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I. Care and Maintenance

This product is factory finished. Please handle with extreme care. Protect all exposed surfaces from contact with caustics, corrosives, solvents, abrasions, impacts, wet packing material etc.

FAILURE TO DO SO WILL NULLIFY THE WARRANTY. Before **ANY CLEANING**, review the Care & Maintenance Instructions (go to www.fleetwoodusa.com for more information).

Contact the local dealer with any questions or concerns. Fleetwood strongly recommends that all products be cleaned after installation and totally protected from construction debris and equipment.

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

Tools Required: Tape measure, Level, Shims, Nails, Screws, Sealant, caulk gun, Backer Rod, Scissors or utility knife, hex keys, 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 800-16**. It is recommended that all other sealants should also conform to **AAMA 802-16** 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 (i.e. block/concrete & aluminum).

III. Sub-Sillpan opening verification (skip if no Sub-Sillpan)

Table 1: Sub-Sillpan Framing Dimensions

Model	A	B		C		D	E	F	G	
H40	N.F.W. + 1.00"	3.94"	6.94" Sillpan Tabs	4.25"	2.75" Sillpan Tabs	Pivot Location -1.50"	19"	A - (D+E)	8.19"	9.69" Sillpan Tabs
H28							13.63"			
Pivot Set							8.5"			

For additional dimensions see Appendix A.

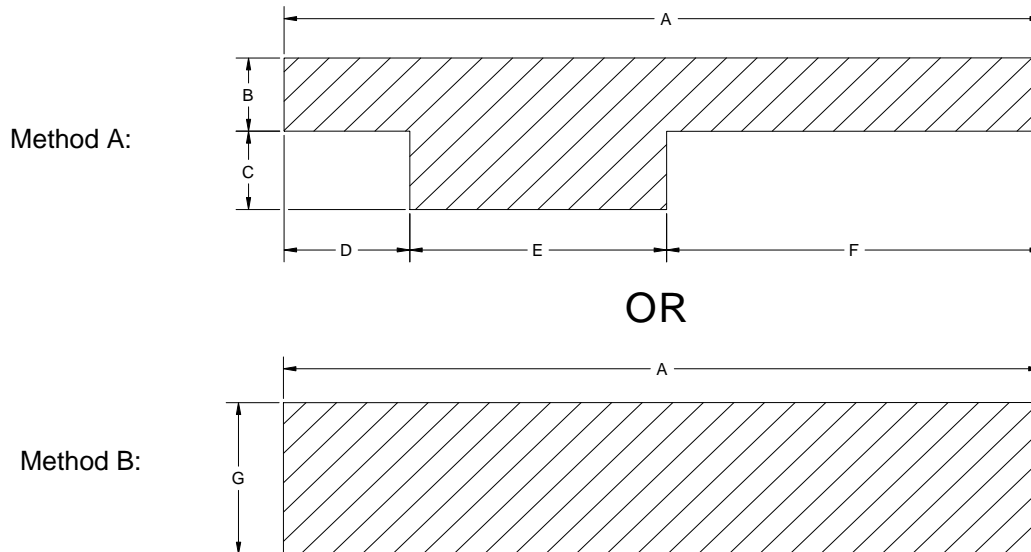
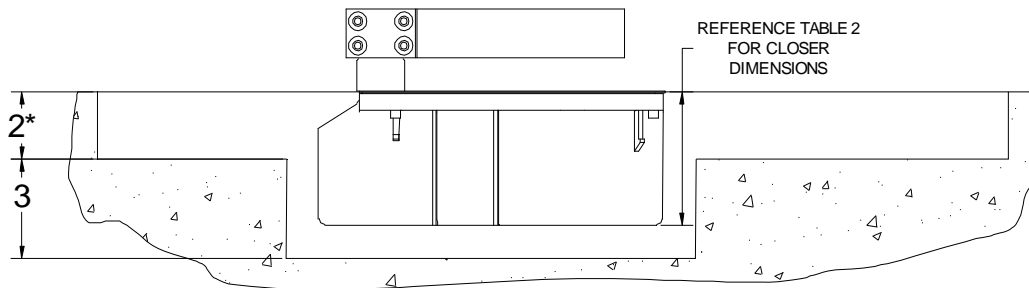


