

Table of Contents

I. Tools / Materials, Sealant Requirements, & Anchor Instructions 1
II. Opening, Frame & Panel Verification 2
III. Frame Assembly..... 4
IV. Frame Installation 5
V. Glazing Instructions 8
VI. Additional References 10

I. Tools / Materials, Sealant Requirements, & Anchor Instructions

Tools Required: Tape measure, Level, Shims, Nails, Screws, Sealant, caulk gun, Backer Rod, Scissors or utility knife, drill bit, drive bit and powered drill.

Sealant Requirements

- The sealant referred to within this document for seals associated with the assembly of the product should conform to **AAMA 800-92**. It is recommended that all other sealants should also conform to **AAMA 802-92** but may be a sealant recommended and approved by the sealant manufacturer that is compatible with the framing, finish and surrounding materials.
- The size of all sealant beads must meet or exceed the sealant manufacturers' minimum size requirements.
- Some exterior wall finishes require additional sealing between the perimeter of the frame and adjacent finish wall material. The Owner / General Contractor is responsible for identifying the need for any additional sealant which will be applied by others. Such sealant shall be elastomeric material, with the framing, finish and surrounding materials.

Anchor Instructions

Note: Structural engineer to determine anchor spacing for design load capacity or design pressures.

Frame may be either direct mounted to the opening, mounted onto a continuous wood spacer, anchored to a min. 18 ga. 33 ksi metal stud or anchored to a min. 2x4 no. 3 southern pine wood buck. When anchored to a 2x_ buck or metal stud, no. 10 screws shall be used. When direct mounted or mounted with spacer to block/concrete, 3/16" concrete screws shall be used. See "Recommend anchor table" for embed requirements. Proper material shall be used between all dissimilar materials (block/concrete & aluminum).

Table I: Recommended Frame Anchor Table.

RECOMMENDED FRAME ANCHOR TABLE			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X WOOD FRAME OR BUCK	NO. 12 SMS SCREW	1-1/2"	3/4"
MIN. 18 GA. 33 KSI STEEL STUD	NO. 12 SMS SCREW	FULL	3/8"
CMU / CONCRETE	1/4" CONCRETE SCREW	1-1/4"	2-5/8"

II. Opening, Frame and Panel Verification

Note: Do not use the dimensions on the Rixson installation instructions.

1. Check the measurement of the rough opening and verify that the door frame will fit into the opening. Measure all four sides of the opening to make sure it is 1/2" larger than the doors in width and 1/4" in height.
2. Remove the frame(s) from the packaging and lay it in front of the opening. Check door net frame width and height dimensions.

