

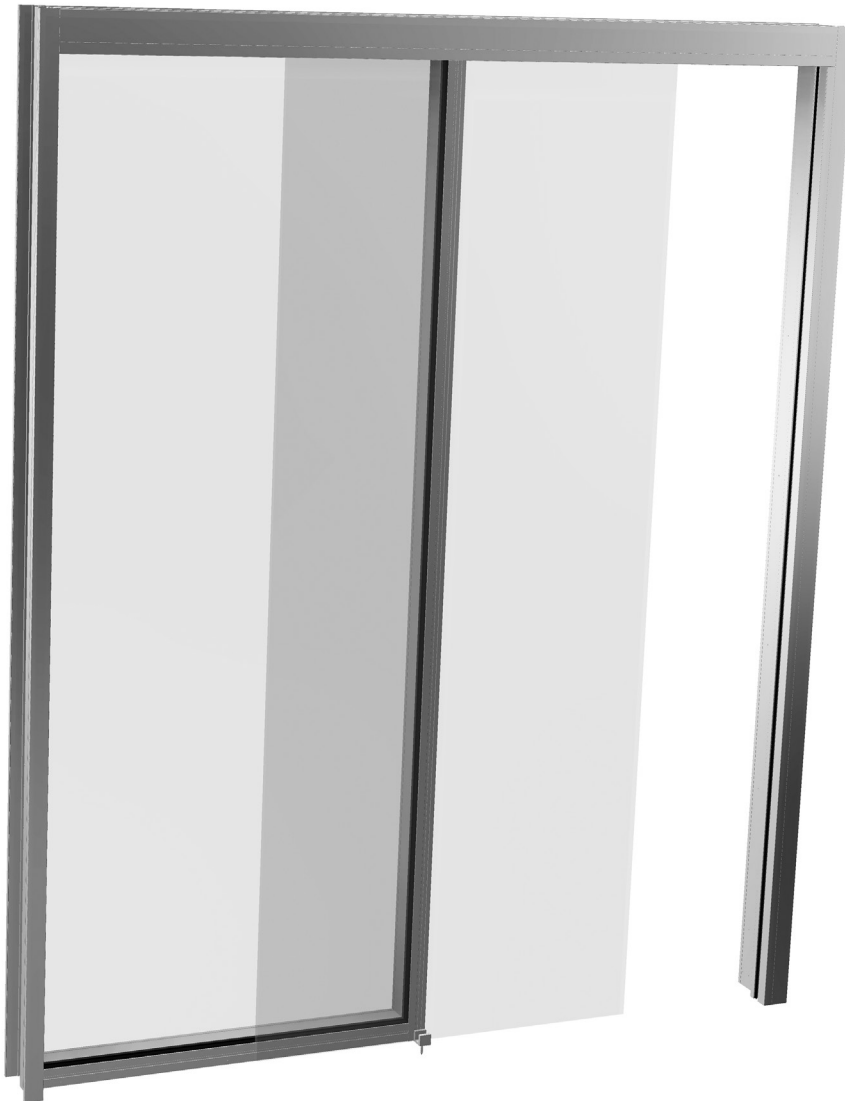


# INSTALLATION INSTRUCTIONS

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## **SERIES 487 CENTER GLAZED ALL GLASS SLIDING DOOR WITH TRIM**



# GENERAL INSTALLATION NOTES

## 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 (CRL Cat. Nos. BC5GL or BC17A).
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. U.S. Aluminum exercises 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 any sequence with other trades which offset installation (i.e. fire proofing, back-up 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.

## 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.

## SYSTEM REQUIREMENTS

Maximum wall thickness: 4-7/8" (124 mm).

Maximum weight per sliding door: 100 lbs (45 kg) each.

Maximum unsupported total load on each sill: 50 lbs (23 kg) each.

Note: Additional shim support under the sill member is required for any loads over 50 lbs (23 kg).

Interior use only.

## MINIMUM DOOR PANEL AND OPENING WIDTH REQUIREMENTS

Softbrake is available with controls in either one direction or both directions. Refer to the chart below for minimum Door Panel and Door Opening Widths for each condition.

	Softbrake Control	Minimum Door Width	Minimum Door Opening
Single Door	CRL4950 One Direction	30-7/8" (784 mm)	28-15/16" (735 mm)
	CRL495SBK Both Directions	42-1/2" (1080 mm)	40-9/16" (1030 mm)
Bi-Part Pair of Doors	CRL4950 One Direction	30-7/8" (784 mm)	58-7/8" (1495 mm)
	CRL495SBK Both Directions	42-1/2" (1080 mm)	82-1/8" (2086 mm)

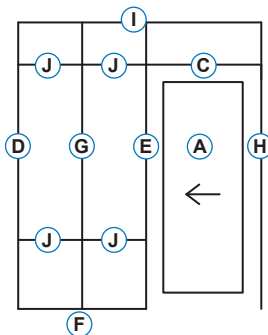
**IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION**

## EXTRUSION IDENTIFICATION

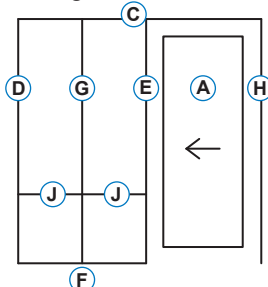
Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (below) to organize and lay out each Series 487 Office Partition System before proceeding with the assembly process.

NOTE: This manual covers the configurations shown below. If your installation calls for more fixed lites, refer to manual #11M0156 for the standard 487 Center Glazed installation to install the additional lites.

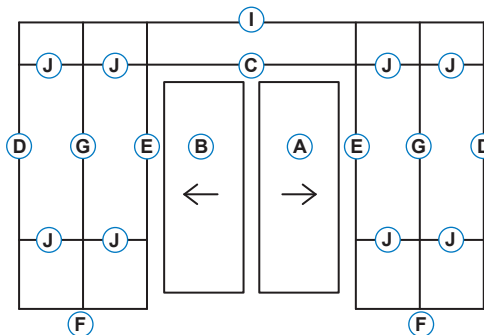
Transom Single Slider Door



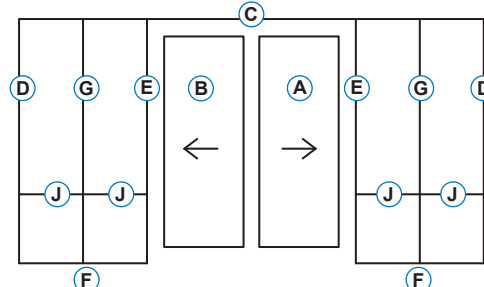
Single Slider Door



Transom Double Slider Door



Double Slider Door



- A** Active Door/ Door with Lock on Pair
- B** Strike Door (On Pair Only)
- C** Header
- D** Sidelite Wall Jamb
- E** Wall / Hinge Jamb
- F** Sill
- G** Intermediate Vertical
- H** Sidelite Vertical / Strike Jamb
- I** Transom Header
- J** Intermediate Horizontal

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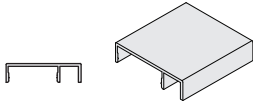
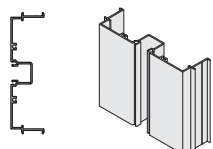
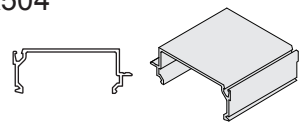
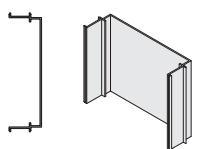
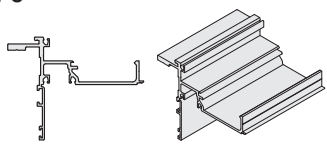
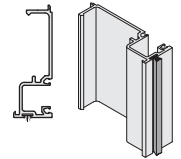
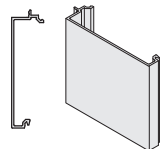
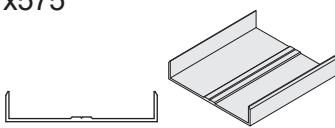
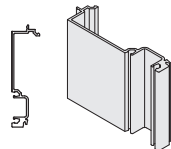
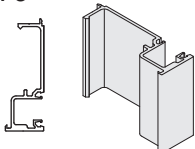
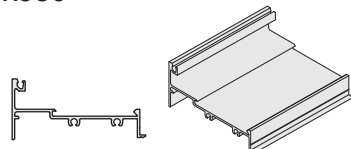
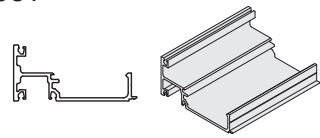
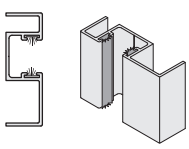
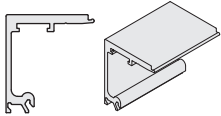
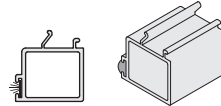
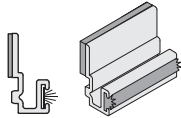
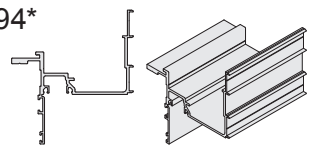
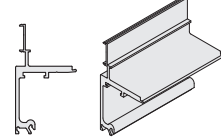
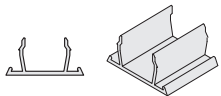


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## PARTS IDENTIFICATION

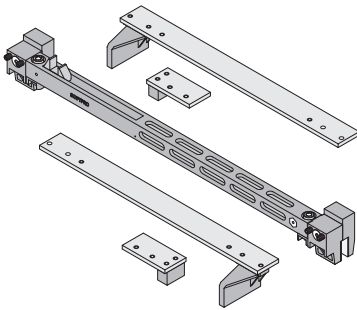
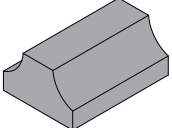
NOTE: Read these instructions carefully to identify the parts needed for your particular installation.

PART NUMBER	PART NUMBER	PART NUMBER
<p>487x015</p>  <p>1-1/2" Trim Strip</p>	<p>487x501</p>  <p>Deep Pocket Jamb</p>	<p>487x504</p>  <p>Glazing Stop</p>
<p>487x509</p>  <p>Cased Jamb</p>	<p>487x570*</p>  <p>Interior Main Header (Surface Mount)</p>	<p>487x572*</p>  <p>Intermediate Vertical Deep Pocket Mullion</p>
<p>487x573*</p>  <p>Intermediate Vertical Mullion Snaps with 487x572</p>	<p>487x575*</p>  <p>Floor Track</p>	<p>487x577*</p>  <p>Intermediate Vertical Shallow Pocket Insert Snaps with 487x579</p>
<p>487x579*</p>  <p>Intermediate Vertical Deep Pocket Mullion</p>	<p>487x580*</p>  <p>Sill</p>	<p>487x581*</p>  <p>Intermediate Horizontal Mullion</p>
<p>487x590*</p>  <p>All Glass Door Receiving Channel</p>	<p>487x591*</p>  <p>All Glass Sliding Door Top Track (Surface Mount)</p>	<p>487x592*</p>  <p>All Glass Sliding Door Header Exterior Adaptor</p>
<p>487x593*</p>  <p>All Glass Sliding Door Interior Glazing Adaptor</p>	<p>487x594*</p>  <p>Interior Main Header (Wall Wrap)</p>	<p>487x596*</p>  <p>All Glass Sliding Door Top Track (Wall Wrap)</p>
<p>P050</p>  <p>1/4" Pocket Insert</p>		

\* Available through Technical Sales at (323) 588-1281 Ext. 15305

## PARTS IDENTIFICATION (CONTINUED)

NOTE: Read these instructions carefully to identify the parts needed for your particular installation.

PART NUMBER			
<b>CRL4939</b>  Left and Right Hangers	<b>CRL4950</b>  One Direction Softbrake	<b>CRL495SBK</b>  Both Directions Softbrake	
<b>487SBF*</b>  Small Shear Block	<b>22027045BK*</b>  Felt for Mullions	<b>487STCRL*</b>  L-Clip (Additional part for Transom)	<b>58X14RB</b>  Rubber Bumper
<b>487C1</b>  Corner Clip (Additional part for Transom)	<b>487C4</b>  Wide Offset Clip (Additional part for Transom)	<b>487STRC6*</b>  6 Inch Clip (additional part for Transom)	<b>WB452</b>  Edge Block
<b>NP225</b>  For 1/4" Sidelite Glass	<b>NP238</b>  For 3/8" Sidelite Glass	<b>NP563</b>  For 9/16" Sidelite Glass	<b>SB513</b>  For 1/4", 3/8" Sidelite Glass
<b>ST206</b>  #8 X 1/2" PH SMS for Shear Block	<b>20061601</b>  #6-20 X 1/2" PHP SDS	<b>6X158DWSD</b>  #6 X 1-5/8" FHF SPDS	<b>SB514</b>  For 1/2", 9/16" Sidelite Glass
<b>ST286</b>  #12 X 2" HWH SMS	<b>ST266</b>  #12 X 1" HWH SMS	<b>CRL2940</b>  Door Guide	

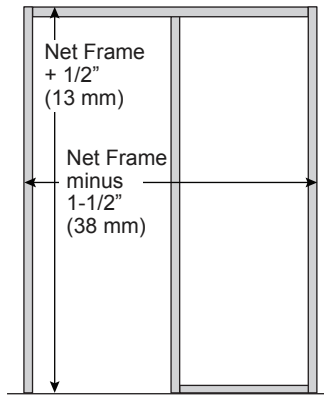
\* Available through Technical Sales at (323) 588-1281 Ext. 15305

## DRYWALL PREPARATION

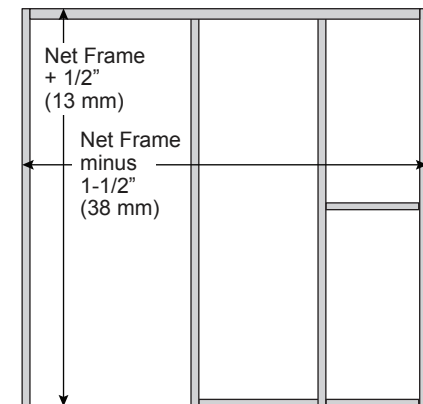
When framing, position all metal studs so that the open side faces the rough opening. Use two sets of studs, stacked and finished for head. The icons in the illustrations below show the correct orientation.

Refer to the CRL Shop Drawings for overall layout and to confirm dimensions. Contact Technical Sales for other situations at (800) 421-6144.

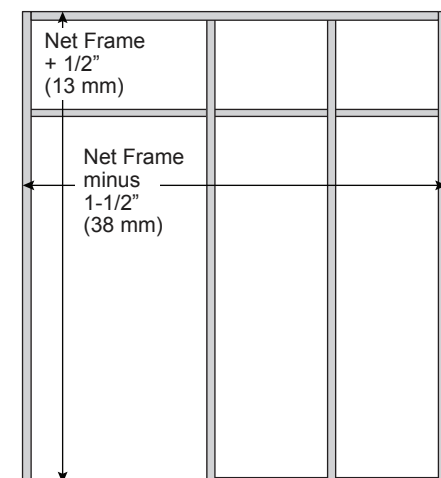
### Rough Opening Calculation



Door with Sidelite

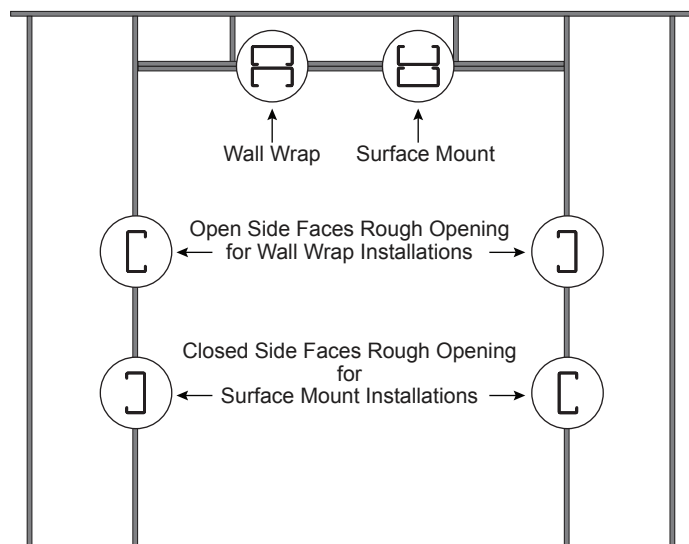
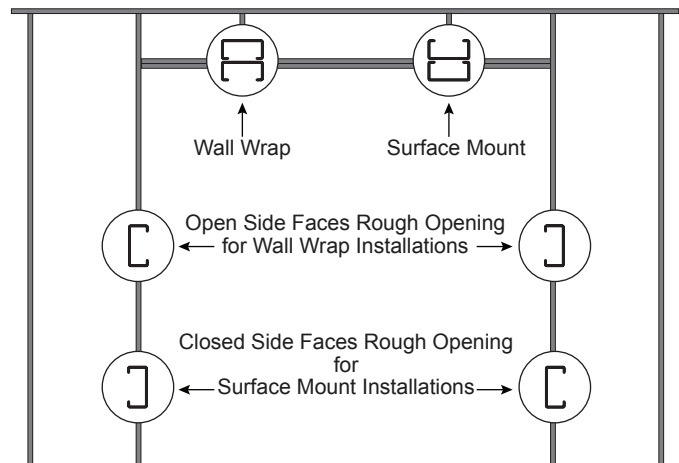
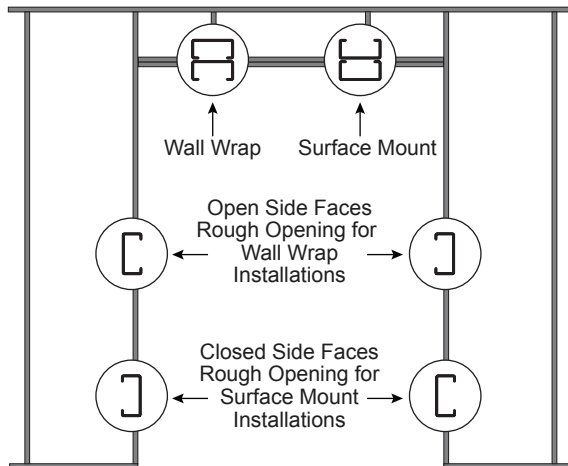


Door with Sidelite and Fixed Lite



Transom Door with Sidelite and Fixed Lite

### Metal Stud Orientation

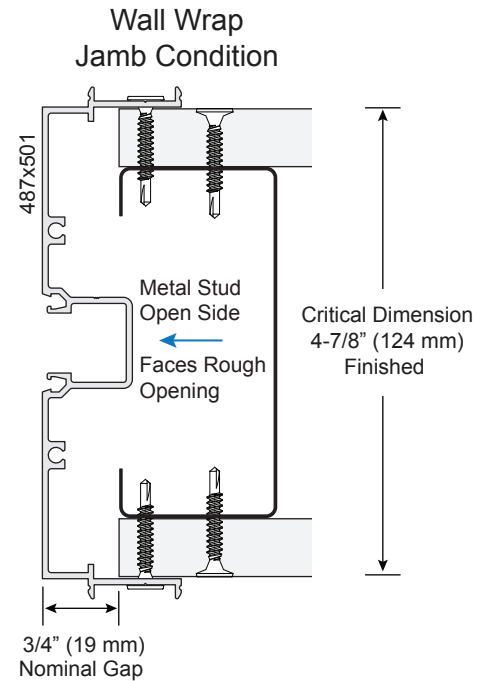
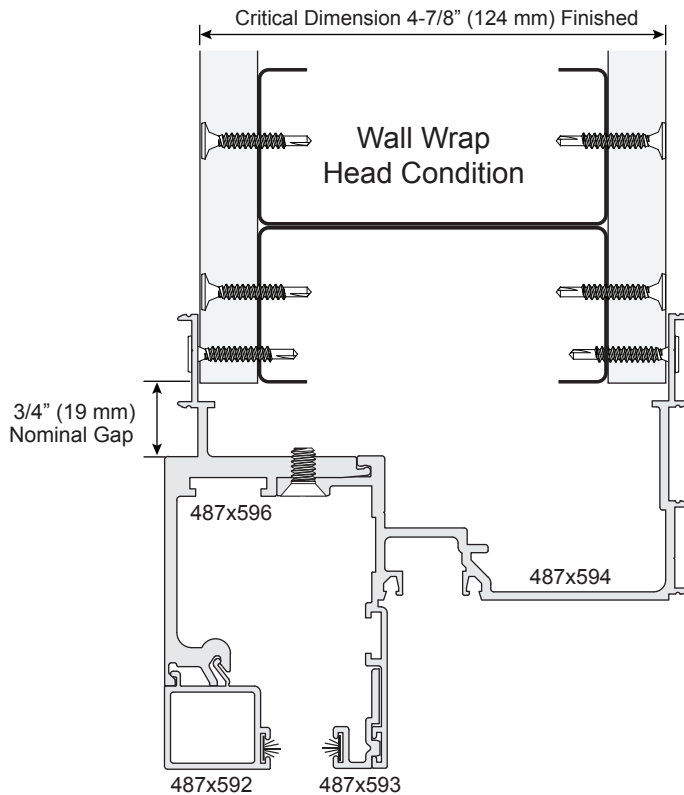


## DRYWALL INSTALLATION

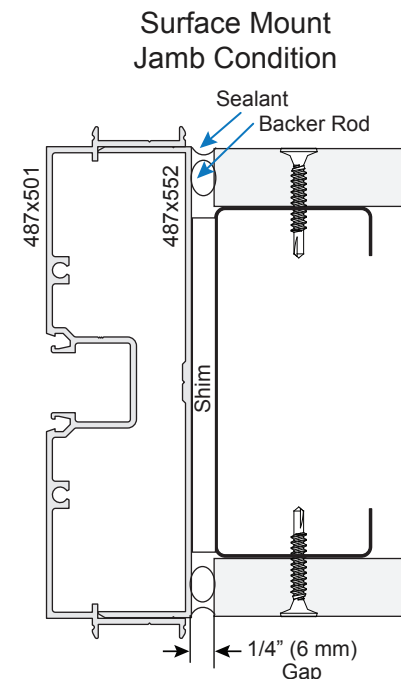
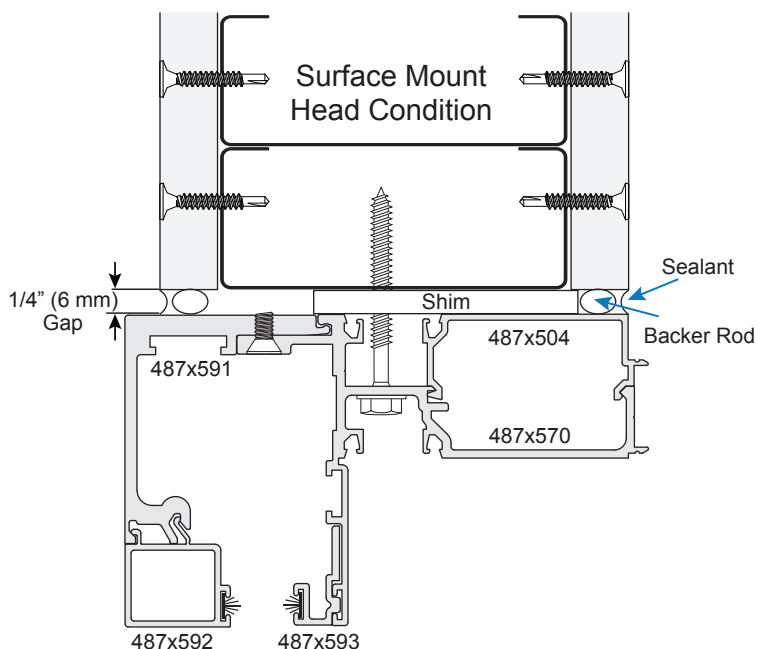
Ensure drywall thickness finishes at a standard 4-7/8" (124 mm). Cut the wallboard flush with the metal stud. Ensure the drywall is square and plumb. Note: The critical limitation for the finished wall is 4-7/8" (124 mm).

