



Instructions

Omega™ Sliding Door

Introduction

This product is known as the 487 Slider, a sliding door designed for use with the Special-Lite Omega Interior Aluminum Framing system.

You should review the Design Considerations section of this document. Then, be sure to follow the Installation section carefully.



Important Notes

- ☐ These instructions are provided to help prevent installation problems caused by most common errors. They are strictly recommendations and are not intended to be a step-by-step, foolproof installation checklist suitable for every situation.
- ☐ There are many variations of installations not covered in these instructions that Special-Lite assumes are general construction knowledge to an experienced installer. Selection of an experienced installer is the sole responsibility of the project owner or responsible party.
- ☐ **Failure to follow good practice in installation will void the warranty on Special-Lite products.**
- ☐ If you have any questions about installation techniques for your particular project, please call 1-800-821-6531 and ask for a Special-Lite Customer Service Representative or Training Manager.

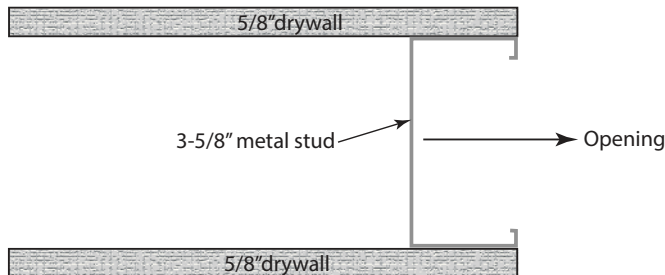
Design Considerations

Before ordering and attempting installation of the Omega Slider, consider all of the following guidelines to ensure correct application of this product.

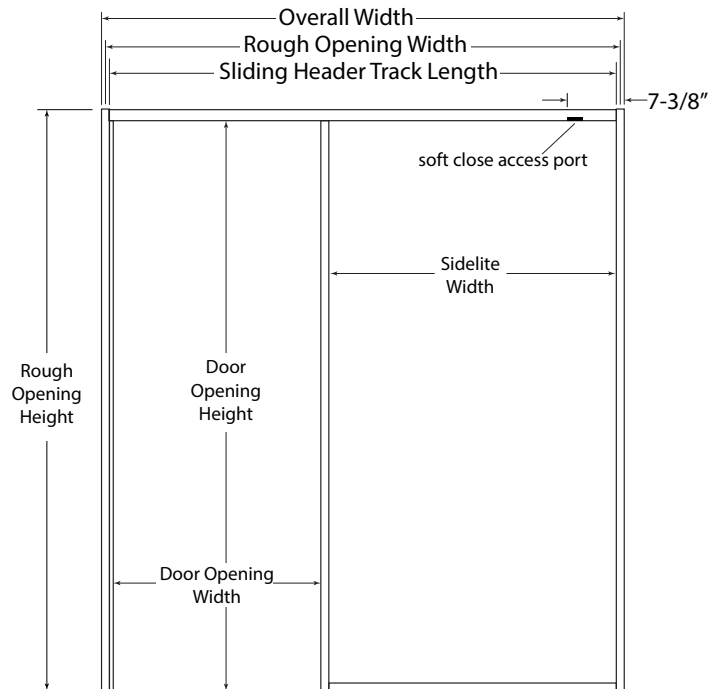
Opening Details

Omega is designed to provide a finished look to cased, rough openings. The nomenclature of the 487 Slider is a derivative of its intended application.

- ❑ This sliding door is designed for 4-7/8" wall systems (4.875" = 487 nomenclature). This measurement is critical to successful installation of the slider.
- ❑ The rough opening MUST be plumb and square OR must be shimmed to become plumb and square.
- ❑ The opening must be clean (with no buildup of drywall or putty).
- ❑ If metal studs are used on the verticals, they should be inverted to improve the wrapping of the Omega framing. This means that the flanges of the stud are facing into the opening and that the web of the stud is recessed.



- ❑ The metal stud for the header should NOT be inverted but should be recessed to accommodate reinforcement. See section, *Header Reinforcement*.
- ❑ The Omega header does not wrap the wall.
- ❑ To calculate the size of the desired rough opening, use the following diagram and notes:
 - Rough Opening Width = Door Opening Width + Sidelite Width + 3"
 - Rough Opening Height = Door Opening Height + 2-3/32"
 - To prep for hardware access port in the header, the header width (Sliding Header Track Length) = Door Opening Width X 2 + 13" (see diagram on page 12)



Door Specifications

- ❑ Maximum door height is 9 feet.
- ❑ Maximum door weight is 200 lbs.