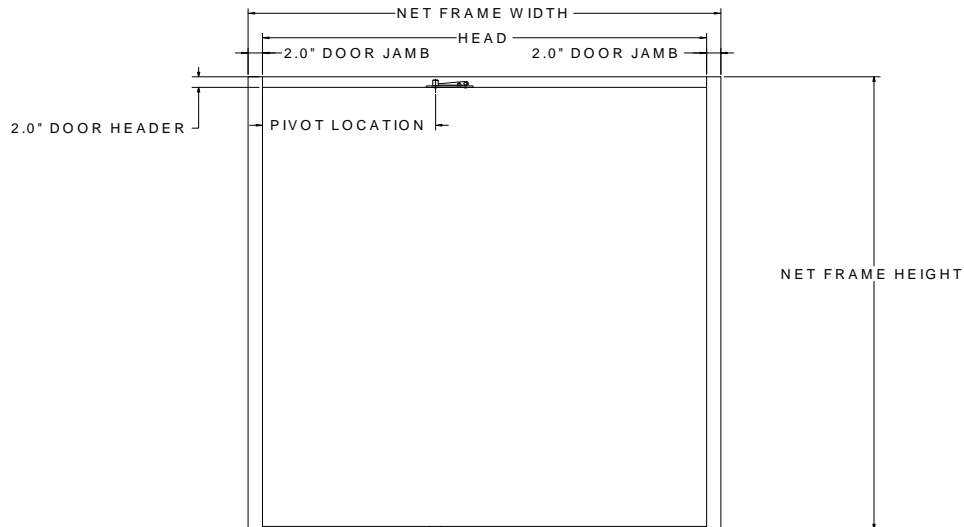


Figure 1:
Opening Verification

3. Verify the opening is plumb and level.

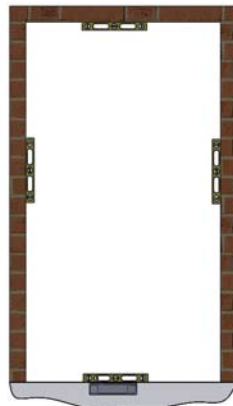


Figure 2:
Level Locations

4. Verify location /dimension of cement case opening (see Figure 3 & Table II).
5. Install cover plates to closer (Skip this if use of threshold).
6. Set the closer into the floor and level it. Closer is to be installed parallel with center line of door and flush to the floor (Figure 4).
7. Measure dimension of "A" as specific from opening to the spindle center (see Table II).
8. Set closer surface flush with the finished floor.
9. Place the sill into the opening and determine any leveling that must be done prior to installation.
10. Shim as necessary to stabilize the entire depth and length of the sill. No unsupported width of more than 8" is allowed. Shims to be load bearing, non-porous, non-absorbent and inorganic.
11. If more that 1/8" shim height is required, it is recommended that pouring self-leveling "Rock Hard" (or equal) to achieve level and stable surface.

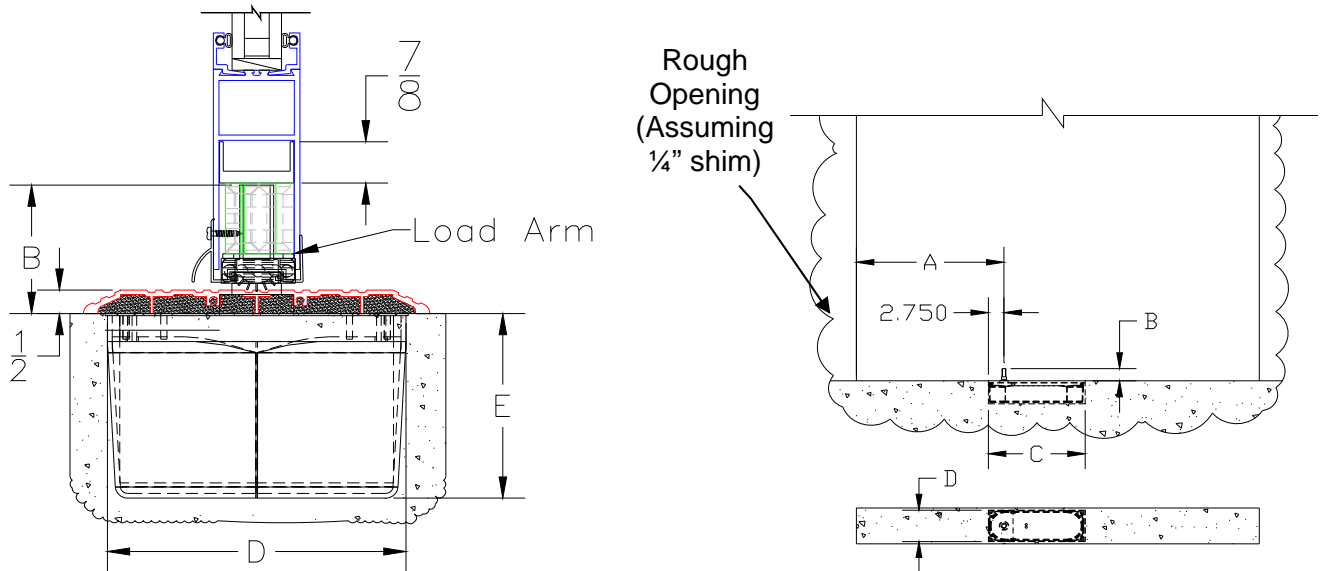


Figure 3:
Frame, closer, pivot opening.

Table II: Pivot Location, Floor Closer & Pivot Set Dimensions.

DOOR TYPE	DIMENSION "A"	DIM. "B" Ref. only	DIM. "C" *	DIM. "D" *	DIM. "E" *
RIXSON CLOSER MODEL H40-587	P. L. (PIVOT LOCATION) +2.375	~2.375	17.250	6.125	4.063
RIXSON CLOSER MODEL H28-587	P. L. (PIVOT LOCATION) +2.375	~2.375	11.375	6.125	4.063
RIXSON PIVOT SET H117 3/4 - 587	P. L. (PIVOT LOCATION) +2.375	~2.375	6.50	5.50	2.375

* Hole rough opening: add a minimum 1.0" around the closer (& pivot set) for cement or equivalent back fill.