**IMPORTANT:** Provide adequate structural support for system.

### Wall Wrap Installation

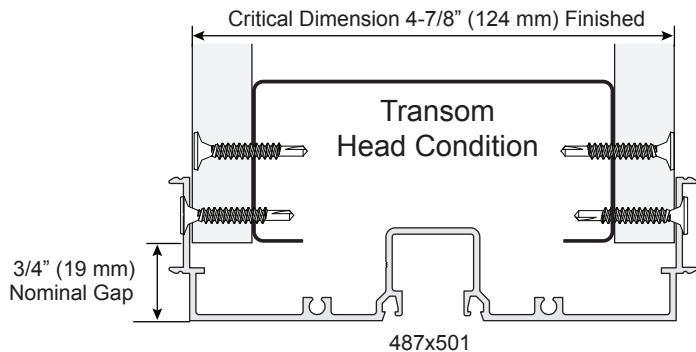


### Surface Mount Installation



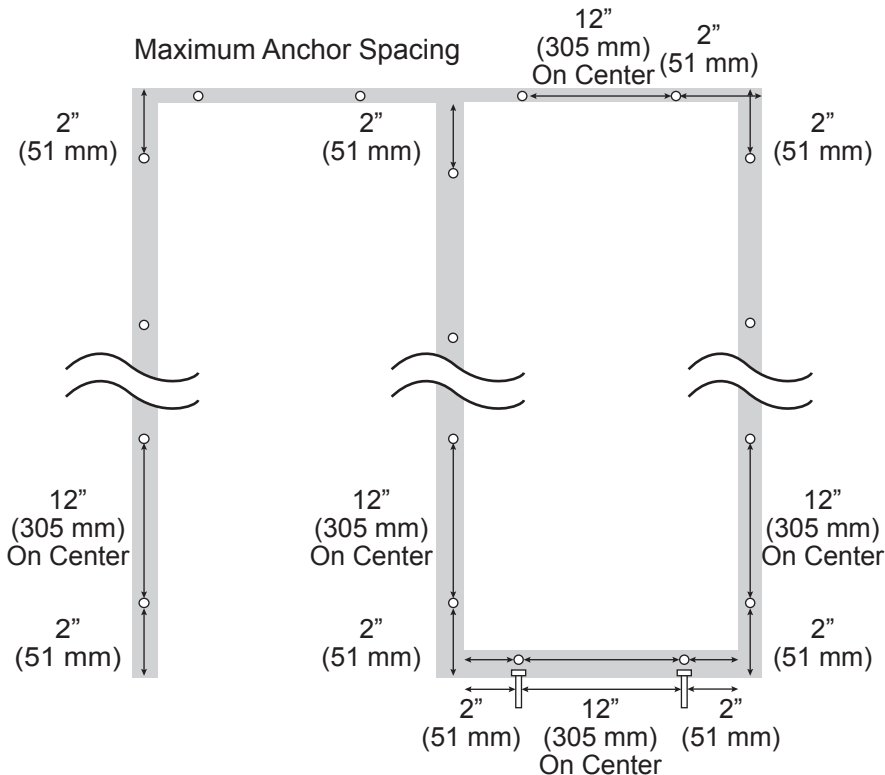
## DRYWALL INSTALLATION (CONTINUED)

### Transom Installation



## INSTALLATION NOTES

The 487x504 glass stops should only be installed during the glazing process to avoid damage to the stops. The maximum unsupported load limit for each sill is 50 lbs (23 kg). Note: Additional shim support under the sill member is required for any loads over 50 lbs (23 kg).



50 lb. maximum load on sill without additional support.



100 lb. maximum load per door.

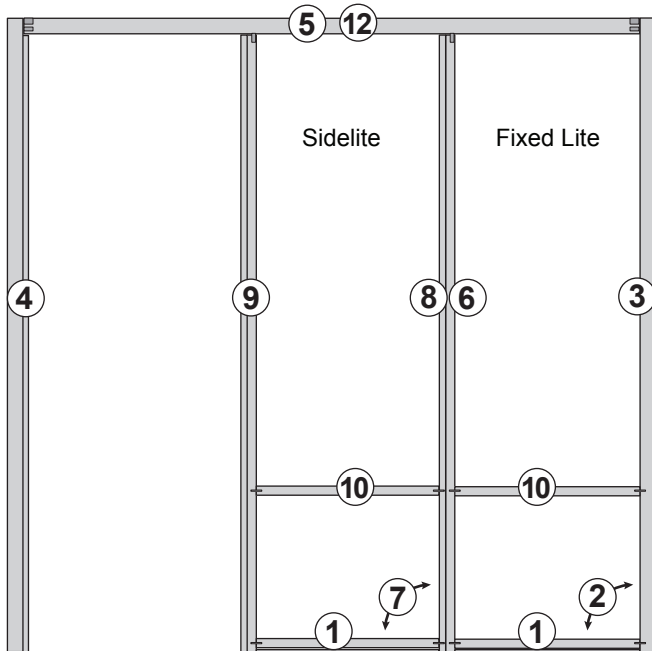


# SLIDING DOOR WITH SIDELITE AND FIXED LITE

## WALL WRAP INSTALLATION

Sliding Door with Sidelite and Fixed Lite

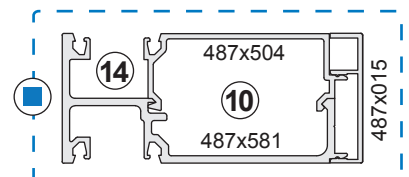
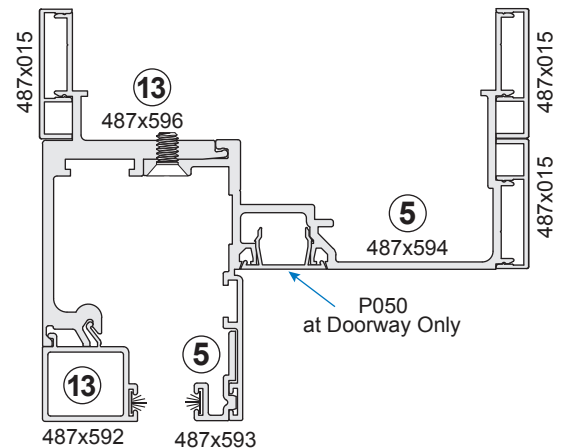
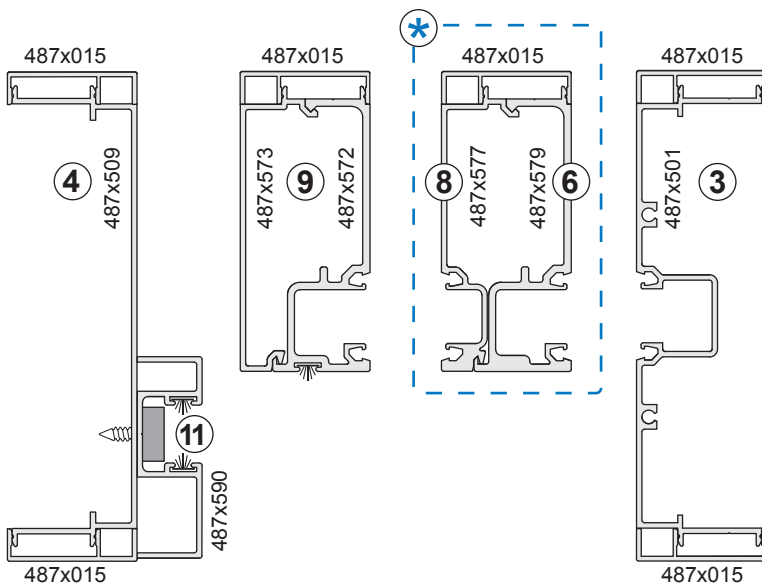
NOTE: Sliding Door with Single Sidelite, skip Steps 2 and 6. Sidelites with Horizontals add Step 10.



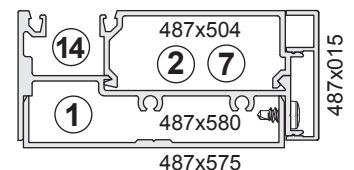
### Wall Wrap Installation Order

① Floor Track	Page 12
② Sill to Wall Jamb	Page 12
③ Wall Jamb	Page 13
④ Door Jamb at Wall	Page 14
⑤ Main Header	Page 14
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⑦ Sill to Sidelite Vertical	Page 15
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⑩ Horizontals (Optional)	Page 17
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⑫ Door Prep and Installation	Page 19 - 25
⑬ Top Track	Page 26
⑭ Sidelite Glazing	Page 27
⑮ Pocket Filler and Trim	Page 28

\* NOTE: For Single Sidelite Installations, disregard these profiles.



■ NOTE: Add profiles for installations with Horizontal Mullions at Sidelites.

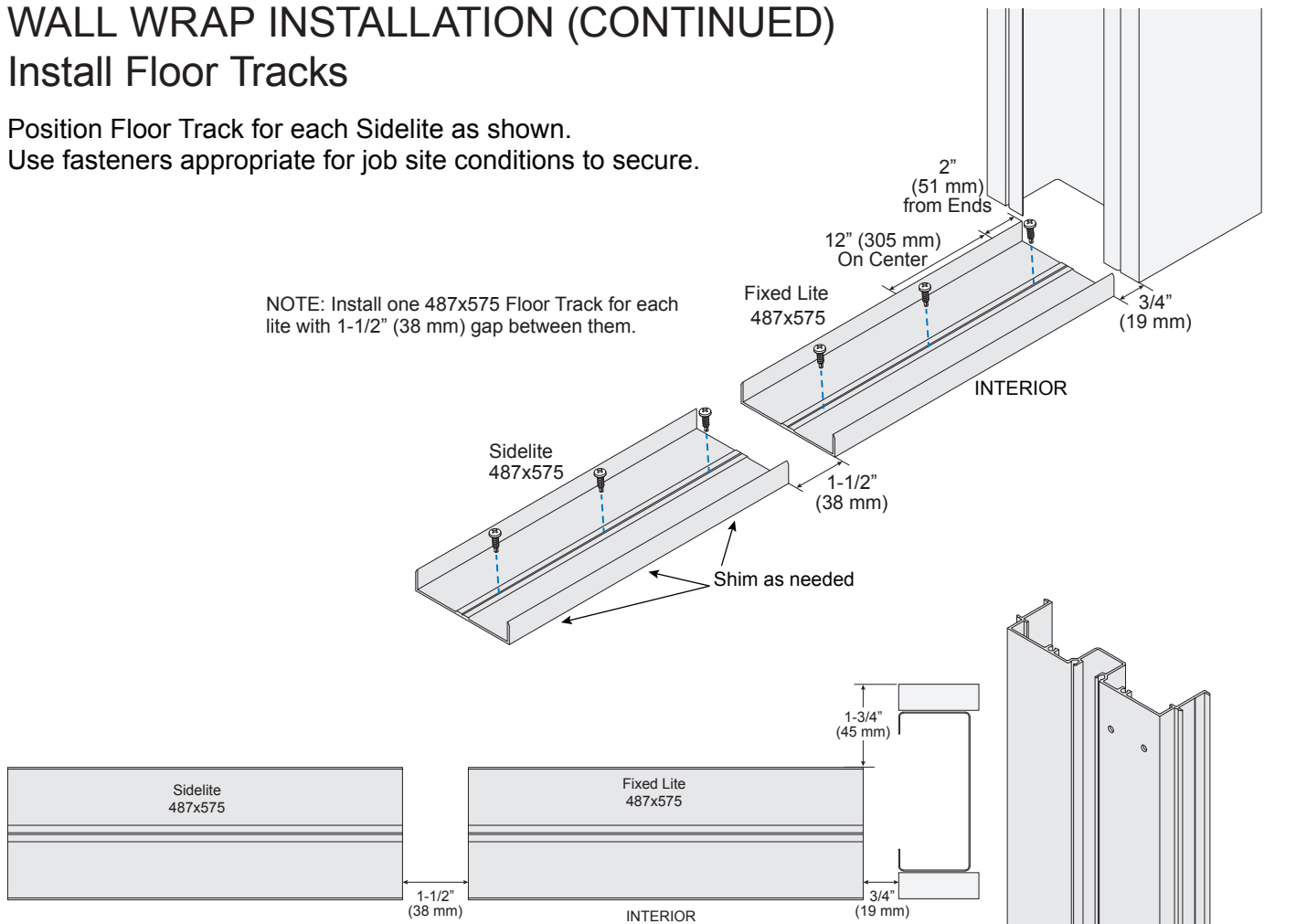


## WALL WRAP INSTALLATION (CONTINUED)

### Install Floor Tracks

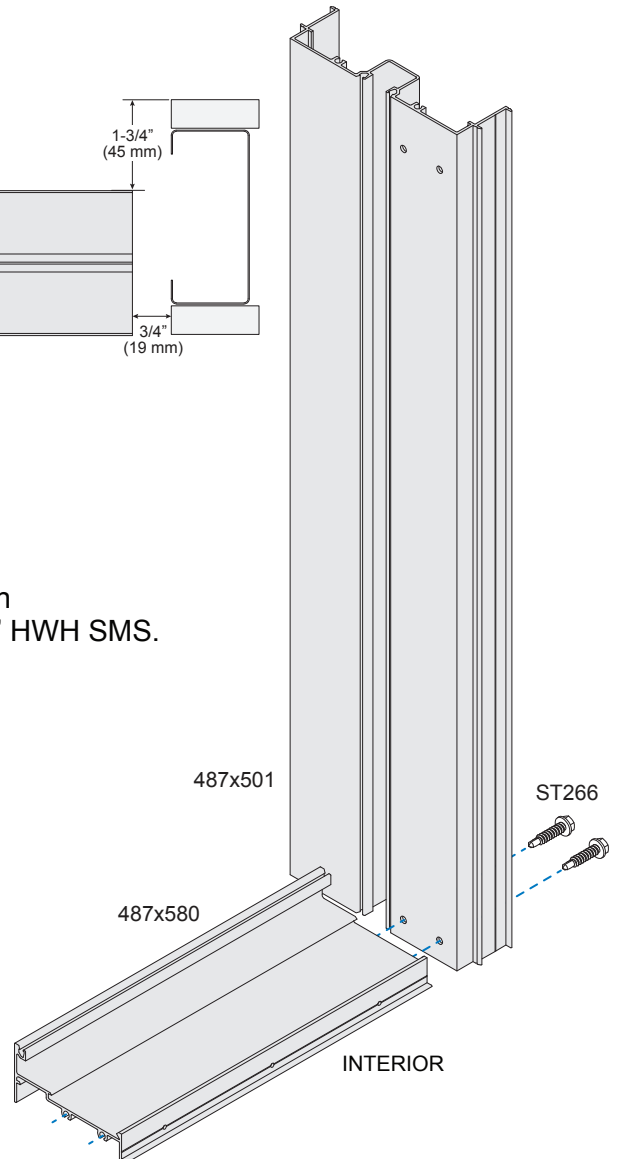
Position Floor Track for each Sidelite as shown.  
Use fasteners appropriate for job site conditions to secure.

NOTE: Install one 487x575 Floor Track for each lite with 1-1/2" (38 mm) gap between them.



### Attach Sill to Wall Jamb

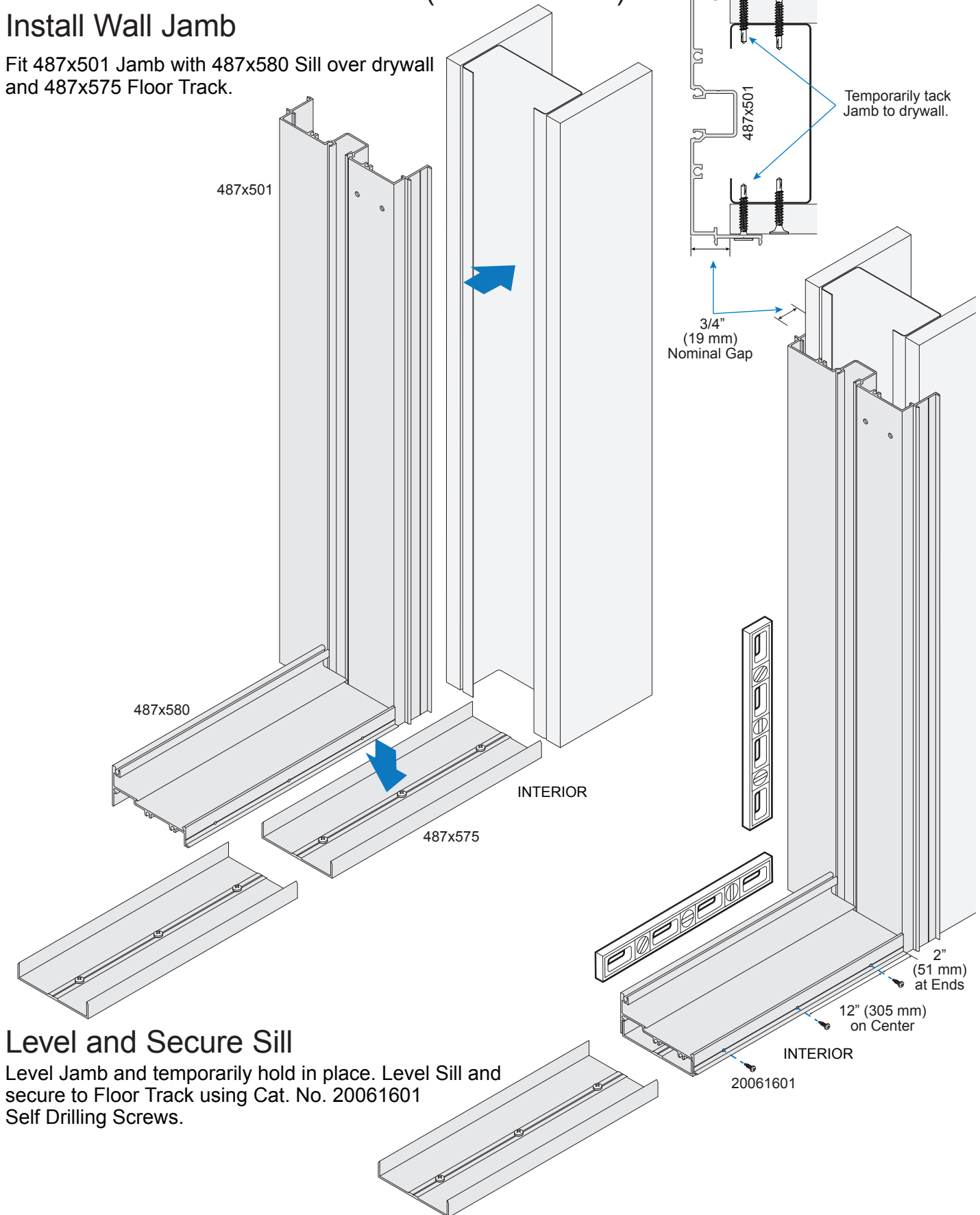
Align screw races in 487x580 Sill to factory drilled pilot holes in 487x501 Wall Jamb. Secure using two Cat. No. ST266 #12x1" HWH SMS.



## WALL WRAP INSTALLATION (CONTINUED)

### Install Wall Jamb

Fit 487x501 Jamb with 487x580 Sill over drywall and 487x575 Floor Track.



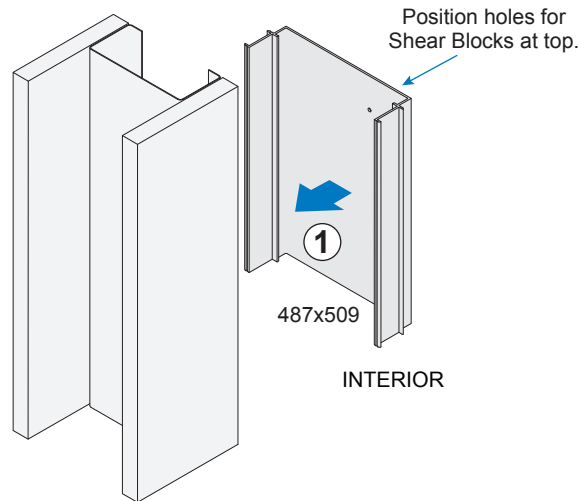
### Level and Secure Sill

Level Jamb and temporarily hold in place. Level Sill and secure to Floor Track using Cat. No. 20061601 Self Drilling Screws.

## WALL WRAP INSTALLATION (CONTINUED)

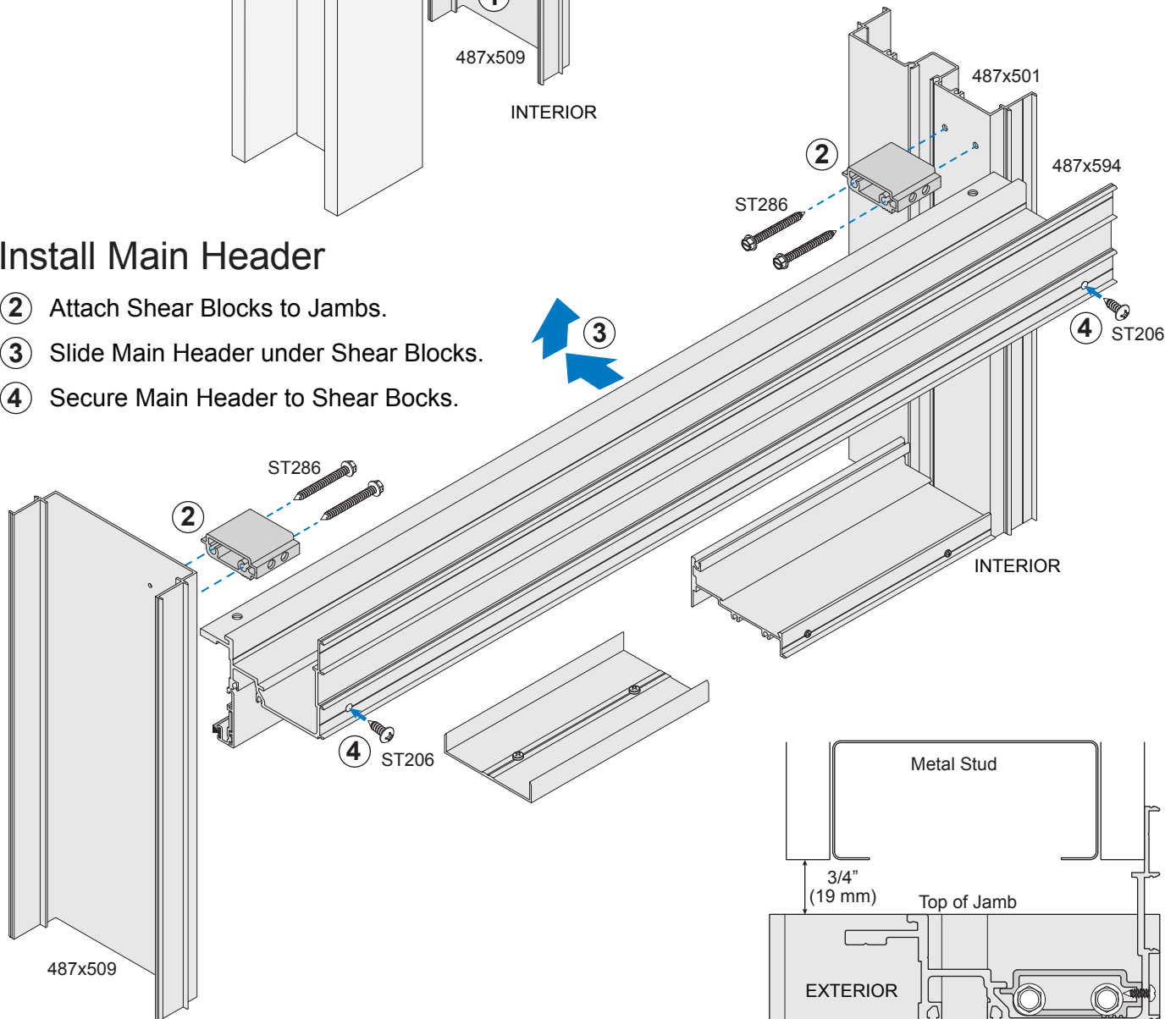
### Install Door Jamb

- ① Fit 487x509 over drywall and temporarily hold in place.



### Install Main Header

- ② Attach Shear Blocks to Jamb.
- ③ Slide Main Header under Shear Blocks.
- ④ Secure Main Header to Shear Blocks.

