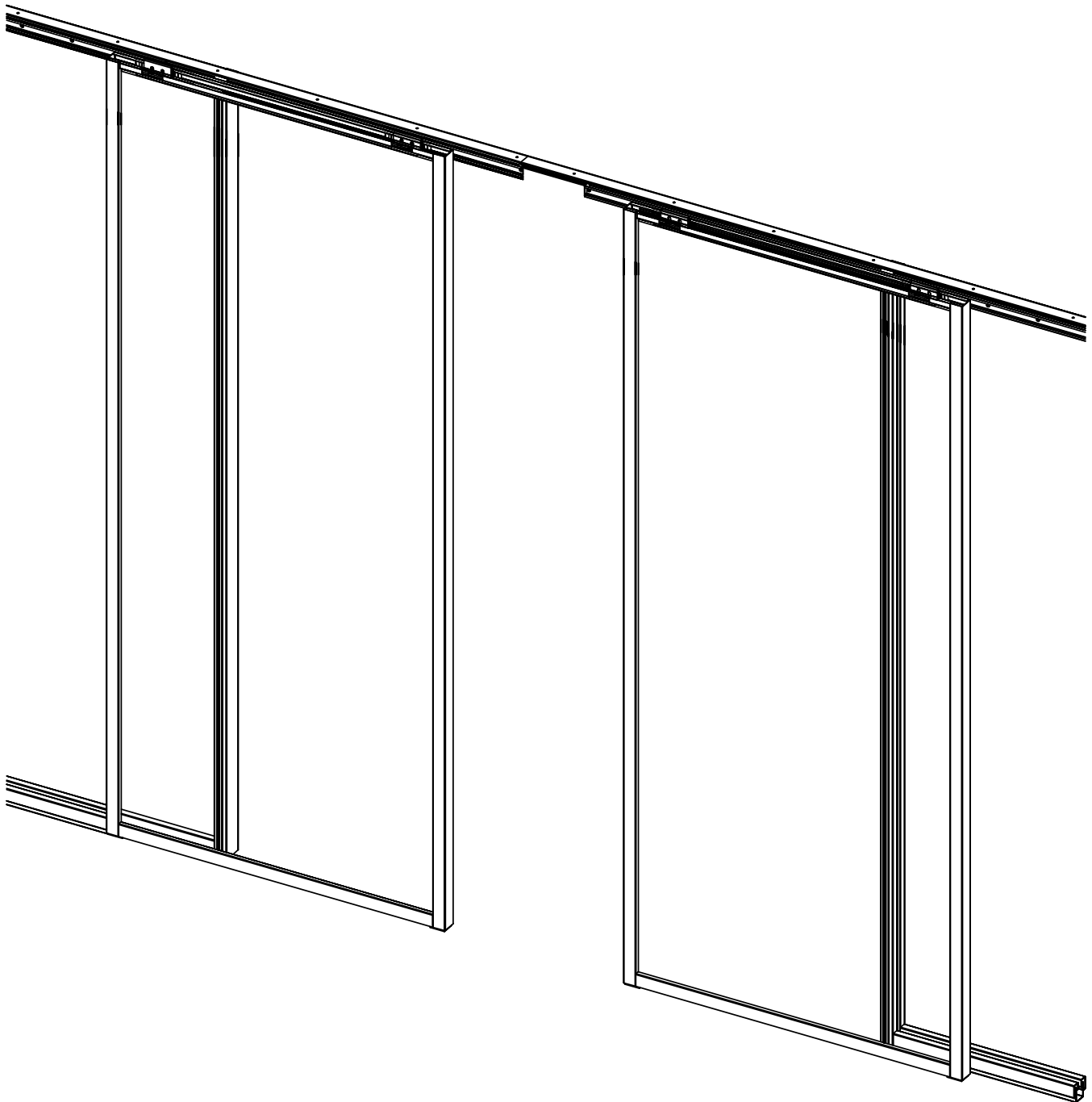
To ensure that the double sliding doors align when in the closed position, follow these critical steps that are done prior to glass installation:

1. The walls must be plumb and the guide pins for the doors must be also plumb to the track above. If either of those alignments are off, the doors can easily be out.
2. During manufacturing, shipment and installation, the thin rails can slightly warp the door. Once the doors are hung and prior to glazing, the doors must be test aligned without glass. The rails can gently be bent into alignment. Once the doors are aligned, they will stay true once glass is installed.