Glazing Specifications

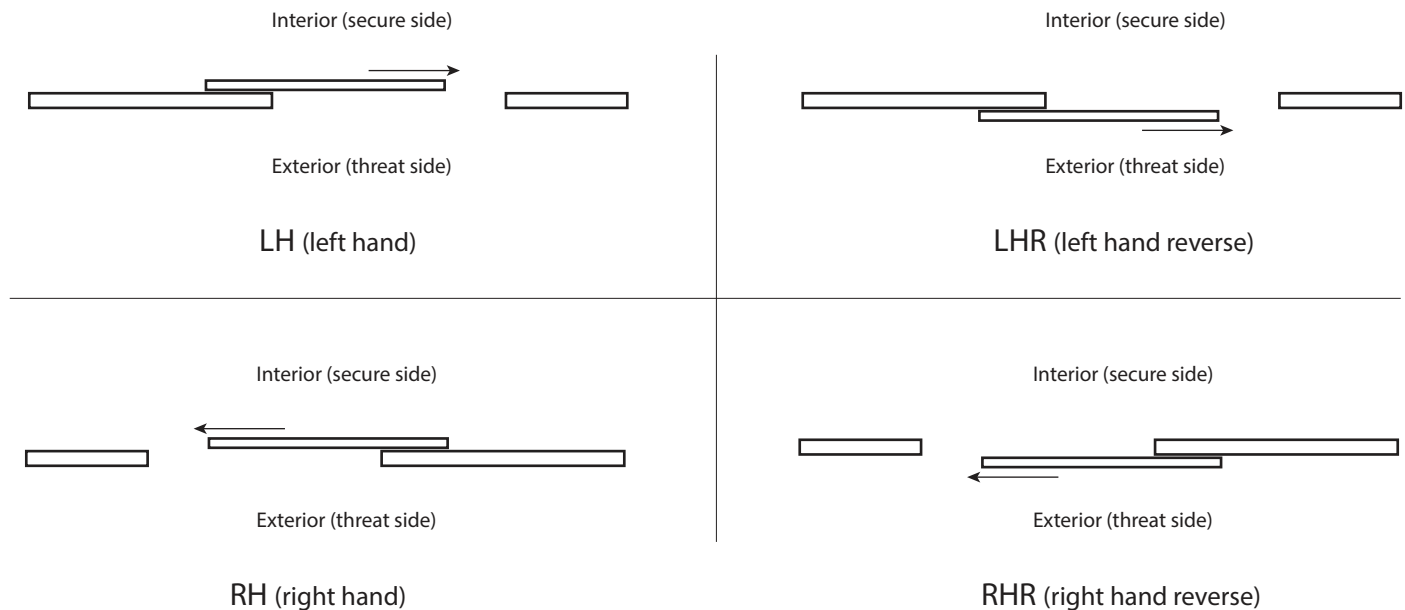
- ❑ Omega lites are designed for 1/4", 3/8", or 1/2" thick glass. Both pull and push vinyl are used to secure the glass.
- ❑ See the glazing vinyl details on page 10 for correct usage with each size glass.

Transoms

- ❑ No transoms are permitted above the 487 Slider and its entire pathway from open to close.

Door Handing

Surprisingly, door handing is not limited to swinging doors. Determine your desired handing of the door before ordering. Use the diagram below for reference.



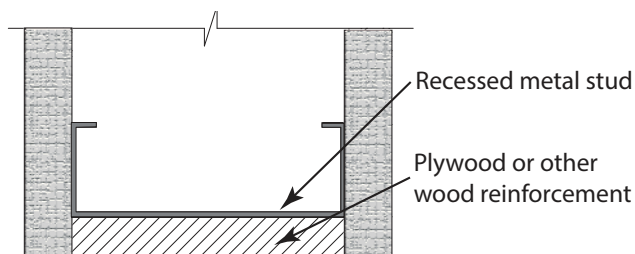
Header Reinforcement

The weight of a hanging, glass-laden door puts significant stress on the header of the opening. The header for an Omega 487 Slider **REQUIRES** reinforcement.

WARNING

Risk of serious injury or death. Without reinforcement, there is a high risk for falling door and glass.

- ☐ Properly framed wood studs are sufficiently strong and provide sufficient “bite” for header attachment. No further reinforcement is needed.
- ☐ Reinforce metal studs with $\frac{3}{4}$ " plywood (recommended) or other wood by others.



- ☐ Drop ceilings require special consideration. They should be reinforced to handle loads as much as 100 lbs per square foot in the area above the opening. Special-Lite recommends the use of such systems as the Unistrut Structural Ceiling Grid (Company site: <http://www.unistrut.us/> or Reseller Site: <http://unistrut.biz/solutions/unistrut-ceiling-grids/>).

Installation Guidance

As an example of a slider installation, this document will use a particular configuration example. You must, of course, adapt your slider installation to your unique configuration.

General Installation Sequence

- 1. Inspect and prepare package contents
- 2. Install verticals
- 3. Install header
- 4. Install bottom sidelite sill
- 5. Install mullion
- 6. Install door hanging hardware
- 7. Hang the door
- 8. Glaze door/sidelite
- 9. Install finishing trim

Project Summary Sheet

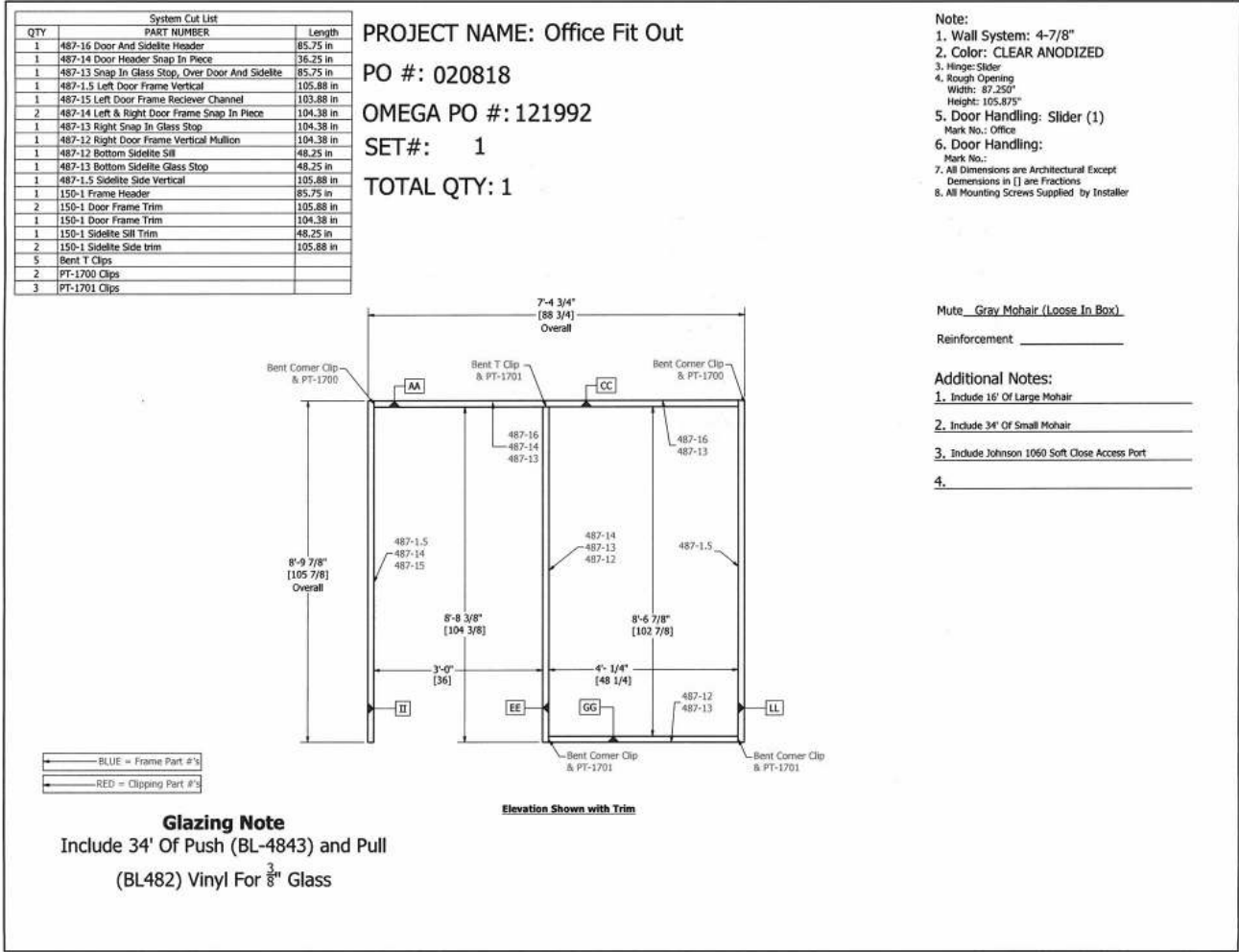
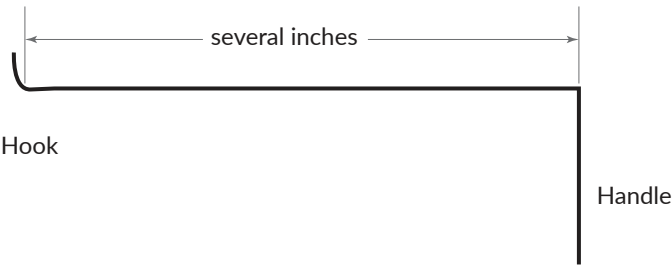
A project summary sheet, similar to the one depicted below, accompanies each Omega shipment.