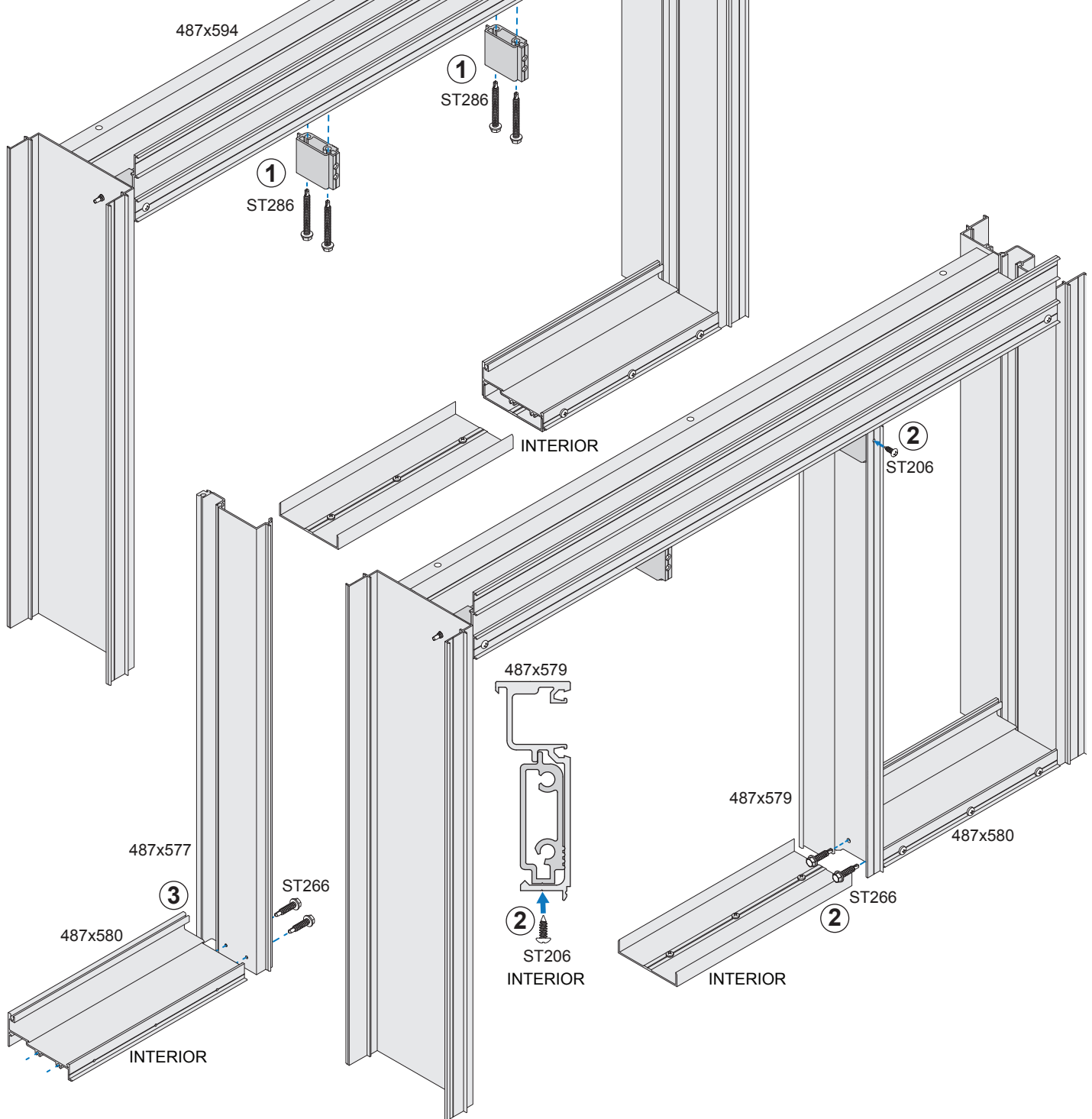
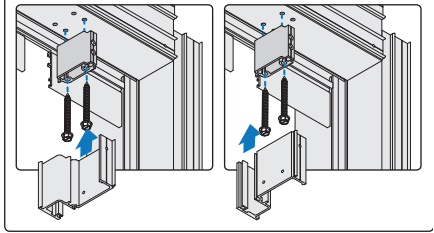


# WALL WRAP INSTALLATION (CONTINUED)

## Install Fixed Lite Verticals

- ① Attach Shear Blocks to 487x594 Main Header.
- ② Install 487x579 and secure at Shear Block and 487x580 Sill.
- ③ Attach Sill to 487x577 Vertical.

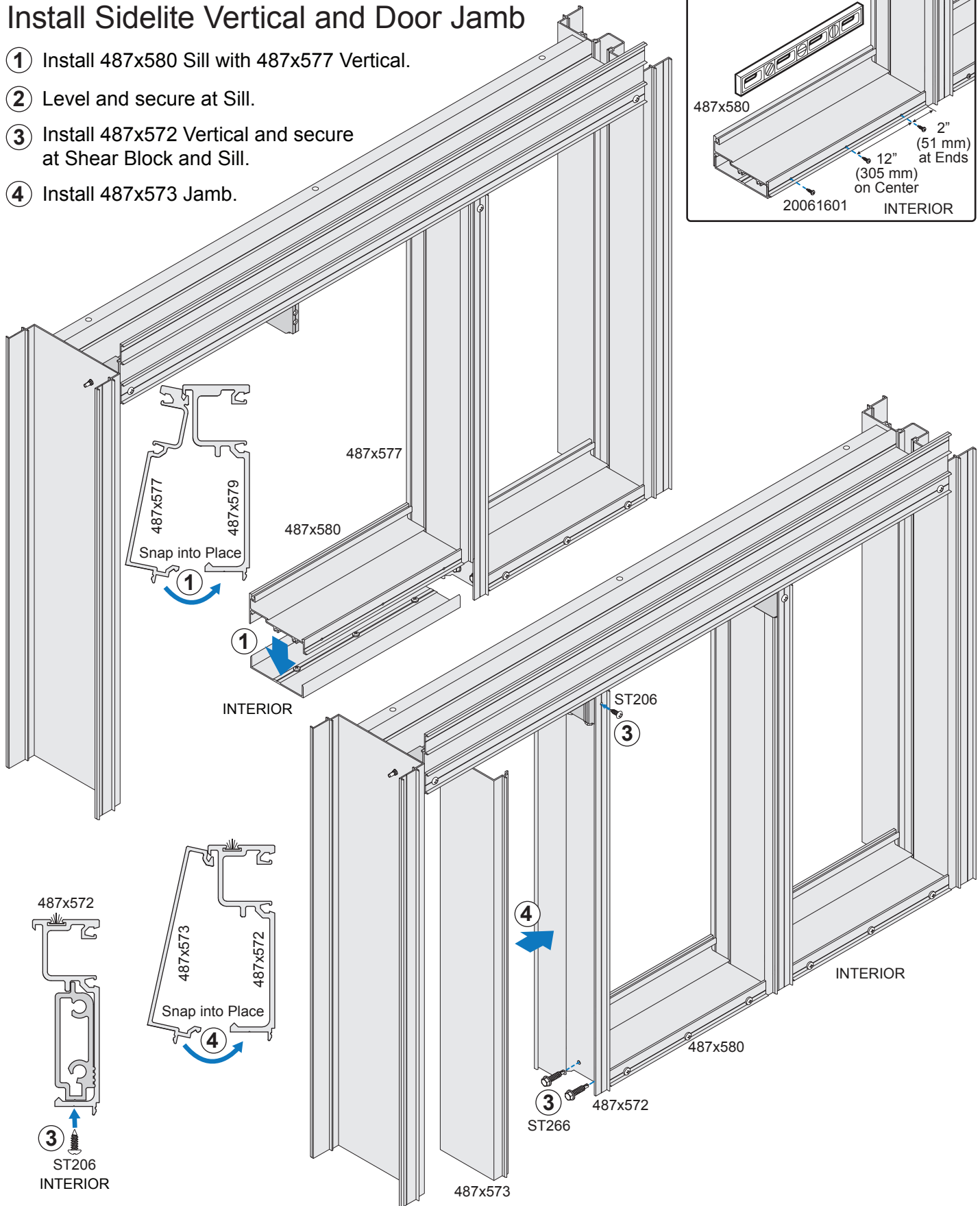
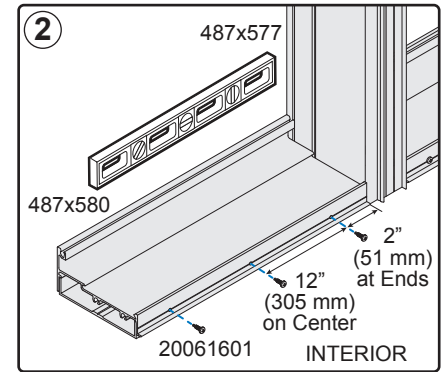
NOTE: Main Header fabricated for left and right sliding doors. Use appropriate 2 holes to install Shear Blocks for your installation.



## WALL WRAP INSTALLATION (CONTINUED)

### Install Sidelite Vertical and Door Jamb

- ① Install 487x580 Sill with 487x577 Vertical.
- ② Level and secure at Sill.
- ③ Install 487x572 Vertical and secure at Shear Block and Sill.
- ④ Install 487x573 Jamb.

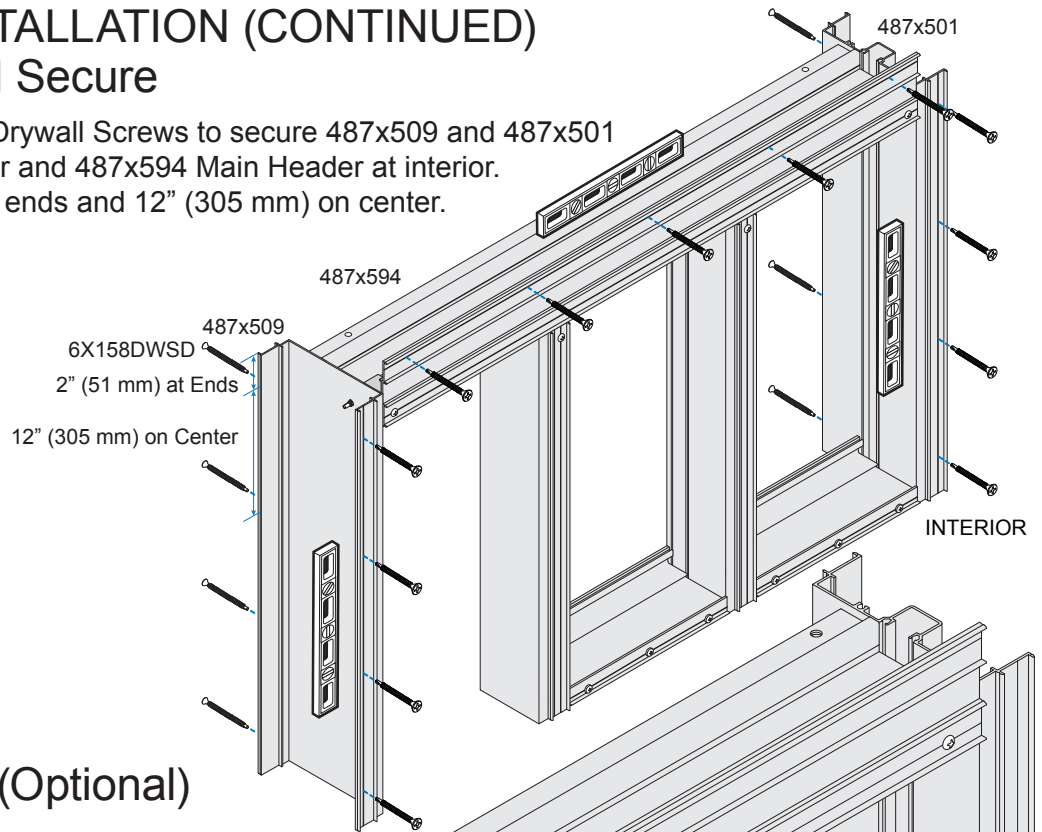




## WALL WRAP INSTALLATION (CONTINUED)

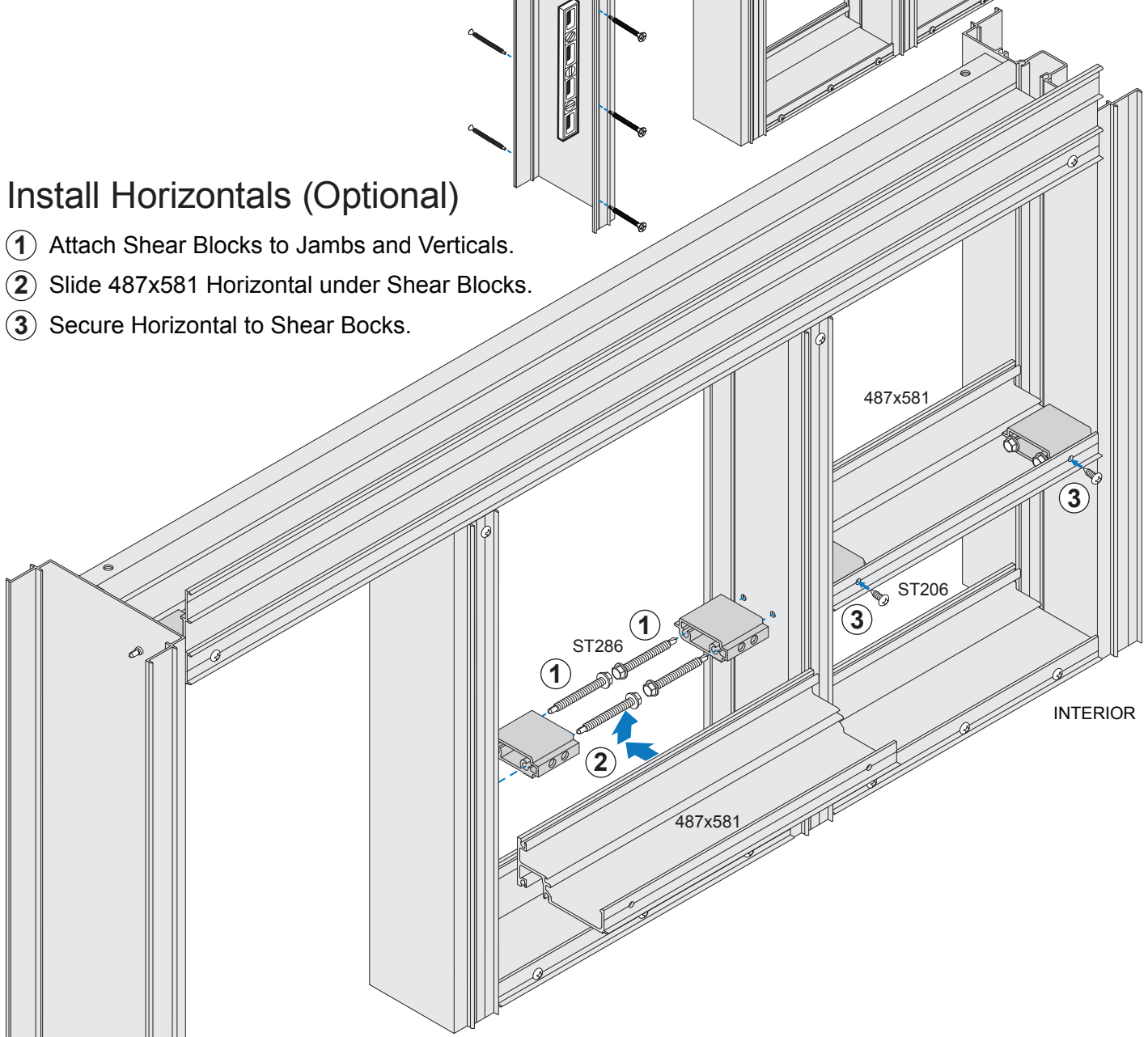
### Square Frame and Secure

Use Cat. No. 6X158DWSD Drywall Screws to secure 487x509 and 487x501 Jambs at interior and exterior and 487x594 Main Header at interior. Space screws 2" (51 mm) at ends and 12" (305 mm) on center.



### Install Horizontals (Optional)

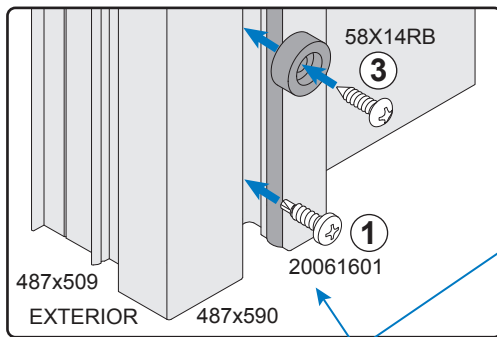
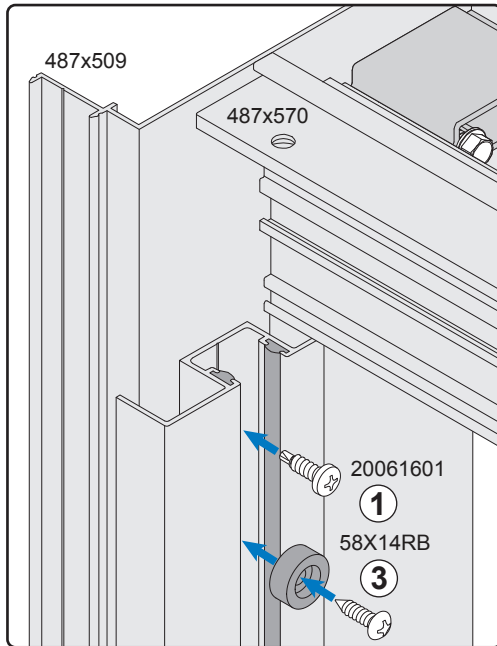
- ① Attach Shear Blocks to Jambs and Verticals.
- ② Slide 487x581 Horizontal under Shear Blocks.
- ③ Secure Horizontal to Shear Blocks.



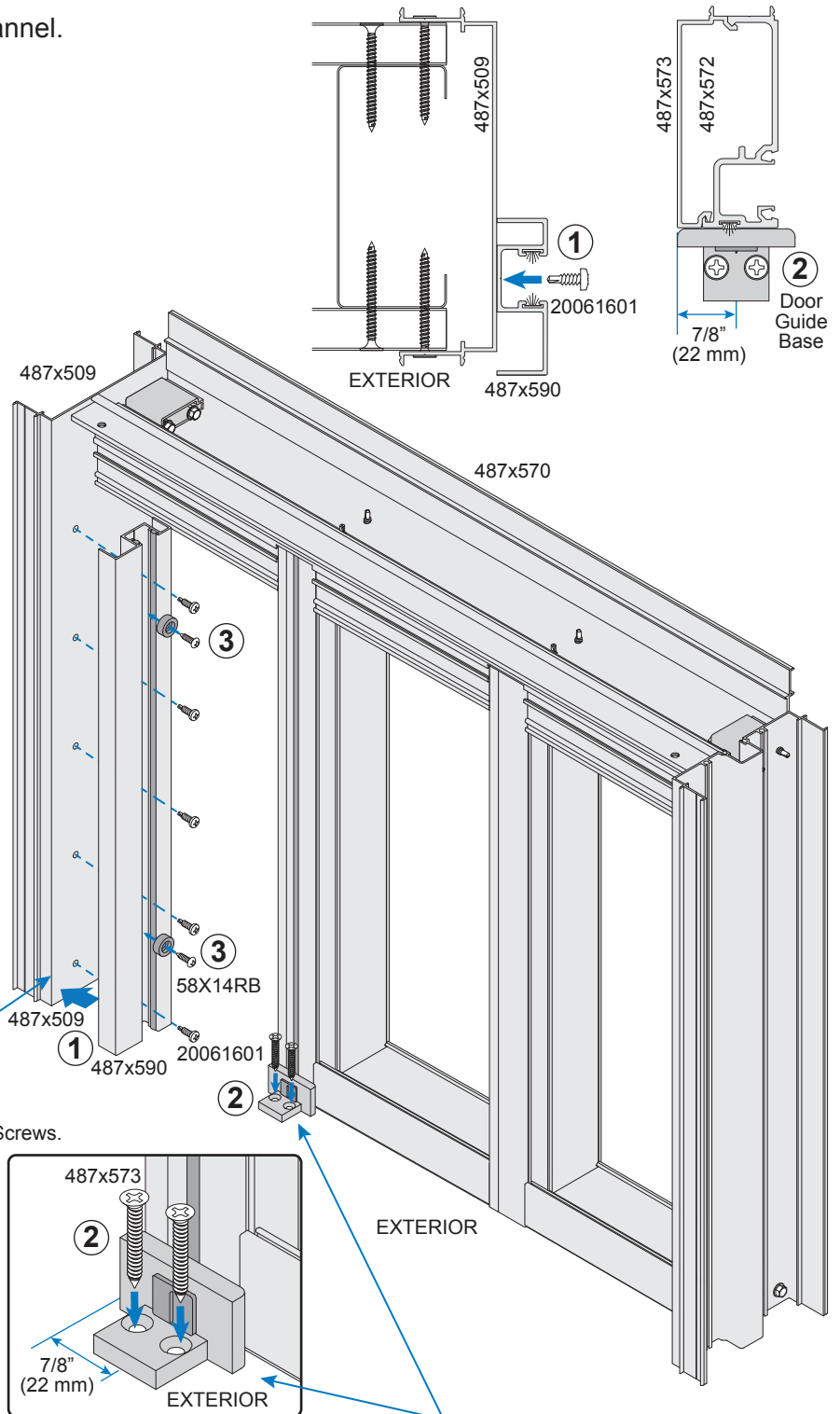
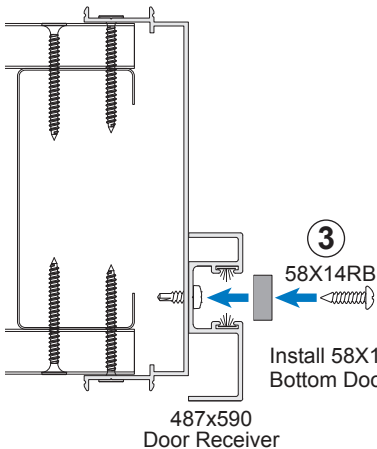
# WALL WRAP INSTALLATION (CONTINUED)

## Install Door Receiving Channel and Guide

- ① Install 487x590 Door Receiving Channel.
- ② Install Door Guide Base.
- ③ Install 58X14RB Rubber Stops.



Match factory drilled holes and secure with 20061601 Screws.