Figure 1:
Sub-Sillpan Framing (Top View)



* Minimum depth required for Sub-Sillpan and Rixson closer. Additional depth may be required for drainage. Side drains sit $\frac{3}{16}$ " below bottom of Sub-Sillpan

Figure 2:
Rixson Sub-Sillpan Opening (Side View)

IV. Frame Assembly

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

- Prior to Frame assembly the decision must be made to include door stops on the door.
- Slide door stops into the head and jambs according to the orientation of the door.
- Using a clamp hold the door stops to the frame element and drill from the backside of the frame into the first wall of the door stop. Attach with #6 PHP Screw, 1.25".
- Apply a compatible sealant to the corners of the frame. Assemble the frame with screws provided (Figure 3).

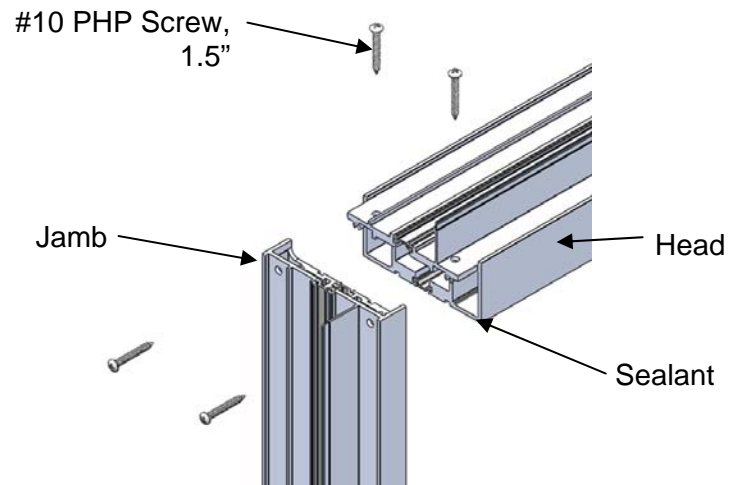


Figure 3:
Frame Assembly

V. 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 and sub-sillpan 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 4).
3. Verify the opening is plumb and level (Figure 5).
4. Verify location / dimension of cement case opening (see Figure 10 & Table 2).