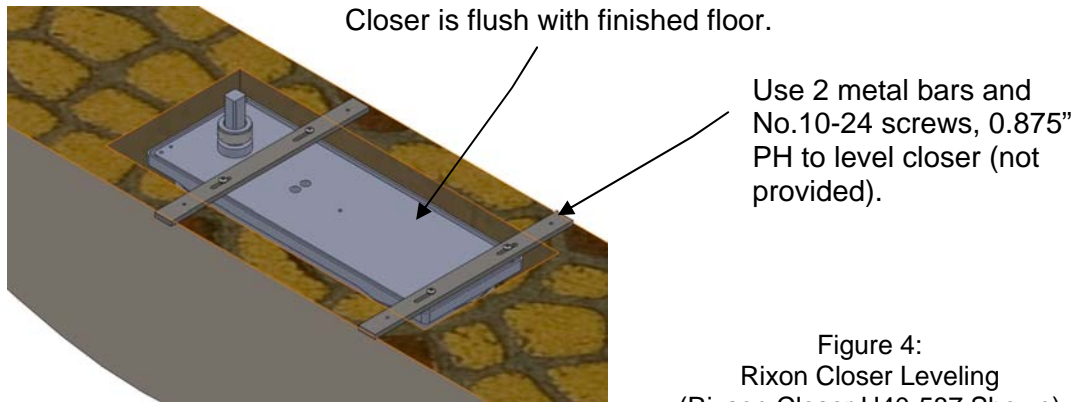


Figure 4:
Rixon Closer Leveling
(Rixon Closer H40-587 Shown)

III. Frame Assembly (When frame is received unassembled)

Note: Failure to assemble the frame according to the installation instructions, nullifies warranties related to this product.

- Apply a compatible sealant to the corners of the frame. Assemble the frame with screws provided (Figure 5).
- Install flat snap in fillers to back of jambs.

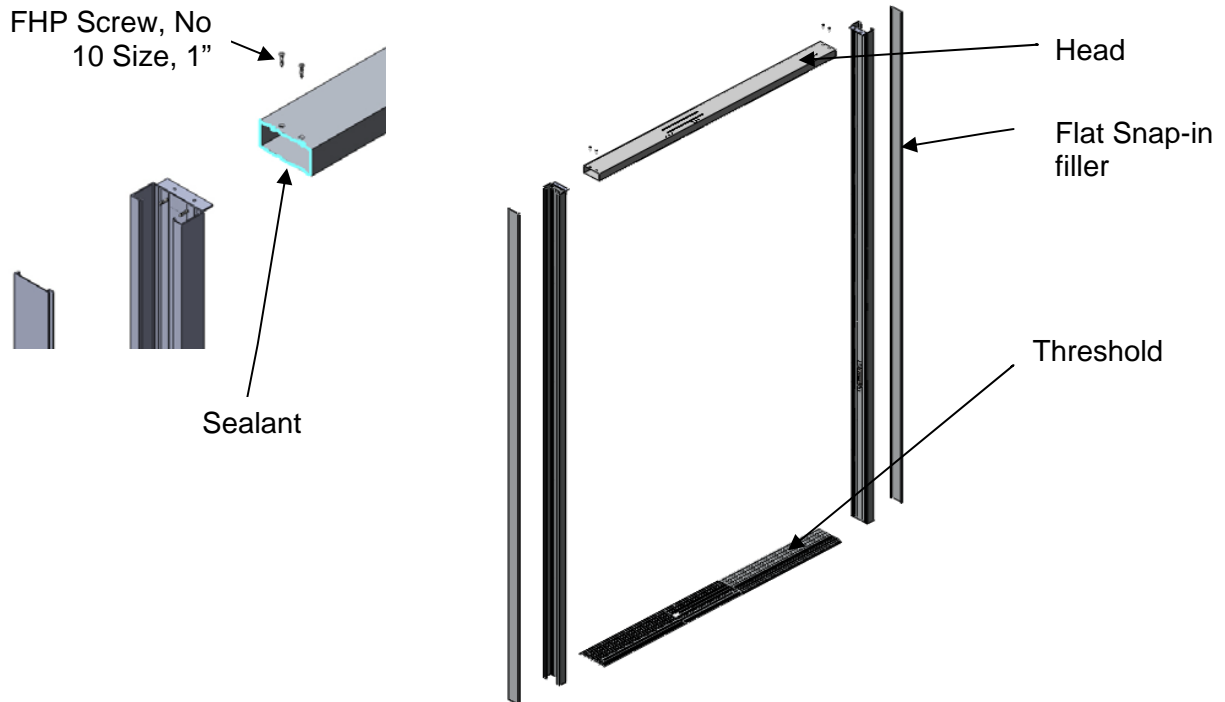


Figure 5:
Assembled Outer Frame
(Three pcs. of Threshold shown)

IV. Frame Installation

1. Seal frame and vent joints completely with compatible sealant.
2. Insert the frame into the opening and set the sill in a full bed of sealant (Figure 6). Do not apply sealant near bearing area of floor closer. Cross-measure and adjust as necessary to achieve a plumb square and level condition, as well as an even reveal around the framed opening. Shim with non-porous, non-absorbent, inorganic shims where needed. Seal all fastener heads with compatible sealant.