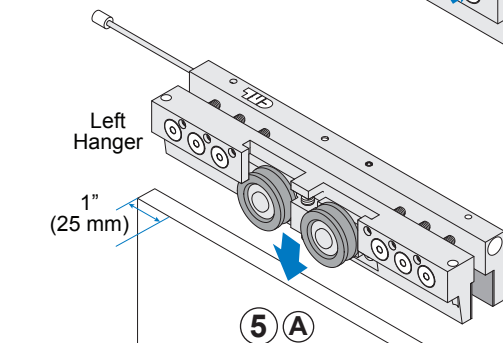
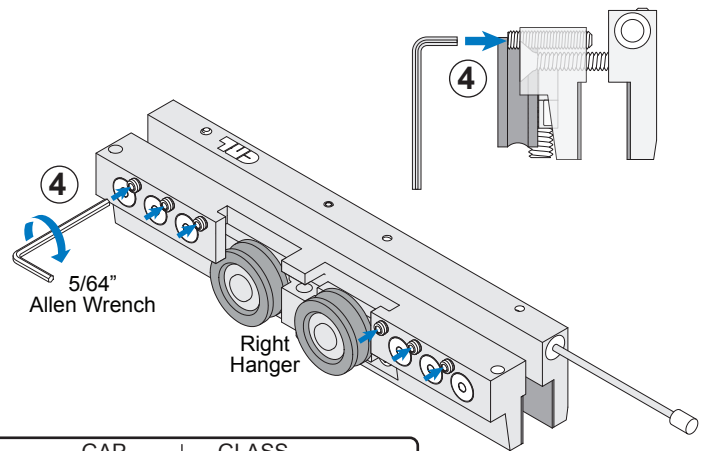
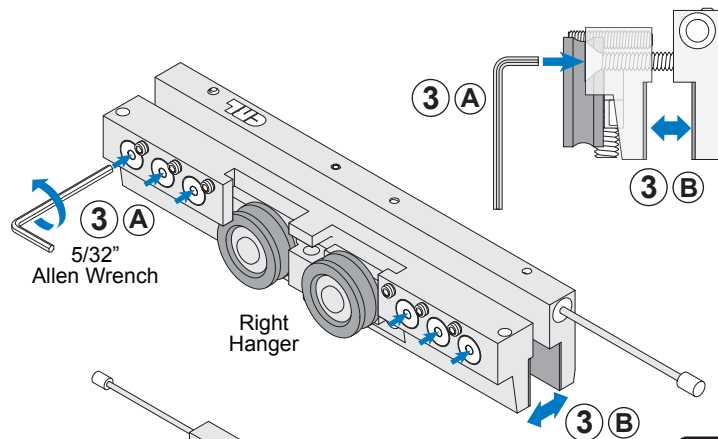
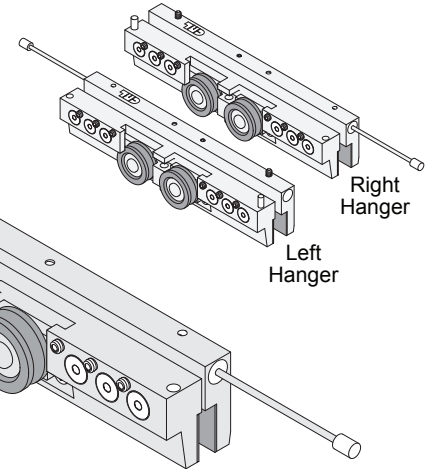
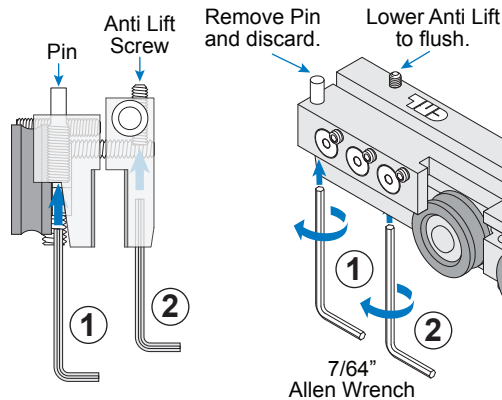
Place Door Guide Base tight to face of 487x573 Door Jamb with centerline inset 7/8" from edge. Secure with included screws. NOTE: Use anchors for concrete installations.

# WALL WRAP INSTALLATION (CONTINUED)

## Prepare Door: Install Hangers

CRL4939 Set of Two Hangers

- ① Remove Pin and discard.
- ② Lower Anti Lift Screw to flush.
- ③ Loosen Clamping Screws to expand glass pocket.
- ④ Adjust Hangers to Door glass thickness.
- ⑤ Install Hangers 1" (25 mm) from Door edge and tighten to 9.6 lbf/ft (13 N/m).



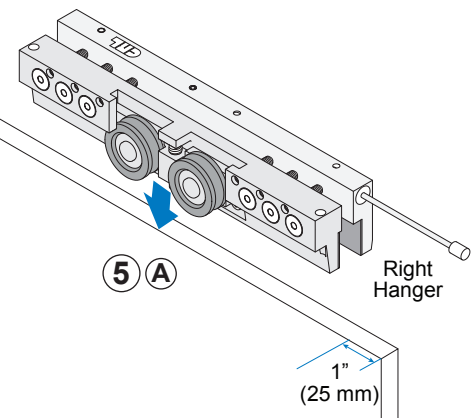
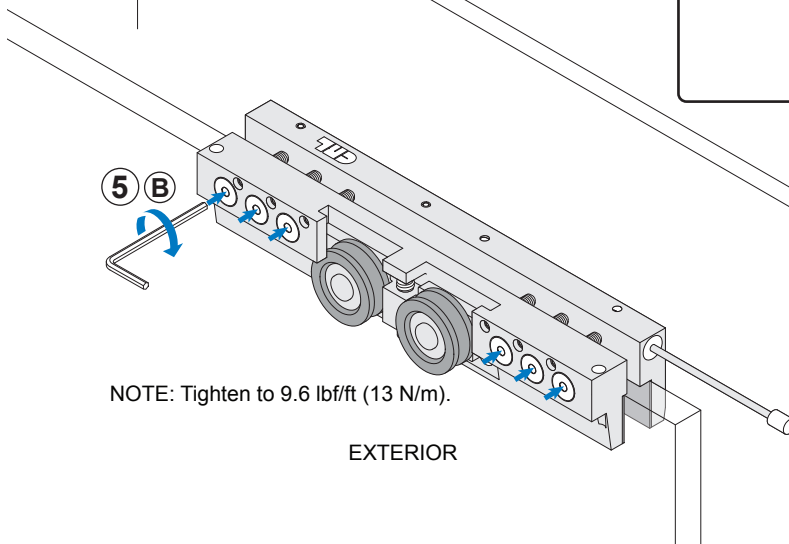
④

GAP	GLASS
1/8" (3 mm)	3/8" (10 mm)
3/16" (5 mm)	1/2" (12 mm)
1/4" (7 mm)	9/16" (14 mm)

Use Set Screws to adjust for glass thickness.  
NOTE: 1/2" Glass shown in illustrations.

GAP

GLASS

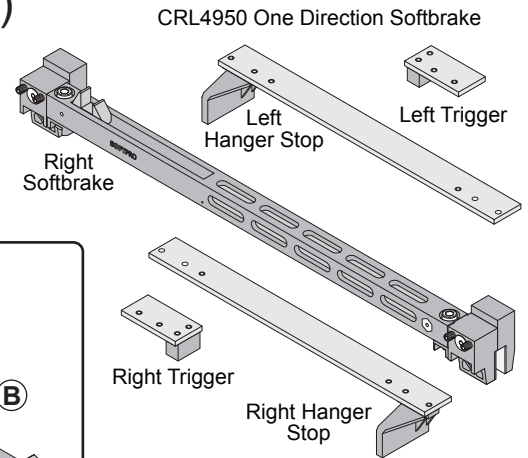
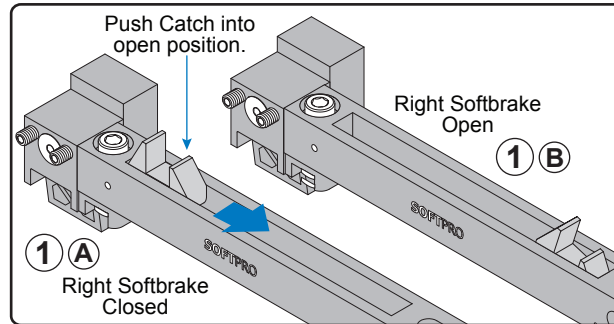


# WALL WRAP INSTALLATION (CONTINUED)

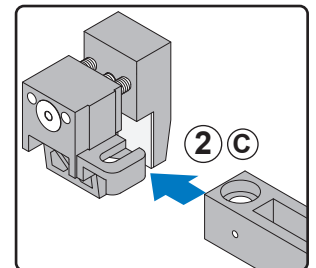
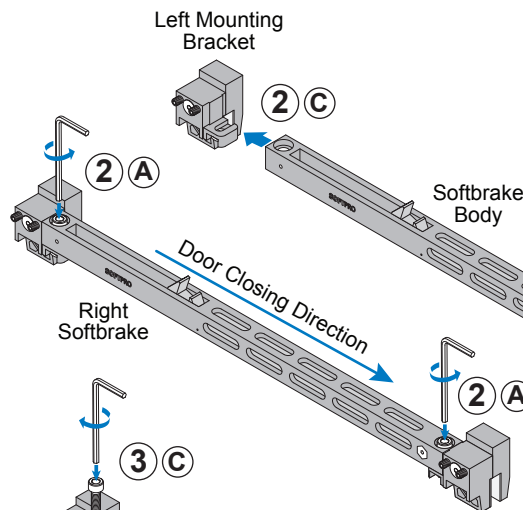
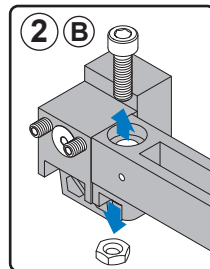
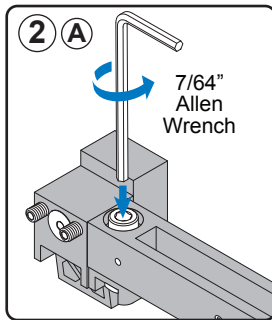
## Unpack and Prepare CRL4950 Softbrake

NOTE: CRL4950 Softbrake is shipped as a right handed assembly. Follow Steps 2 and 3 to convert to left handed assembly if needed. Skip Steps 2 and 3 for Right Softbrake Installation. Left Softbrake Installation shown in this manual.

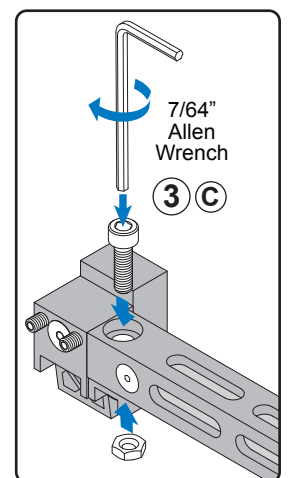
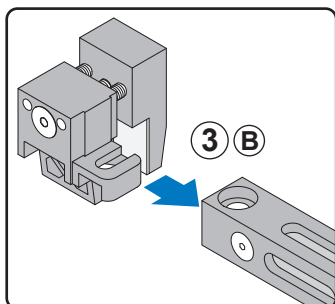
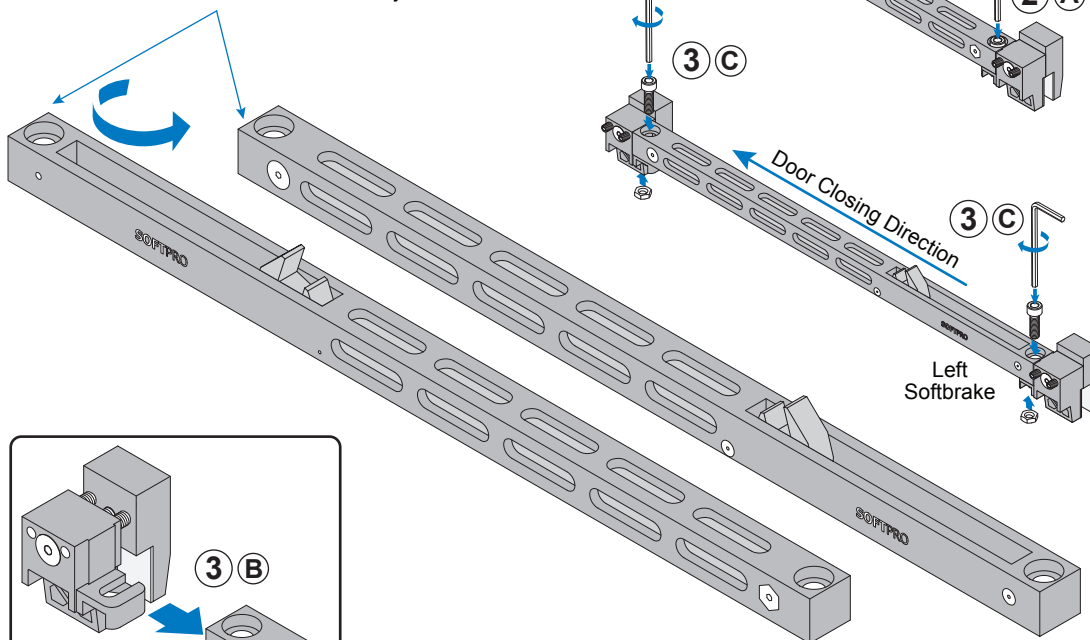
- ① Push Softbrake catch into open position.
- ② Remove Mounting Brackets from each end of Softbrake.
- ③ Rotate Softbrake and secure to Mounting Brackets.



NOTE: Steps 2 - 3 convert to Left Softbrake. Skip for Right Softbrake Installation.



- ③ A Rotate Softbrake to convert to left handed assembly.



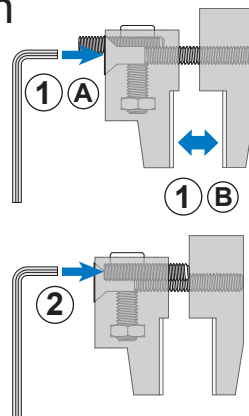
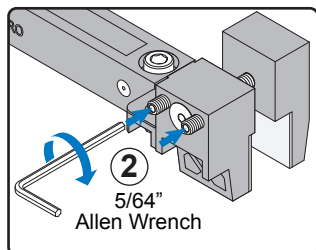
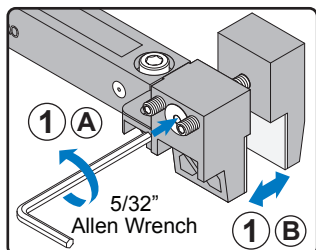
NOTE: One Direction Softbrake requires 30-7/8" (784 mm) Minimum Door Width and 28-15/16" (735 mm) Minimum Door Opening Width.

# WALL WRAP INSTALLATION (CONTINUED)

## Prepare Door: Softbrake One Direction

NOTE: Installation shown for Door sliding to the left to close. Mount Left Softbrake next to Left Roller with Mounting Clamps attached to Softbrake.

- ① Loosen Clamping Screw to expand glass pocket.
- ② Adjust Clamps to Door glass thickness.

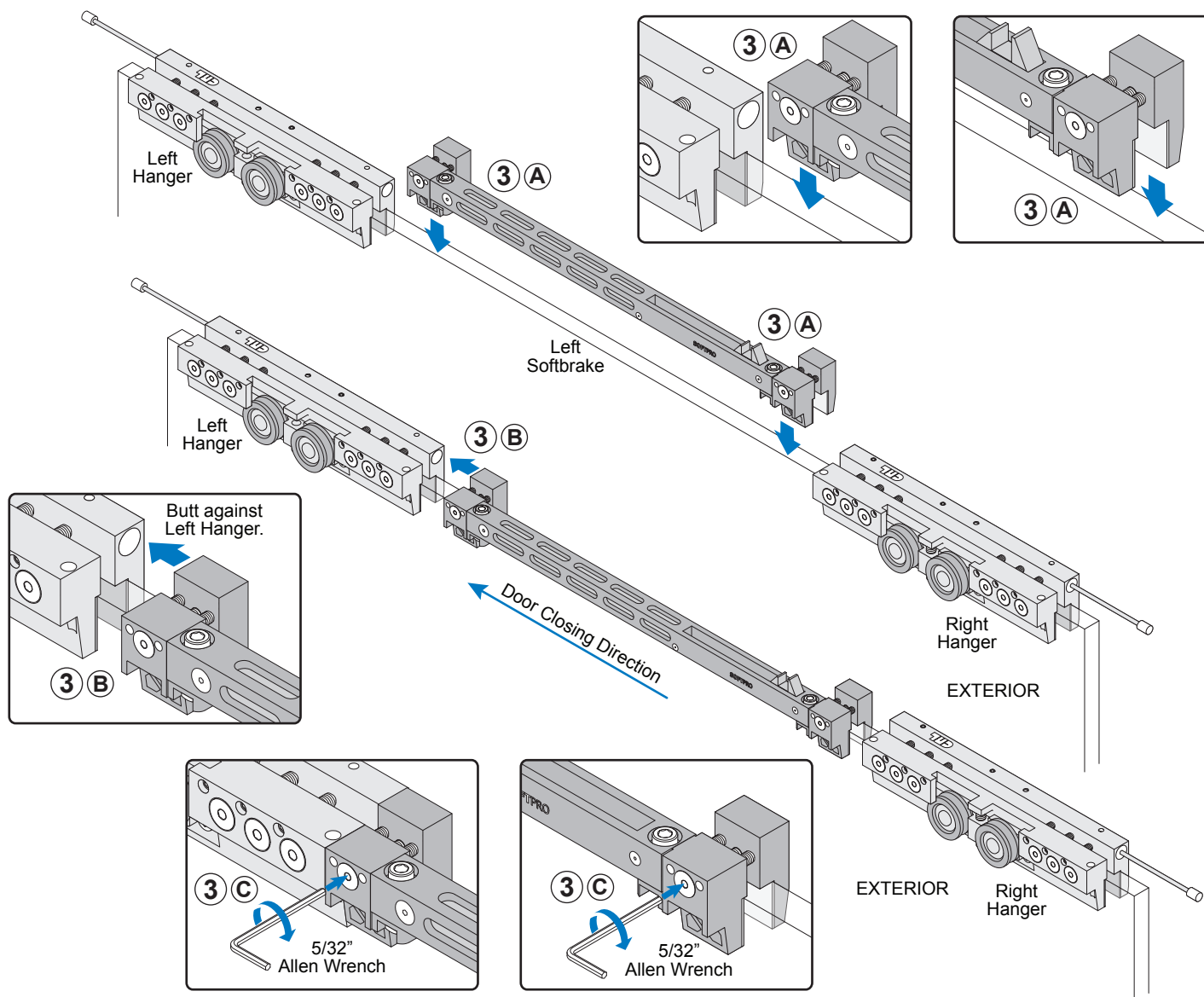


②	GAP	GLASS
	1/8" (3 mm)	3/8" (10 mm)
	3/16" (5 mm)	1/2" (12 mm)
	1/4" (7 mm)	9/16" (14 mm)

Use Set Screws to adjust for glass thickness. NOTE: 1/2" Glass shown in illustrations.

NOTE: One Direction Softbrake requires 30-7/8" (784 mm) Minimum Door Width and 28-15/16" (735 mm) Minimum Door Opening Width.

- ③ Fit Softbrake onto door panel. Position and then tighten Mounting Clamps.





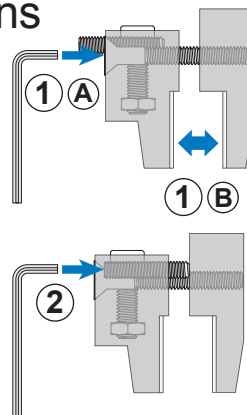
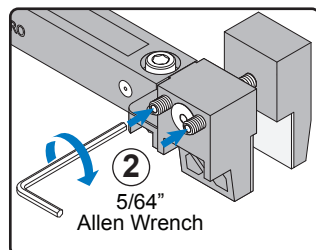
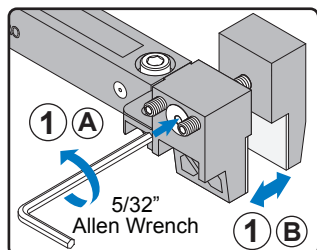
# WALL WRAP INSTALLATION (CONTINUED)

## Prepare Door: Softbrake Both Directions

NOTE: Unpack CRL495SBK Softbrake. Center Both Directions Softbrake to Glass Door. Mount with at each end with included Mounting Clamps.

① Loosen Clamping Screw to expand glass pocket.

② Adjust Clamps to Door glass thickness.



②

GAP	GLASS
1/8" (3 mm)	3/8" (10 mm)
3/16" (5 mm)	1/2" (12 mm)
1/4" (7 mm)	9/16" (14 mm)

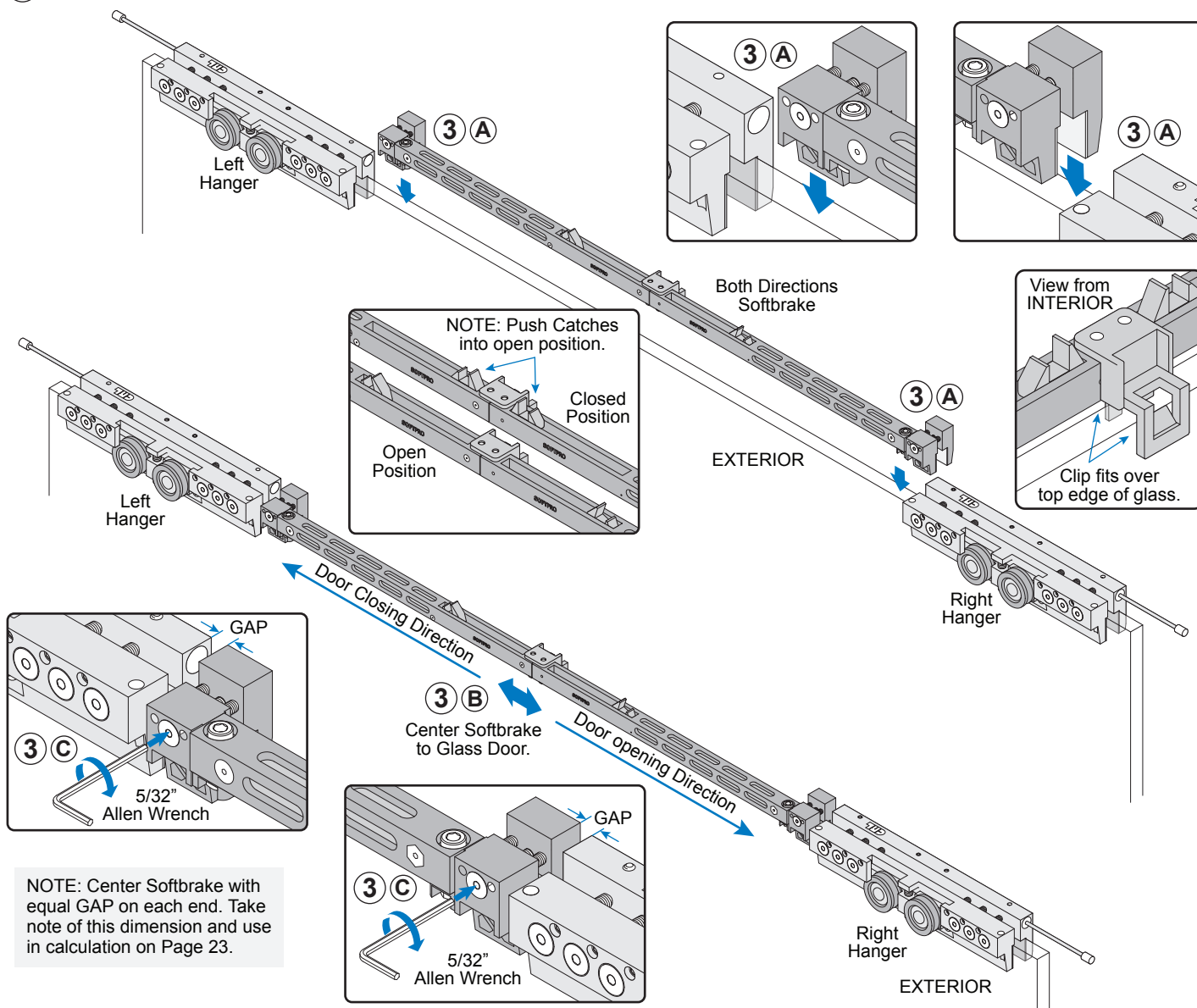
Use Set Screws to adjust for glass thickness. NOTE: 1/2" Glass shown in illustrations.

GAP

GLASS

NOTE: Both Directions Softbrake requires 42-1/2" (1080 mm) Minimum Door Width and 40-9/16" (1030 mm) Minimum Door Opening Width.

③ Fit Softbrake onto door panel. Position and then tighten Mounting Clamps.





