

Installation Manual

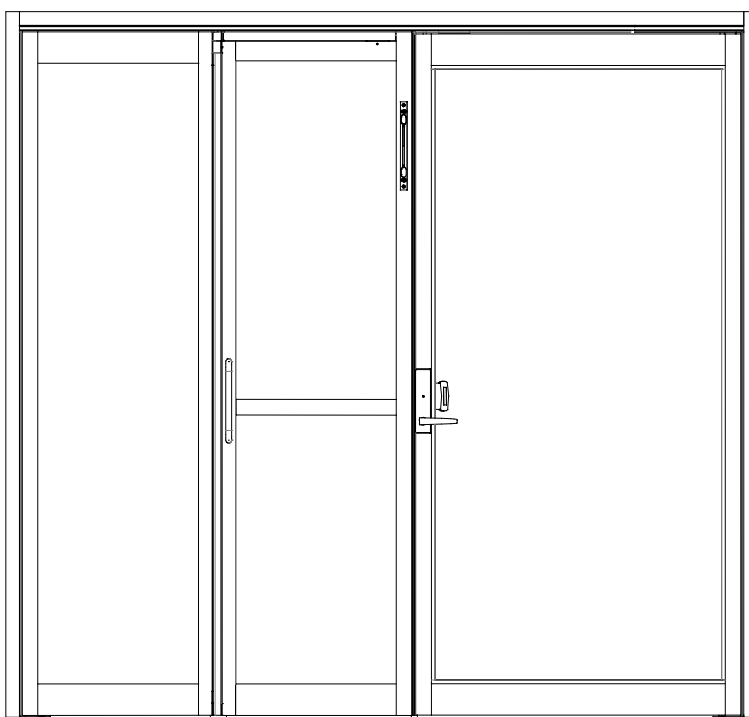
VersaMax™

ICU Fold Package

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions



Complies with applicable sections of NFPA 101 and the Life Safety Codes and the IBC for Manually Operated Pedestrian Doors

1016381

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CAUTION

Improperly adjusted doors can cause injury and/or equipment damage.
Inspect door operation using Functional and Visual Inspection information in Owner's Manual.
Safety devices must be in place and operational.

In this manual, the word:

CAUTION - Means that personal injury or property damage can result from failure to follow instructions.

NOTE! - Means that there is additional helpful information directly relevant to the subject matter.

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Revisions

The following pages have been revised:

Page	Revision
40	Changed ILL0498 to show shim provided with carrier

Important Safety Instructions for Use



WARNING!

It is important for the safety of persons to follow these instructions. (Save these instructions.)

Safety Precautions

To avoid bodily injury, material damage and malfunction of the product, the instructions contained in this manual must be strictly observed during installation, adjustment, repairs and service etc. Training is needed to carry out these tasks safely. Only ASSA ABLOY Entrance Systems-trained technicians should be allowed to carry out these operations.

CAUTION!

Improperly adjusted doors can cause injury and equipment damage.

Adjust doors for proper operation in accordance with manufacturer's instruction and adherence to NFPA 101 Life Safety Code and/or AHJ "Authority Having Jurisdiction".

Service/Maintenance

Regular inspections shall be made according to national regulations and product documentation by an ASSA ABLOY Entrance Systems-trained and qualified technician. The number of service occasions should be in accordance with national requirements and product documentation. This is especially important when the installation concerns a fire-approved door or a door with an emergency opening function.

Note!

The glazing material in all unframed swing doors shall comply with the requirements in the Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings, ANSI Z97.1. Glazing materials for other pedestrian doors shall also comply with ANSI Z97.1, except that single strength or heavier glass may be used for those portions of doors involving a glazed area of less than 1 sq. ft. and having no dimension greater than 18".

Environmental Requirements

Please act according to your local regulations and dispose of your old product(s) and packaging properly. The correct disposal will help prevent potential negative consequences for the environment and human health.

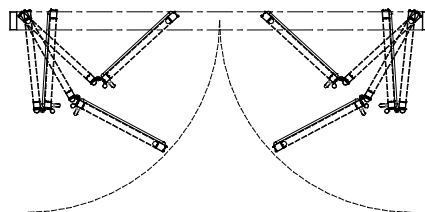
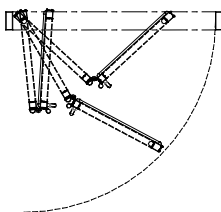
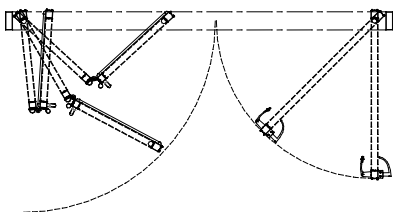
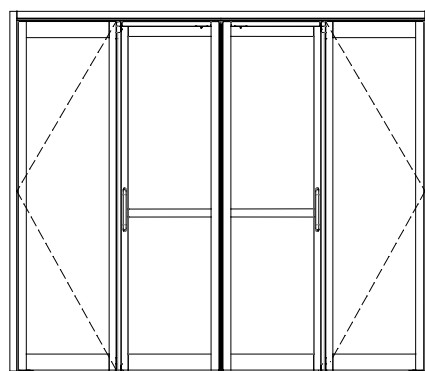
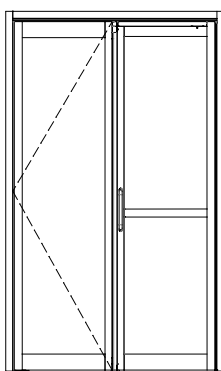
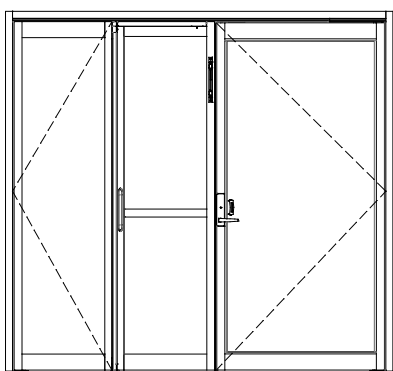
Introduction

This manual contains the necessary details and instructions for the installation and adjustments of VersaMax Fold door package.

The VersaMax Fold door package is designed for an overhead-concealed installation between two vertical jambs. The header, which is supported by the surrounding structure, supports the folding and swing door.

Models

The VersaMax Fold door packages can be right or left handed, containing folding and swing doors or just folding doors. All packages have breakout capability. Assembly and installation instructions are provided in separate sections of this manual for the [Swing Fold](#), [Single Fold](#) and [Dual Fold](#) packages.

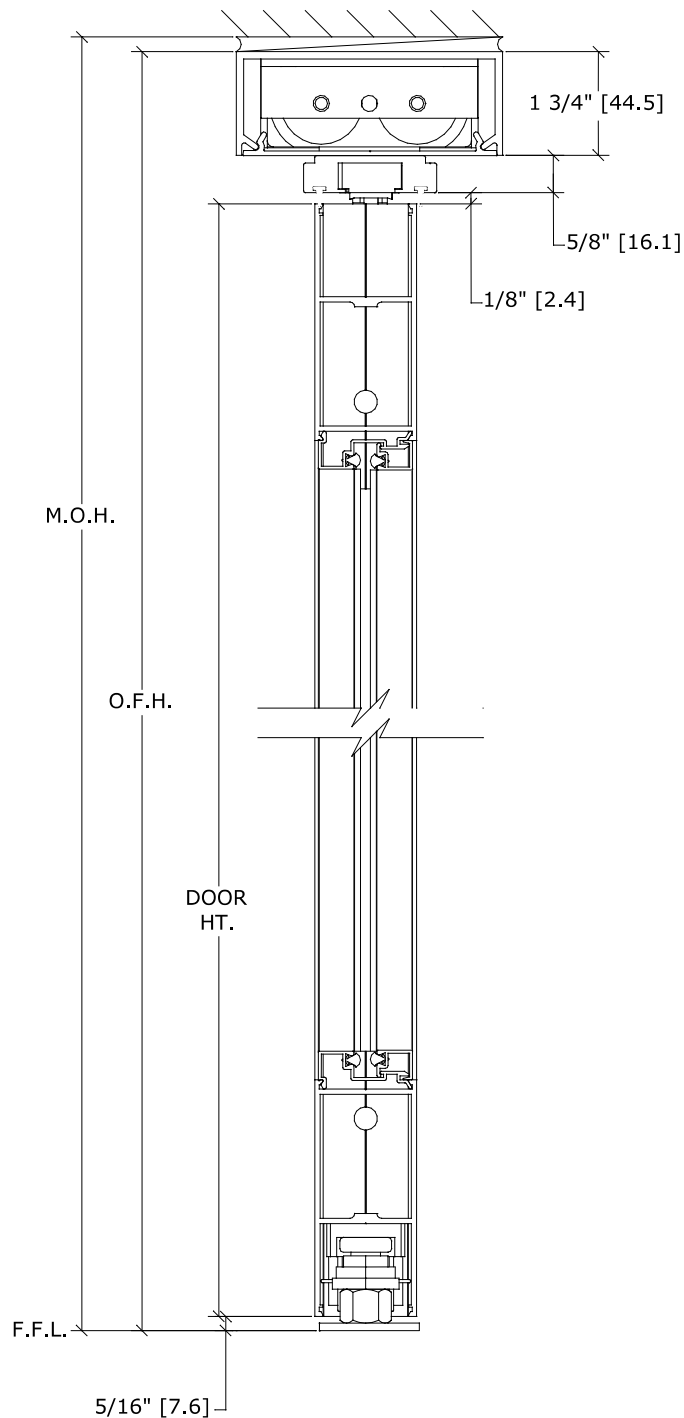


Swing Fold

Single Fold

Dual Fold

Space Required

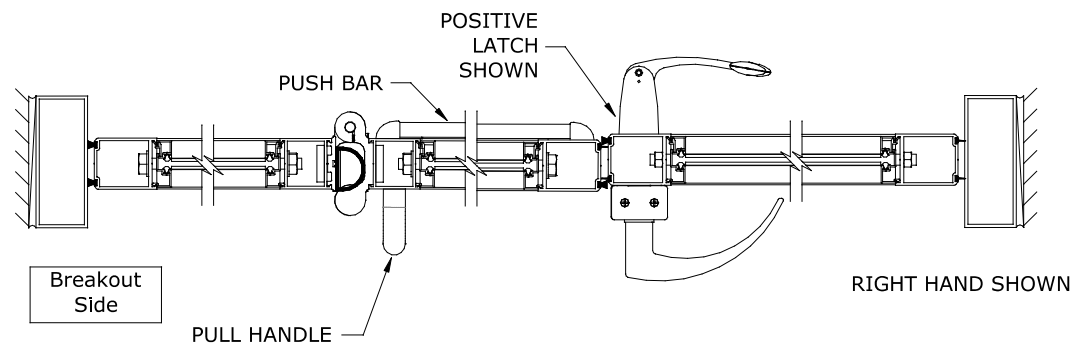


M.O.H = Mounting Height
OFH = Overall Frame Height
Door HT= Door Height

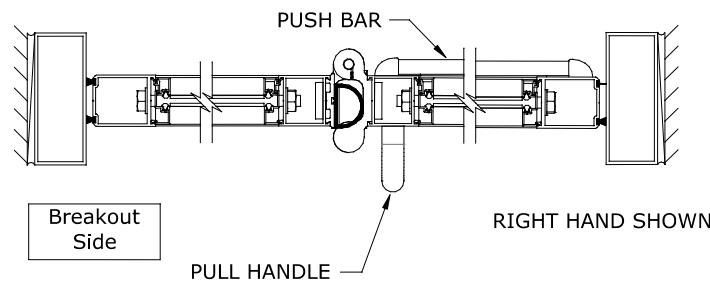
M.O.H	O.F.H.	Door Height
90" (2284.3)	89-3/4" (2277.9)	87" (2209.7)