Consult this sheet for a summary elevation drawing with part numbers. The part numbers are described in the upper left corner of the Project Summary.

Special Tool Required

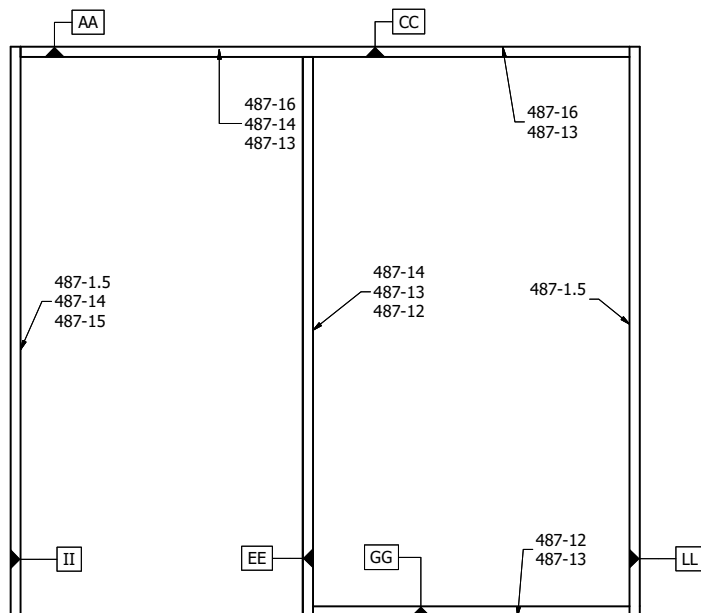
While hanging the door, you will need to engage the locks on the Johnson 1060 Door Plates. The design of the Omega header makes this a fairly blind operation. This requires the use of a hook.

Fashion your hook from material similar to a wire coat hanger. Design as follows:



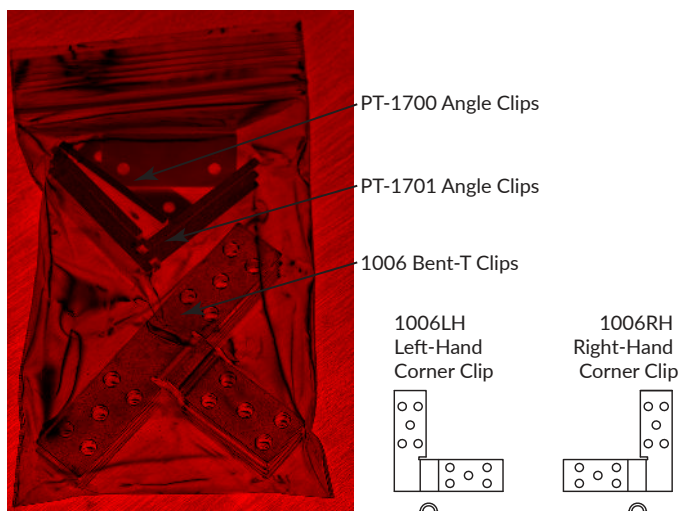
Installation

Note: These steps illustrate the following sample slider installation:



1. Inspect Contents

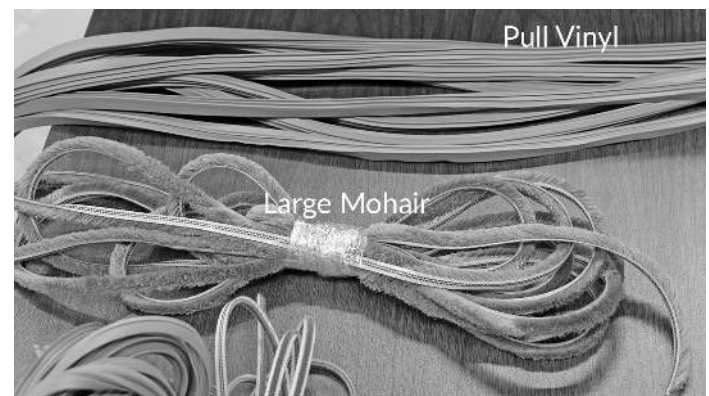
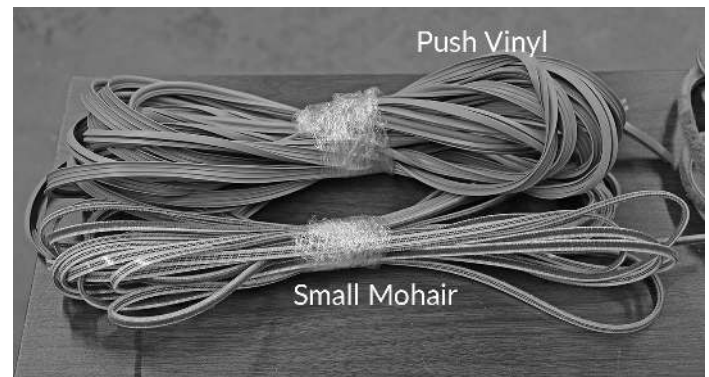
- Unpackage your Omega shipment.
- Compare the parts with the Project Summary sheet. If any parts are missing, call the Special-Lite Omega team at 800-821-6531.
- Identify each part per your project elevation and the Reference Drawings included within this document.
- Clip hardware is included in your package.



- Fastening hardware, such as self-tapping metal screws, are not included.

2. Install Vinyl and Mohair.

- You package will contain both push and pull vinyl for glazing purposes as well as small and large mohair for door travel and cushioning.



- Install this material into appropriate framing members BEFORE installing the framing members.
 - Use Small Mohair in the door track of the header (487-16) and on both sides of the receiving channel for the closed door (487-15).
 - Use Large Mohair in the portion of the mullion (487-12) that will “seal” against the door when closed and on the bottom sidelite sill (also 487-12).
 - Install Pull Vinyl into all appropriate framing members. For our sample setup:

- Frame vertical LL, part # 487-1.5
- Header CC, part # 487-16
- Mullion EE, part # 487-12
- Bottom sidelite sill GG, part # 487-12

3. Install Vertical Sides (II and LL)

- a. For this step, attach 487-1.5 to each end of the opening.
- b. These pieces run the full height of the opening and should wrap the wall on each side.
- c. Consider the door handing as you identify which piece will go on each side and in which orientation. (The one with pull vinyl installed is for the sidelite portion.)
- d. Partially secure frame sides, II and LL, in place using appropriate fastening hardware.



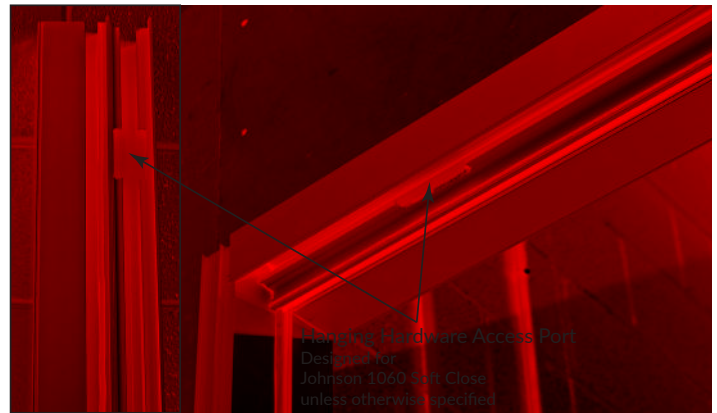
- e. Check for squareness before completely securing these pieces.

4. Install Header (AA/CC)

- a. Consider the door handing before orienting the header. The header is also characterized by an access port for the hanging hardware.

Note: If no access port is prepped, you must install the door hanging hardware (Step 8) before installing the header.

- b. Pre-drill mounting holes in the glass track and sliding track. Center holes in each track.



- c. Place 487-16 between the two vertical members.
- d. Secure the header using left-hand and right-hand corner clips, 1006LH and 1006RH.



- e. Further secure the header to the verticals using PT-1700 angle clips in each corner.



- f. Finally, secure 487-16 to the wall header using screws within the glass track and sliding track of 487-16.
- g. Clean any debris from these tracks.

5. Install the Bottom Sidelite Sill (GG)

- a. The sidelite sill (part number 487-12) is designed as the base for the sidelite portion of the installation. It has the same profile as the vertical mullion.
- b. Using a PT-1701 angle clip, align the sill with the sidelite vertical.

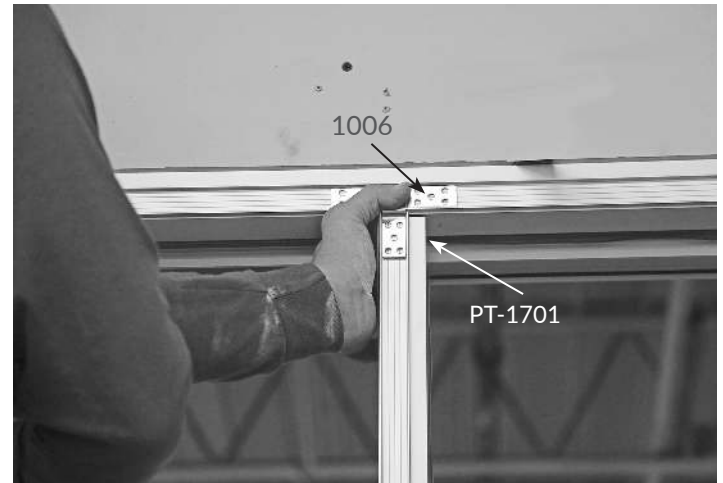


- c. Check for squareness as you fasten the clip.
- d. Continue to check for squareness as you secure the sill to the floor.