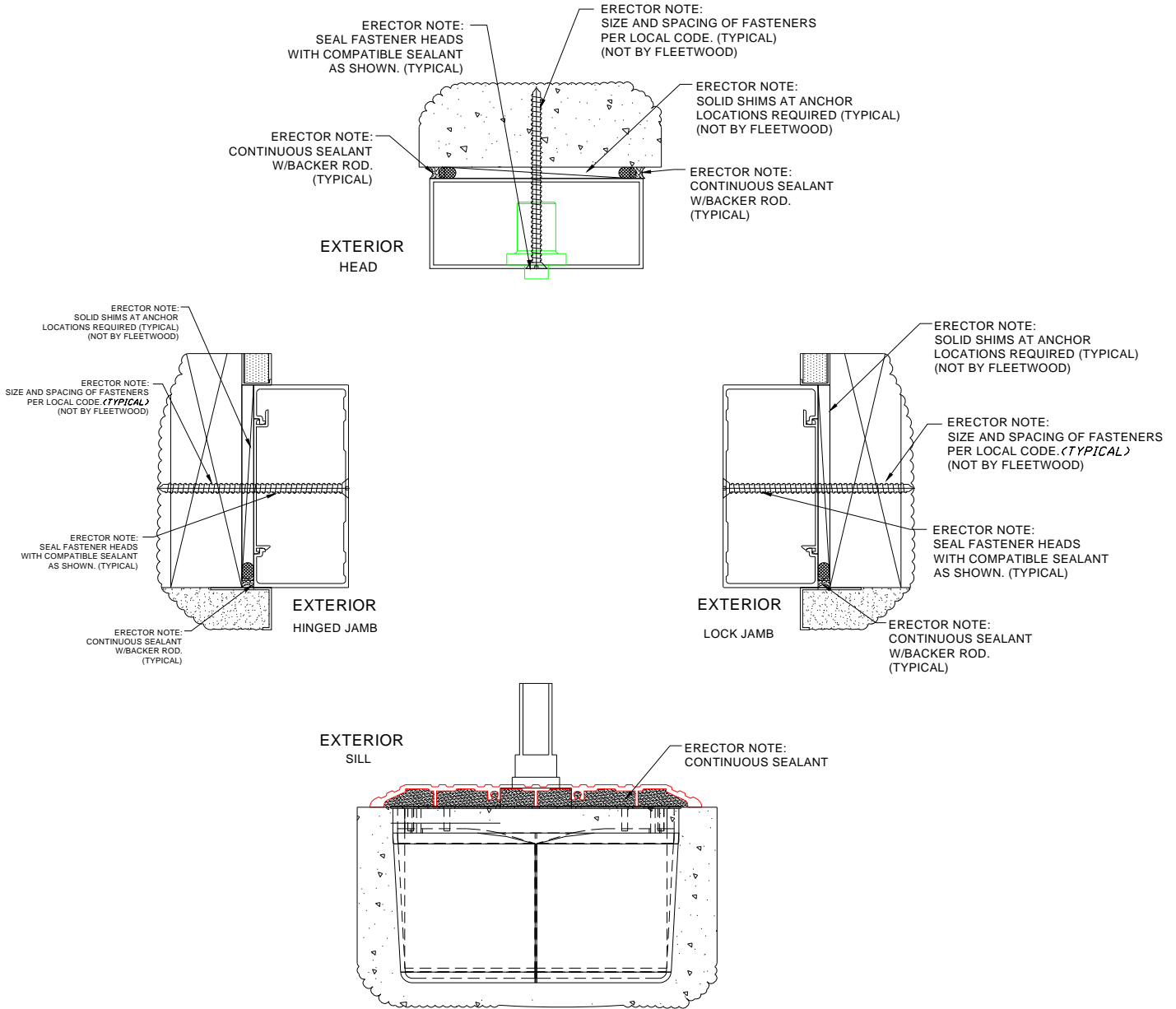


Figure 6:
Frame Installation

- Use a plumb line to center top pivot pin with center of closer spindle.