Note!
Watch for low hanging items that could obstruct the opening of the Flush Bolt such as exit signs and wall conditions.

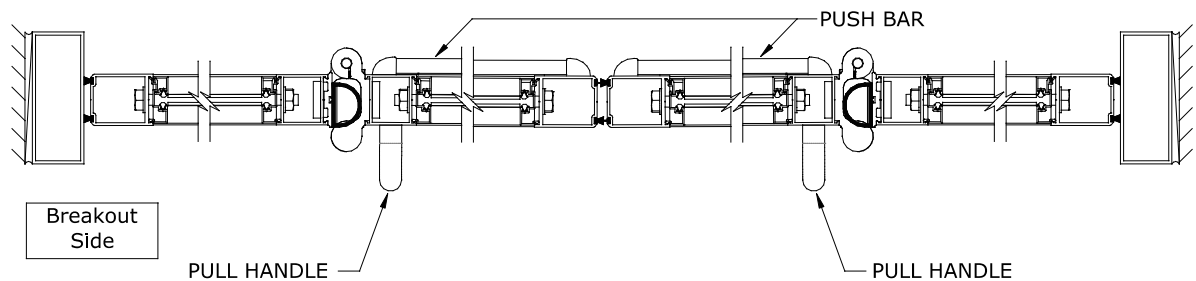
Installation Examples



Swing / Fold



Single Fold



Dual Fold

Installation Requirements

Fastening Requirements

Base door / wall material	Minimum Anchor Material Thickness Minimum fastener size #14 or ¼"
Steel	3/16" (5mm)
Aluminum	¼" (6mm)
Reinforced concrete	1-1/2" (38mm) from the edge
Wood	1-1/2" (38mm)
Brick wall	Expansion-shell bold, (1/4" x 3-1/2") Min. 2" (50mm) from the edge

* Besam minimum recommended requirements. Consult local building code.

* Thinner wall profiles must be reinforced with threaded inserts.

Tools Required

- Carpenter's level (4 foot)
- Tape rule
- Straight edge
- Power drill and set of drill bits, Unibit, Hammer drill
- Metric hex key set 6, 5, 4, 3 and 2.5 mm
- Screw driver Torx T20
- Flat blade screw driver (small/medium/large)
- Chalk line
- #2 Phillips screw driver
- Center punch
- String
- Plumb-Bob
- Silicone sealant
- Pencil
- 10mm Nut Driver and wrench
- Side cutters
- Allen wrenches
- De-Burring tool
- Manual threaded insert installer

Additional mounting hardware (not supplied - see fastening requirements above)

Note!

Where graphics are used with detail numbers, reference the assembly drawings contained within this manual or shipped with the package.

Door Assembly Processes

The door installation process incorporates, unpacking and installing hardware on the door panels.

Unpacking

It is important that all packing is removed from the door package so that it will not, later interfere with the operation of the door.

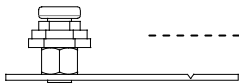
Remove and dispose of all packaging and scrap materials in accordance with local regulations.

Hardware Installation

Depending on the options chosen, some or all of the hardware shown below must be installed or modified on the door panels prior to installation. All hardware items are kitted with instructions and required fasteners for each package.

Seals

The seals have been factory installed. Trim door seals flush to stile ends prior to installing doors.



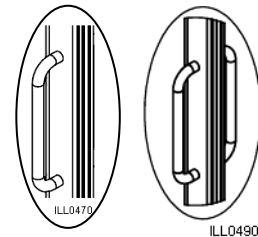
Pivot Plate

US15-1722-03

C - Handles

US08-1661-02

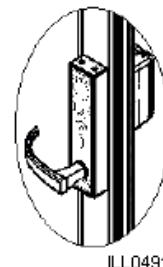
US08-1661-01



Sweep

US20-1627-02

Trim to length required for each panel, then insert into Sweep Holder. Note: Sweeps will be longer than the sweep holder. Install sweep and holder into bottom of door as shown. Once doors are hung, adjust sweeps to desired height and location, secure with 8 x 32 self-tapping screws.



Positive Latch / Paddle

US08-1642-01

Curved Handle/

US08-1644-01 RH

US08-1644-02 LH

Push Paddle

Header and Jamb Assembly and Installation

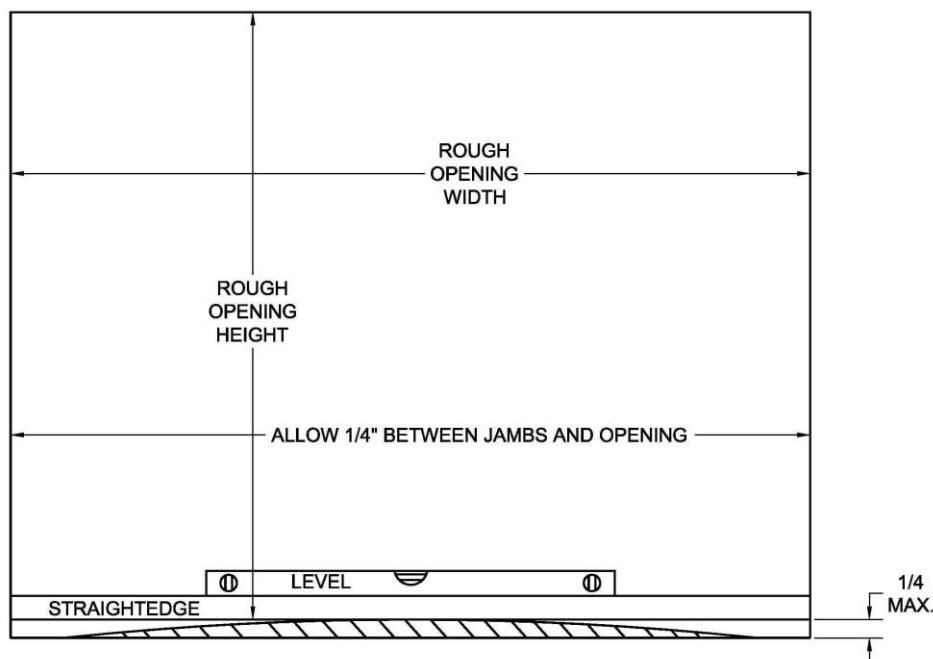
Rough Opening Inspection

Check that there is sufficient material to adequately support the Header, opposite the factory-predrilled holes.

The rough opening must be plumb and square and the finished floor must not vary by more than 1/4" from the highest to the lowest point. If necessary, have the floor leveled before attempting to install the sliding door system.

It is important to check that the floor is level within the travel and path of the doors in break out mode. The doors must not encounter any obstruction when broken out. Ideally, the floor should be level or slope away from the wall on the breakout side of the door.

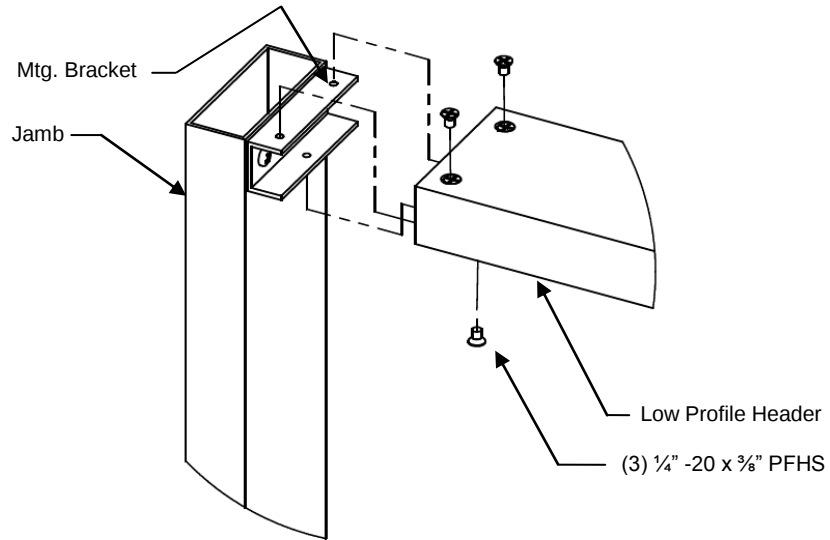
Verify that the rough opening width is 1/2" wider than the overall frame width of the folding door system, and that the rough opening height is 1/4" higher than the overall frame height. For example, an overall frame height of 89-3/4", requires a Rough Opening Height (ROH) of 90" measured from the highest point of the floor in the opening between the jambs. (96 x 89 3/4 = 96 1/2 x 90 RO)



Assembling Jamb and Header

ASSA ABLOY Entrance Systems jams are factory prepared to be attached to the header.