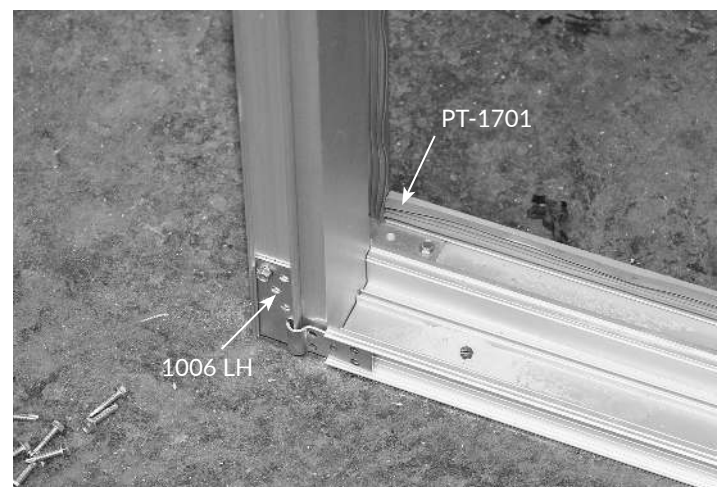


6. Install the Mullion (EE)

- a. Install a PT-1701 clip into the bottom edge of 487-12 that will serve as the main piece of the mullion.
- b. Align the clip as you attach the bottom of the mullion to the bottom sill.
- c. Loosely secure the clip while beginning to check for squareness.
- d. Loosely attach a bent-t clip (1006) to the top of the mullion where it meets the header.
- e. Loosely attach an additional PT-1701 clip to the top of the mullion and within the header channel



- e. Check for square alignment before securing 1006 and both PT-1701 clips.
- f. Further secure the mullion with a 1006LH at the bottom.



7. Install the Door Receiver Channel (487-15)

a. Insert snap-in piece, 487-14, into the center channel of 487-1.5 (primary vertical component) using a rubber mallet.

b. Attach snap-on pieces 150-1 on each side of 487-1.5.

c. Align the door receiver channel with the appropriate edge of the vertical and secure it using fastening hardware.



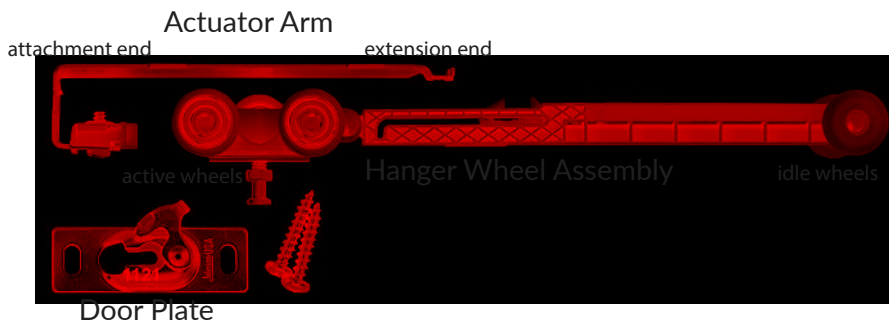
Note: This hardware varies based on the configuration you ordered.

- b. Attach the door plates on top of the top rail of the door, 2" from each end.
- c. Engage the soft close dampener on the Hanger Wheel Assemblies.
- e. Insert these components into the header door channel through the header access port and in the following order:
 - 1. Actuator Arm with attachment end in first
 - 2. Hanger Wheel Assembly with active wheels/hanger in first
 - 3. Hanger Wheel Assembly with idle wheels in first
 - 4. Actuator Arm with extension end in first



8. Install Door Hanging Hardware


- a. From each of the Johnson 1060 kits, locate the Actuator Arm, Door Plate, and the Hanger Wheel Assembly.



9. Hang the Door

- a. Install all or a portion of the bottom door guide (depending on its design) to the bottom of the mullion.



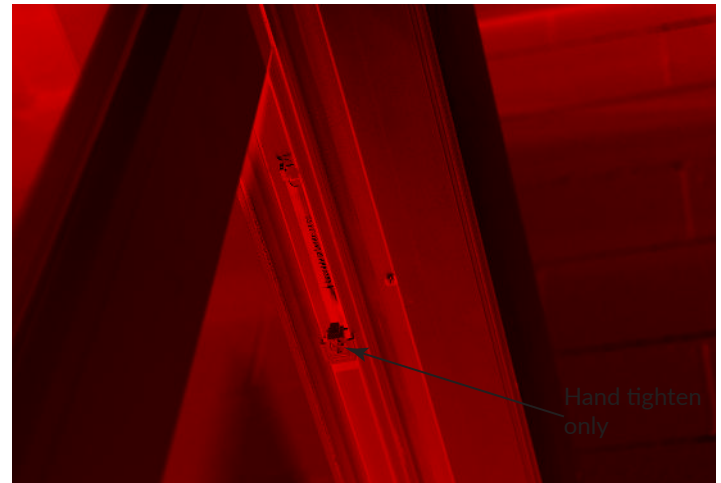
- b. Determine the resting place for the open door and position the two hanger wheel assemblies to approximately coincide with the locations of the door plates.
- c. Note the locking levers on the door plates and their orientation. 
- d. Lift the door to the hangers and use your special hook tool (see page 4) to pull the rollers onto the door plate. Be careful not to damage the bottom door guide.
- e. Use a flat blade screwdriver to lock the levers of the door plates. You should hear the locks click into place.



WARNING

Risk of serious injury or death. There is a high risk for falling door and glass if these locks are not engaged.

- f. Place the door in a normally open position.
- g. Set the appropriate actuator arm to engage the soft close lever on the wheel assembly at this location. Hand tighten the screw adjustment of the actuator arm. DO NOT use a power drill.
- h. Set the other actuator arm at the closed end of the header channel. Hand tighten the screw adjustment.



- i. Test the door movement and make adjustments to the actuator arms as needed.
- j. Install the remainder of the bottom door guide if needed.

10. Glazing

- a. See the glazing specifications on page 2 and details on page 10.
- a. Glaze the sidelite, installing the appropriate glass stops (487-13) and push vinyl.