Note: If the glass is installed and caulked, it is still possible to get the doors to align, though it is more difficult and requires an easy touch.

To straighten the doors, place one at a time into the closed position. Block the side with the guide pin and hold the door into place so as to not pull the pin out of the floor.

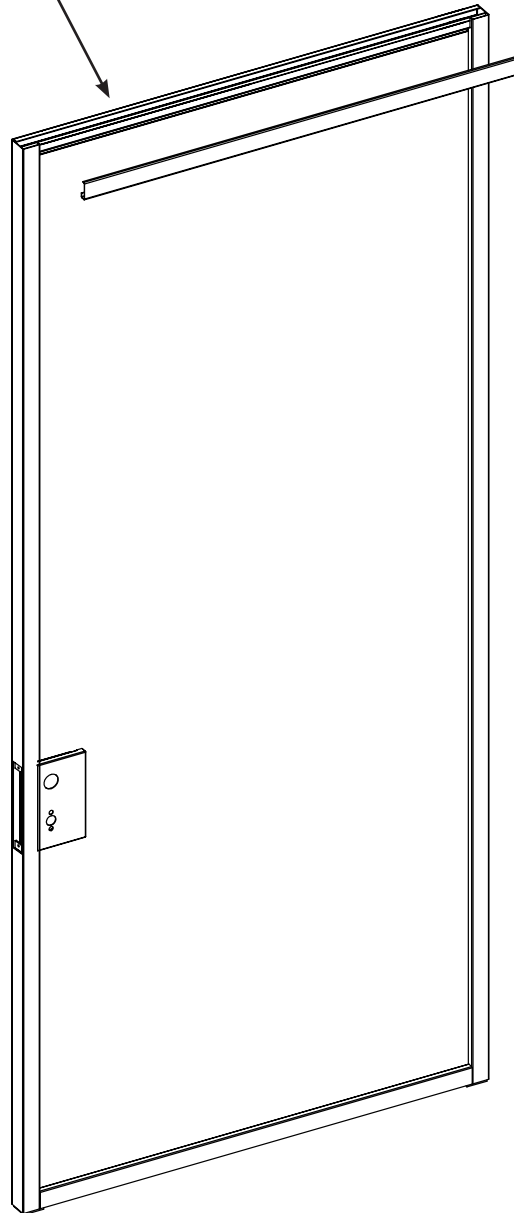
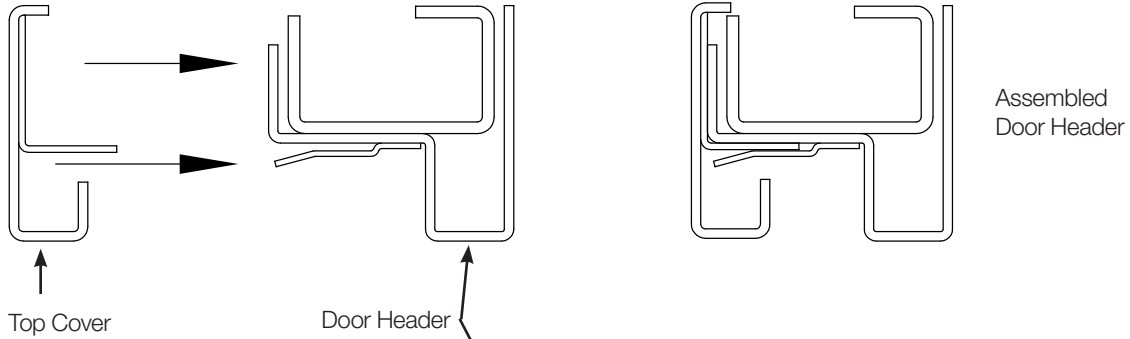
Gently pull the bottom corner of one door at a time at the meeting stile to correct the alignment. If you can bring each door closer to alignment a little bit at a time, this should close the gap without breaking the glass. Do not overly stress the doors while attempting this.