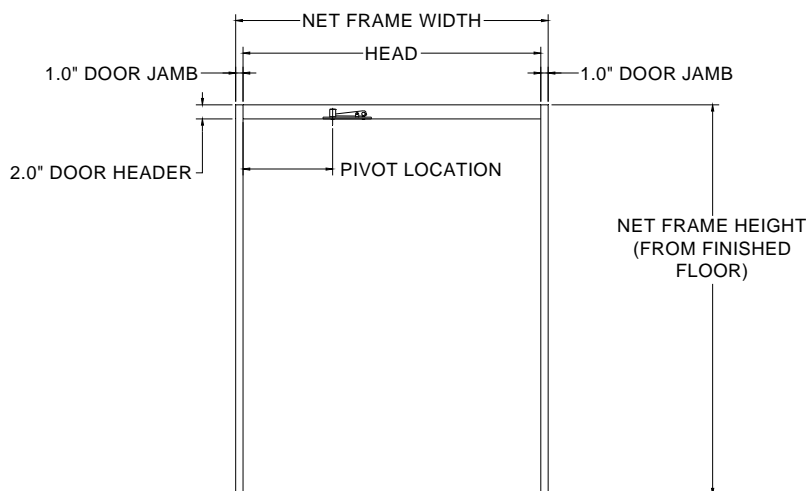


Figure 4:
Opening Verification

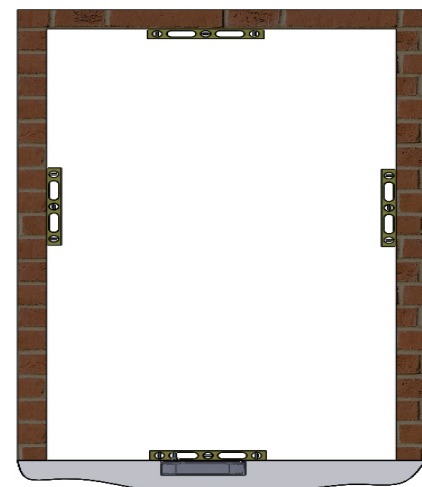


Figure 5:
Level Locations

VI. Frame Installation

1. Place the sill into the opening and determine any leveling that must be done. Shim as necessary to stabilize the sill. No unsupported width of more than 8" is allowed. Shims to be load bearing, non-porous, non-absorbent and inorganic.
2. If more that 1/8" shim height is required, it is recommended to pour self-leveling "Rock Hard" (or equal) to achieve level and stable surface.
3. Insert the frame into the sub-sillpan. Cross-measure and adjust to achieve a plumb square and level condition. Shim where needed. Seal all fastener heads with compatible sealant.
4. Secure Top pivot to header with #10 screw min. 4" long (not by Fleetwood). See Figure 6 for illustration.

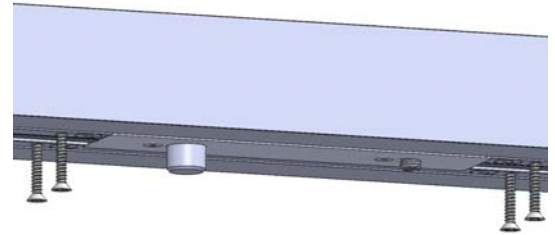


Figure 6:
Securing Top Pivot (Block Frame Shown)