11. Install Finishing Trim

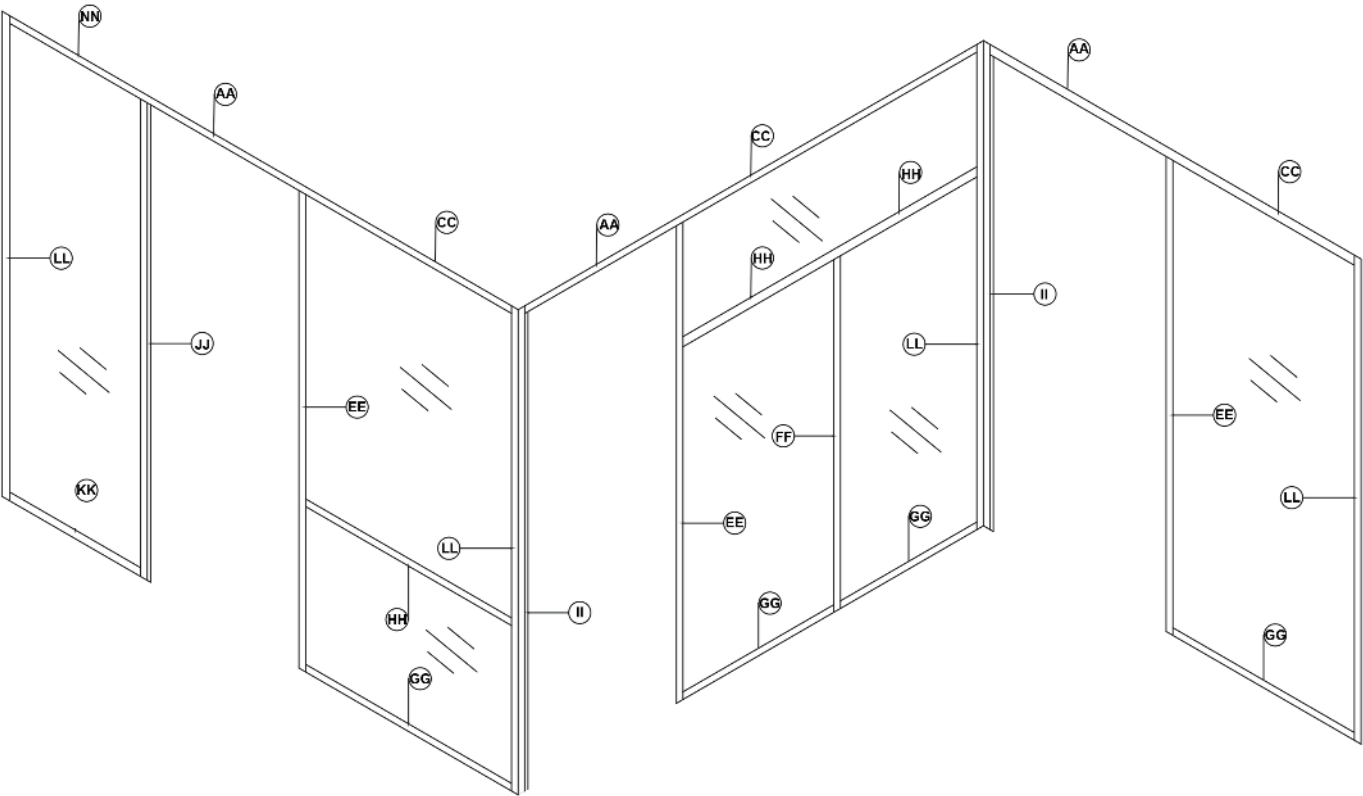
- a. Install remaining 487-14 snap-in pieces in header and mullion.



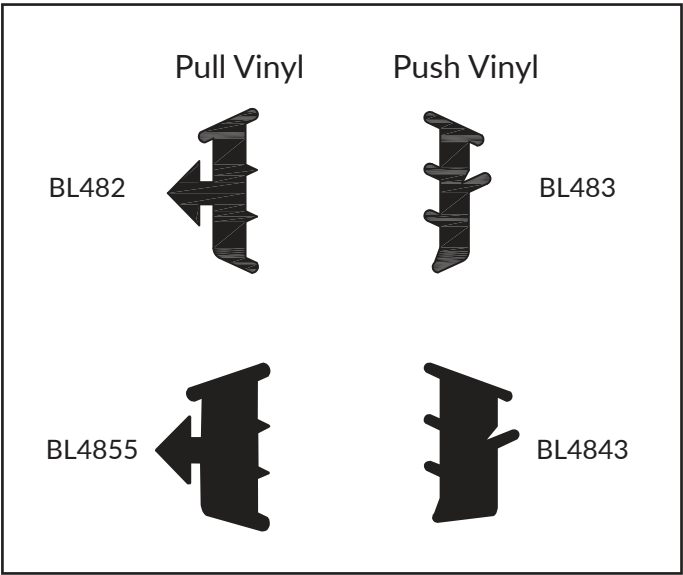
- b. Several pieces of 150-1 trim cap are included.
- c. You have used one of these on the receiver door jamb. Use the remaining pieces for the header, mullion, sill, and sidelite vertical.