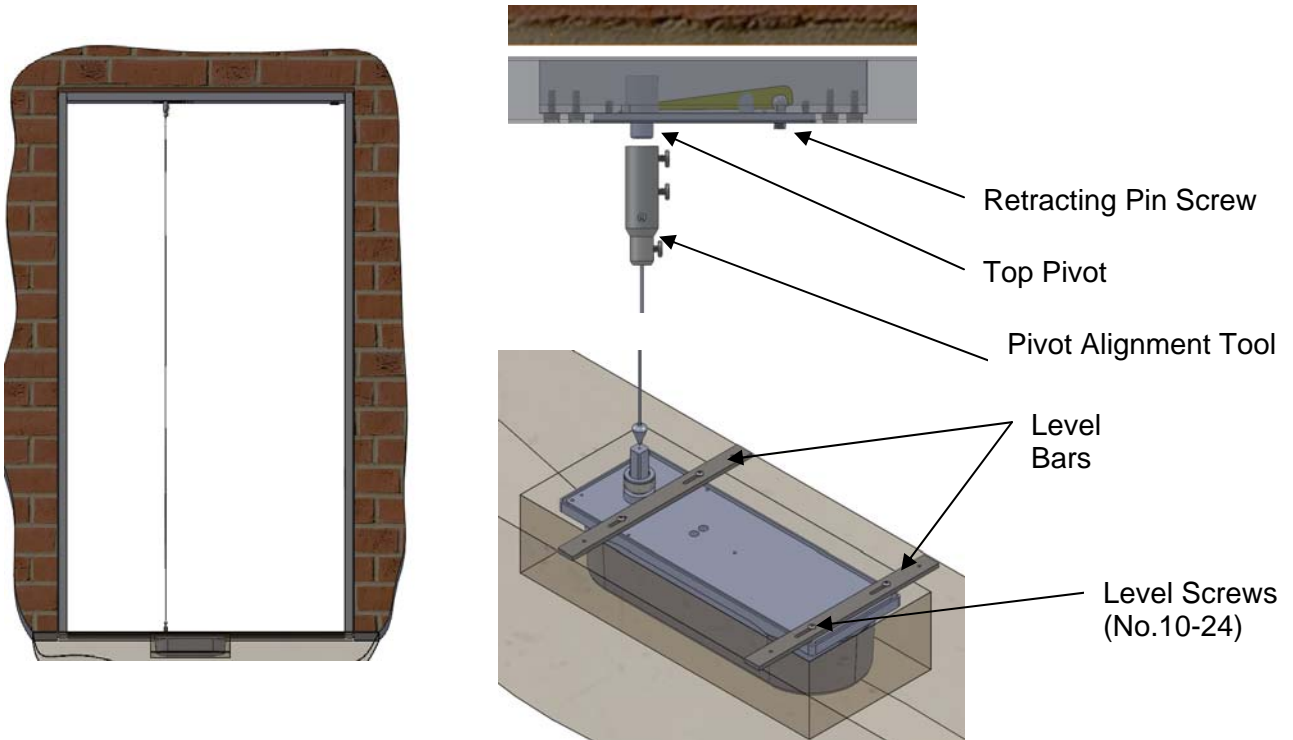


Figure 7:
In-line Verification

- Anchor Location and Sealant

Frame installation anchors furnished by installer, not by Fleetwood. Stainless steel screws are recommended. (See frame Anchor Recommended Table I, page 1). Fleetwood recommend countersink for all frame anchors.

- **Head** – Frame anchors spaced 6" from ends and then evenly spaced according to load requirement. .
- **Jambs** – Frame anchors spaced 6" from ends and then evenly spaced according to load requirement.

- Grout in closer with cement or equivalent. **Continue step # 6 when cement is cured.**

- Retract top pivot pin by turning retracting pin screw counterclockwise (Figure 7). Install washer & thrust bearing to spindle (Figure 8).
- Slide down door on spindle and attach arm cap but do not tighten (Figure 8).
- Turn door with spindle 30 degrees or more.
- Line up two portions of top pivot and turn pin retracting screw clockwise (Figure 9).
- Tighten arm end blocks screws and install load arm cover plate.
- Rotate the panel open to install the thresholds (3 pcs).
- The installer is responsible for the integrity of all framing joints after installation and must therefore **water** test all joints to guarantee a completely sealed product. Apply joint sealer and/or sealant necessary to ensure watertight joints. Retest as necessary.

13. To complete the installation, apply backer rod and a complete bed of sealant to the entire exterior and interior joint between the frame and the building structure. Tool the sealant to eliminate bubbles, voids and / or breaks and ensure a completely watertight seal (Figure 4).