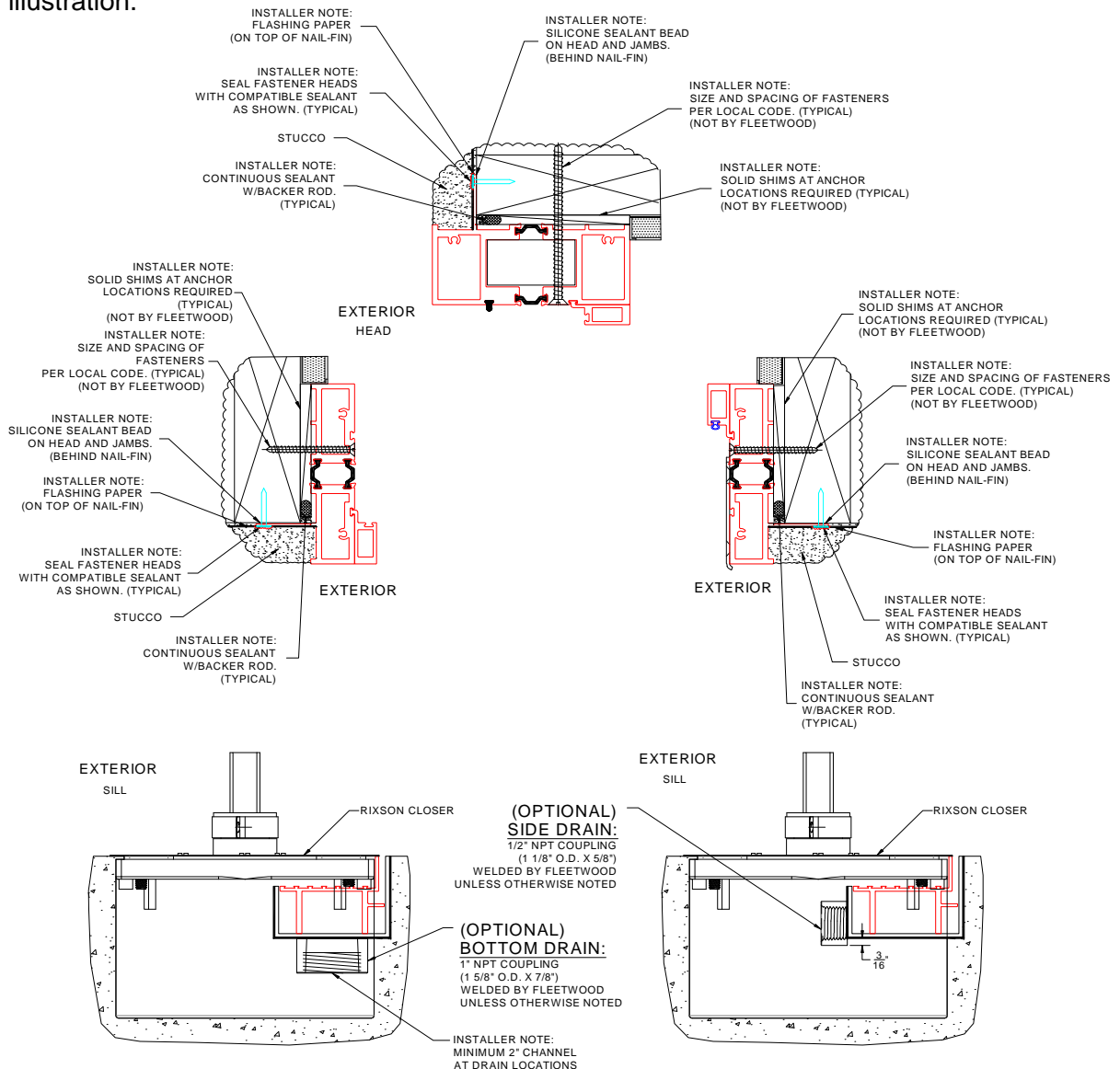


Figure 7:
Rixson Nail-fin Frame Installation

Series 4400-T

RIXSON CLOSER INSTALLATION INSTRUCTIONS

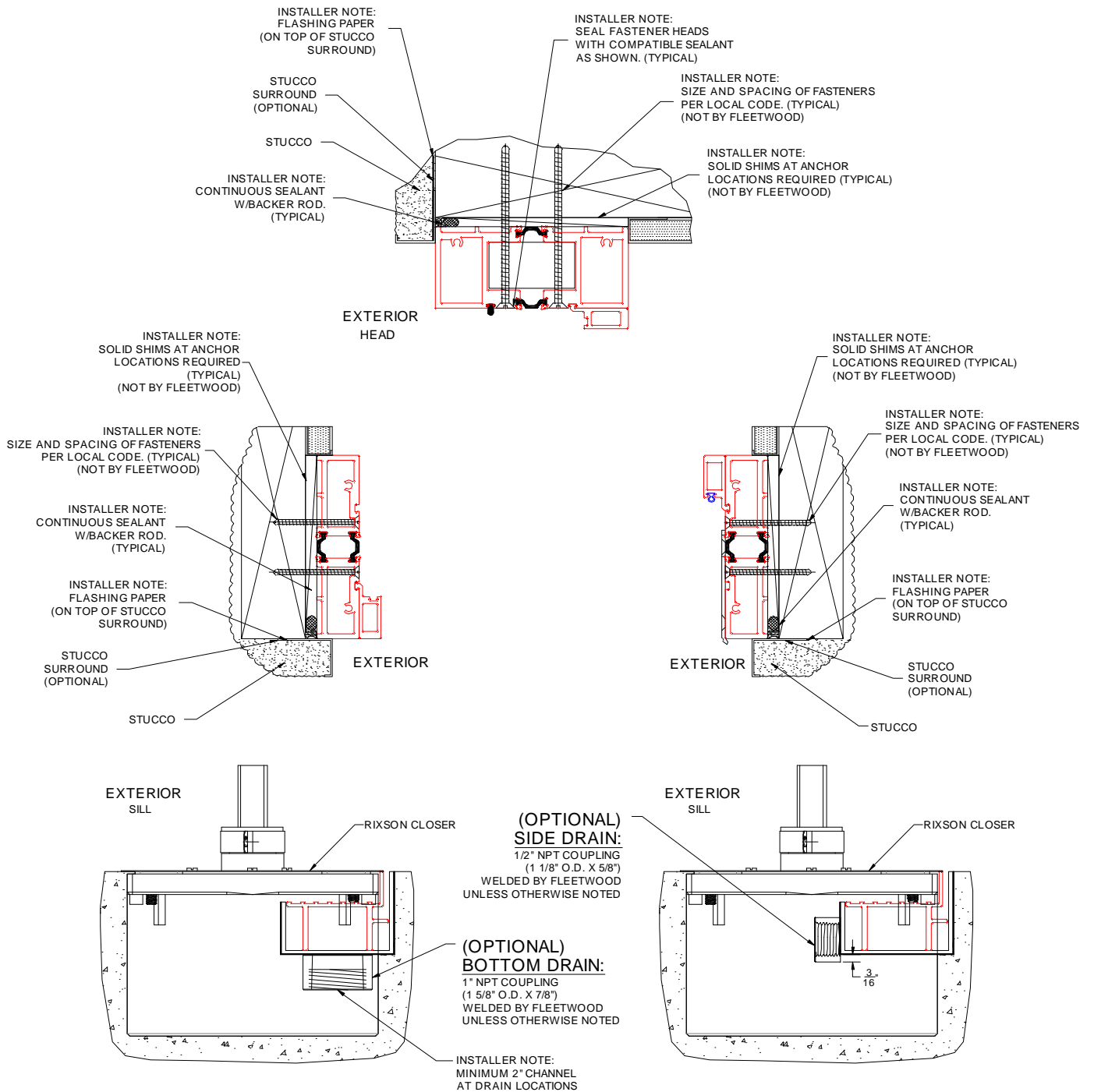


Figure 8:
Rixson Block Frame Installation

VII. Floor Closer Installation

1. Set the closer into the floor 2" from the back of the jamb and level. Closer is to be