1. Attach Mounting Brackets to both jams and mount jams to header (Factory provided hardware.)



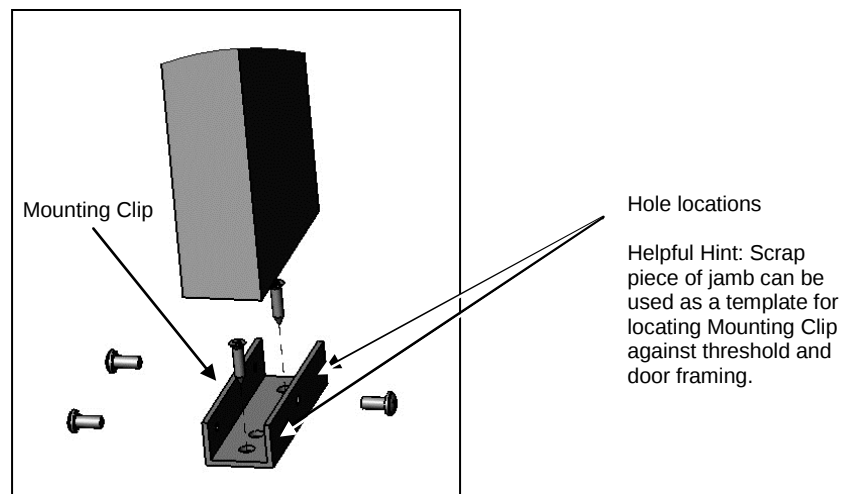
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Note!

Overhead support required for door installation. Weight of door is supported by header.

Suggested methods for attaching the jams:

- A. Install "U" shaped anchors to the floor in which the jams will slide over the top. Drill a hole through the jamb and anchor to attach the bottom of the jamb. Drill a hole through the jamb inside of the header to attach the top of the jamb.



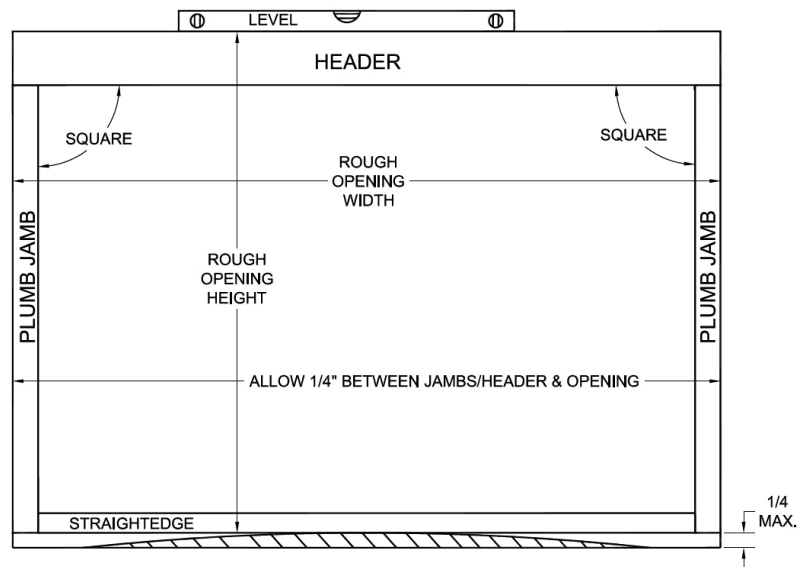
- B. Drill holes centered through the exterior and interior, in line with the door panels, resulting in the panels covering the holes when installed.
 - C. Drill holes, off center, through both the exterior and interior jamb wall and install beauty caps on the exterior holes.
2. For packages requiring optional positive latching, install Positive Latch Cam in Upper Guide Track.
 3. For packages requiring a Hydraulic Door Closer, check handing of door, and proceed as indicated in Hydraulic Door Closer installation directions packed with Hydraulic Door Closer Kit.
 4. Once Hydraulic Door Closer hardware is installed and hydraulic closer fits properly, remove hydraulic closer from header. (This aids in ease of installing the header and jambs.)

Installing Header and Jambs

Note!

The header and jambs must be installed plumb, square and level to ensure proper door operation.

1. Check rough opening for plumb, level and square.



2. Tilt header/jamb assembly into rough opening.
3. Insert shims under jambs as required, correcting for an uneven floor condition.
4. Check the position of the header, adjust side-to-side and front-to-back as needed, then clamp or temporarily fasten the assembly in place at the top of each jamb.

Note!

Headers are not self-supporting and require overhead support for proper operation. (Header support is required every 12" (305mm)).

5. Starting at the center of the header and working towards each jamb, partially install anchors through each pre-drilled installation hole.

Caution!

Use extreme care that the jamb and header are not distorted out of square when shimming and attaching. Failure to use care in this process will result in door misalignment and poor operation.

6. Remove temporary fasteners and/or clamps from jambs.
7. Re-check header for level, insert shims as required and tighten header anchors.

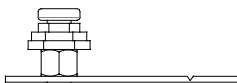
Note!

It may be necessary to leave a slight gap between the opening and header so that the installation anchor can draw the header up to a level condition.

8. Check each jamb for plumb and square, insert shims as required and install anchors.
9. Recheck all members for level, plumb and square, making adjustments as required.

Installing the Pivot Plates

1. Place Pivot Plate on floor, flush to Jamb Tube.

**Note!**

Pivot Plate should be centered on jamb (front and back).

2. Insert shims as required to level the Pivot Plate to bottom of jamb.
3. Mark hole locations.
4. Remove Pivot Plate, drill 1/4" holes and insert anchors.
5. Fasten Pivot Plate to floor with provided hardware.

Installing Jamb and Header Hardware

1. Install hydraulic closer back into headers.
2. Install short header snap on swing side of header.
3. Install long header snap on fold side.

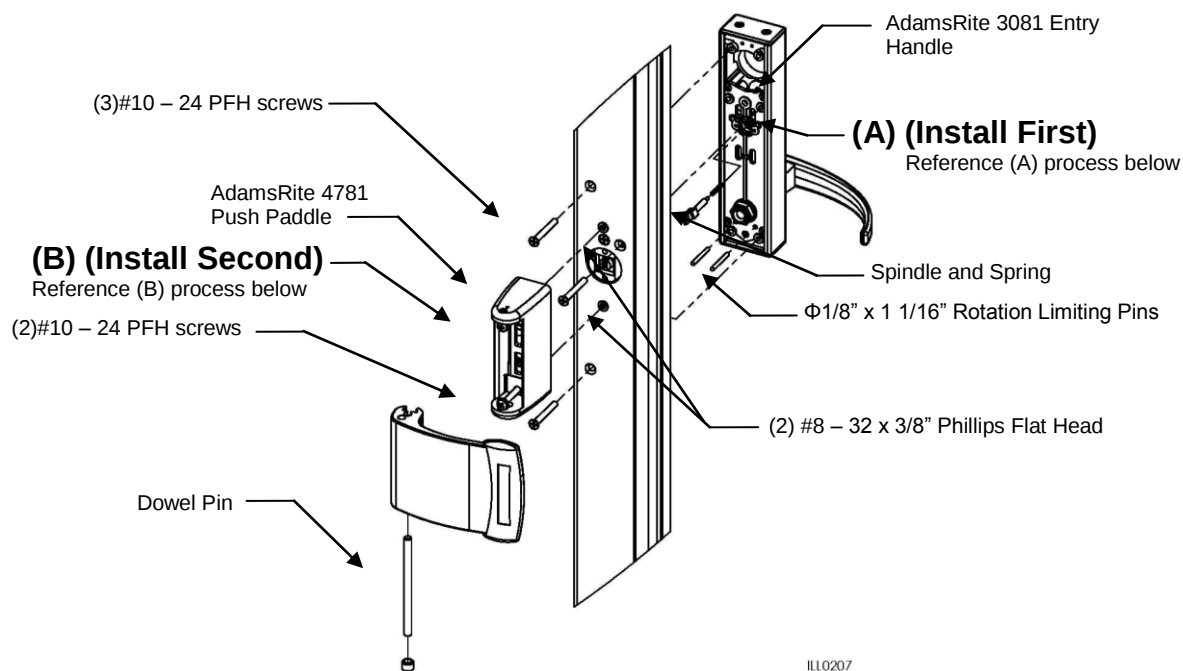
Install Door Hardware

Caution!

1. Ensure that when laying out hardware for door, that it is properly handed for customer application.
2. Install door latch and handle ensuring that it is operating correctly before installing door. (Reference door handle kit directions).
3. Check and set hydraulic door closer for correct operational positioning – per instructions shipped with assembly.
4. Install Hydraulic Closer shaft clamp on top of door per directions shipped with Hydraulic Closer.

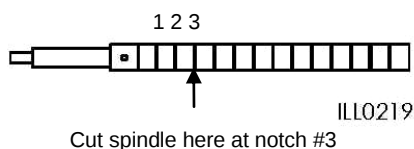
Handle Installation – Smoke Certified Packages

The door is shipped with the lock rod and guide mechanisms mounted and assembled inside the rail. However, the handles are to be field mounted.



(A) Installing the 3081 Curved Entry Handle (Exterior or Breakout side of Active Panel)

1. Turn the lever to the correct position as the hand of the door dictates. (The handle is shipped non-handed.)
2. Cut the spindle to size as shown.
3. Assemble the Rotation Limiting Pins, Spindle, and spring as shown.
4. Attach handle to door using three PFH screws provided.
5. Check handle to ensure engagement and disengagement of the lock rod.

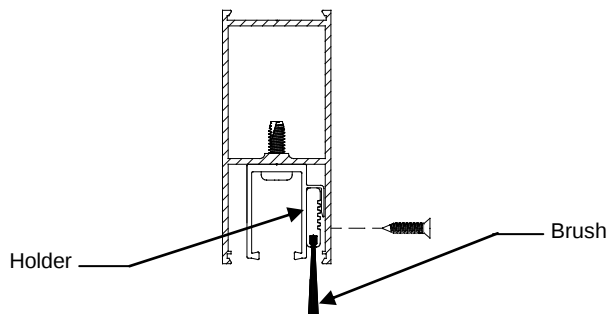
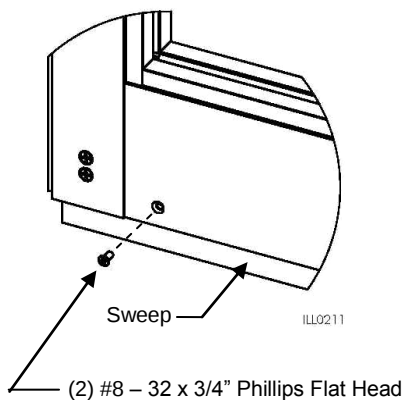


(B) Installing the 4781 Push Paddle Device (Interior of Active Panel)

6. Orient base as shown where the two PPH screws line up with the threaded insert and attach.
7. Attach paddle to base using the long dowel pin.
8. Inset set screw and tighten.
9. Check paddle to ensure engagement and disengagement of lock rod.
10. After installation, check both devices for proper operation. (For adjustments see Latch Adjustment.)