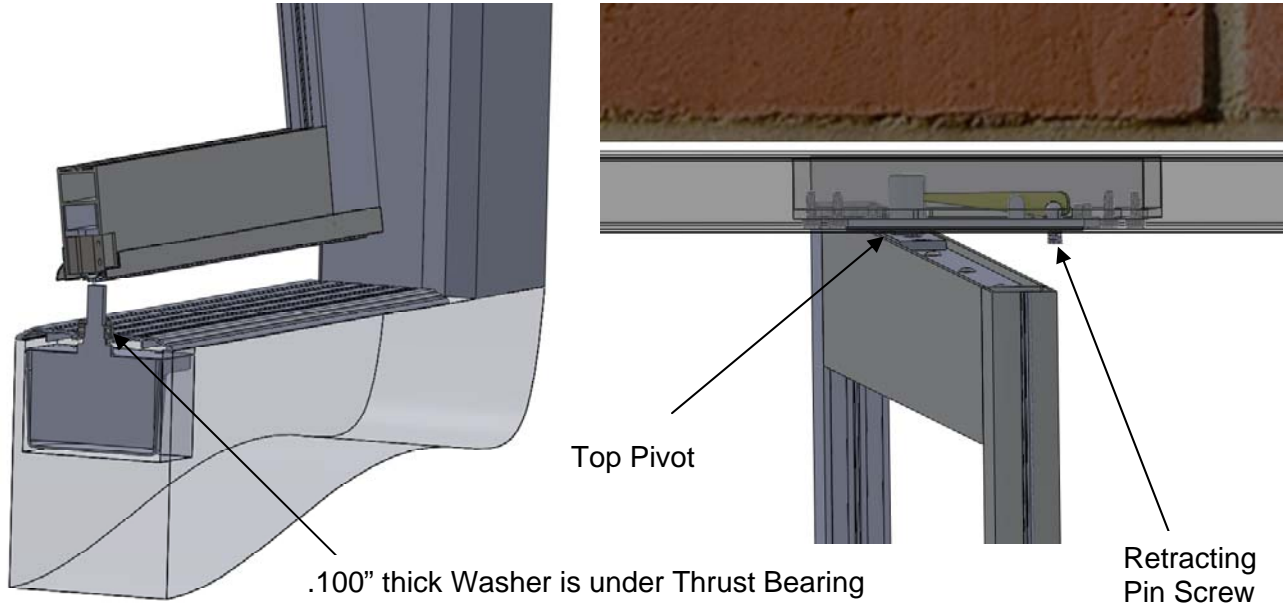


Figure 8:
Washer Location

Figure 9:
Top Pivot Locking

V. Glazing Instructions per Glass (Skip this if panel is factory glazed).

- a. Remove the exterior precut glass stops from the frame, making sure to note the location from which each has been removed. Each stop is hand cut for a specific location of the frame and must be returned to the same location after glazing process.
- b. Insert two setting blocks into the head / bottom at the quarter points (Figure 10).
- c. Insert glass three setting blocks per jamb. One at 2" from corner and one at center.
- d. Before glazing, apply a continuous bead of sealant to the inner stops as shown in Figure 10.
- e. Insert glass to panel.
- f. Finish assembly by inserting the two horizontal glass stops then install the two vertical glass stops.

