



Note: Opening should be flashed with the appropriate flashing material to meet industry standards. Please refer to Federal Specification UU-B-790a and AAMA 2400-02.

Engineering is required for header support. Frame header needs to be designed to withstand the dead loads of all panels including glass plus momentum and impact loading since it is a top-hung panel system. Rough opening header must not deflect more than 1/16" when carrying the weight of the panels according to hardware supplier's specifications.

As a standard, we number the panels from left to right (example shown in figure 1), seen from the exterior, for communicating sequence at the time of hanging the panels in the frame on the jobsite.

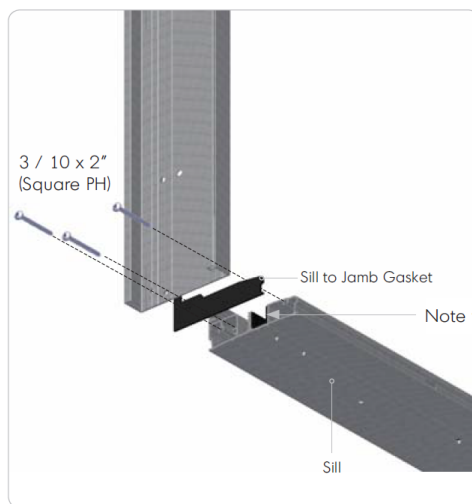


Figure 1

1. Verify that the rough opening is the correct size to assure the door will fit in the opening.
2. Check to ensure that the opening is plumb, level and square.
3. Ensure the head of the Folding Panel System can be securely fastened to the header components of existing structural header beam.
4. Recommended wood framing for opening or a continuous plane of structural wood to maintain stability, ease of fastening and securing.
5. Weigh one panel or Consult quote to determine total weight of Folding Panel System.
6. Remove the frame components from its packaging and lay it out in front of the opening.
7. One or more hardware boxes will be included depending on the configuration of the door.

Frame Installation

8. Assemble frame corners as shown in figures 2a and 2b.



PRE-CAUTION: It is recommended to use screw wax to prevent screw from snapping

Note that track insert is in place prior to screwing sill to the jamb.

Figure 2a

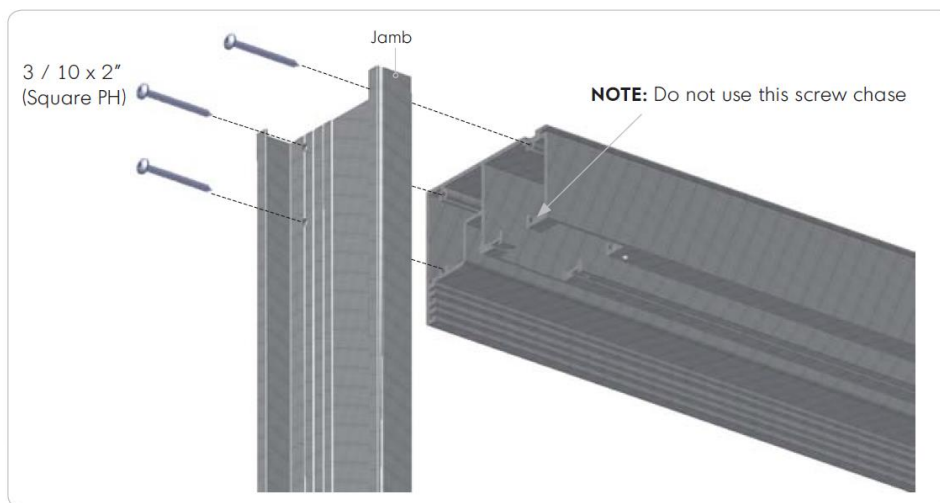


Figure 2b

PRE-CAUTION: It is recommended to use screw wax to prevent screw from snapping

9. Apply horizontal frame seal as shown in figures 3a and 3b.

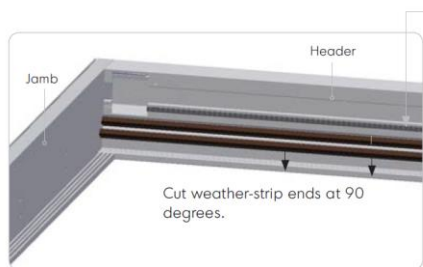


Figure 3a

TIP: In order to insert Weather Seal smoothly, apply paraffin wax in Weather Seal grooves.