Install Door Sweep Bracket

1. If a sweep is required, trim the brush to length and insert it into the holder, then install in the bottom rail as shown below.
2. After final door adjustments are completed: Drill 1/8" pilot holes in the sweep holder and fasten in place with the screws provided.

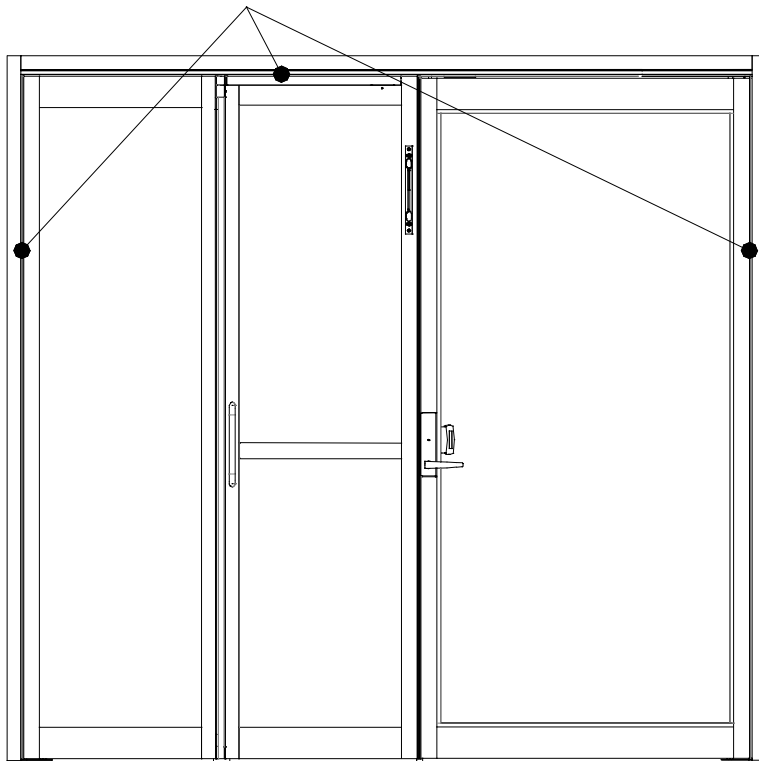


Installing the Doors

1. For **swing door packages** containing a Hydraulic Door Closer, set Hydraulic Door Closer for correct operational positioning, per instructions shipped with Hydraulic Door Closer.
2. Loosen Allen setscrews on both Header Pivots and Stop. Locate (1) header pivot 2-3/4" from edge of header to center of hole on fold side of header.
3. **To mount the swing door** with bottom pivot set in place, lift and slide door in from the pivot rail of door on to the bottom pivot, and at the same time, guide the closer arm on to the hydraulic closer shaft.
4. With door setting on bottom pivot, install screws through arm connecting closer arm to door. (Refer to hydraulic closer instructions.)

5. **To mount the folding door**, mount stop blocks approximately 1" away from secured Pivot Block. Slide remaining pivot block out of the way.
6. With the door in the vertical position, align roller at top of door with cutout in upper track, and lift door until roller enters track.
7. Slide heel of door back toward jamb until it engages lower Pivot.
8. Depress upper door pivot while moving door into alignment with upper Pivot Block in track. (Pivot will click into place when correctly aligned.)
9. Adjust doors so that 3/16" is maintained around the perimeter of all doors to each other, jamb and header. (This adjustment will have to be revisited when doors are glazed and blocked.) (See illustration on next page.)

3/16" Gap (Doors, Jambs and Header)



10. Adjust Nylatch® Kit rollers to clear header and snap into header track. (Rollers are designed to secure door in the closed position.)

Note!

Rollers need to be adjusted with just enough tension, to hold the door securely in the closed position, but not so tight as to impede ease of door opening. This adjustment should be checked after the door has been glazed and blocked.

11. Install Swing Door Stop. (Refer to directions in kit.)
12. Install door “C” handle per customer requirements, locating, marking and drilling holes. (Reference directions packed with kit.) (Through hole $\frac{1}{4}$ ”; hole for beauty cap $\frac{31}{64}$ ”)
13. Install crash bar to door. (threaded insert hole: $\frac{25}{64}$ ”)
14. Adjust doors after glazing and blocked. (Reference [Glazing and Blocking.](#))

Package Final Inspection and Adjustment

Door packages may be glazed before or after installation. Final adjustments and operational checks should be performed after all doors are installed and glazed, and installation of any trim and accessories are completed.

Check clearances with floor and header in both sliding and break-out modes as well as sweep adjustment if applicable.

Dispose of all packing and waste materials in accordance with state and local requirements.

Header and Jamb Assembly and Installation

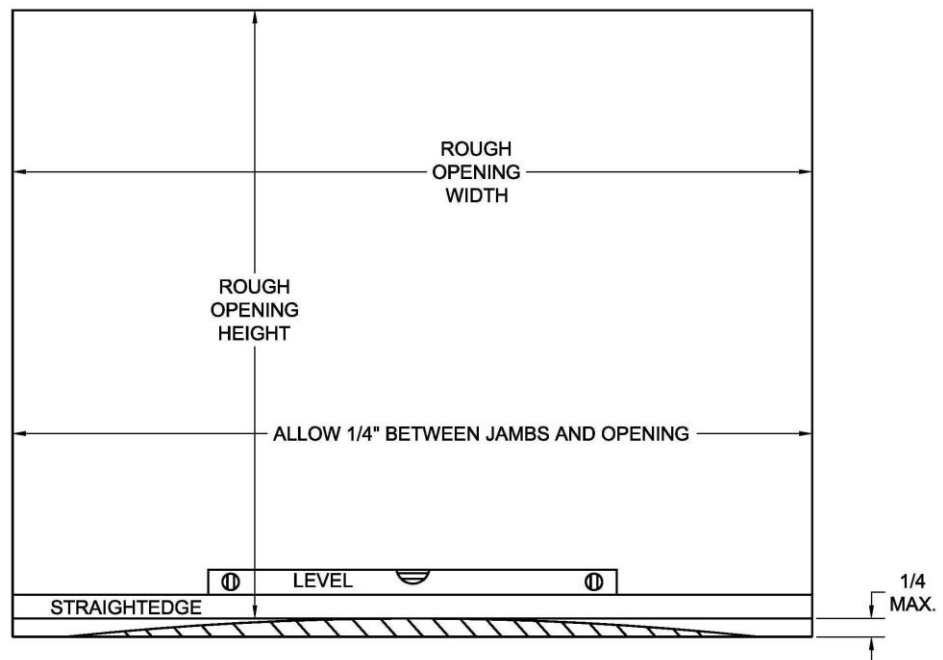
Rough Opening Inspection

Check that there is sufficient material to adequately support the Header, opposite the factory-predrilled holes.

The rough opening must be plumb and square and the finished floor must not vary by more than 1/4" from the highest to the lowest point. If necessary, have the floor leveled before attempting to install the sliding door system.

It is important to check that the floor is level within the travel and path of the doors in break out mode. The doors must not encounter any obstruction when broken out. Ideally, the floor should be level or slope away from the wall on the breakout side of the door.

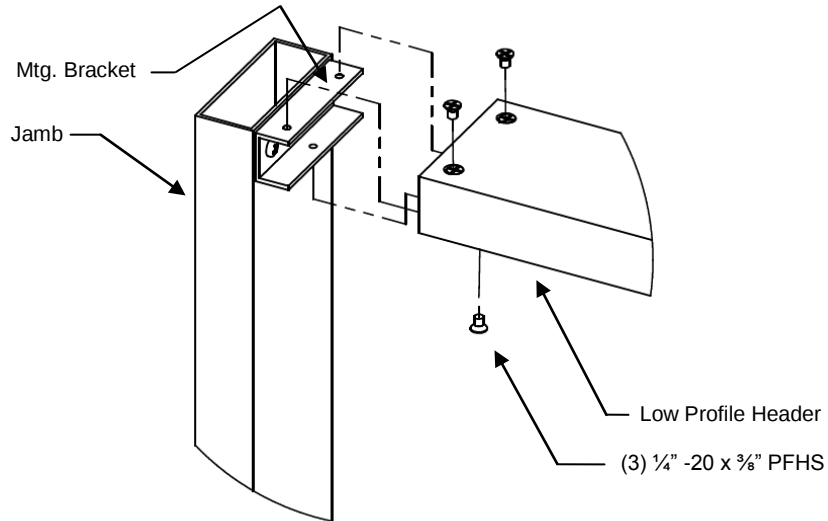
Verify that the rough opening width is 1/2" wider than the overall frame width of the sliding door system, and that the rough opening height is 1/4" higher than the overall frame height. For example, an overall frame height of 89-3/4", requires a Rough Opening Height (ROH) of 90" measured from the highest point of the floor in the opening between the jambs. (96 x 89 3/4 = 96 1/2 x 90 RO)



Assembling Jamb and Header

ASSA ABLOY Entrance Systems jambs are factory prepared to be attached to the header.

1. Attach Mounting Brackets to both jambs and mount jambs to header (Factory provided hardware.)



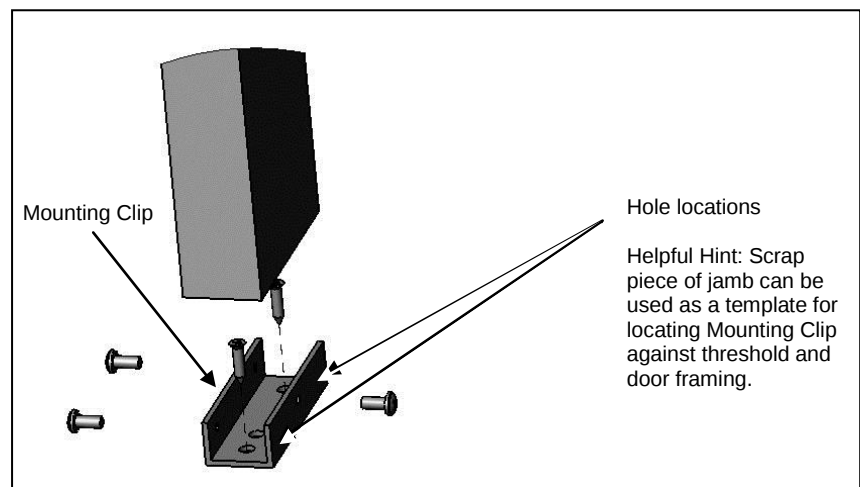
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Note!