Installing Top Cap on Glass Doors

All doors that require glass, a special top cap is used. Once the doors are hung and the glass is inserted into the framing of the door, a special top cap is required to complete the framing of the door. This must be installed before the glazing of the glass in the door begins. This always occurs at the top of the door.

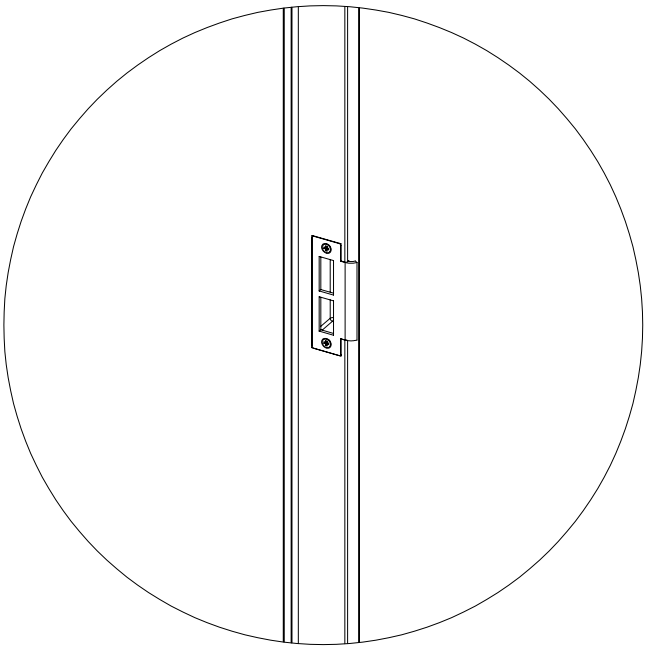
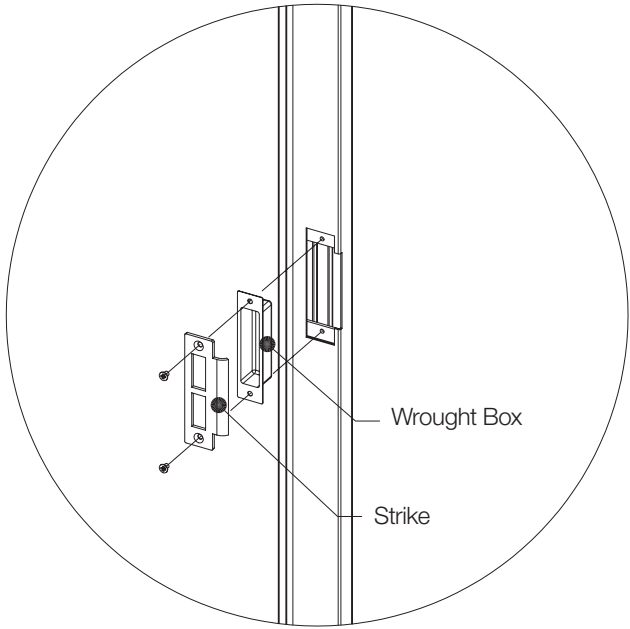
Note: Glass must be installed in door before Top Cover is installed