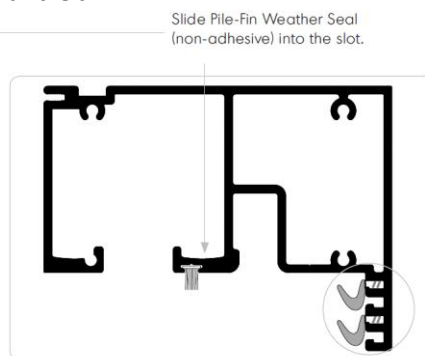


Figure 3b

10. Apply frame weather seal as shown in figures 4a and 4b.

Cut vertical Weather Seal ends at 45 degree angle to match horizontal weather-stripping.

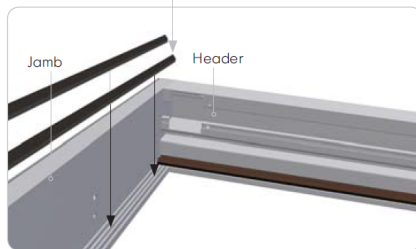
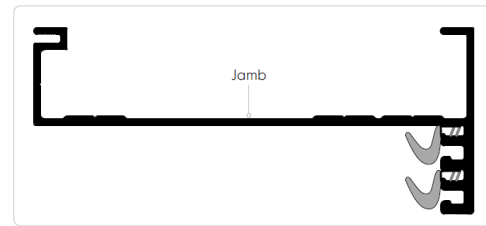


Figure 4a



NOTE: Apply minimal amount of clear silicone between 45 degree angled cut ends and horizontal Weather Seal.

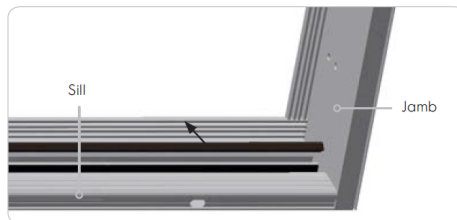
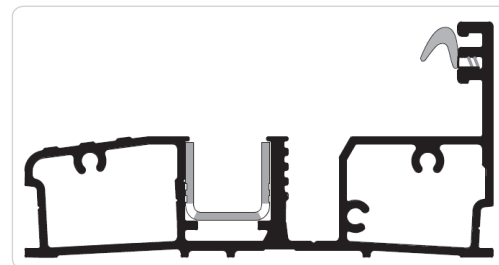


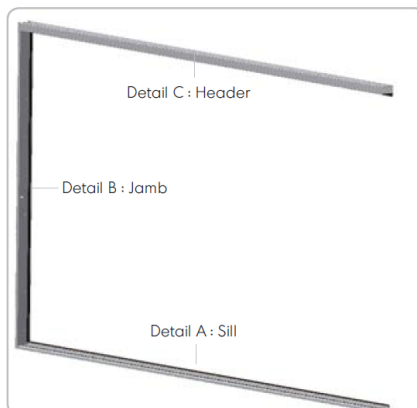
Figure 4b



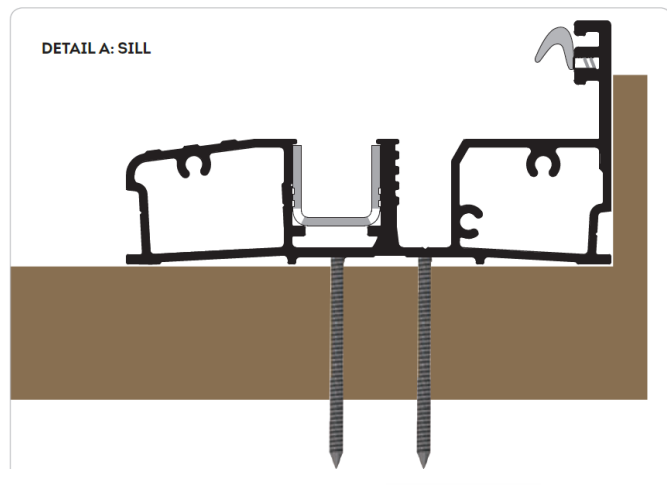
C3 Enhanced and **C3 Storm** apply DS426 Weather Seal on frame.