Overhead support required for door installation. Weight of door is supported by header.

Suggested methods for attaching the jambs:

- A. Install "U" shaped anchors to the floor in which the jambs will slide over the top. Drill a hole through the jamb and anchor to attach the bottom of the jamb. Drill a hole through the jamb inside of the header to attach the top of the jamb.



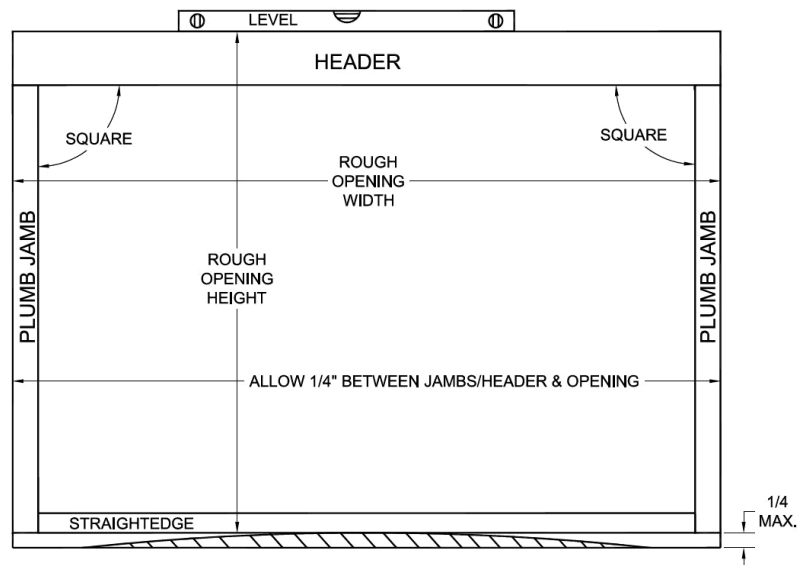
- B. Drill holes centered through the exterior and interior, in line with the door panels, resulting in the panels covering the holes when installed.
 - C. Drill holes, off center, through both the exterior and interior jamb wall and install beauty caps on the exterior holes.
2. For packages requiring optional positive latching, install Positive Latch Cam in Upper Guide Track.

Installing Header and Jambs

Note!

The header and jambs must be installed plumb, square and level to ensure proper door operation.

1. Check rough opening for plumb, level and square.



2. Tilt header/jamb assembly into rough opening.
3. Insert shims under jambs as required, correcting for an uneven floor condition.
4. Check the position of the header, adjust side-to-side and front-to-back as needed, then clamp or temporarily fasten the assembly in place at the top of each jamb.

Note!

Headers are not self-supporting and require overhead support for proper operation. Anchor holes will be pre-drilled. (Header support is required every 12" (305mm)).

5. Starting at the center of the header and working towards each jamb, partially install anchors through each pre-drilled installation hole.

Caution!

Use extreme care that the jamb and header are not distorted out of square when shimming and attaching. Failure to use care in this process will result in door misalignment and poor operation.

6. Remove temporary fasteners and/or clamps from jambs.
7. Re-check header for level, insert shims as required and tighten header anchors.

Note!

It may be necessary to leave a slight gap between the opening and header so that the installation anchor can draw the header up to a level condition.

8. Check each jamb for plumb and square, insert shims as required and install anchors.
9. Recheck all members for level, plumb and square, making adjustments as required.

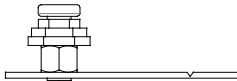
Installing the Pivot Plates

1. Place Pivot Plate on floor, flush to Jamb Tube.

Note!

Pivot Plate should be centered on jamb (front and back).

2. Insert shims as required to level the Pivot Plate to bottom of jamb.
3. Mark hole locations.
4. Remove Pivot Plate, drill $\frac{1}{4}$ " holes and insert anchors.
5. Fasten Pivot Plate to floor with provided hardware.

***Installing Jamb and Header Hardware***

1. Install Header Snap and already attached Upper Guide Track into the header in a manner that the short end is oriented toward the folding door pivot.
2. Unscrew and remove the long section of the upper track from the header snap.

Note!

You should now have one short section of track mounted in the header.

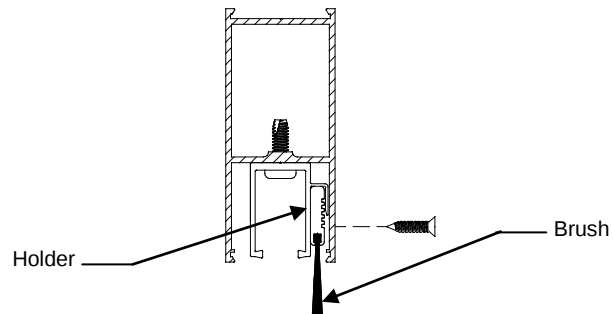
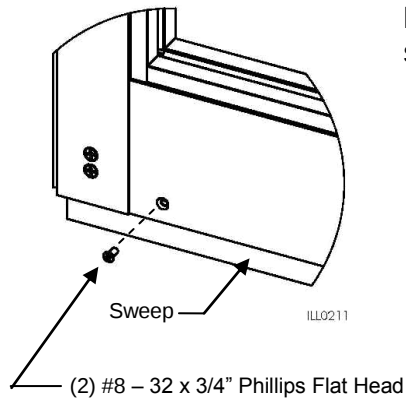
Install Door Hardware

Caution!

Ensure that when laying out hardware for door, that it is properly handed for customer application.

Install Door Sweep Bracket

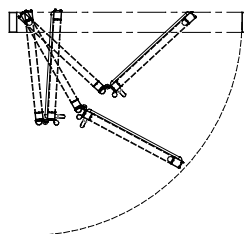
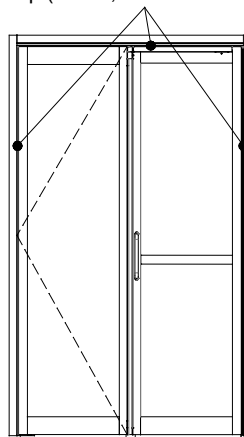
1. If a sweep is required, trim the brush to length and insert it into the holder, then install in the bottom rail as shown below.
2. After final door adjustments are completed: Drill 1/8" pilot holes in the sweep holder and fasten in place with the screws provided.



Installing the Doors

1. Loosen Allen setscrews on both Header Pivots and Stop. Locate (1) header pivot 2-3/4" from edge of header to center of hole on fold side of header.
2. Remove the long section of the upper track from the header snap. (Note, you should now have only one section of track still mounted in the header.)
3. Install folding door, with heel of the door placed on the bottom pivot, and then position the top of the door in a manner that it engages the top pivot. As you do, depress upper door pivot and move door into alignment with upper Pivot Block in track. (Pivot will click into place when correctly aligned.)
4. Position the door roller in a manner that it enters the upper track, then fold the door completely so that it's up against the jamb.
5. Reinstall screw back into the long section of upper track reconnecting it to the header snap.
6. Adjust doors so that 3/16" is maintained around the perimeter of all doors to each other, jamb and header. (This adjustment will have to be revisited when doors are glazed and blocked.)

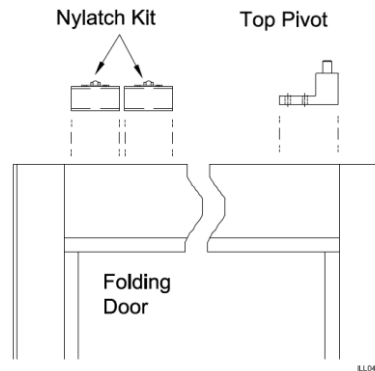
3/16" Gap (Doors, Jambs and Header)



7. Adjust Nylatch[®] Kit rollers to clear header and snap into header track. (Rollers are designed to secure door in the closed position.)

Note!

Rollers need to be adjusted with just enough tension, to hold the door securely in the closed position, but not so tight as to impede ease of door opening. This adjustment should be checked after the door has been glazed and blocked.



8. Install door “C” handle per customer requirements, locating, marking and drilling holes. (Reference directions packed with kit.) (Through hole $\frac{1}{4}$ ”; hole for beauty cap $\frac{31}{64}$ ”)
9. Install crash bar to door. (threaded insert hole: $\frac{25}{64}$ ”)
10. Adjust doors after glazing and blocked. (Reference [Glazing and Blocking.](#))

Package Final Inspection and Adjustment

Door packages may be glazed before or after installation. Final adjustments and operational checks should be performed after all doors are installed and glazed, and installation of any trim and accessories are completed.

Check clearances with floor and header in both sliding and break-out modes as well as sweep adjustment if applicable.

Dispose of all packing and waste materials in accordance with state and local requirements.

Header and Jamb Assembly and Installation

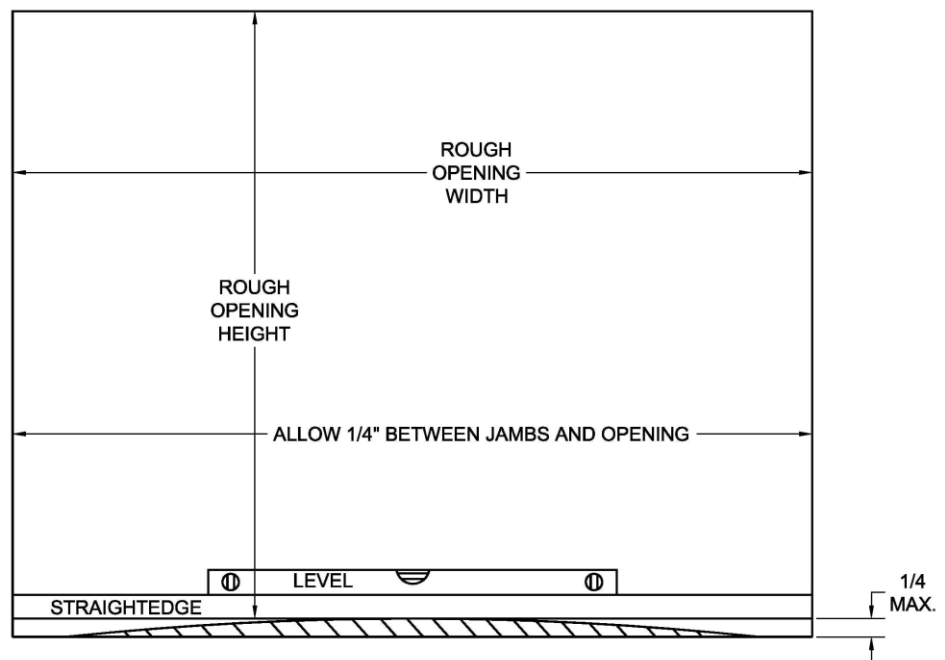
Rough Opening Inspection

Check that there is sufficient material to adequately support the Header, opposite the factory-predrilled holes.