Reference Drawings

Typical Omega Slider Elevations



Glazing Vinyl



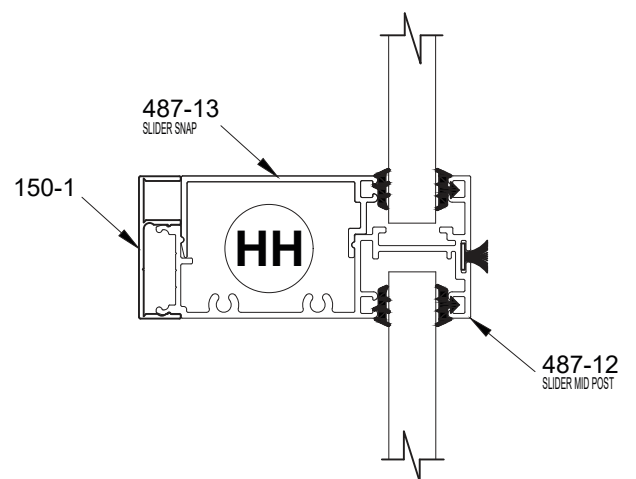
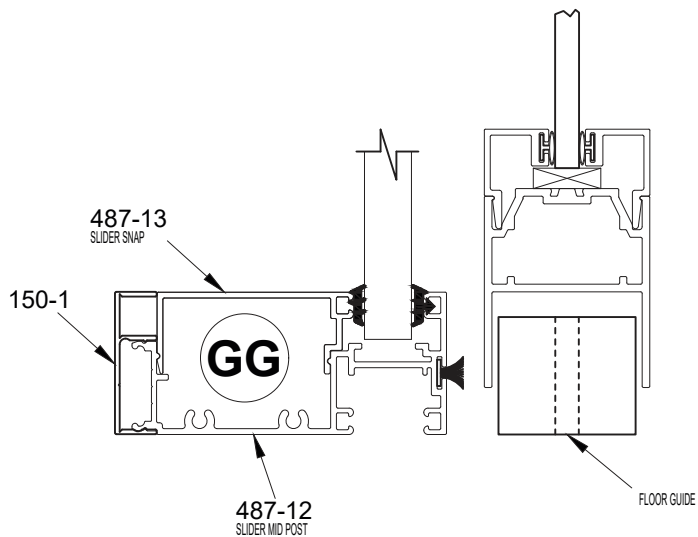
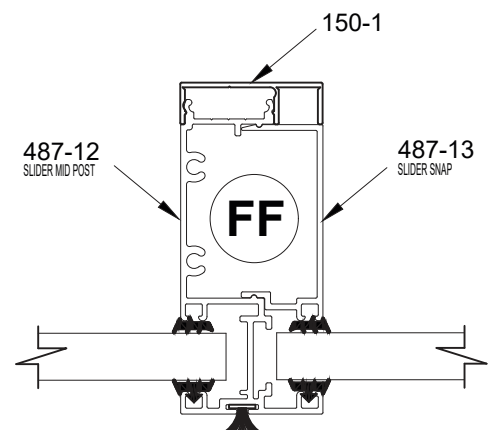
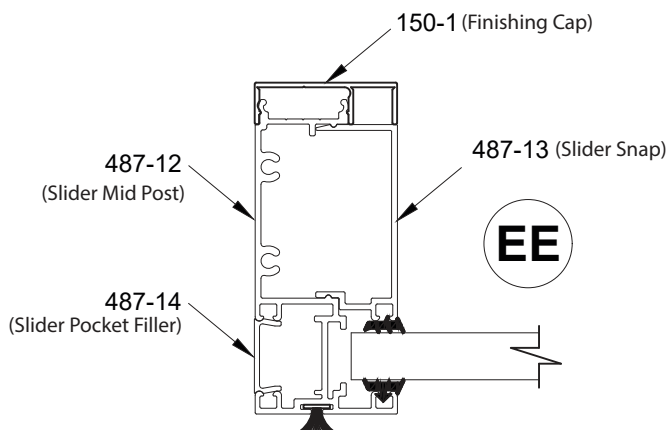
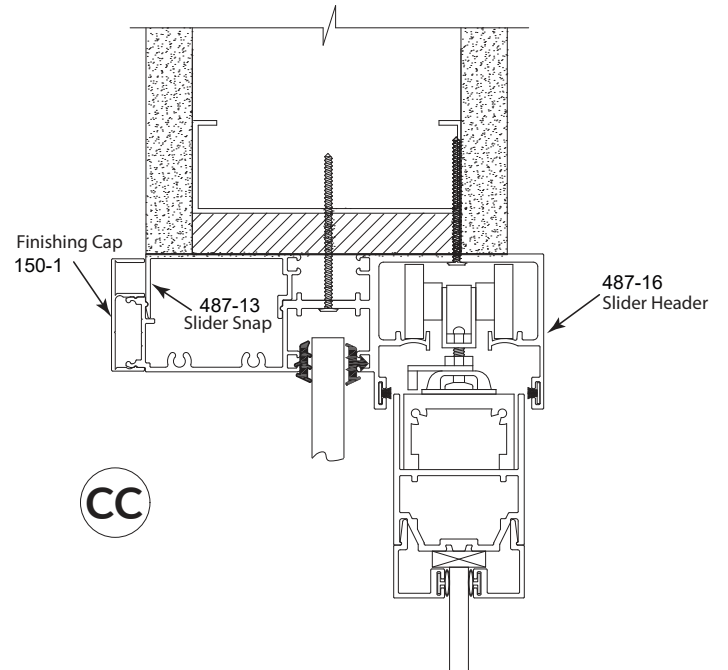
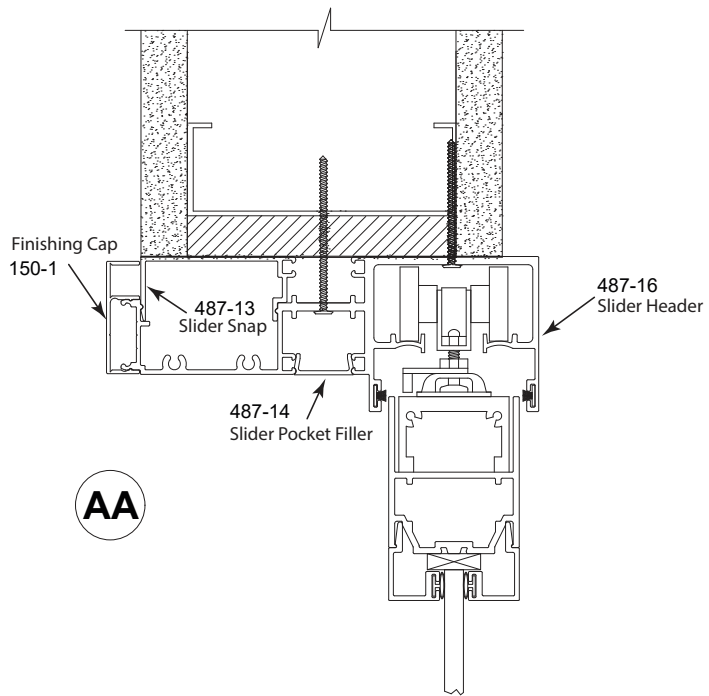
Usages