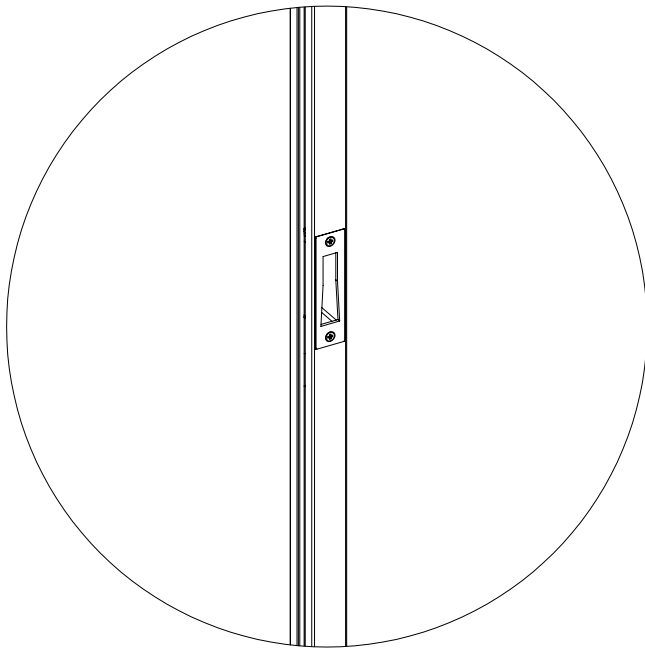
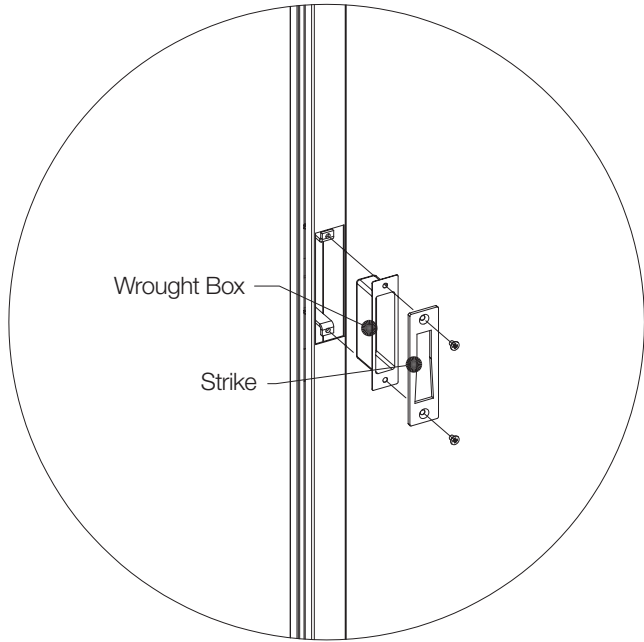
Lock Box Hinged Door shown

Installing Strikes

Before installing the strikes to the door frame or door rail, install the wrought box into the frame.



Applying strikes in strike rail for hinged and pivot doors.



Applying strikes in door rail for sliding doors when lock is mounted in the frame rail.

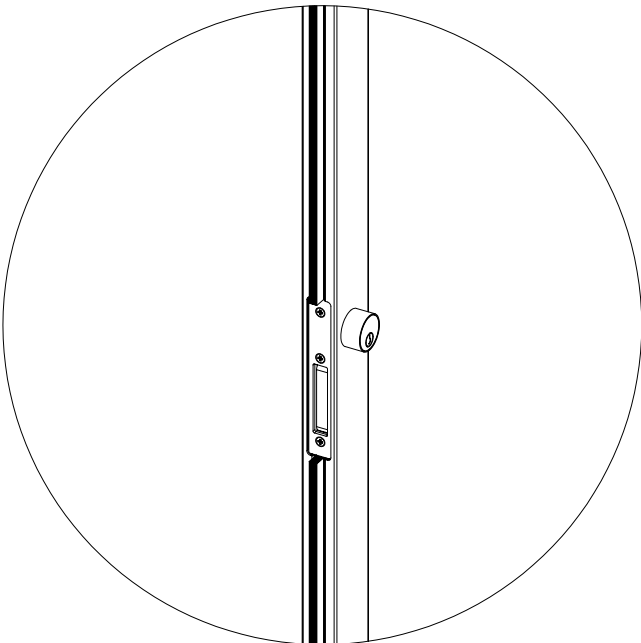
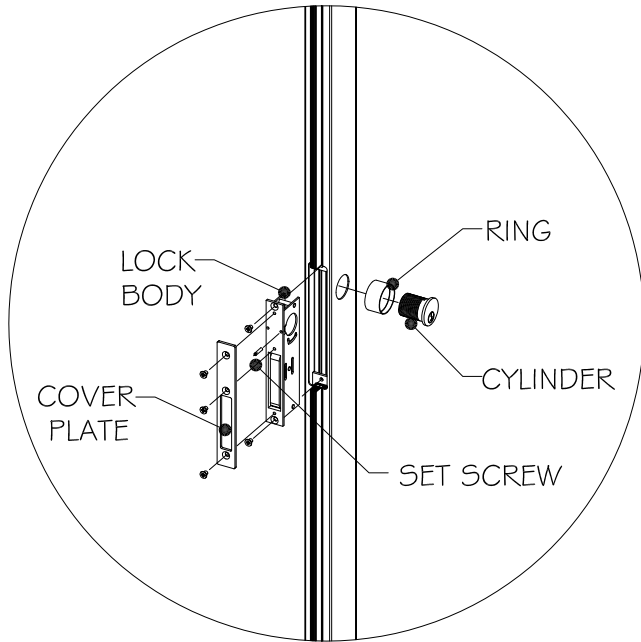
Installing Lock into Sliding Door Post

Install the lock body into the factory cut lock post.