NO SCALE

11. Insert frame into the rough opening and see details A-C for securing the frame.



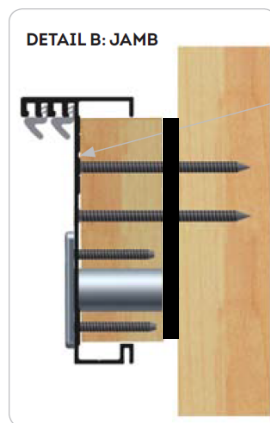
DETAIL A: SILL



Frame Installation Screw
12 x 3" (Square PH)

Note:

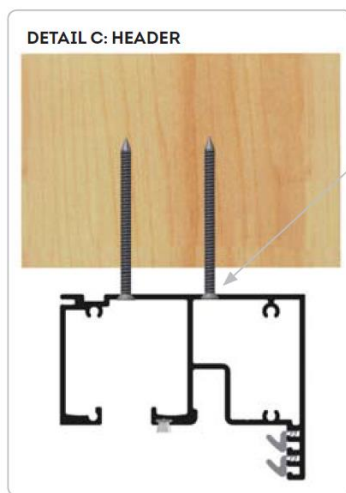
1. Ensure sill is plumb and level.
2. "Sill sag" to be no more than 1/16" (2mm) at center span
3. "Sill bow" to be avoided at any location at the sill
4. Recommended use 12 x 3" square PH screws for installation of frame (not supplied by All Weather)
5. Envelope details are not included in this guide. Please consult with your local building codes.
6. In order to reach enhanced performance (>DP60), use extra screw line located in the shootbolt channel as per images for head / jamb / sill.
7. Seal off all installation screw holes in frame with silicone.



C3 Storm extra installation screw hole

Note:

1. To accommodate for the wall pivot cup, it is recommended to pre-drill a 11/16" (17mm) diameter hole in the rough opening due to the protruding wall cups (12mm)
2. Bow of the jamb to be kept at a minimum of 1/8" (3mm)
3. Recommended use 12 x 3" square PH screws for installation of frame (not supplied by All Weather)
4. Make sure there are shims at the screw points to avoid distortion of the frame.
5. It is recommended to use a continuous board (as alternate apply pieces) that will act as a back-up in the hollow jamb.
6. Seal off backside of middle pivot cup(s) with silicone.



C3 Enhanced/ C3 Storm extra installation screw

Note:

1. 12 x 3" square PH track screw is a suggested screw size only. The final screw used must penetrate at least 1" (38mm) into the rough opening structural header beam that is to carry the accumulative Panel load. The size of the bolt head should not interfere with any carrier wheels.
2. The material used for insulating the shim space should be non-expandable material.
3. Avoid the head from sagging after panels are installed and after full roof load is in place. We recommend installing the header with a slight bow (crown), but not more than 1/8" (3mm) over the full system length.
4. Recommended use 12 x 3" square PH screws for installation of frame (not supplied by All Weather)
5. Make sure there are shims at the screw points to avoid distortion of the frame.
6. Seal off backside of middle pivot cup(s) with silicone.