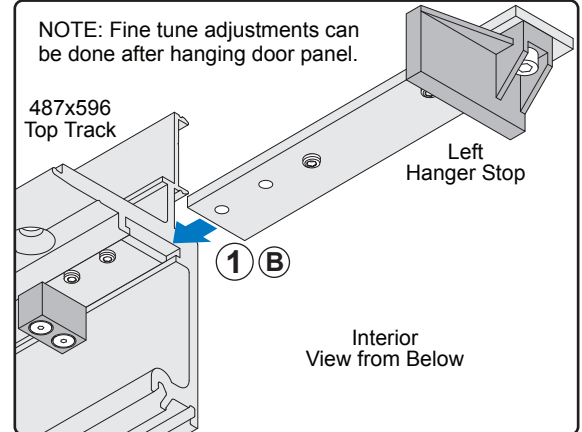
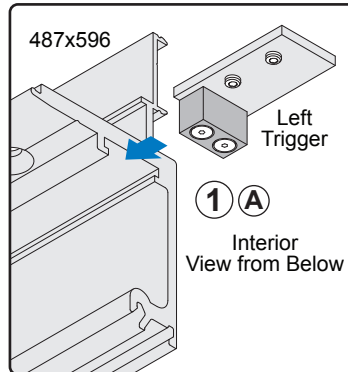
# WALL WRAP INSTALLATION (CONTINUED)

## Prepare Top Track: Softbrake Stops One Direction

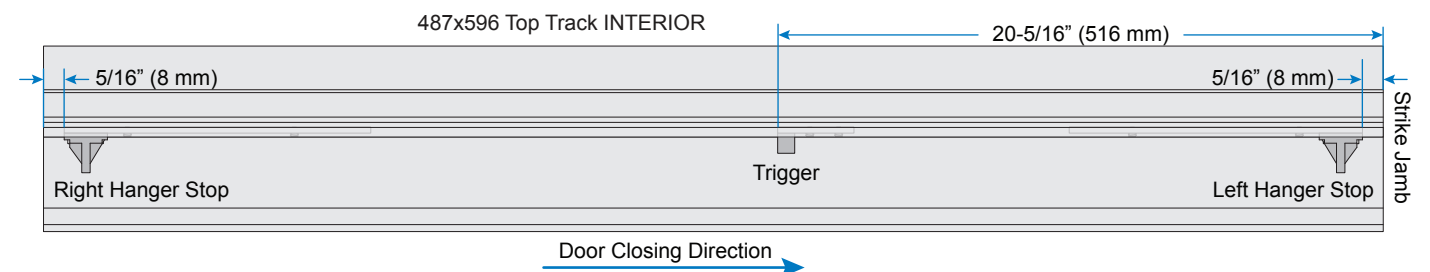
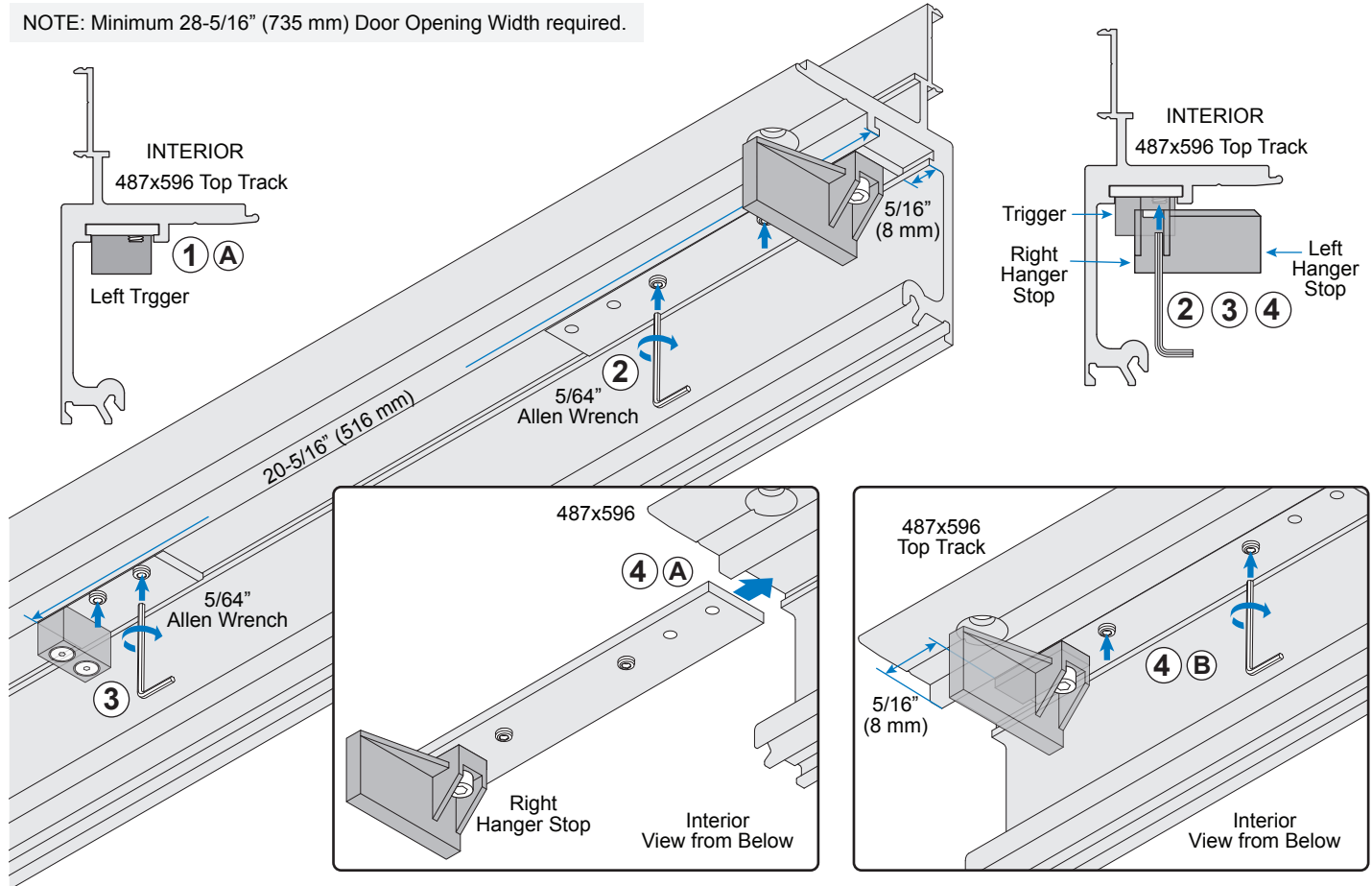
**IMPORTANT:** Hanger Stops and Trigger must be installed prior to Top Track Installation.

NOTE: Illustrations viewed from interior for Door closing to the left. Left Trigger shown.

- ① Slide Left Trigger and Hanger Stop into 487x596 Top Track.
- ② Secure Left Hanger Stop 5/16" (8 mm) from right end.
- ③ Secure Left Trigger 20-5/16" (516 mm) from left end.
- ④ Slide Right Hanger Stop into 487x596 Top Track. Secure 5/16" (8 mm) from right end.



NOTE: Minimum 28-5/16" (735 mm) Door Opening Width required.



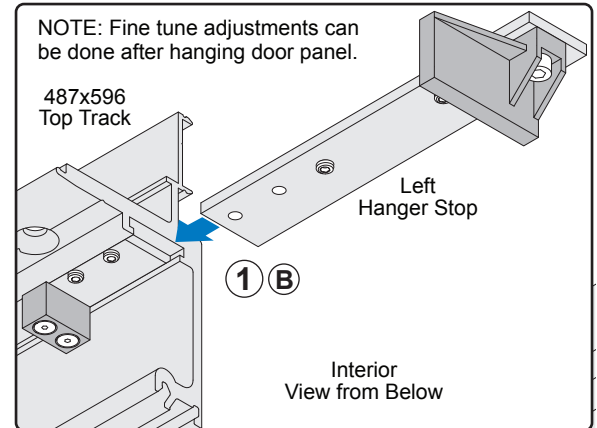
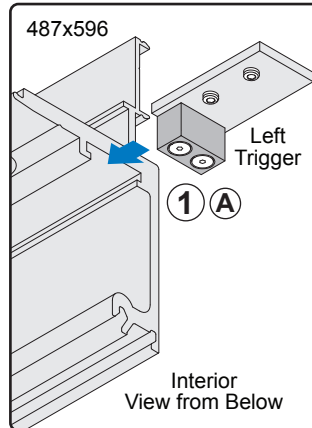
# WALL WRAP INSTALLATION (CONTINUED)

## Prepare Top Track: Softbrake Stops Both Directions

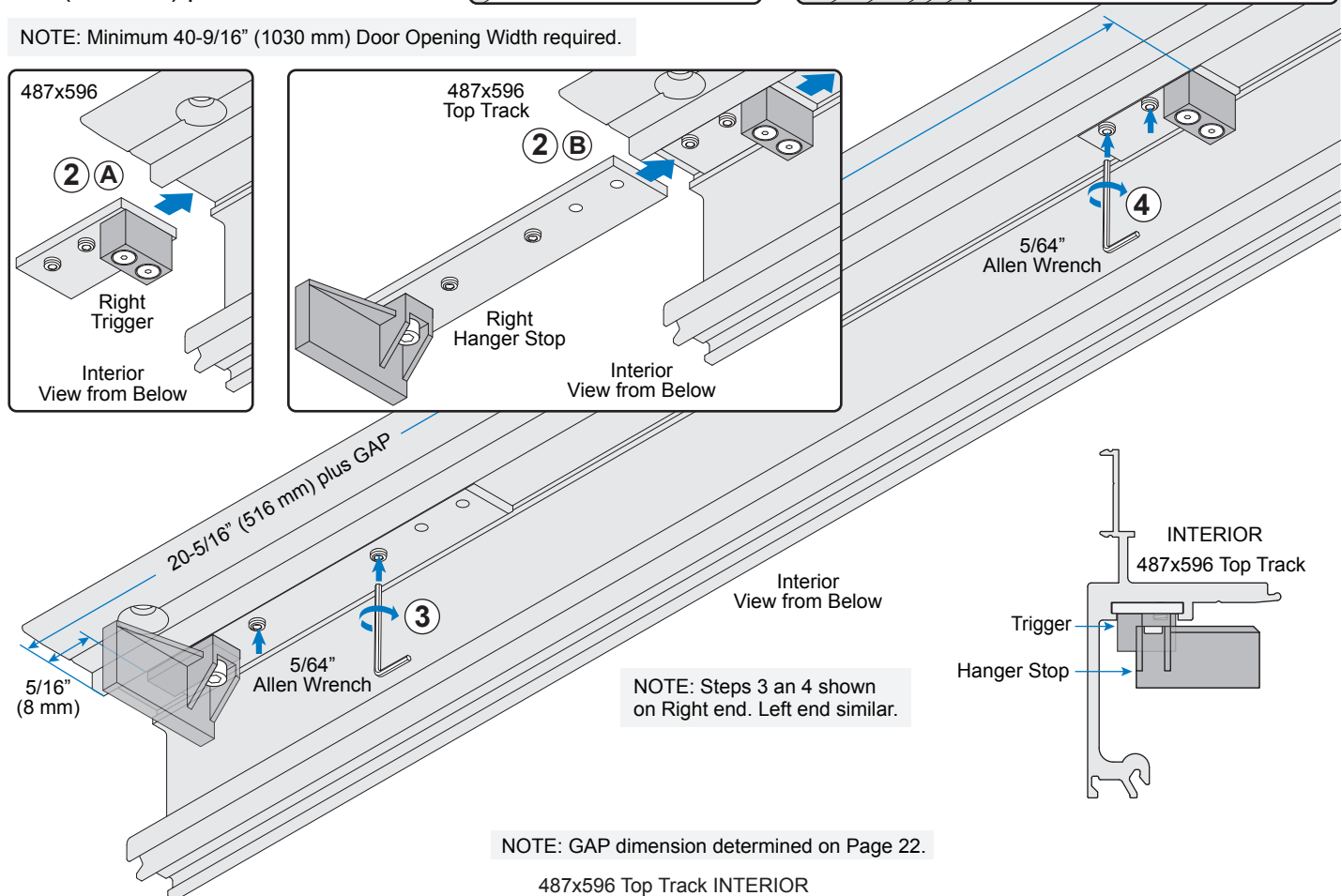
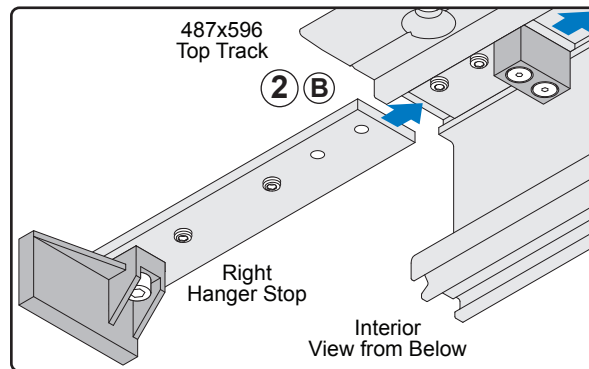
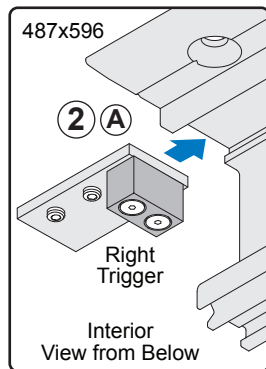
**IMPORTANT:** Hanger Stops and Triggers must be installed prior to Top Track Installation.

NOTE: Illustrations viewed from interior for Door closing to the left. Use Right and Left Triggers.

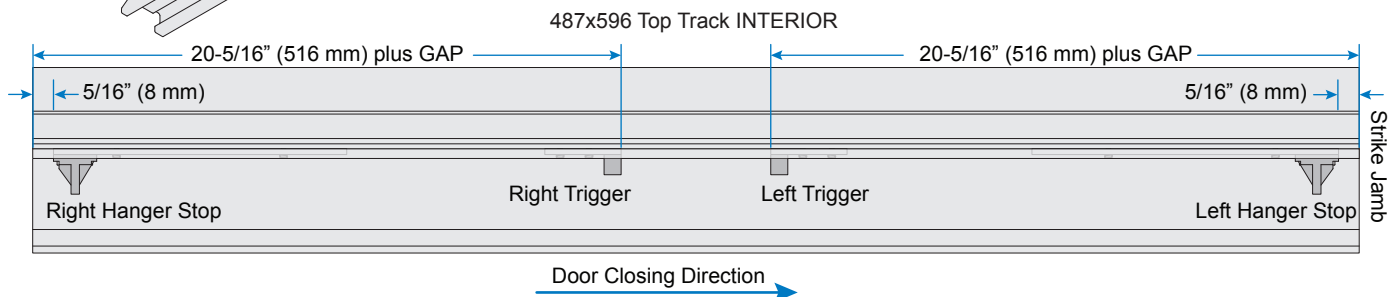
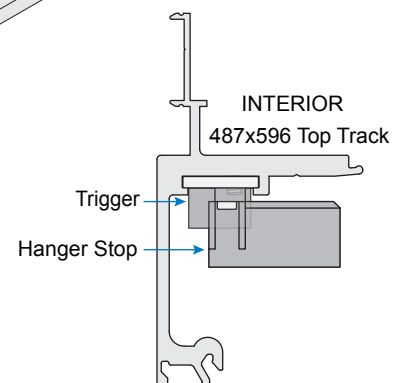
- ① Slide Left Trigger and Hanger Stop into 487x596 Top Track.
- ② Slide Right Trigger and Hanger Stop into 487x596 Top Track.
- ③ Secure Hanger Stops 5/16" (8 mm) from each end.
- ④ Secure Triggers 20-5/16" (516 mm) plus GAP from ends.



NOTE: Minimum 40-9/16" (1030 mm) Door Opening Width required.



NOTE: GAP dimension determined on Page 22.

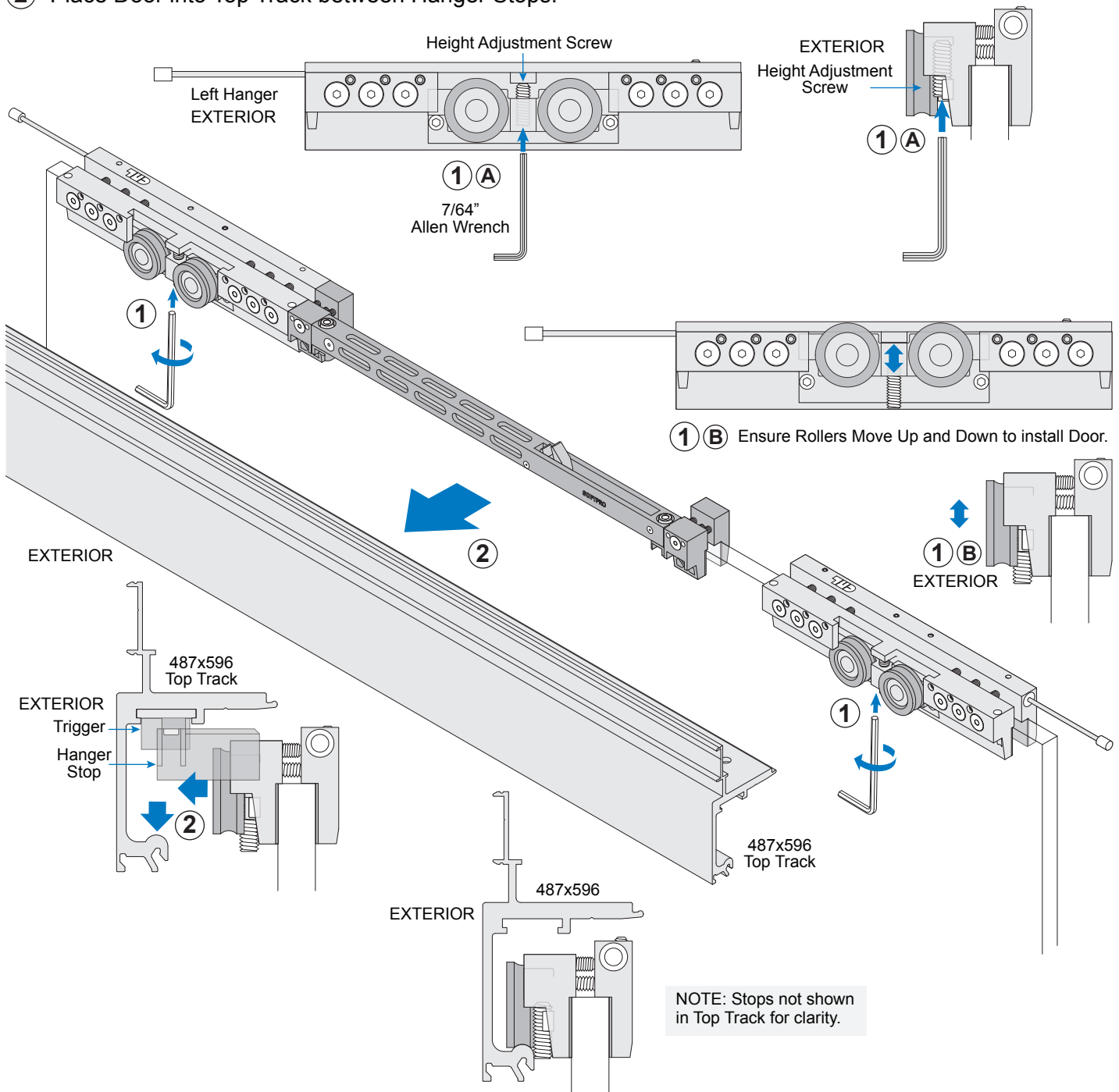


## WALL WRAP INSTALLATION (CONTINUED)

### Prepare Top Track: Engage Door into 487x596 Top Track

- ① Lower Height Adjustment Screws for ease of installation.
- ② Place Door into Top Track between Hanger Stops.

NOTE: Door with One Direction Softbrake shown.  
Door with Both Directions Softbrake similar.



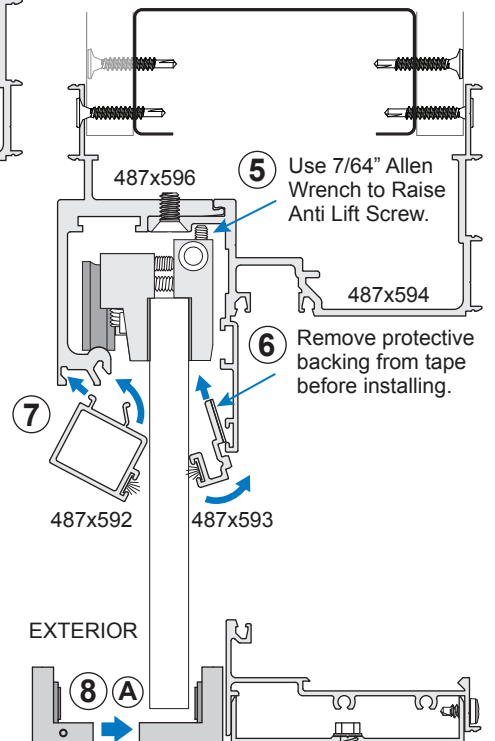
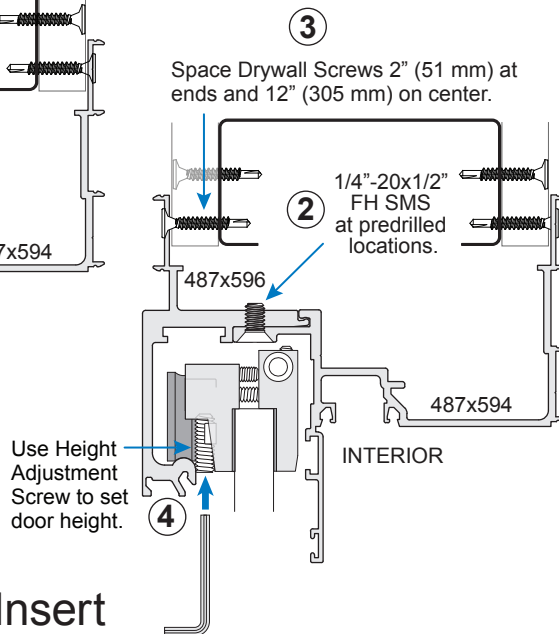
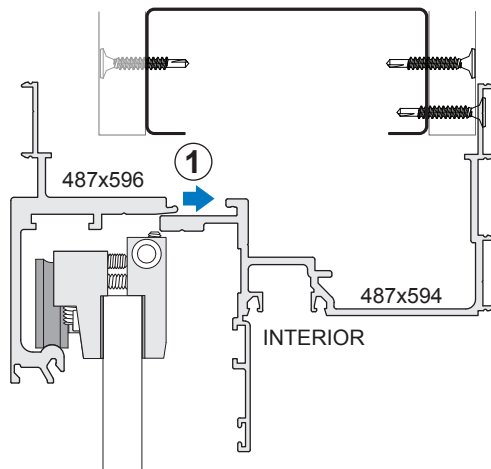
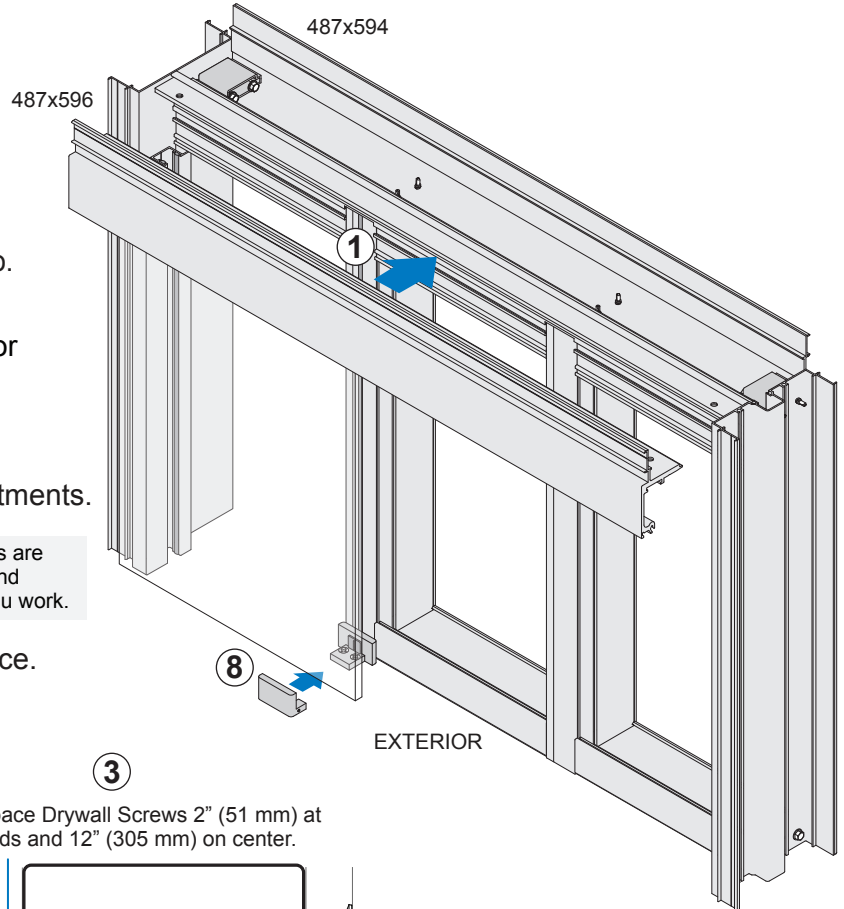
## WALL WRAP INSTALLATION (CONTINUED)

### Install Top Track with Door

- ① Fit 487x596 Top Track with Door into 487x594 Main Header.
- ② Use included 1/4"-20x1/2" FHSMS to secure Track to Header.
- ③ Level Track and secure to wall with Cat. No. 6X158DWSD Drywall Screws.
- ④ Use Height Adjustment Screw to set door at proper height.
- ⑤ Raise Anti Lift Screw.
- ⑥ Install 487x593 Adaptor after final adjustments.