The rough opening must be plumb and square and the finished floor must not vary by more than 1/4" from the highest to the lowest point. If necessary, have the floor leveled before attempting to install the sliding door system.

It is important to check that the floor is level within the travel and path of the doors in break out mode. The doors must not encounter any obstruction when broken out. Ideally, the floor should be level or slope away from the wall on the breakout side of the door.

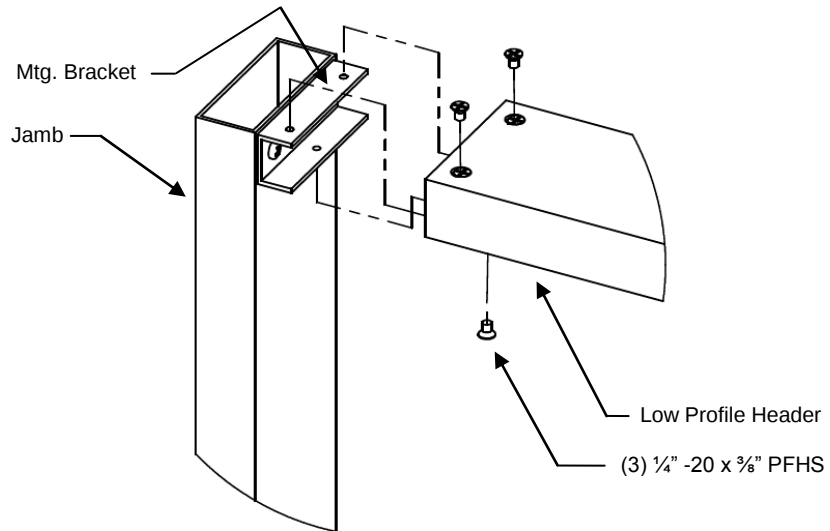
Verify that the rough opening width is 1/2" wider than the overall frame width of the sliding door system, and that the rough opening height is 1/4" higher than the overall frame height. For example, an overall frame height of 89-3/4", requires a Rough Opening Height (ROH) of 90" measured from the highest point of the floor in the opening between the jambs. (96 x 89 3/4 = 96 1/2 x 90 RO)



Assembling Jamb and Header

ASSA ABLOY Entrance Systems jams are factory prepared to be attached to the header.

1. Attach Mounting Brackets to both jams and mount jams to header (Factory provided hardware.)



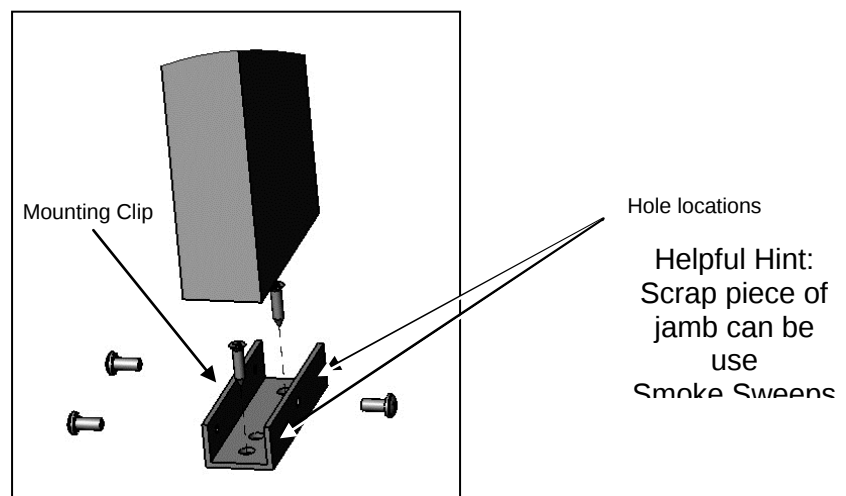
ILL0202

Note!

Overhead support required for door installation. Weight of door is supported by header.

Suggested methods for attaching the jams:

- A. Install "U" shaped anchors to the floor in which the jams will slide over the top. Drill a hole through the jamb and anchor to attach the bottom of the jamb. Drill a hole through the jamb inside of the header to attach the top of the jamb.



- B. Drill holes centered through the exterior and interior, in line with the door panels, resulting in the panels covering the holes when installed.

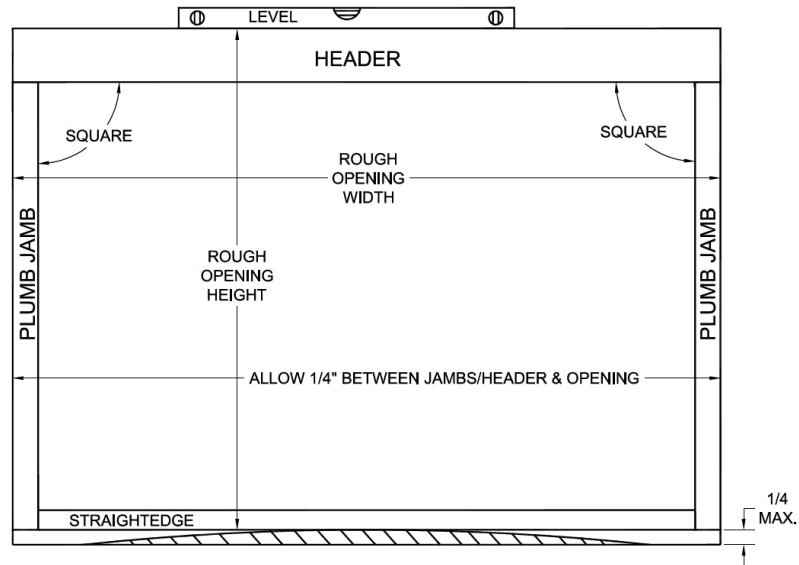
- C. Drill holes, off center, through both the exterior and interior jamb wall and install beauty caps on the exterior holes.
2. For packages requiring optional positive latching, install Positive Latch Cam in Upper Guide Track.

Installing Header and Jambs

Note!

The header and jambs must be installed plumb, square and level to ensure proper door operation.

1. Check rough opening for plumb, level and square.



2. Tilt header/jamb assembly into rough opening.
3. Insert shims under jambs as required, correcting for an uneven floor condition.
4. Check the position of the header, adjust side-to-side and front-to-back as needed, then clamp or temporarily fasten the assembly in place at the top of each jamb.

Note!

Headers are not self-supporting and require overhead support for proper operation. Anchor holes will be pre-drilled. (Header support is required every 12" (305mm)).

5. Starting at the center of the header and working towards each jamb, partially install anchors through each pre-drilled installation hole.

Caution!

Use extreme care that the jamb and header are not distorted out of square when shimming and attaching. Failure to use care in this process will result in door misalignment and poor operation.

6. Remove temporary fasteners and/or clamps from jambs.

7. Re-check header for level, insert shims as required and tighten header anchors.

Note!

It may be necessary to leave a slight gap between the opening and header so that the installation anchor can draw the header up to a level condition.

8. Check each jamb for plumb and square, insert shims as required and install anchors.
9. Recheck all members for level, plumb and square, making adjustments as required.

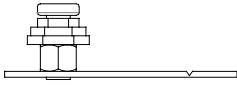
Installing the Pivot Plates

1. Place Pivot Plate on floor, flush to Jamb Tube.

Note!

Pivot Plate should be centered on jamb (front and back).

2. Insert shims as required to level the Pivot Plate to bottom of jamb.
3. Mark hole locations.
4. Remove Pivot Plate, drill $\frac{1}{4}$ " holes and insert anchors.
5. Fasten Pivot Plate to floor with provided hardware.



Installing Jamb and Header Hardware

1. Install 3-piece upper track and header snap assembly into the header. (Does not matter which end goes in which direction.)

Note!

You should now have one short section of track mounted in the header.

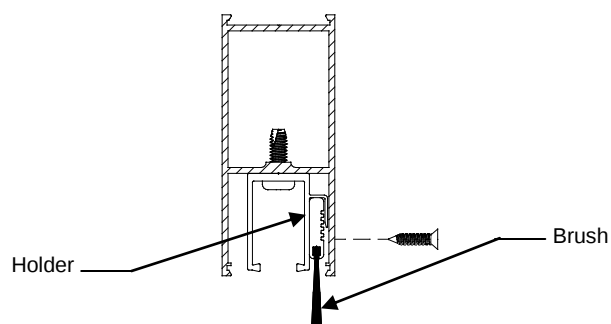
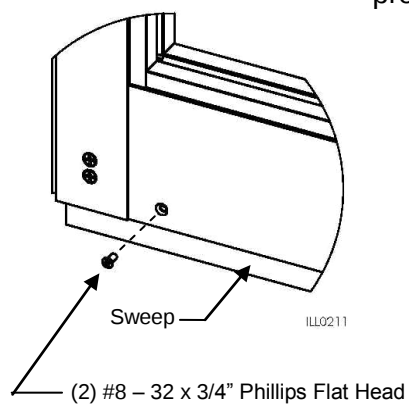
Install Door Hardware

Caution!

Ensure that when laying out hardware for door, that it is properly handed for customer application.