12. Load the rollers into head track as shown in figure 5, below.

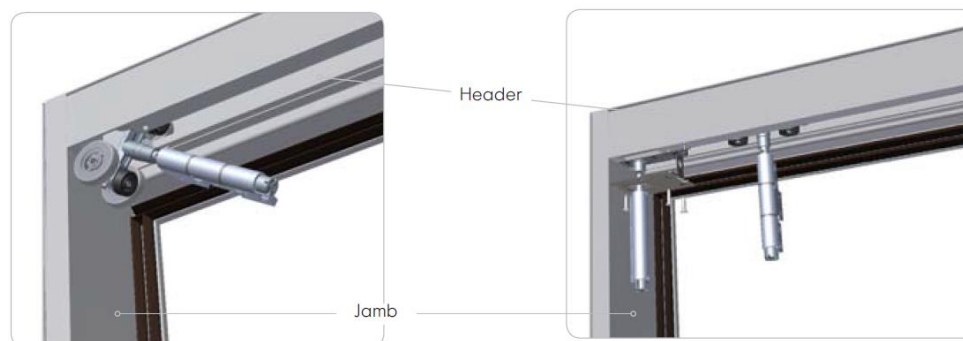


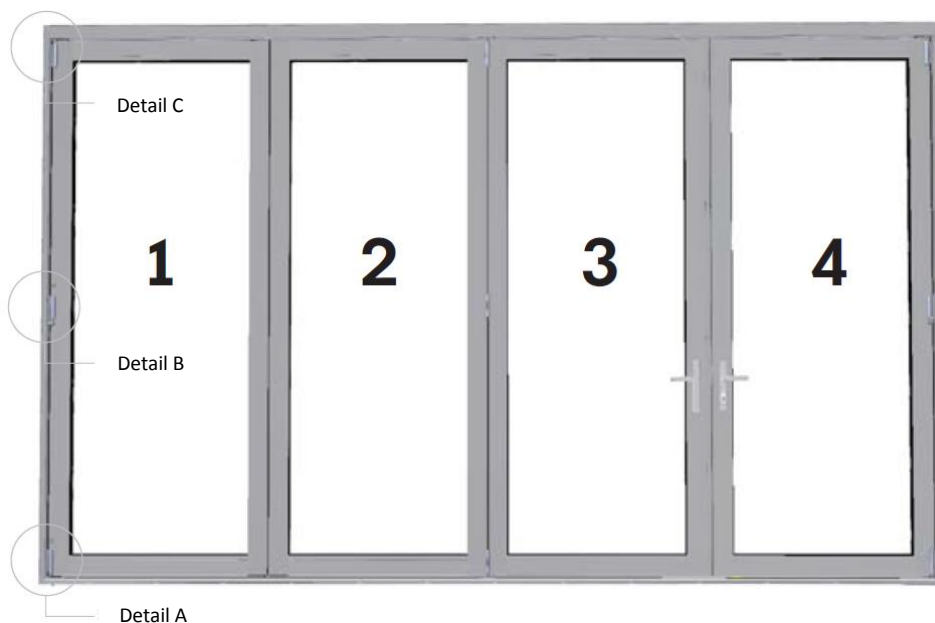
Figure 5

Note:

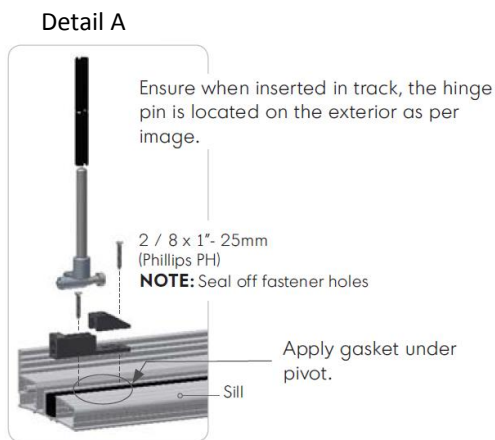
1. Before installing the carriers, ensure that the track is clear of all debris and there is no contamination of metal parts that could restrict Panel movement or damage wheels.
2. Use a clean cloth to lubricate the track and the wheels with a small quantity of white petroleum jelly (Vaseline) not provide by All Weather.
3. Consult the shop drawings and load sequentially to applicable configuration.
4. Load carrier sets through square hole in the track.

Panel Installation

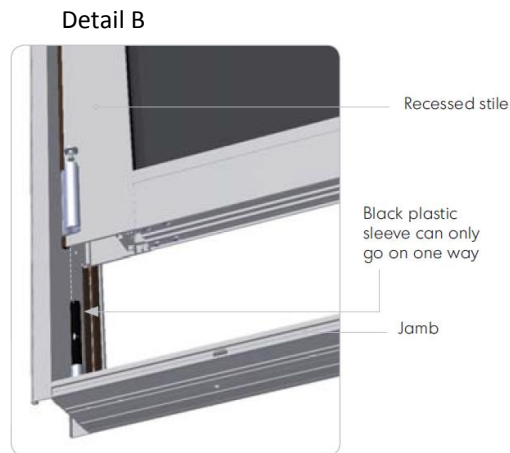
13. Determine panel sequence and follow steps 12a-c for installation of pivot set.