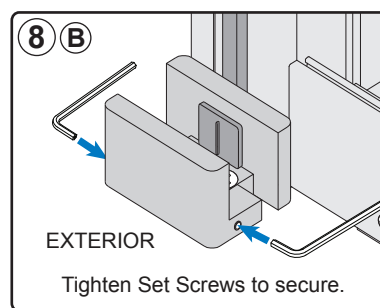
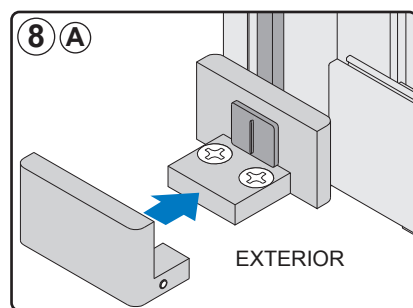
NOTE: Install Adaptor **after** final door alignment adjustments are complete. Remove protective backing from adhesive tape and apply even pressure to install, moving door out of way as you work.

- ⑦ Snap 487x592 Door Glass Stop into place.



### Install Door Guide Insert

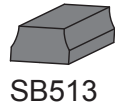
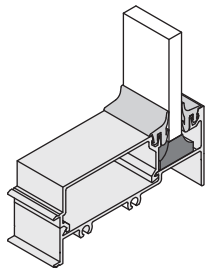
- ⑧ Fit Door Guide Insert into Door Guide Base and secure.



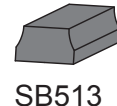
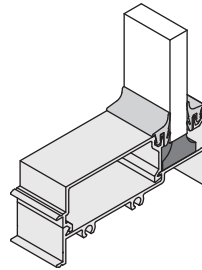
## Glass Sizing and Glazing Components

GLASS SIZE = D.L.O. + 5/8" or 5/16" GLASS BITE EACH POCKET

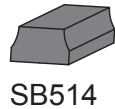
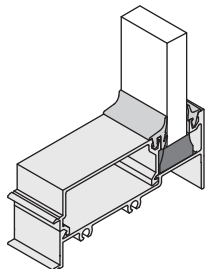
1/4" Glass



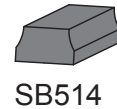
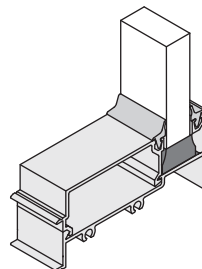
3/8" Glass



1/2" Glass

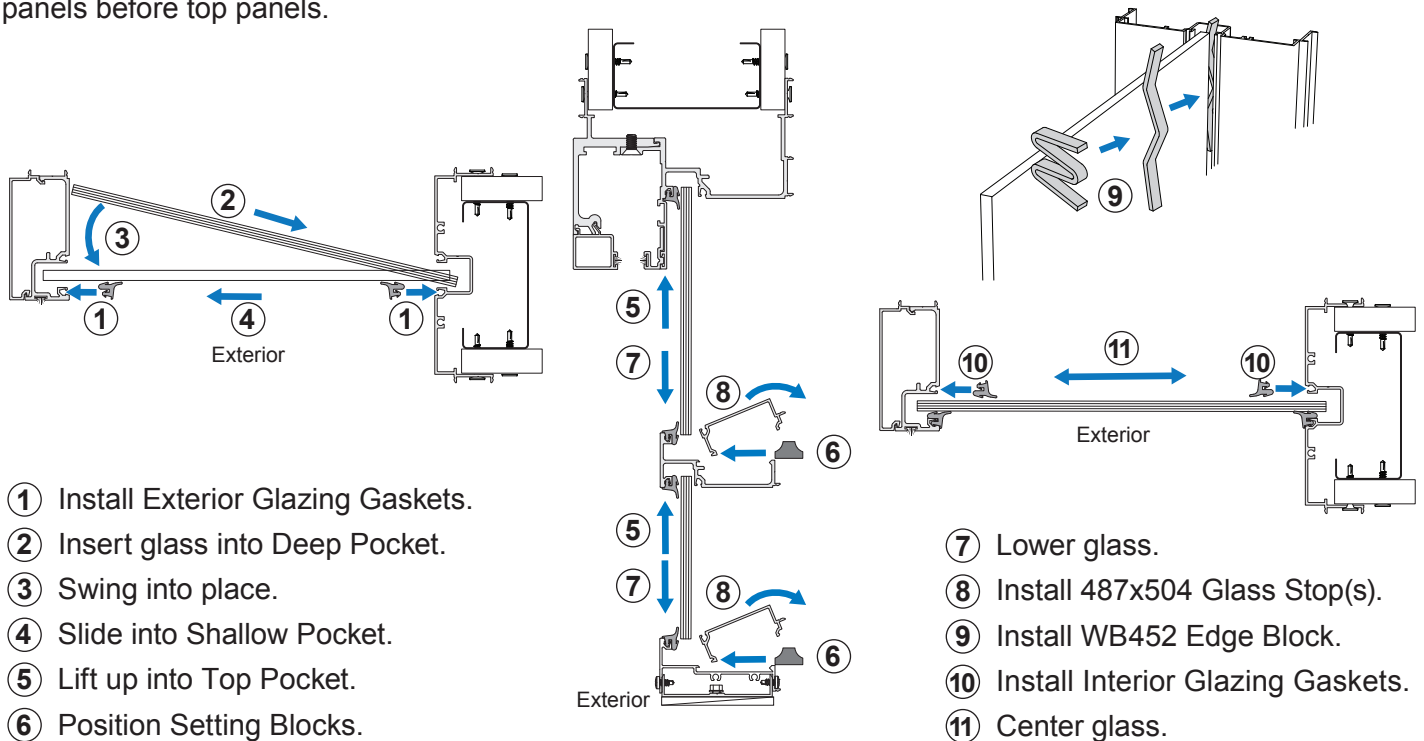


9/16" Glass



## Sidelite Glazing Sequence

Important: Maximum 50 lbs (23 kg) each Sidelite. Note: Additional shim support under the sill member is required for any loads over 50 lbs (23 kg). Glaze from sill up. Optional Horizontals shown. Glaze bottom panels before top panels.



## Install Pocket Filler and Trim



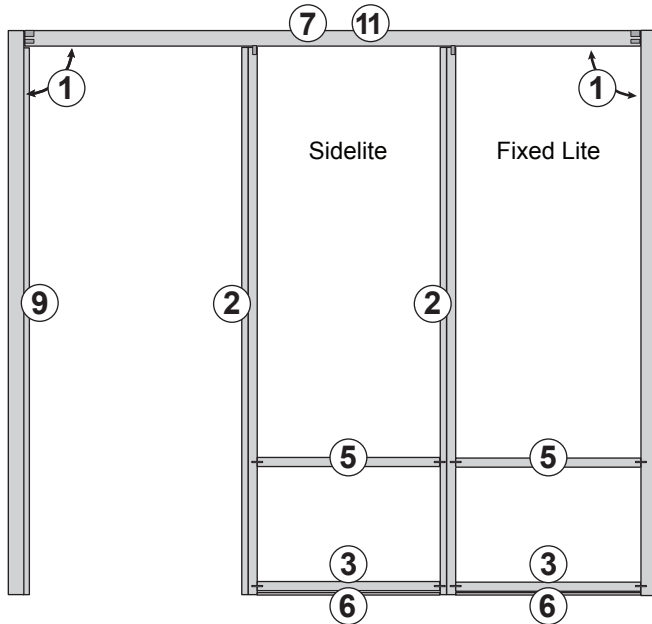


# SLIDING DOOR WITH SIDELITE AND FIXED LITE

## SURFACE MOUNT ASSEMBLY AND INSTALLATION

With Surface Mount Installations the frames are assembled on a clean flat surface first and then tilted into the opening. Before assembly, drill clearance holes in Jambs for mounting.

**NOTE:** Sliding Door with Single Sidelite, do not use 487x577 and 487x579 Verticals. Sidelites with Horizontals add Step 6.



**\* NOTE:** For Single Sidelite Installations, disregard these profiles.

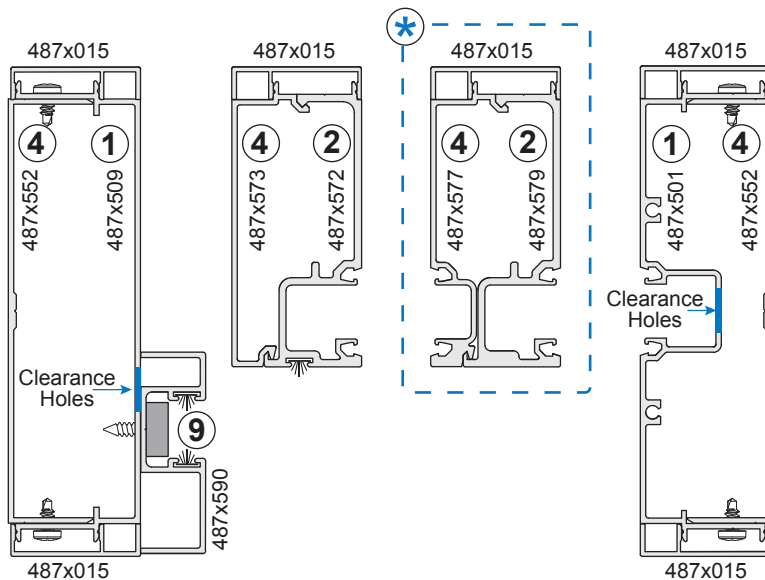
### Sliding Door with Sidelite and Fixed Lite

#### Surface Mount Assembly Order

① Jambs to Main Header	Page 30
② Verticals to Main Header	Page 30
③ Sills	Page 31
④ Finish Verticals	Page 31
⑤ Horizontals (Optional)	Page 17

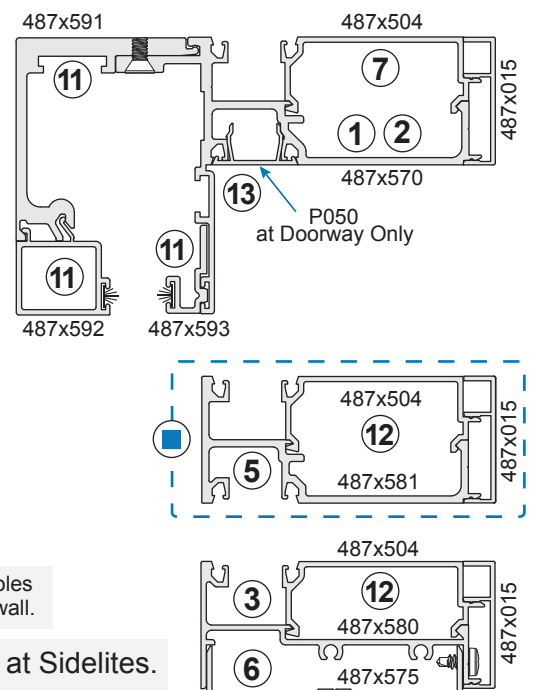
#### Surface Mount Installation Order

⑥ Floor Tracks	Page 32
⑦ Header Cover	Page 32
⑧ Frame Installation	Page 32
⑨ Door Receiver and Guide	Page 33
⑩ Door Prep and Installation	Page 34
⑪ Top Track	Page 34
⑫ Glazing	Page 27
⑬ Pocket Filler and Trim	Page 35



**NOTE:** Drill clearance holes in 487x501 at Glass Pocket and in 487x509 behind 487x590. Holes should clear perimeter fastener heads. Use holes to mount assembled frame at 487x552 to wall.

**■ NOTE:** Add profiles for installations with Horizontal Mullions at Sidelites.

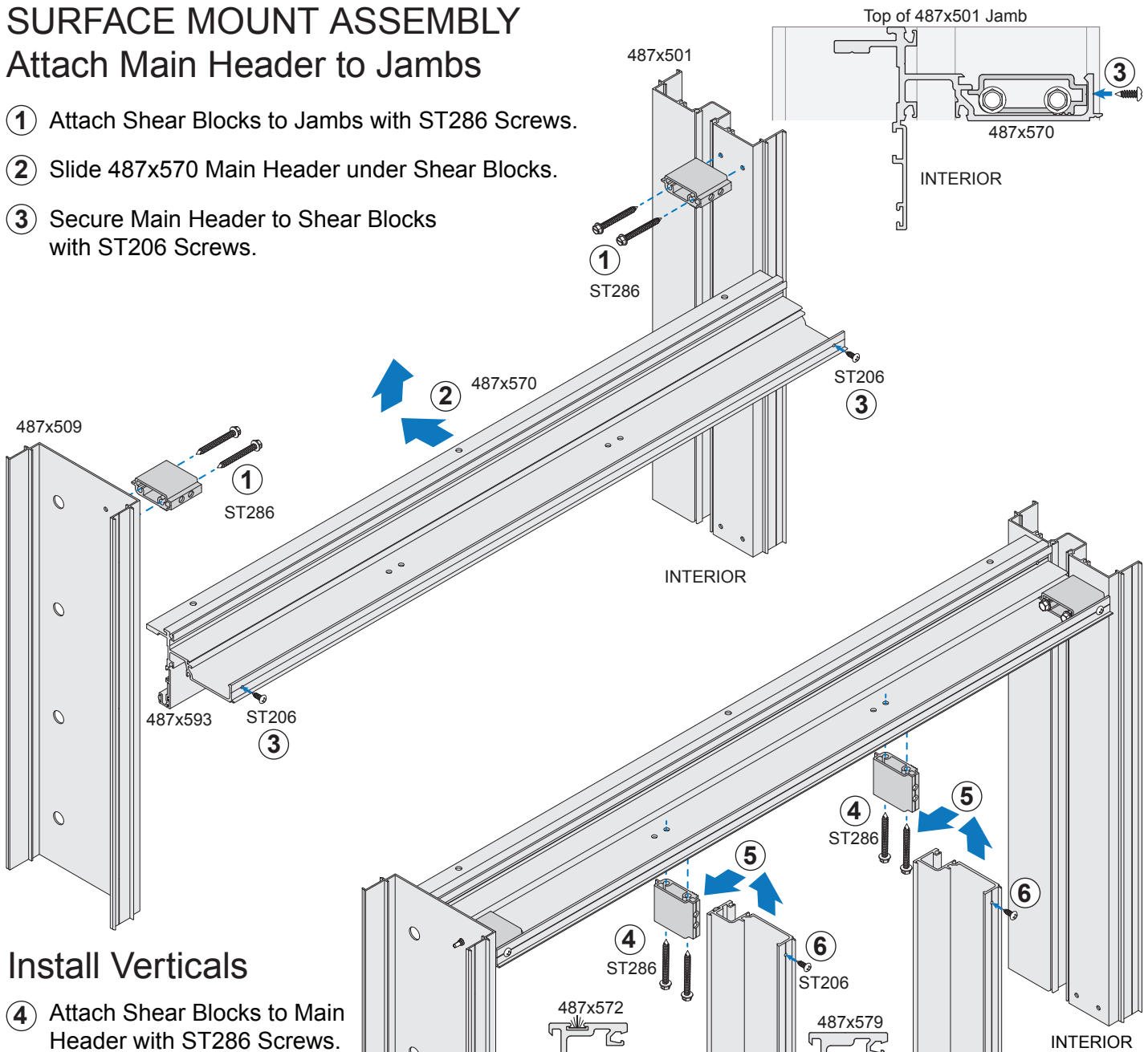


**NOTE:** Follow instructions on Pages 8 - 10 for Drywall Preparation and Installation.

# SURFACE MOUNT ASSEMBLY

## Attach Main Header to Jambs

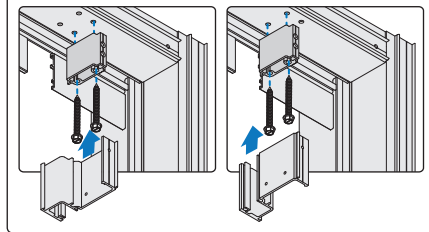
- ① Attach Shear Blocks to Jambs with ST286 Screws.
- ② Slide 487x570 Main Header under Shear Blocks.
- ③ Secure Main Header to Shear Blocks with ST206 Screws.



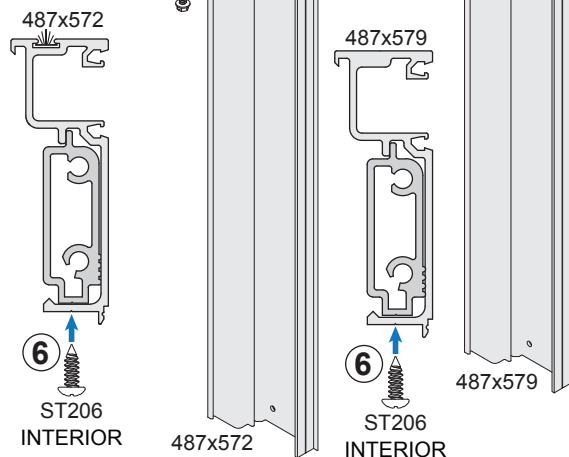
## Install Verticals

- ④ Attach Shear Blocks to Main Header with ST286 Screws.

NOTE: Main Header fabricated for left and right sliding doors. Use appropriate 2 holes to install Shear Blocks for your installation.



- ⑤ Place 487x579 and 487x572 Verticals under Main Header.
- ⑥ Secure Verticals to Shear Blocks with ST206 Screws.

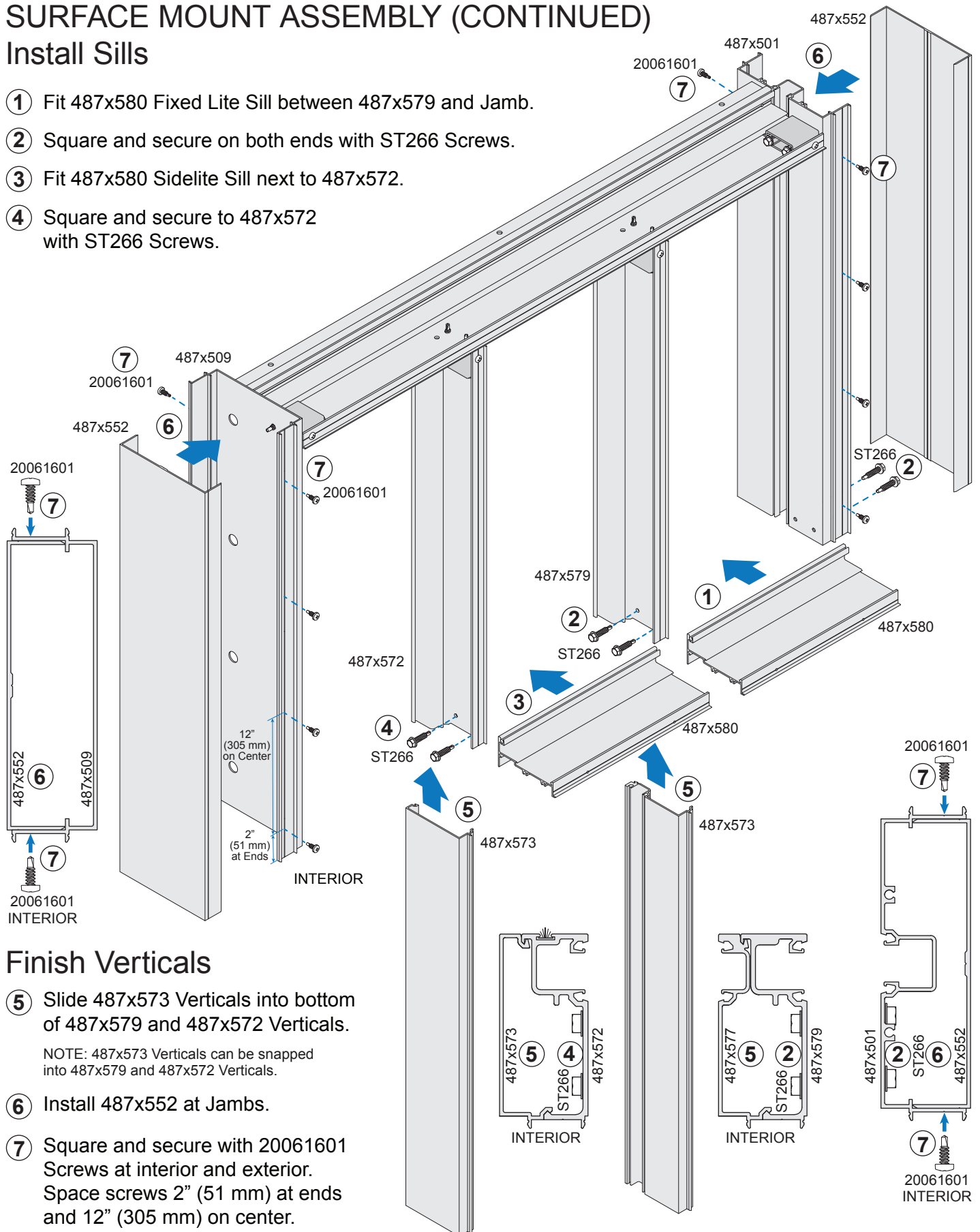


NOTE: For Single Sidelite Installations use only 487x572 Vertical. Installations with Horizontals follow instructions on Page 17.

## SURFACE MOUNT ASSEMBLY (CONTINUED)

## Install Sills

- ① Fit 487x580 Fixed Lite Sill between 487x579 and Jamb.
- ② Square and secure on both ends with ST266 Screws.
- ③ Fit 487x580 Sidelite Sill next to 487x572.
- ④ Square and secure to 487x572 with ST266 Screws.



## Finish Verticals

- ⑤ Slide 487x573 Verticals into bottom of 487x579 and 487x572 Verticals.

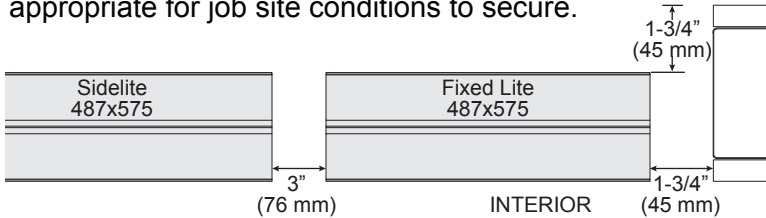
NOTE: 487x573 Verticals can be snapped into 487x579 and 487x572 Verticals.

- ⑥ Install 487x552 at Jamb.
- ⑦ Square and secure with 20061601 Screws at interior and exterior. Space screws 2" (51 mm) at ends and 12" (305 mm) on center.

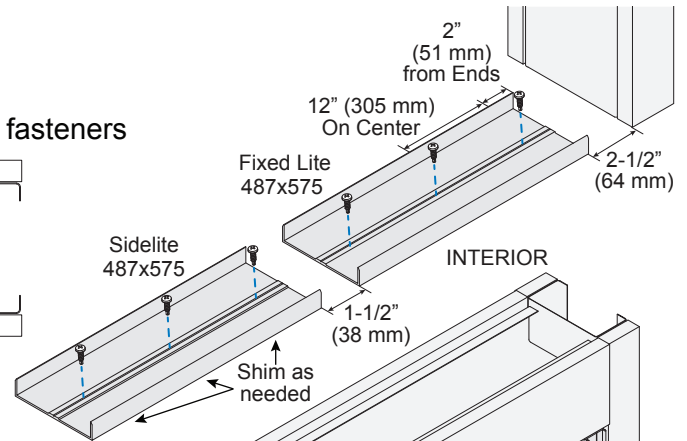
# SURFACE MOUNT INSTALLATION

## Install Floor Tracks

Position 487x575 Floor Track for each lite as shown. Use fasteners appropriate for job site conditions to secure.