Install Door Sweep Bracket

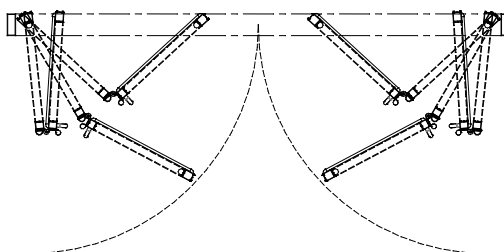
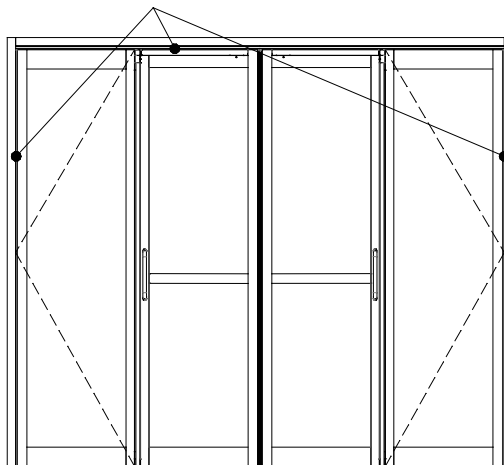
1. If a sweep is required, trim the brush to length and insert it into the holder, then install in the bottom rail as shown below.
2. After final door adjustments are completed: Drill 1/8" pilot holes in the sweep holder and fasten in place with the screws provided.



Installing the Doors

1. Unscrew the center section upper track and set to one side. (Note: this leaves two short sections at each end of the header.)
2. Install both folding doors, first one, then the other, in a manner that the heel of each door is placed on its respective bottom pivot, and then position the top of the door in a manner that it engages the top pivot. As you do, depress upper door pivot and move door into alignment with upper Pivot Block in track. (Pivot will click into place when correctly aligned.)
3. Position the door rollers in a manner that each roller enters the upper track, then fold each door completely so that it's up against the jamb.
4. Reinstall center section of upper track, reconnecting it to the header snap.
5. Adjust doors so that 3/16" is maintained around the perimeter of all doors to each other, jamb and header. (This adjustment will have to be revisited when doors are glazed and blocked.)

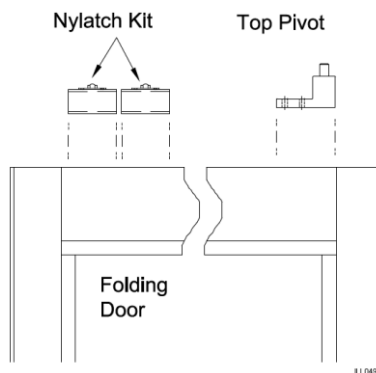
3/16" Gap (Doors, Jambs and Header)



6. Adjust Nylatch® Kit rollers to clear header and snap into header track. (Rollers are designed to secure door in the closed position.)

Note!

Rollers need to be adjusted with just enough tension, to hold the door securely in the closed position, but not so tight as to impede ease of door opening. This adjustment should be checked after the door has been glazed and blocked.



7. Install door "C" handle per customer requirements, locating, marking and drilling holes. (Reference directions packed with kit.) (Through hole $\frac{1}{4}$ "; hole for beauty cap $\frac{31}{64}$ ")
8. Install crash bar to door. (threaded insert hole: $\frac{25}{64}$ ")
9. Adjust doors after glazing and blocked. (Reference [Glazing and Blocking.](#))

Package Final Inspection and Adjustment

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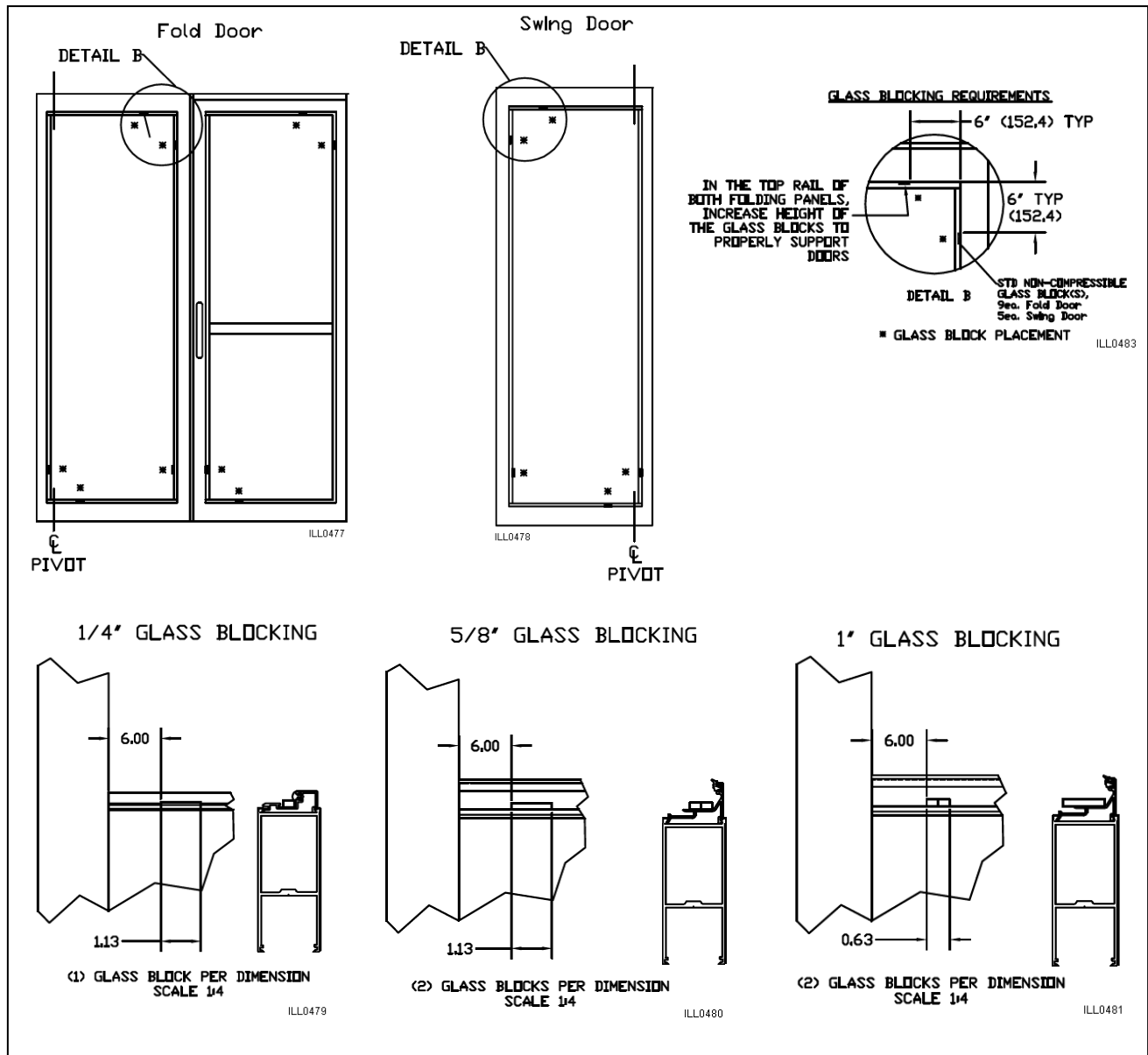
Check clearances with floor and header in both sliding and break-out modes as well as sweep adjustment if applicable.

Dispose of all packing and waste materials in accordance with state and local requirements.

Glazing and Blocking

Install glass using the proper glazing tools. Glass blocks are installed by door manufacturer. Please verify that glass block locations match graphic below. Observe standard glazing techniques when installing glass.

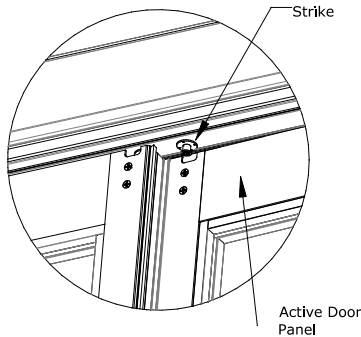
CAUTION: If doors are not square, possible malfunction of doors and alignment issues may occur.



Door Adjustments

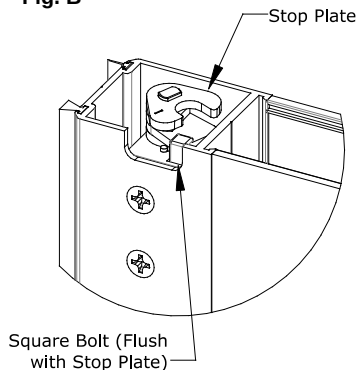
Strike Adjustment

Fig. A



1. After the door is glazed, slowly close door and adjust the strike until it lines up and engages with the top bolt actuator assembly. See Fig. A. (Door strike is located in bottom of header, and top bolt actuator is located in the top of the door. The Strike should be adjusted in a manner that allows the door to be pulled tight across the entire width of the seal.) (Reference directions shipped with assembly.)

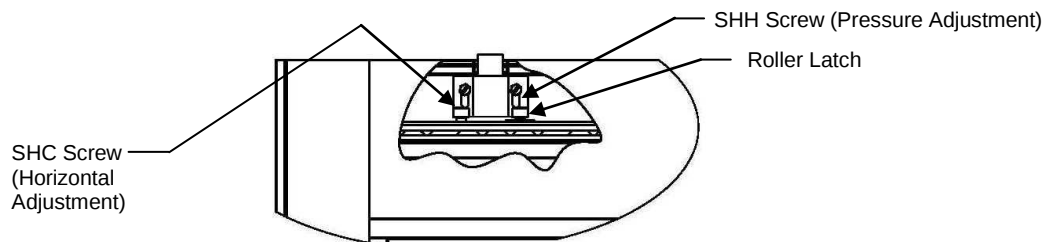
Fig. B



2. If for some reason the door doesn't lock when closed, open the door and check the Top Bolt Actuator assembly located in the top of the door. Adjust Actuator assembly to the locked position. See Fig. B. (In this position, the end of the square bolt should engage the stop plate as shown. (See Fig. B) The square bolt must be flush with the top of the stop plate to 1/16" max. below flush. If adjustment of the top bolt is needed, remove the actuator assembly and adjust the bolt up or down as required and re-install assembly.)