Unscrew the set screw so that the lock body can accept the cylinder.

Slide the ring over the threaded side of the cylinder and screw the cylinder into the lock body.

Attach the cover plate to the lock body.



Installing Pulls on Glass

Type 13 Mounting:

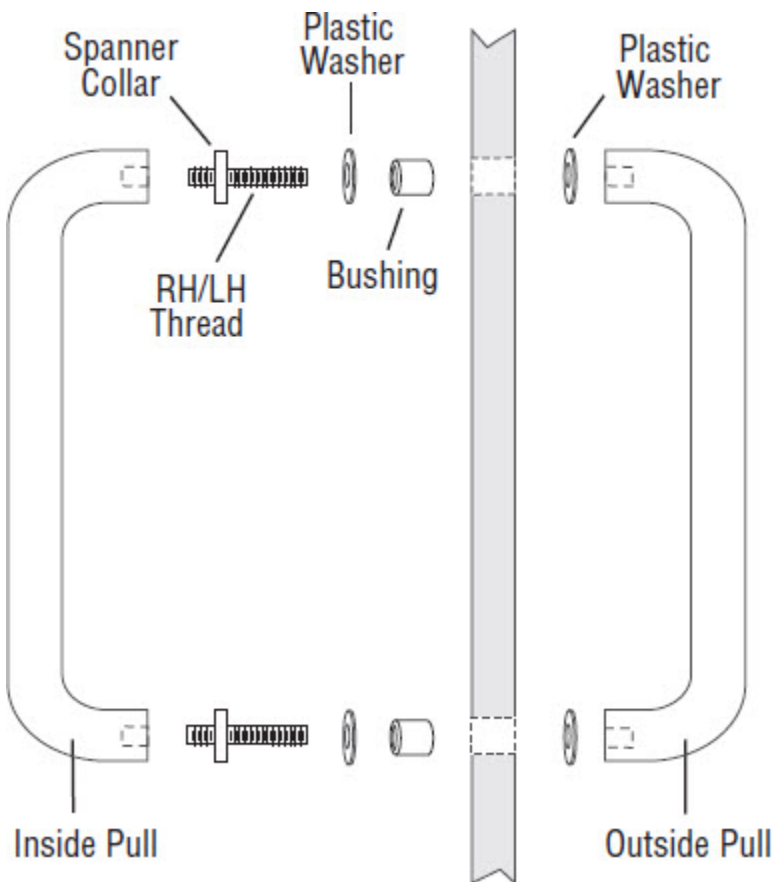
Make sure of proper centers of drilled holes. Install bushings in the holes in the glass door. Be sure that the bushings are the proper outside diameter for snug fit and are the proper length so they do not protrude beyond the surface of the glass. (It is acceptable if they are a little short.)

Locate the cone head machine screw and slip the thin stainless washer onto the screw followed by the plastic washer. Insert the screws through the bushings from the push side of the door to the pull side. Push the screw all the way through so the washers and the shoulder are snug against the door face.

Slip the other plastic washer over the protruding thread on the outside of the door and tighten the outside pull with the cone head bolt. Make sure the pull is properly tightened and snug to the door face. The cone head bolt should be rigid before proceeding.

Slid the inside pull over the cone heads and hold the inside pull tight to the face of the door while tightening the set screws.

Note: It is imperative that the set screws are firmly tightened and that the door pull is tight against the door face so that the set screw properly engages the cone head. If vibration causes set screws to loosen, use a "Locktite" type material to prevent such action.