NOTE: Install one 487x575 Floor Track for each lite with 1-1/2" (38 mm) gap between them.



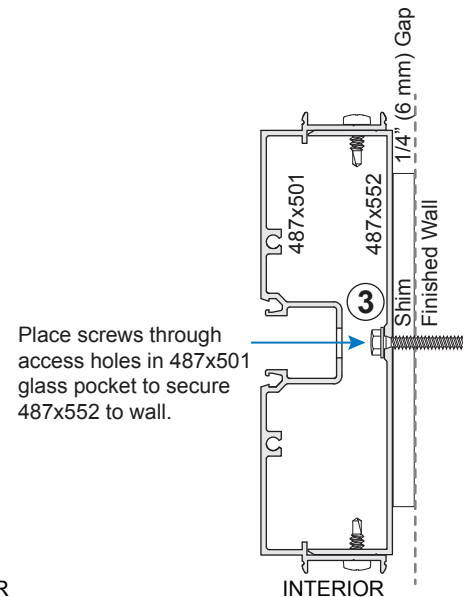
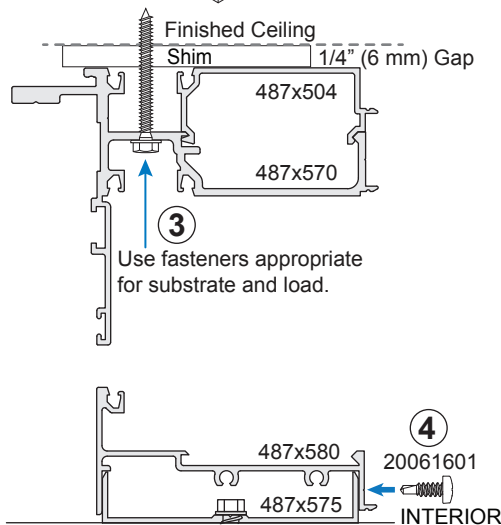
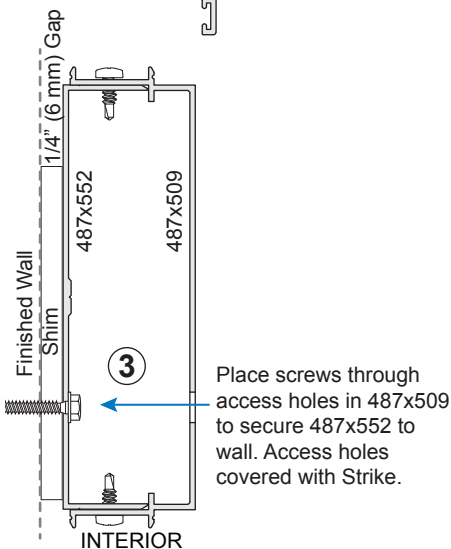
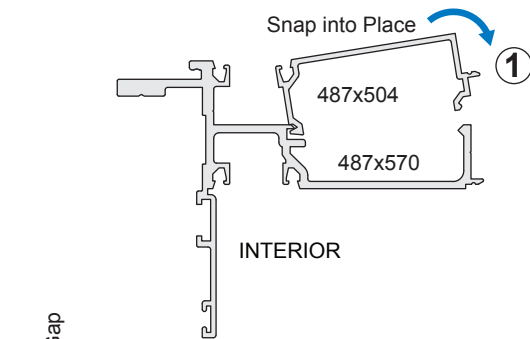
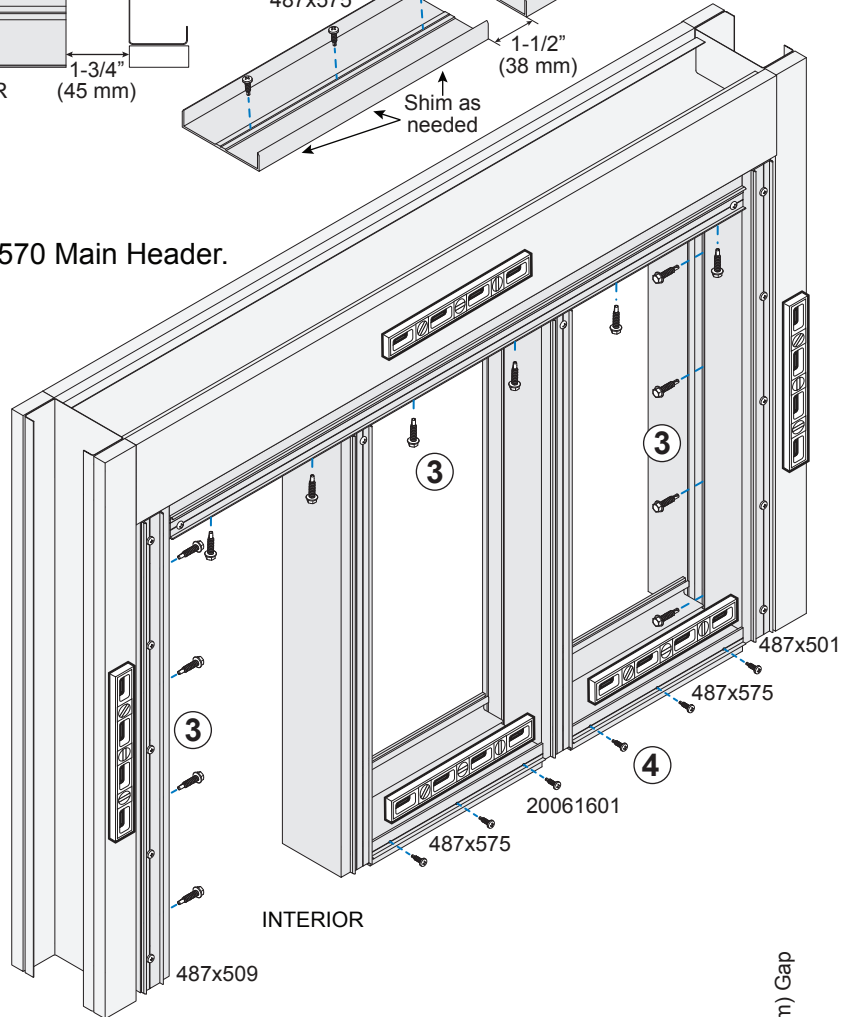
## Install Header Cover

- 1 Install 487x504 Header Cover into 487x570 Main Header.

## Install Frame and Secure

- 2 Slide frame into opening and lower onto 487x575 Floor Tracks.
- 3 Square and secure at ceiling and walls. Use fasteners appropriate for job site conditions to secure.
- 4 Square and secure at Sill with 20061601 screws.

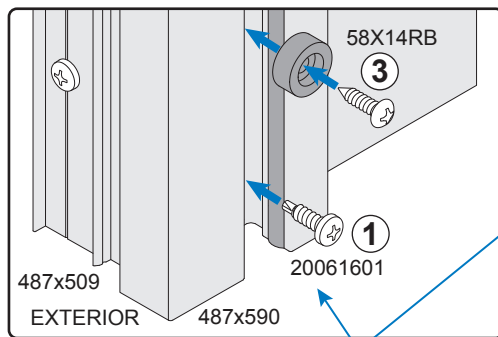
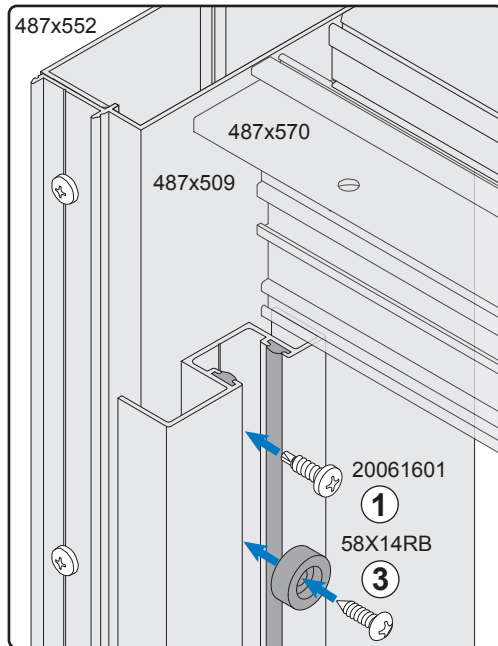
NOTE: Space screws 2" (51 mm) at ends and 12" (305 mm) on center.



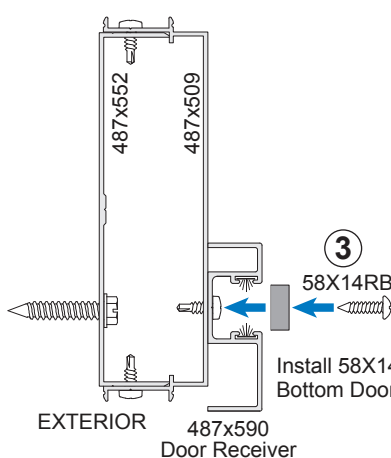
# SURFACE MOUNT INSTALLATION (CONTINUED)

## Install Door Receiving Channel and Guide

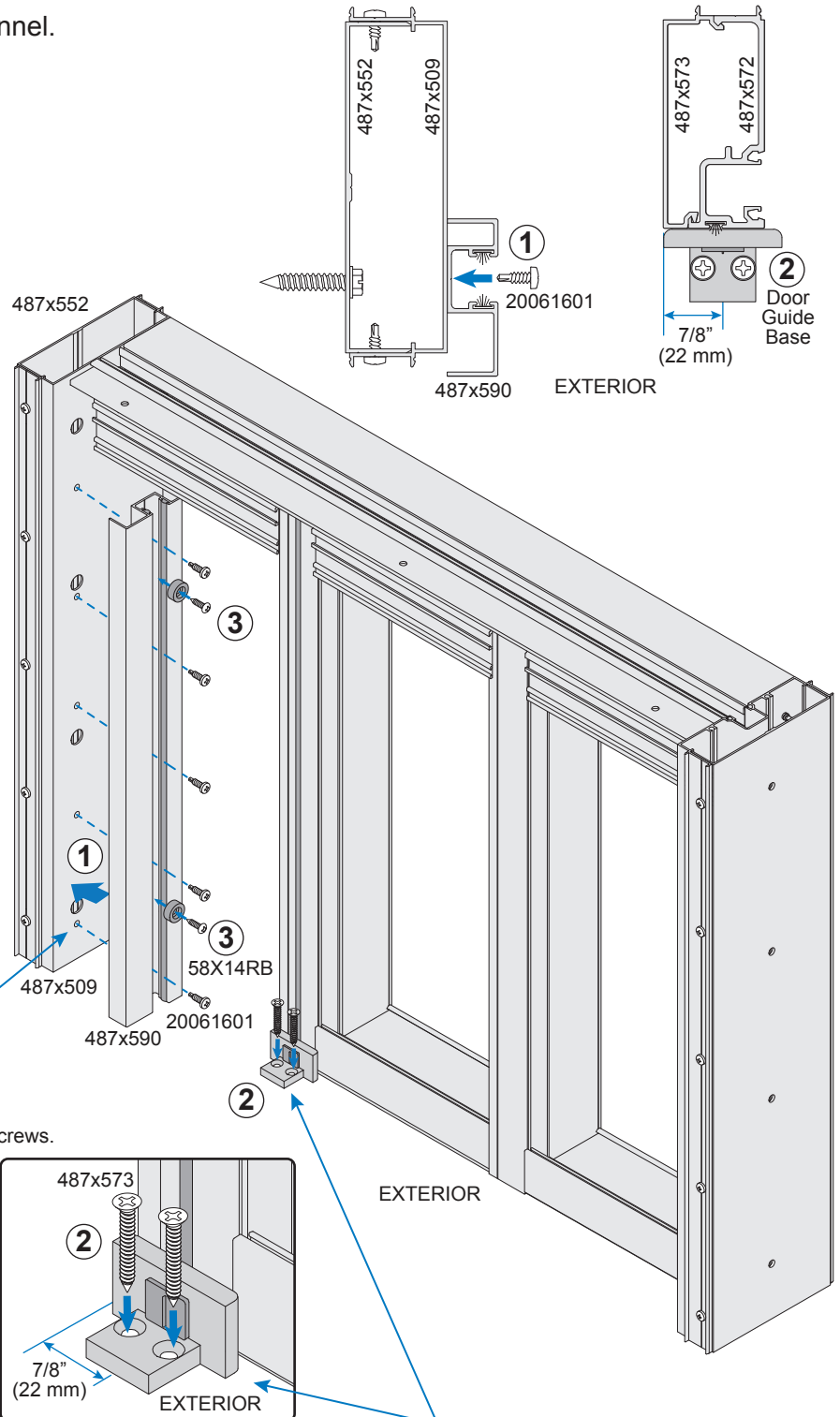
- ① Install 487x590 Door Receiving Channel.
- ② Install Door Guide Base.
- ③ Install 58X14RB Rubber Stops.



Match factory drilled holes and secure with 20061601 Screws.



Install 58X14RB Rubber Stops at Top and Bottom Door Receiver with included screw.



Place Door Guide Base tight to face of 487x573 Door Jamb with centerline inset 7/8" from edge. Secure with included screws. NOTE: Use anchors for concrete installations.

# SURFACE MOUNT ASSEMBLY (CONTINUED)

## Prepare Door and Top Track

- Follow instructions on Pages 19 - 22 to prepare Door and on Pages 23 - 24 to prepare Top Track.

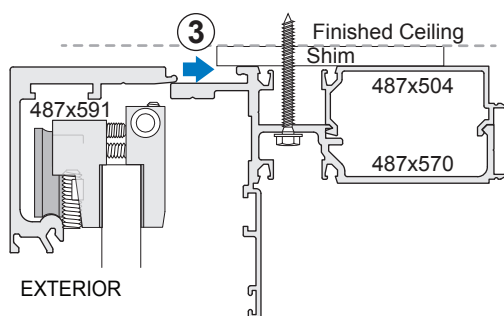
NOTE: 487x596 Wall Wrap Top Track shown on Pages 23 - 25. 487x591 Surface Mount Top Track used for this installation.

## Engage Door with Top Track

- Follow steps on Page 25 to Engage Door with Top Track.

## Install Top Track with Door

- Fit 487x591 Top Track with Door into 487x570 Main Header.



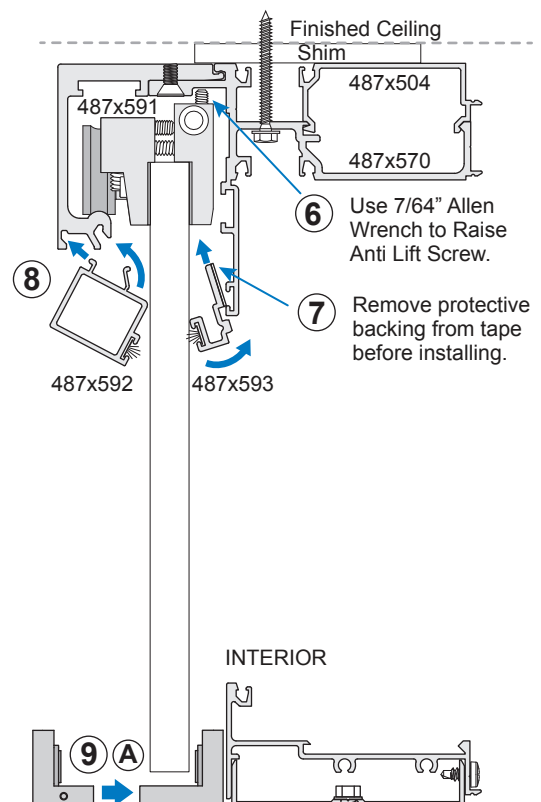
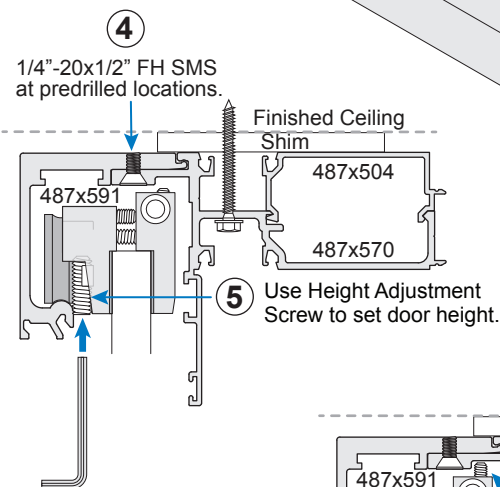
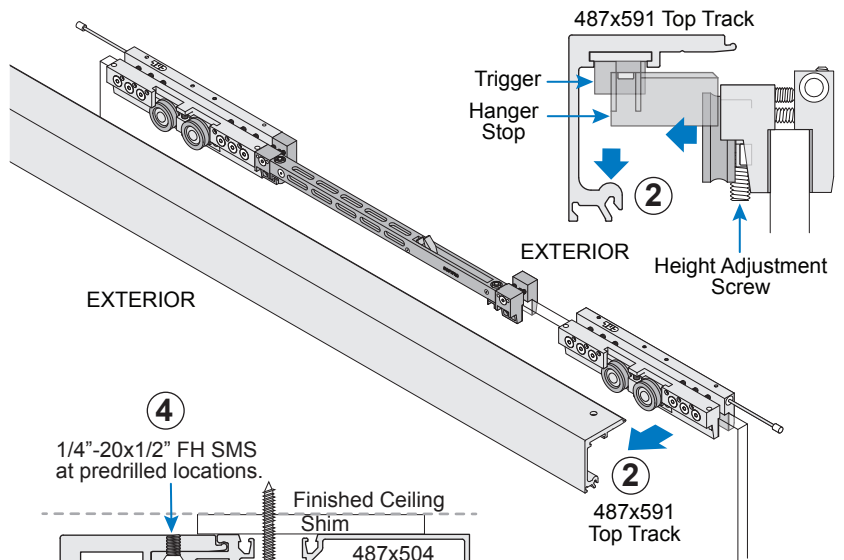
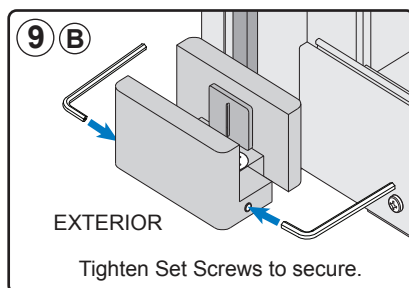
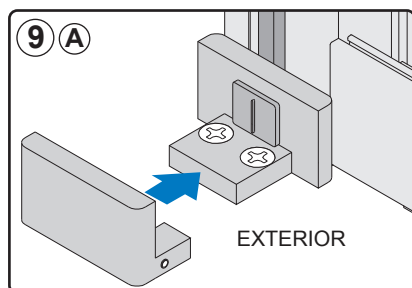
- Use included 1/4"-20x1/2" FHSMS to secure Track to Header.
- Use Height Adjustment Screw to set door at proper height.
- Raise Anti Lift Screw.
- Install 487x593 Adaptor after final adjustments.

NOTE: Install Adaptor **after** final door alignment adjustments are complete. Remove protective backing from adhesive tape and apply even pressure to install, moving door out of way as you work.

- Snap 487x592 Door Glass Stop into place.

## Install Door Guide Insert

- Fit Door Guide Insert into Door Guide Base and secure.

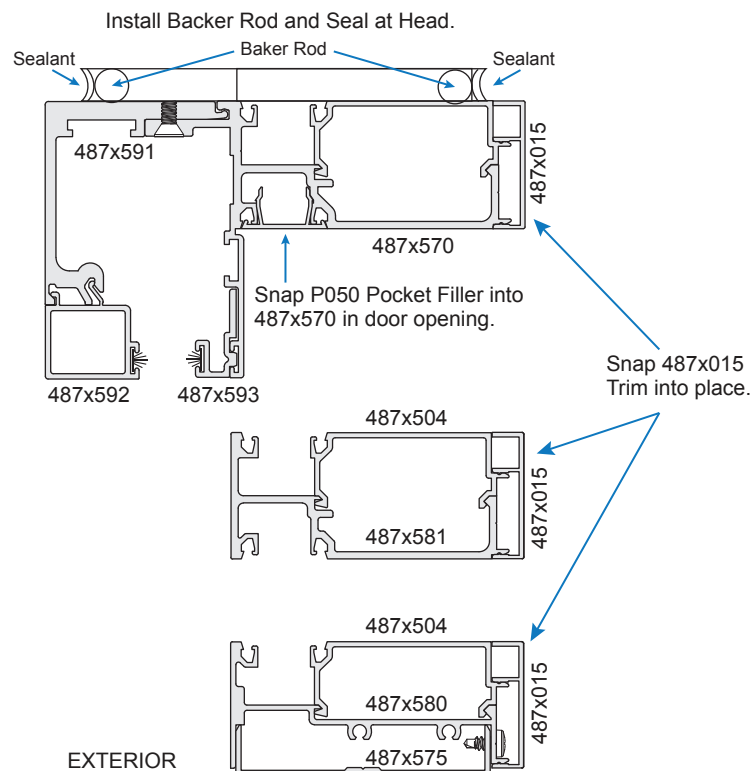
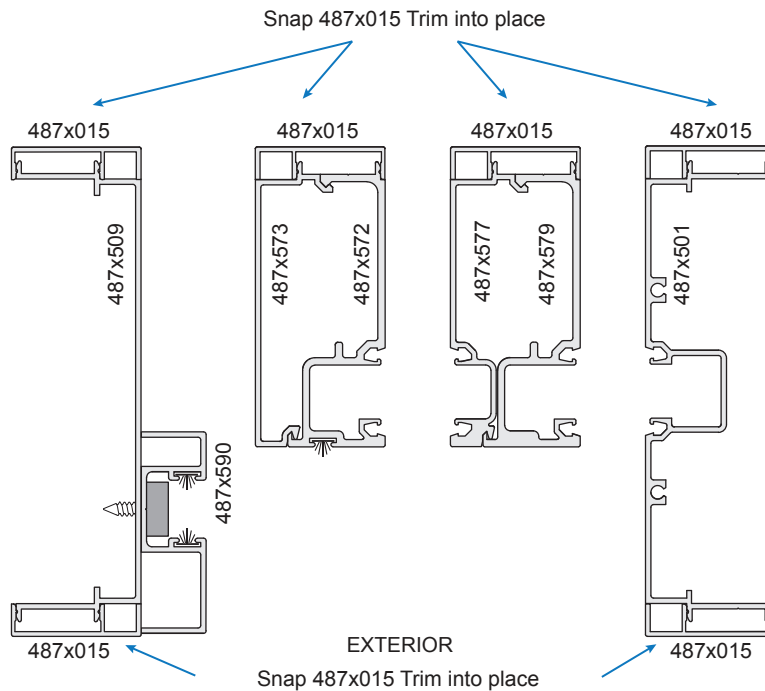




## SURFACE MOUNT INSTALLATION (CONTINUED)

Follow instructions on Page 27 to glaze the frame.

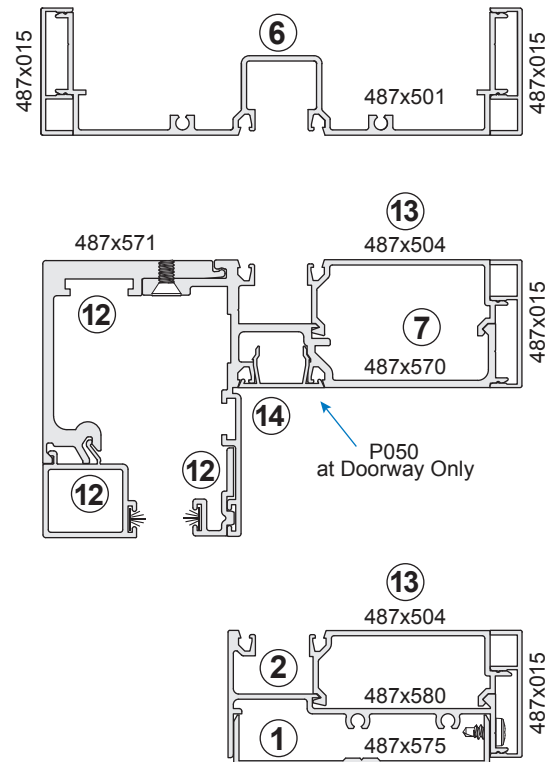
### Install Pocket Filler and Trim



NOTE: For Fixed Lite Installations, include 487x577 and 487x579 verticals shown in Sliding Door with Sidelite and Fixed Lite Installations. Wall Wrap Installation shown. For Surface Mount Installation add 487x552 at Jambs and Transom Head. See Page 17 for Optional Horizontal Installation.