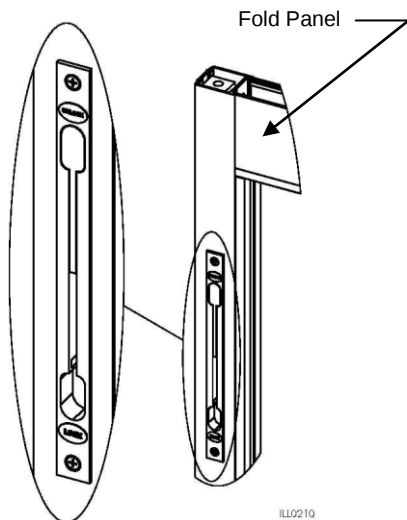
Nylatch Latch Adjustment

1. After door is glazed, slowly close door and check the engagement of the Nylatch roller latch.
2. Check breakout and closing forces and ensure they comply with applicable codes.
3. If pressure adjustment is necessary, loosen the two slotted hex head screws and adjust upwards or downwards as needed. Be sure that the metal housing that surrounds the roller wheel doesn't hit the top seal angle when opening or closing.
4. Horizontal adjustments can also be made by loosening the two socket head cap screws.



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Flush Bolt Adjustment



The flush bolt assembly is factory installed and adjusted, however, operation and function should be checked.

Note!

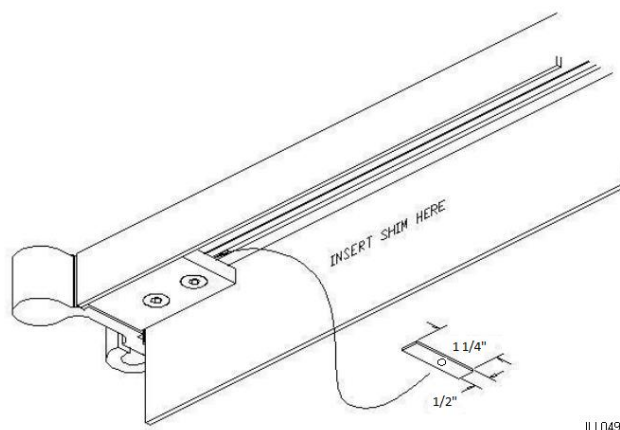
The flush bolt is only found on the fold door.

1. Check operation by moving lever between the "LOCK" to "UNLOCK" positions several times. The lever should move freely without binding.
2. Move lever to the UNLOCK position, and check location of pin in relation to door stile. (The pin should not extend beyond end of the door stile.)
3. Move lever to the LOCK position and measure extension of pin beyond door stile. (The pin should extend from 3/8" to 1/2" beyond door stile.)

Carrier Droop Adjustment

Certain field conditions can cause the Carrier to "droop" or sag upon breakout. This condition is evidenced by poor catch alignment or scraping of the Carrier along the top of the upper rail when the door is broken out.

1. To fix this condition, insert a thin metal shim (Provided with carrier) between the leading edge of the Carrier "L" Bracket and the Carrier, as shown.
2. Observe the alignment of the "L" Bracket to the carrier before loosening the (2) retaining screws.

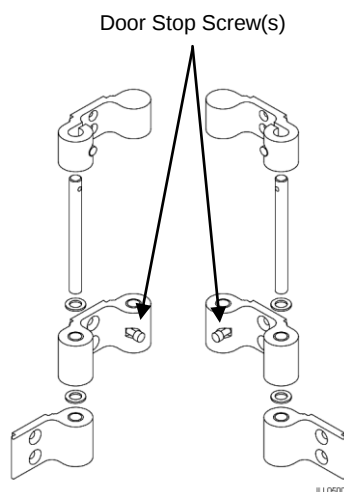


Note!

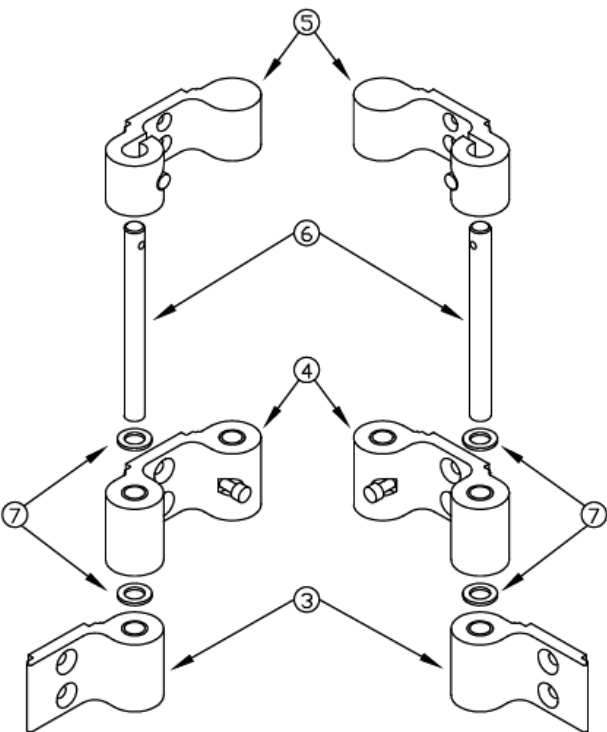
It is possible for poor appearance or re-latching difficulties. It may be necessary to try different shims thicknesses to achieve the best results.

Fold Door Stop Screw Adjustment

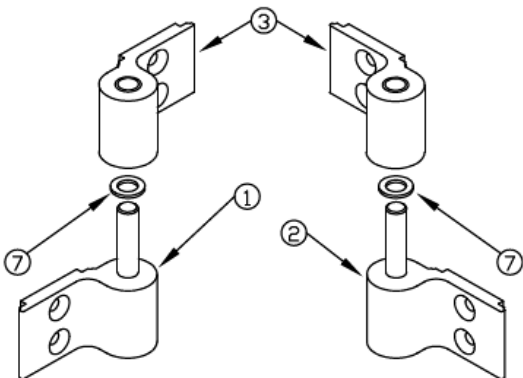
If the fold door needs adjustment to align with the roller track, adjust door stop screw accordingly.



Part Identification and Options



LEFT AND RIGHT OUT FOLD
VERSAMAX FOLD UPPER HINGE ASSEMBLY

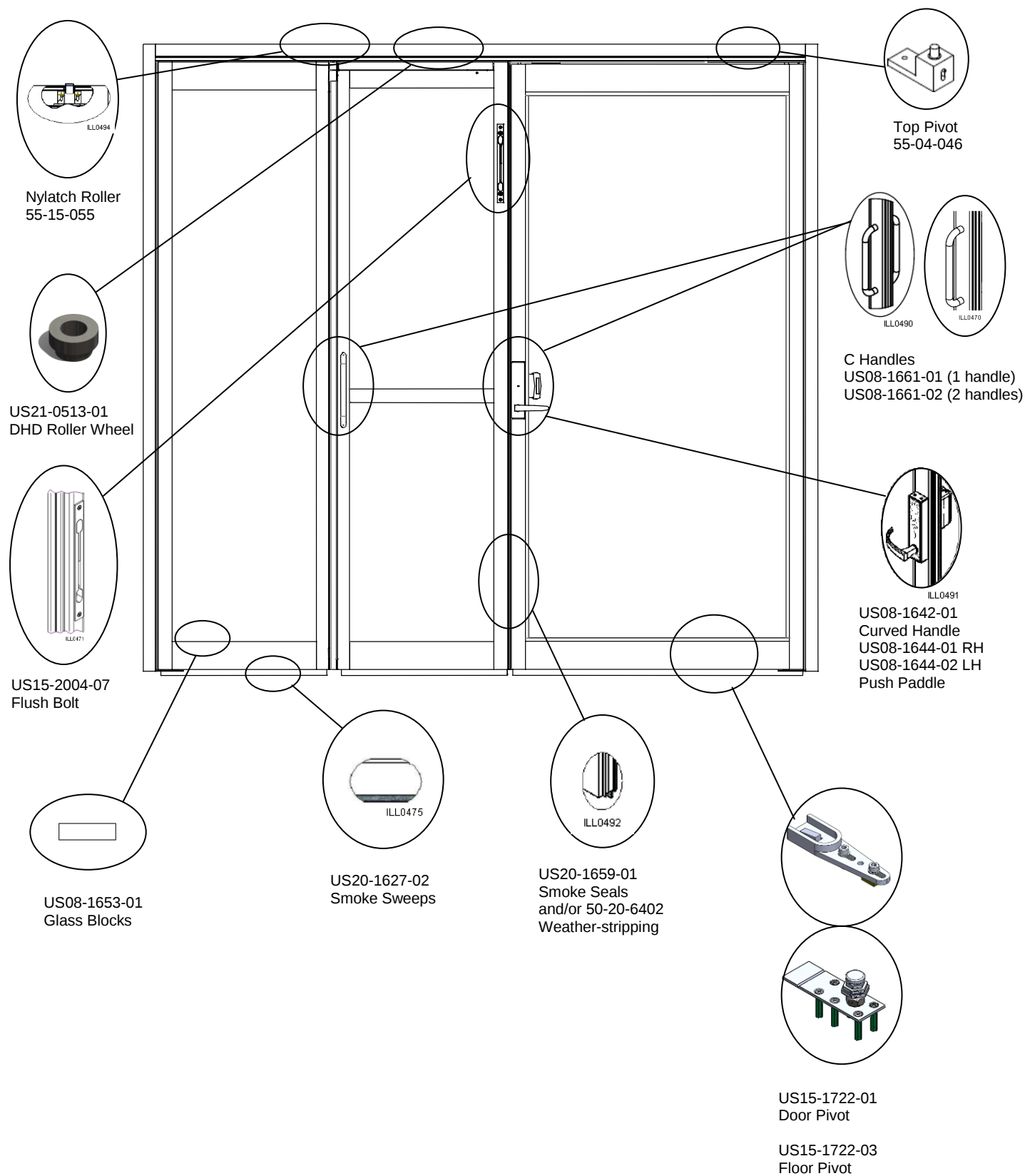


LEFT AND RIGHT OUT FOLD
VERSAMAX FOLD LOWER HINGE ASSEMBLY

ITEM	DESCRIPTION	ASSY/PART #
1	ASSY, SHAFT PIVOT, LH	55-15-123
2	ASSY, SHAFT PIVOT, RH	55-15-124
3	ASSY, BEARING PIVOT, SINGLE	55-15-122
4	ASSY, BEARING PIVOT, DOUBLE	55-15-121
5	ASSY, BEARING PIVOT, CARRIER	55-15-120
6	SHAFT, LONG	55-03-040
7	WASHER, THRUST	US21-1725-01

ILL0497

Part Identification and Options (Continued)



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ASSA ABLOY

ASSA ABLOY Entrance Systems
1900 Airport Road
Monroe, NC 28110
Phone: 1-866-237-2687
SPECDESK.NA.BESAM@ASSAABLOY.COM

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