Installing Pulls on Glass

Type 14 Mounting:

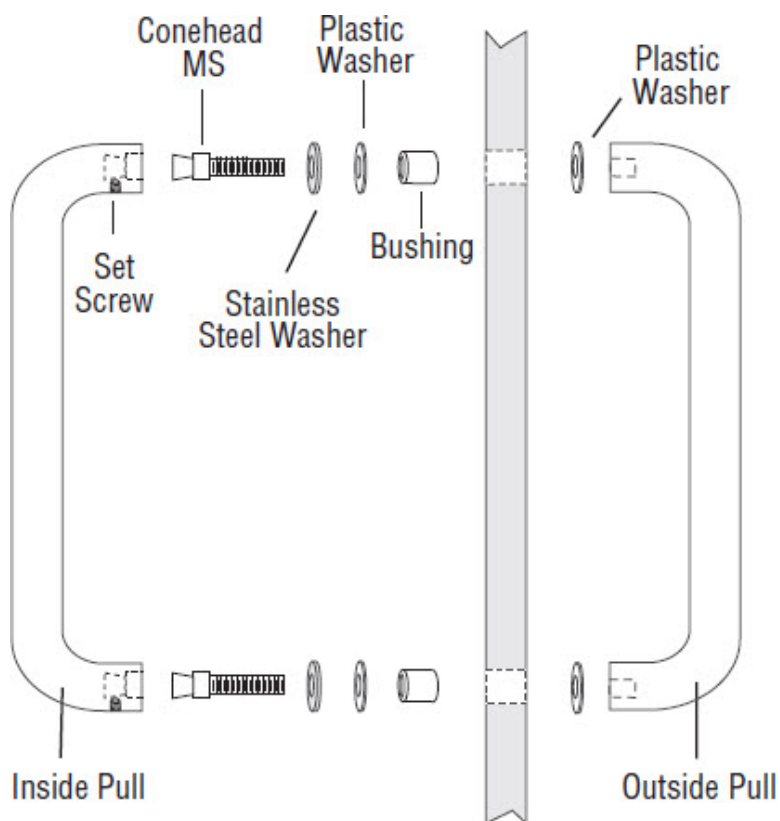
Make sure of proper centers of drilled holes. Install bushings in the holes in the glass door. Be sure that the bushings are the proper outside diameter for snug fit and are the proper length so they do not protrude beyond the surface of the glass. (It is acceptable if they are a little short.)

Start the right-hand/left-hand threaded rods into one right/hand threaded pull just using enough threads to hold it in place.

Take the door pull, which you have started the threaded rods into, and push the bolts through the holes in the door. Slip washers and then the spanner collar over the threaded rods and turn clockwise to start threads into the inside left/hand threaded door pull.

Start tightening handles by alternately turning rods about $\frac{1}{4}$ turn at a time. This can be done by using an open end or adjustable wrench on the flat spot of the bolt. When the handles have been drawn together enough so that there is no longer room for the wrench to be used, then the handles can be tightened the rest of the ways using a spanner wrench or an object such as a nail or drill bit that will fit in the hole in the spanner collar. Continue tightening the spanner collars by alternately turning in $\frac{1}{4}$ turn increments until pulls are tight against door.

Note: This type of mounting makes a very rigid connection but it does require care in the installation. Tolerances are tight and rods can bind easily if turned too much at a time.

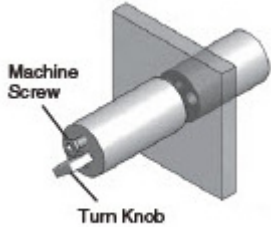


Installing Locking Pulls on Glass

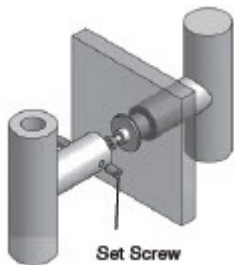
Unpacking instructions:

Save all fasteners as they are needed for installations.

1. Rotate turn knob 1/4 turn to allow removal of socket head machine screw.
2. Unscrew the socket head machine screw in the lock housing.



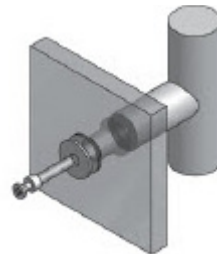
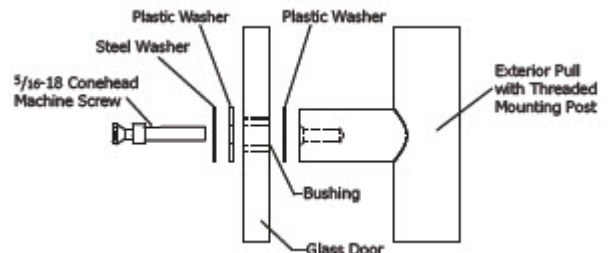
3. Loosen set screws on the side of the mounting post(s) at the end of the pull.
4. Separate interior (turn knob side) pull from exterior pull.
5. Remove conehead machine screw from end mounting post(s).