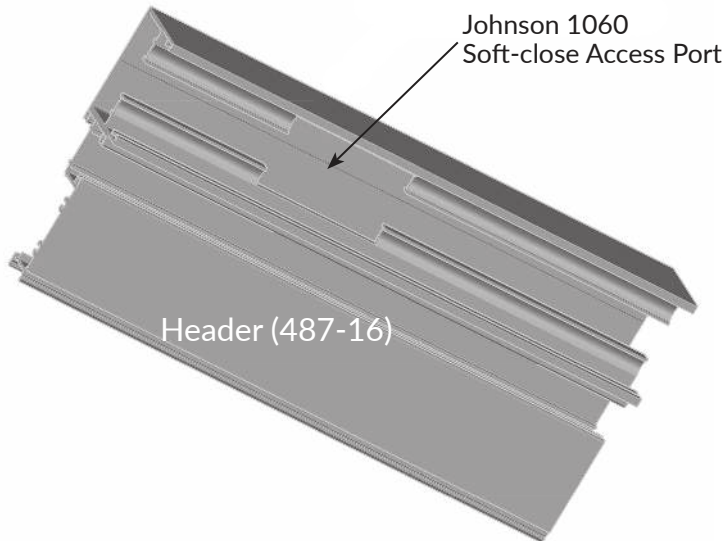
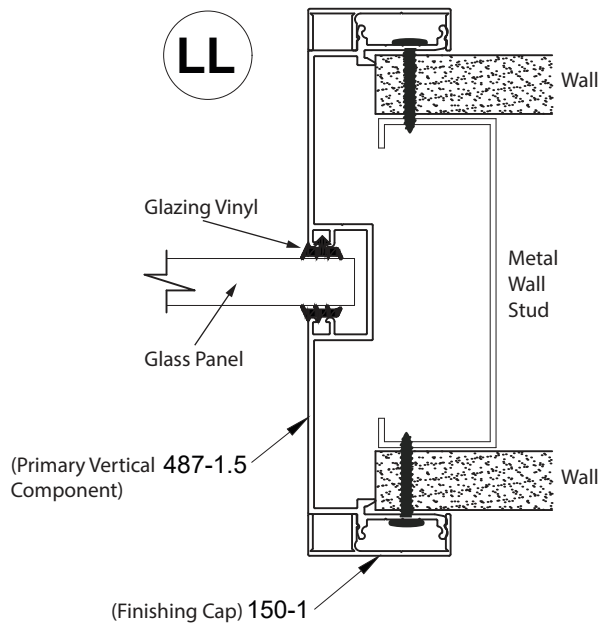
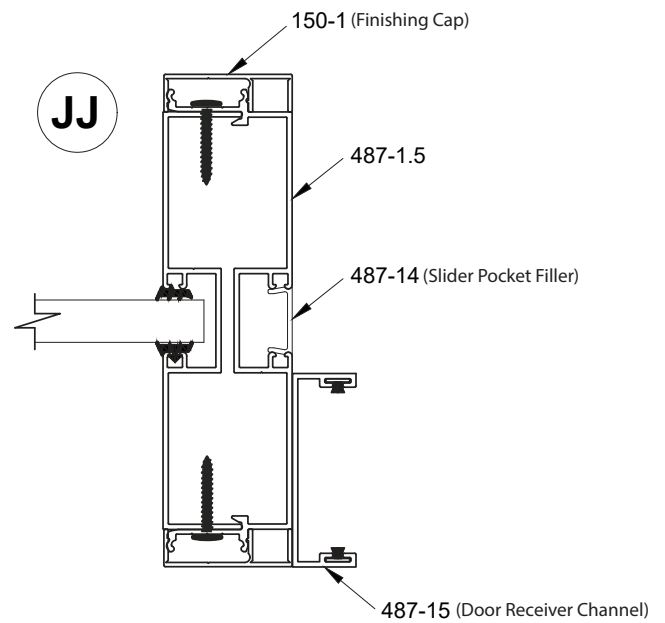
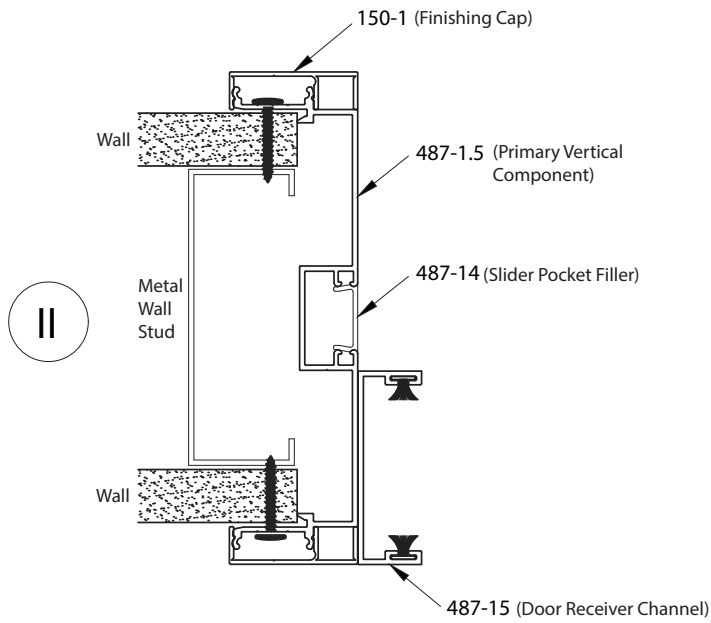
1/2" glass: BL482 & BL483

3/8" glass: BL482 & BL4843

1/4" glass: BL4855 & BL 4843

Typical Slider Details





To include this prep, sliding header length must be D.O. Width X 2 + 13 inches.

If header is not prepped for this access port, you must install the hanging hardware before installing the header.