12a. Bottom pivot set placement



12b. Receive panel onto pivot



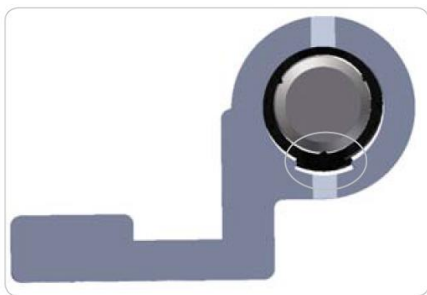
12c. Install cup for wall pivot



NOTE:

1. Seal off holes for Pivot Cups with silicone.
2. Insert the hinge cap into the Bearing Tube first and then slide hinge pin down to engage into wall-pivot cup.

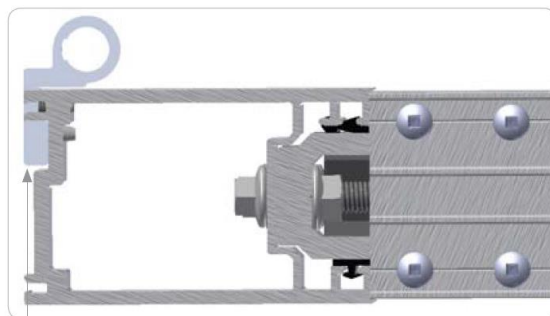
CAUTION: Always support weight of panels with flat/pry bar or similar tool when locating a securing any pivot or carrier vertical adjustment.



NOTE:

To ensure proper operation of Folding Panel System, insert the hinge while aligning the slot in the hinge flap with the rib on the Bearing Tube.

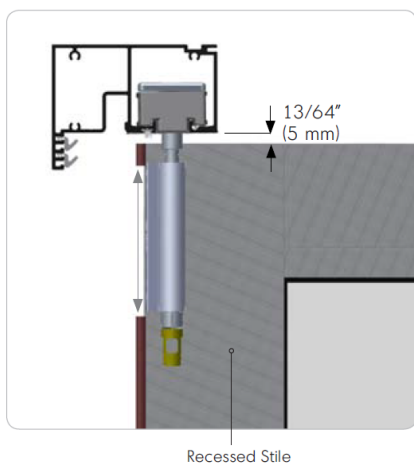
14. Mounting the top wall pivot hinge to 1st panel.



Important hinge consideration:

Position all hinges in a way that one pushes the hinge up as per arrow.

15. Adjust panel height



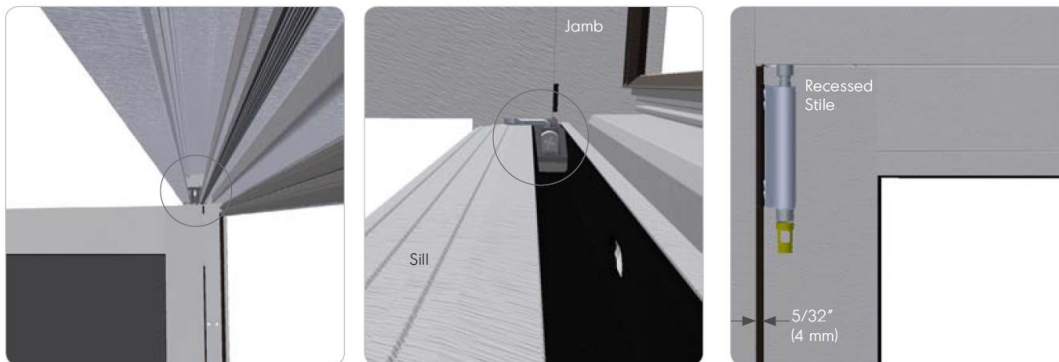
NOTE:

Adjust clearance between top of the panel to bottom of the head track to 13/64" (5 mm) by using a flathead screw driver into the yellow shipping clip.

CAUTION: Always support weight of panels with flat/pry bar or similar tool when locating a securing any pivot or carrier vertical adjustment.