Installation instructions (Steps 1-3):

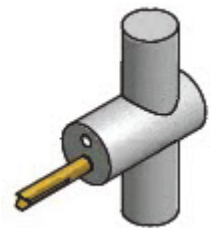
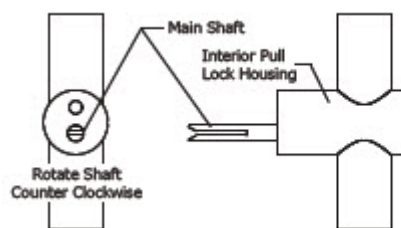
Step 1: Install Exterior Pull

1. Verify center to center of mounting holes is correct.
2. Insert clear bushings into 5/8" hole(s) in glass door.
3. Put metal washer followed by plastic washer onto conehead screw and then through the door onto another plastic washer and into the end mounting post(s) of the exterior pull.
4. Place cork washer under the lock housing.
5. Holding the pull in place, tighten conehead machine screw(s) at the end post(s) completely.



Step 2: Preparing for Interior Pull Installation

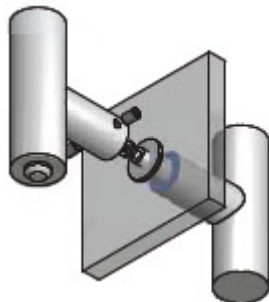
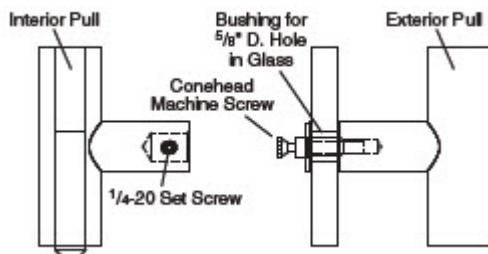
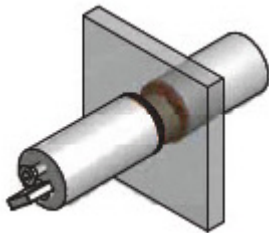
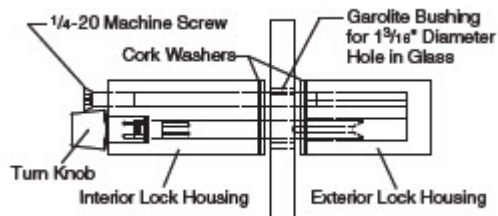
1. Rotate the turn knob counter-clockwise to completely retract (unlock) the bolt.
2. Remove key from cylinder of exterior pull.
3. Rotate shaft counter-clockwise until it stops.



Installing Locking Pulls on Glass

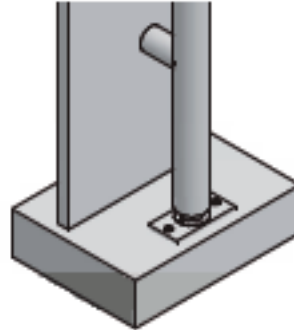
Step 3: Install Interior Pull

1. Insert garolite bushing into 1-3/16" hole in glass door.
2. Place cork washer under lock housing.
3. Position pull for installation and slide main shaft through door into mating hole on the exterior pull lock housing.
4. At the same time, slide the end mounting post(s) over the conehead head(s).
5. Tighten the set screws in the end mounting post(s).
6. If necessary, rotate the turn knob 1/4 turn to allow access to lock housing mounting screw hole.
7. Insert the socket head machine screw into the turn knob lock housing and tighten completely.
8. Return the turn knob counter-clockwise to the completely retracted position.



Bottom Strike Installation

1. Locate strike in proper location on floor or threshold as appropriate so that the bolt engages the hold in the strike.
2. Follow mounting instructions for #570 dust proof strike (included with strike).





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