- |    |                            |             |
|----|----------------------------|-------------|
| 1  | Floor Track                | Page 12     |
| 2  | Sill to Wall Jamb          | Page 12     |
| 3  | Wall Jamb                  | Page 13     |
| 4  | Door Jamb at Wall          | Page 14     |
| 5  | Transom Jamb               | Page 36     |
| 6  | Transom Head               | Page 36     |
| 7  | Install Main Header        | Page 36     |
| 8  | Sidelite Vertical          | Page 16     |
| 9  | Transom Vertical           | Page 37     |
| 10 | Door Receiver and Guide    | Page 17     |
| 11 | Door Prep and Installation | Page 33     |
| 12 | Top Track                  | Page 33     |
| 13 | Glazing                    | Page 26, 39 |
| 14 | Pocket Filler and Trim     | Page 39     |





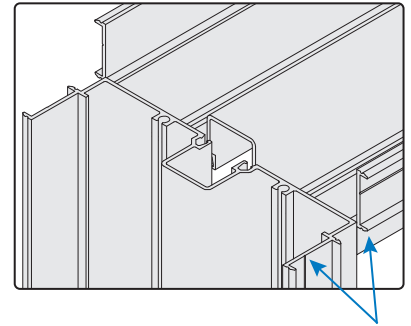
Follow instructions on Pages 8 - 10 for Drywall Preparation and Installation.  
Continue on Pages 12 - 13 to install Floor Track and Wall Jamb with Sill.

## INSTALL TRANSOM JAMB

Install 487x509 Door Jamb as shown on Page 14 and temporarily hold in place. Then install 487x501 Transom Jamb directly above Door Jamb. Temporarily hold in place.

## INSTALL TRANSOM HEAD

- ① Slide 487x501 Transom Head between Jambs and fit over drywall.  
Align top of ledge with tops of Jamb profiles and temporarily hold in place.

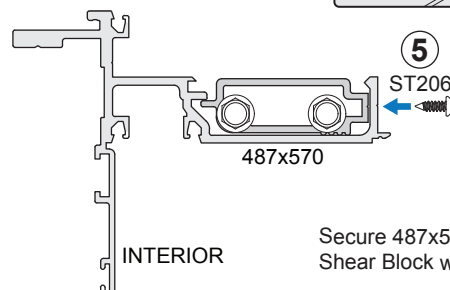
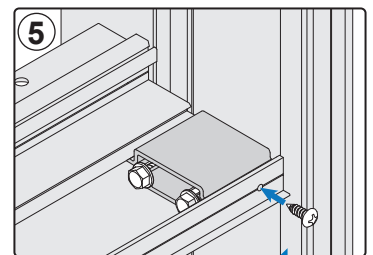
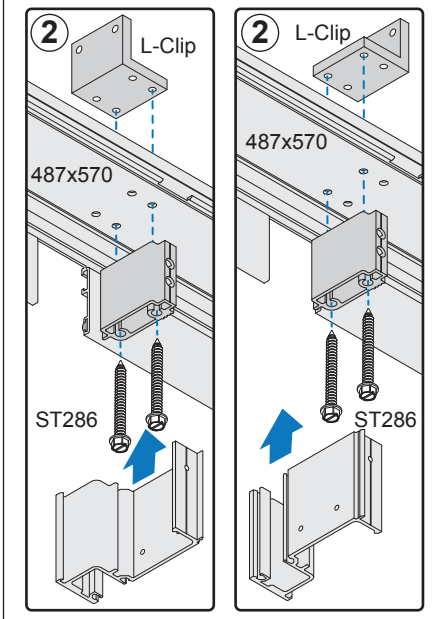


Align top of Transom Head ledge with top of Jamb.

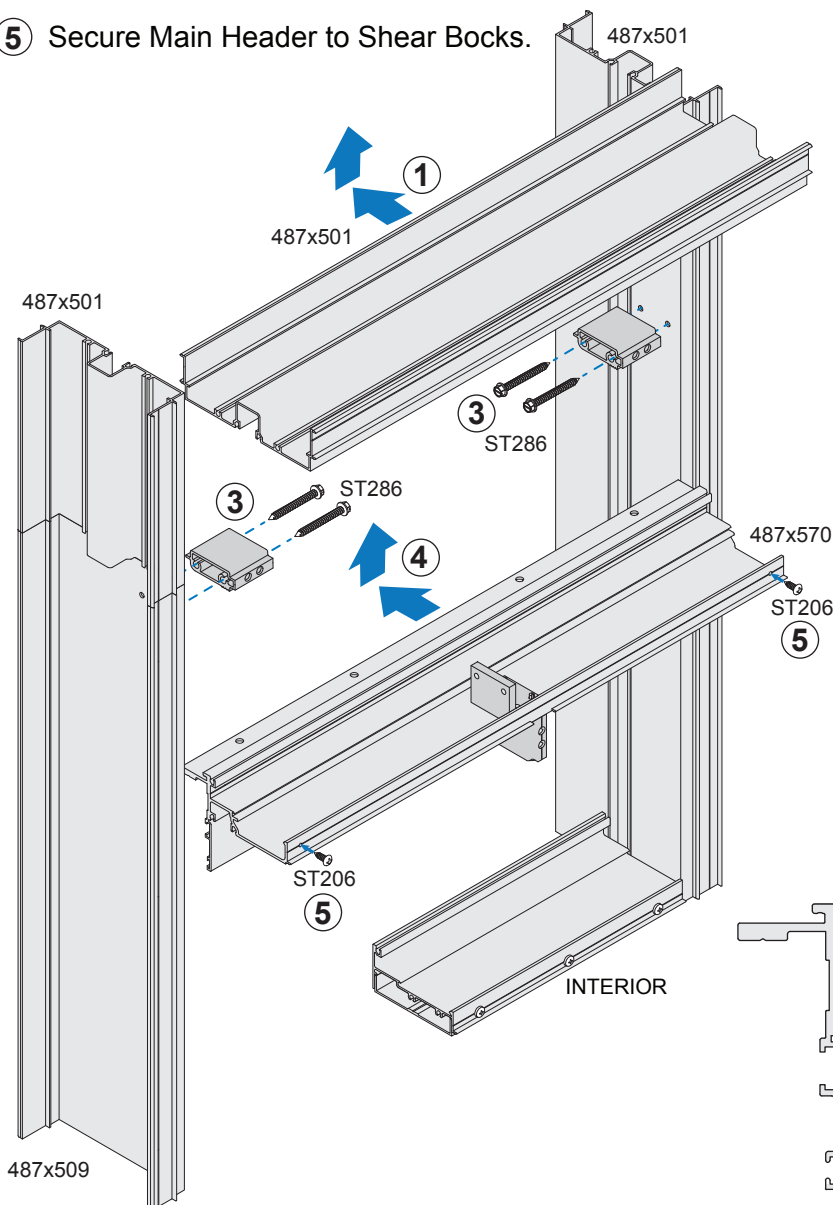
## INSTALL MAIN HEADER

- ② Attach Shear Block to bottom and L-Clip to top of 487x570 Main Header with ST286 Screws.
- ③ Attach Shear Blocks to Jambs with ST286 Screws.
- ④ Slide 487x570 Main Header under Shear Blocks.
- ⑤ Secure Main Header to Shear Blocks.

NOTE: Main Header fabricated for left and right sliding doors. Use appropriate 2 holes to install Shear Blocks for your installation.



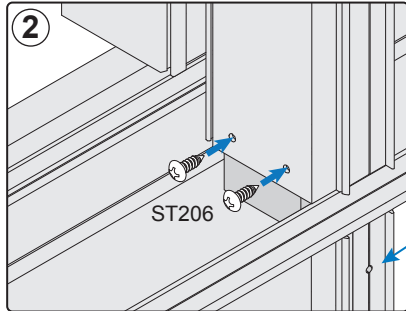
Secure 487x570 Main Header at each Shear Block with #8x1/2" PH SMS.



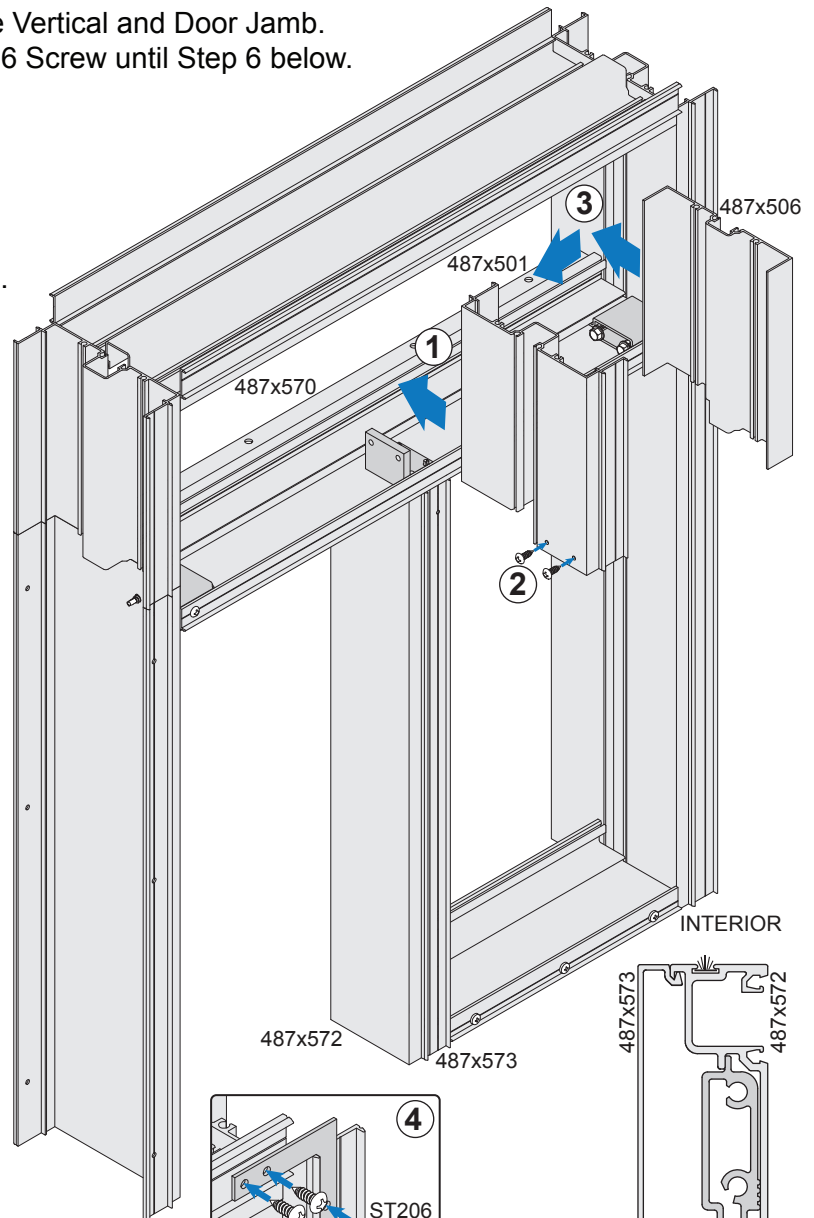
Follow instructions on Page 16 to Install Sidelite Vertical and Door Jamb.  
NOTE: Do not secure at Shear Block with ST206 Screw until Step 6 below.

## INSTALL TRANSOM VERTICAL

- ① Fit 487x501 into 487x570 Main Header.
- ② Secure to L-Clip with ST206 Screws.
- ③ Fit 487x506 into Main Header and 487x501.

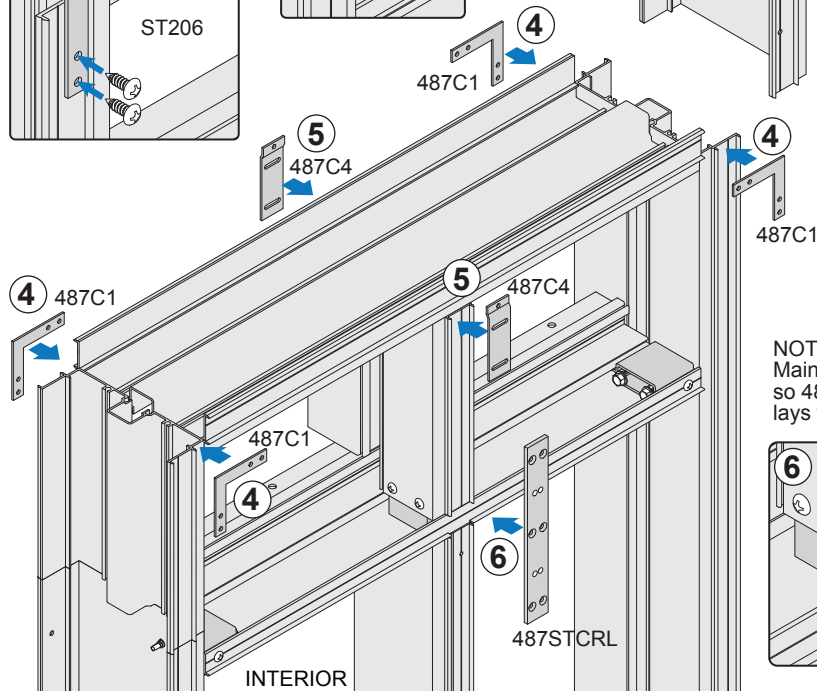
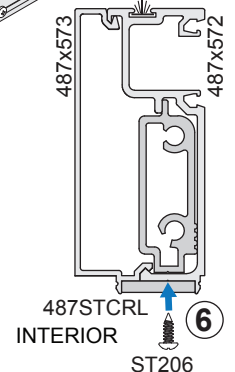
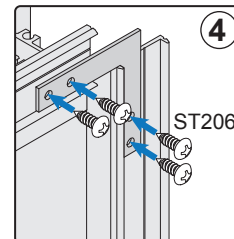
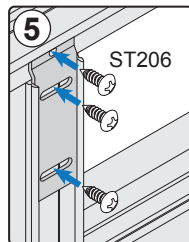
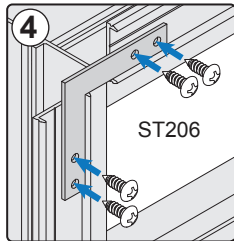


Wait until Step 6 to secure with ST206 Screw.

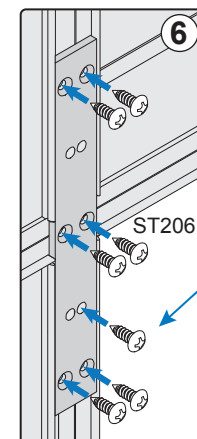
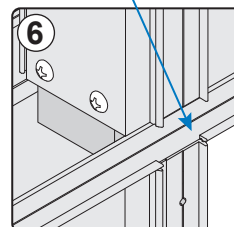


## INSTALL CLIPS

- ④ Square frame and install 487C1 Clips at interior and exterior.
- ⑤ Install 487C4 Clips at interior and exterior.
- ⑥ Install 487STCRL Bracket at interior.



NOTE: Notch 487x570 Main Header at Vertical so 487STCRL Bracket lays flush.



NOTE: Secure Shear Block to 487x572 Vertical.

## SQUARE FRAME AND SECURE

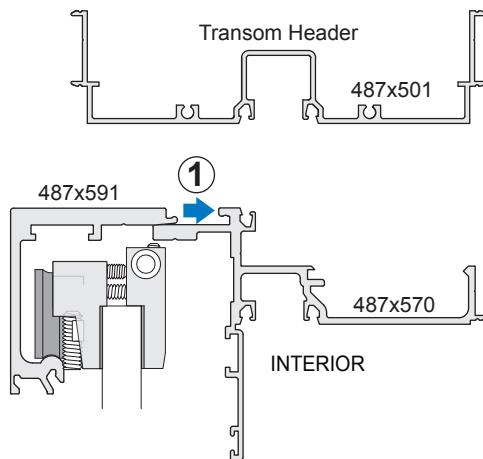
Use Cat. No. 6X158DWSD Drywall Screws to secure 487x509 and 487x501 Jamb and 487x501 Transom Header at interior and exterior. Space screws 2" (51 mm) at ends and 12" (305 mm) on center.

## INSTALL TOP TRACK WITH DOOR

Follow instructions on Page 18 to install the Door Receiver and Guide. Continue with Page 34 to Engage Door with Top Track.

NOTE: 487x504 Header Cover is installed as Glass Stop during glazing.

- ① Fit 487x591 Top Track with Door into 487x570 Main Header.



- ② Secure Track to Header with included 1/4"-20x1/2" FHSMS.

- ③ Use Height Adjustment Screw to set door at proper height.

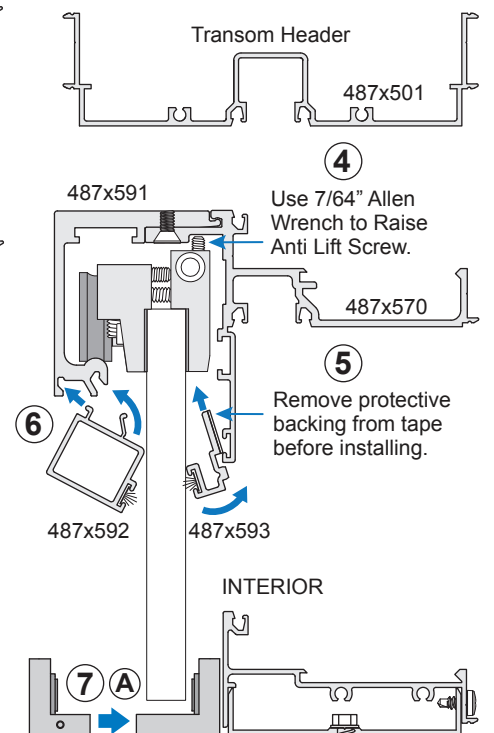
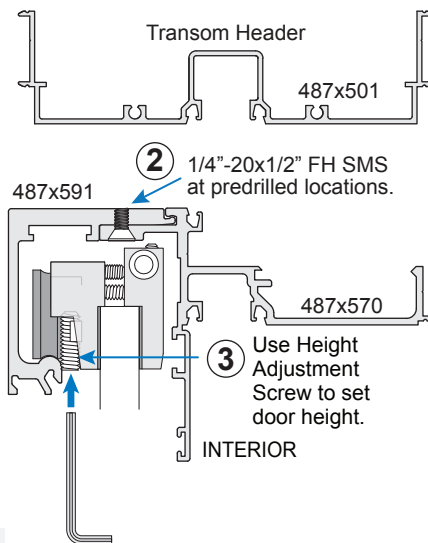
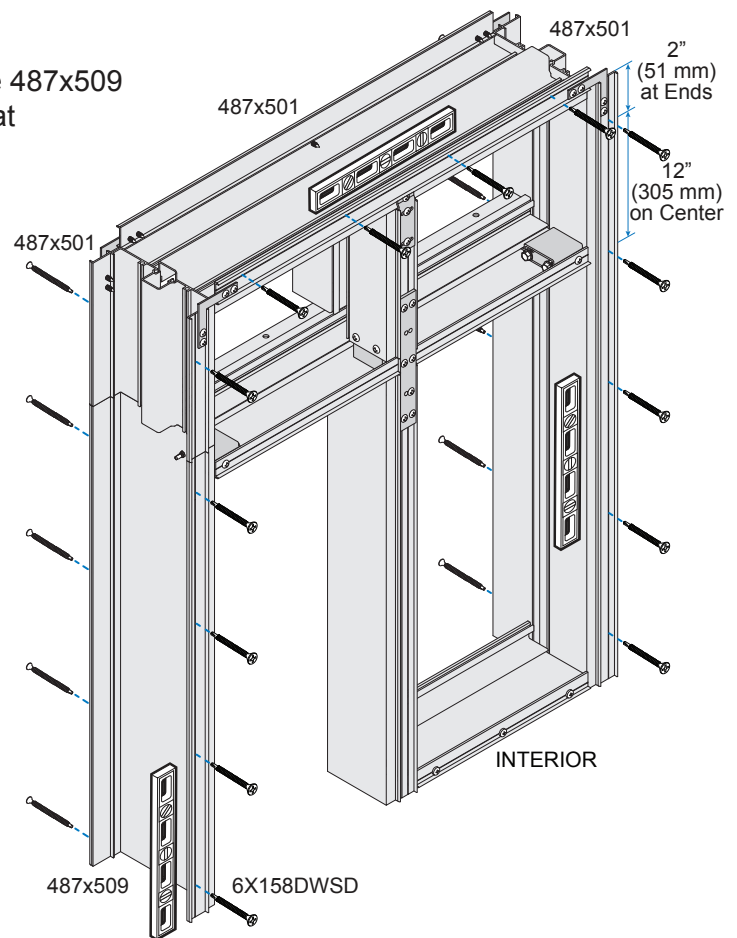
- ④ Raise Anti Lift Screw.

- ⑤ Install 487x593 Adaptor after final adjustments.

NOTE: Install Adaptor **after** final door alignment adjustments are complete. Remove protective backing from adhesive tape. Apply even pressure to install, moving door out of way as you work.

- ⑥ Snap 487x592 Door Glass Stop into place.

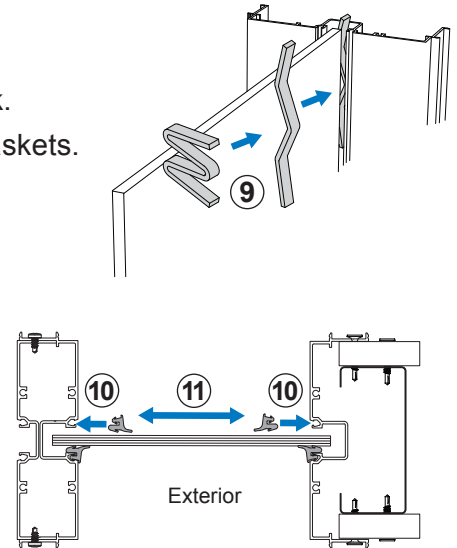
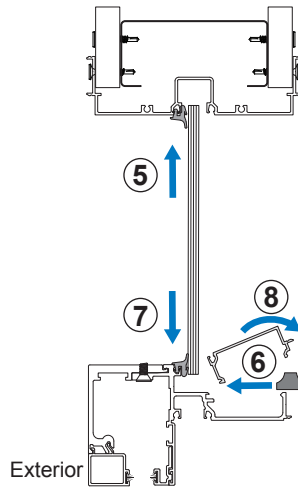
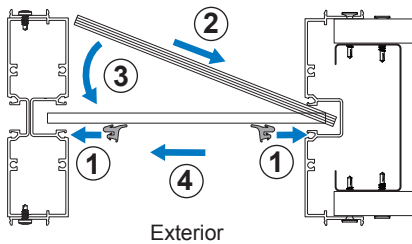
- ⑦ Fit Door Guide Insert into Door Guide Base and secure. (See Page 34 for more detail.)



Follow instructions on Page 27 to glaze Sidelite.

## TRANSOM GLAZING SEQUENCE

- ① Install Exterior Glazing Gaskets.
- ② Insert glass into Deep Pocket.
- ③ Swing into place.
- ④ Slide into Shallow Pocket.
- ⑤ Lift up into Top Pocket.
- ⑥ Position Setting Blocks.
- ⑦ Lower glass.
- ⑧ Install 487x504 Glass Stop(s).
- ⑨ Install WB452 Edge Block.
- ⑩ Install Interior Glazing Gaskets.
- ⑪ Center glass.



## INSTALL POCKET FILLER AND TRIM