NO SCALE

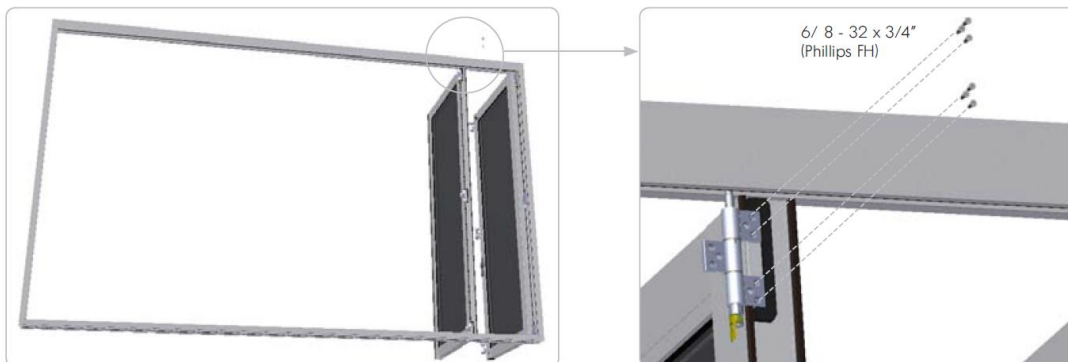
16. Adjust panel reveal with jamb



NOTE:

Adjust clearance between jamb and panel to 5/32" (4 mm) by using a long shafted Phillips screw driver as per image. Clearance dimension is measured when panel is in closed position.

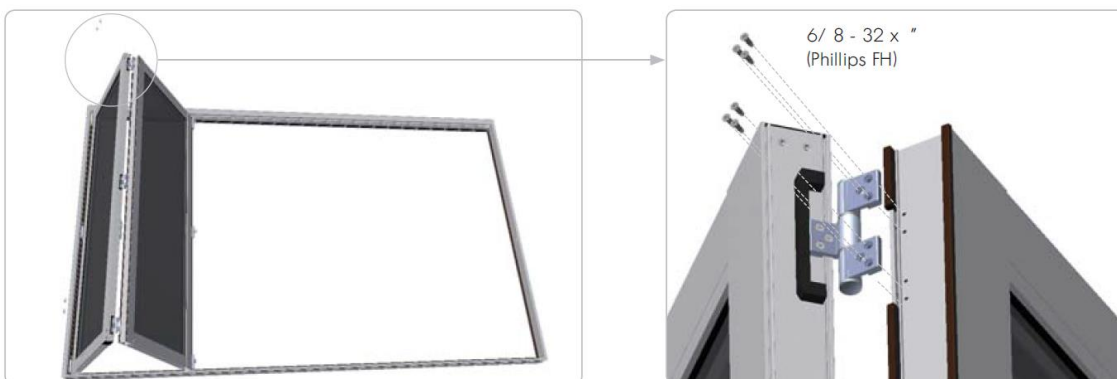
17. Hanging 2nd panel: mounting the top intermediate carrier to 2nd panel



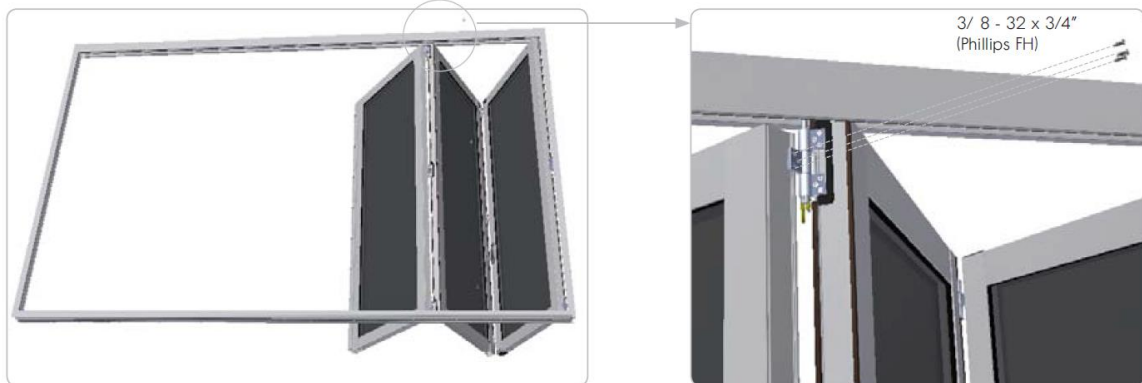
NOTE:

Adjust clearance between top of the panel to bottom of the head track to 13/64" (5 mm) by using a flathead screw driver into the yellow shipping clip.

18. Hanging 2nd panel - Connecting 2nd panel to 3rd panel



19. Hanging 3rd panel: mounting the top intermediate carrier to 2nd panel



20. Hanging 4th panel: repeat steps 12a-12c.