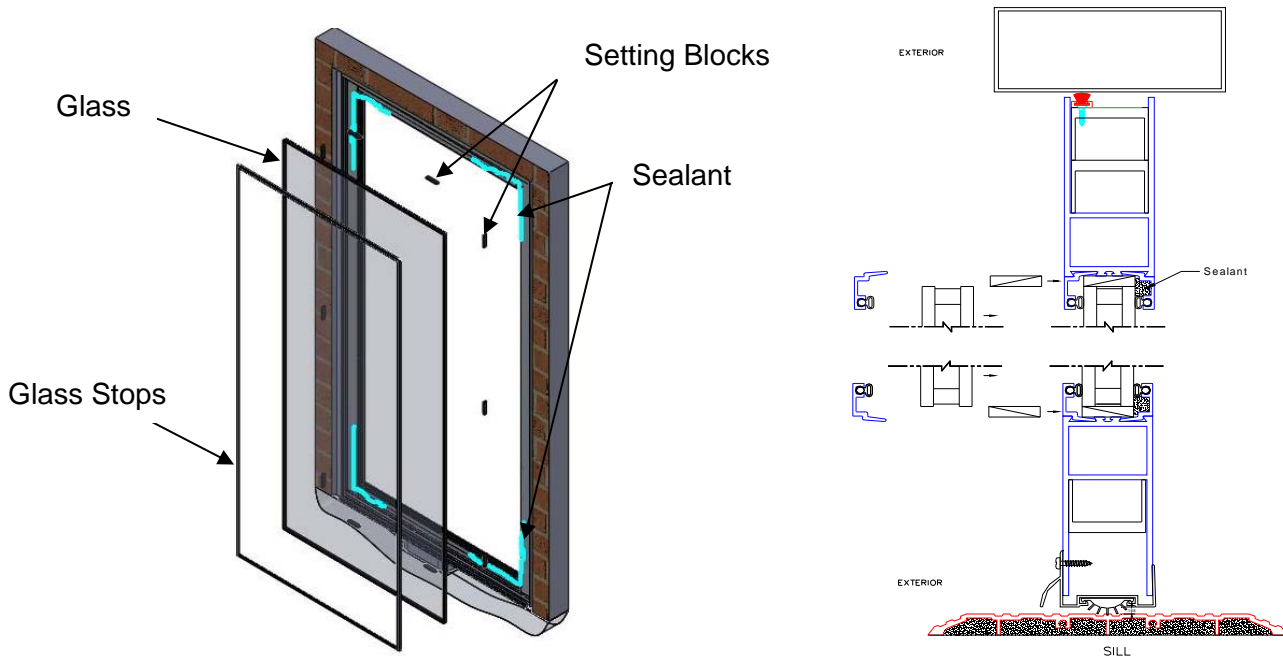


Figure 10:
Glazing Illustration

VI. (Optional) Screw-on Door Stop and Cap Installation.

1. Cut **Exterior** Pieces, Screw-on Door Stop Cap, and Mini Bulb Vinyl to size.
 - a. Cut length = Panel Height - 1"
2. Cut **Interior** Pieces, Screw-on Door Stop Cap, and Mini Bulb Vinyl to size.
 - a. Cut length = Panel Height - 3/4"
3. Slide Mini Bulb Vinyl into the screw-on door stop and crimp both ends to prevent bulb vinyl from sliding.
4. Holding the door stop in place, pre-drill with #25 drill bit through both door stop and jambs 6" from each end, 24" on center maximum.
5. Fasten using No. 10 pan head phillips with "A" point, 1" long, SS Clear sheet metal screws into pre-drilled holes.
6. Snap-in the screw-on glass stop cap.

- Optional: using a #25 drill bit and 82° countersink, drill and then countersink for 3 No. 10 flat head Phillips with “A” point, 1-1/2” long, (SS clear (ID# 20295) or black (ID# 20296)) screws to secure cap to the screw-on door stop (Figure 10).

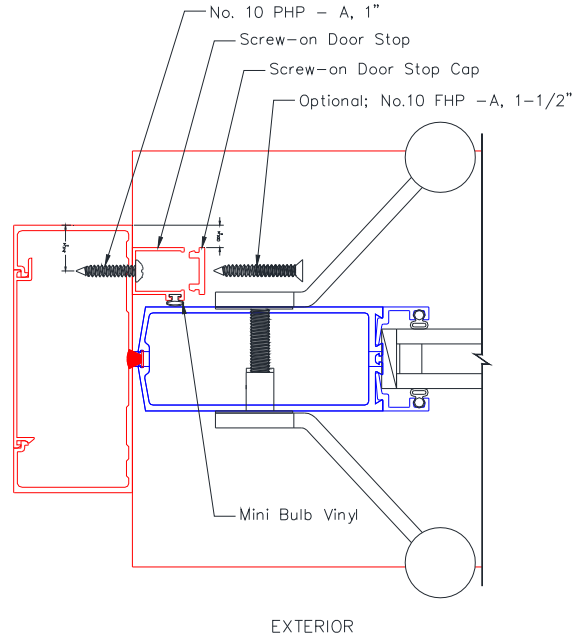


Figure 10:
Screw-on Door Stop and Cap. Installation

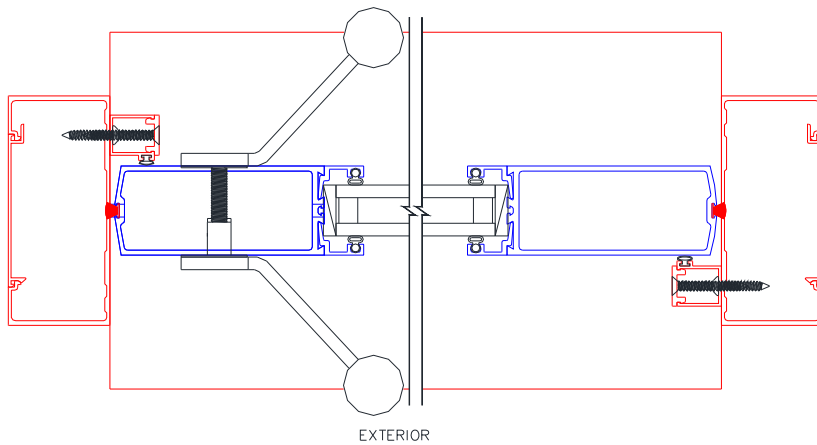


Figure 11:
Screw-on Door Stop and Cap. Installed

VII. Additional References:

Sample installation instruction video:

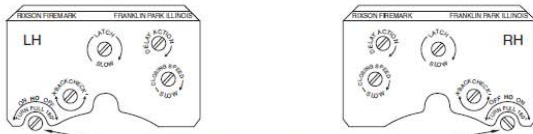
<https://www.youtube.com/watch?v=9bOtpwgSsuQ&feature=youtu.be>

Replacing A Rixson Floor Closer

<https://www.youtube.com/watch?v=aKwpdBrH9-M&feature=youtu.be>

Closer Adjustment

PAGE 4

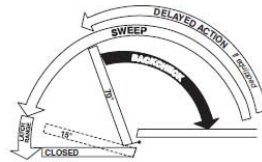


This Set Screw is On Selector Hold-open Types Only

Closing speeds can be adjusted to suit local conditions and requirements. Label on closer face designates the purpose of each adjustment screw. Adjustments are for speed control.

Do not use Backcheck as deadstop. This is an intensity valve not speed control.

- The Delay Action valve allows adjustment from full open to 65° closed position. (Optional)
- The Closing Speed valve allows adjustment from full open to 15° on units without the Delay Action feature.
- The Closing Speed valve allows adjustment from 65° to 15° closed position on closers with Delay Action feature.
- Latch valve allows adjustment from 15° to closed position.
- Important: Backcheck adjustment must be adjusted to vary resistance from light to firm at 60° of door open.



Closer Type

This closer is one of three types as follows:

- Non hold-open factory set. No hold-open adjustments.
- Automatic hold-open factory set. No hold-open adjustment.
- Selective (on-off) hold-open label will indicate position of on-off selector screw. When turned "on", closer has automatic hold-open; turned "off", hold-open will not function. Turn full 180°.

Spring Power Adjustments

This closer can be adjusted for increased or decreased spring power.

These adjustments if required should be done by an authorized repair agency.

Repairs, parts replacement or internal adjustments must be done by a Rixson authorized repair agency. Consult www.rixson.com for an authorized repair agency in your area.

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Rixson Specialty Door Controls

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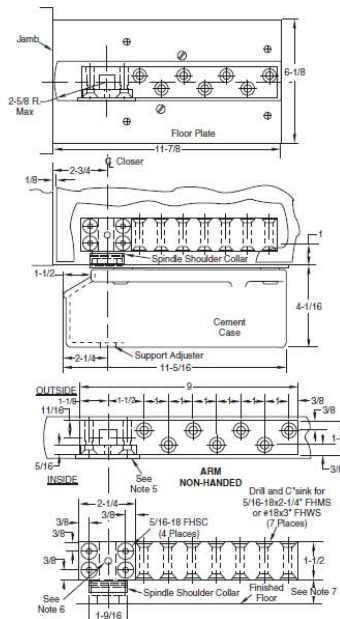
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Installation Instructions

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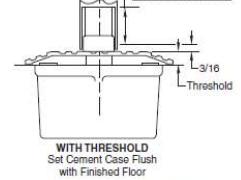
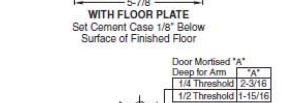
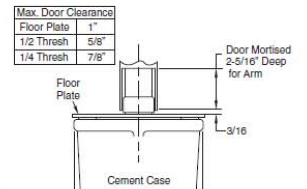
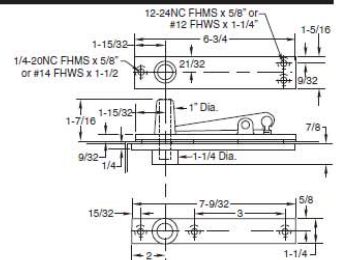
Template



- Notes:**
- Do not scale drawing.
 - Suitable reinforcing by others.
 - Rixson design threshold available on request.
 - For wood doors predrill arm and top pivot holes to prevent splitting.
 - Door must have removable panel (by others) for access to arm screws. Removable panel must be on inside of door.
 - Drill and tap for #8-32 machine screw, centered (screw by others).
 - All dimensions given in inches. Conversion from inches to metric: inch x 25.4.

H28 x 587 Arm Floor Closer

Center Hung Single Acting – Handed
H340 Top Pivot – Non Handed



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