installed in line to the door and flush to the floor (Figure 9).
2. Measure dimension of "A" as specified from opening to the spindle center (Figure 10 & Table 2).
3. Set closer surface flush with the finished floor. Continue to step 4.

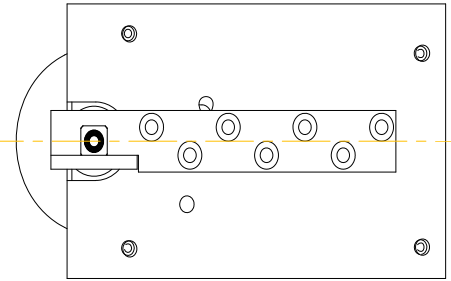
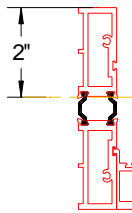
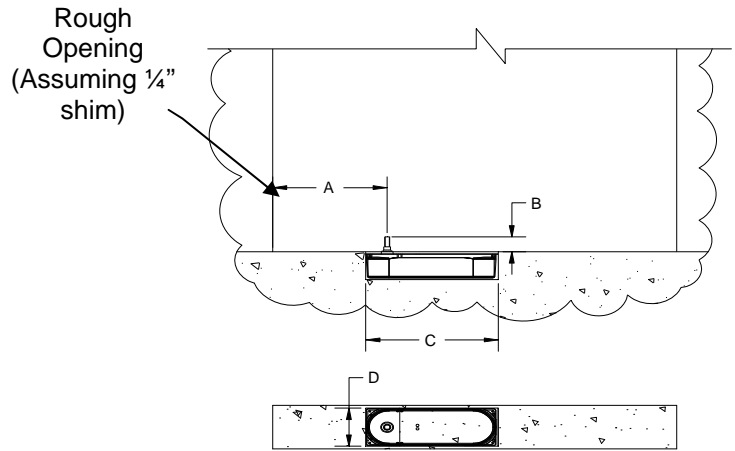
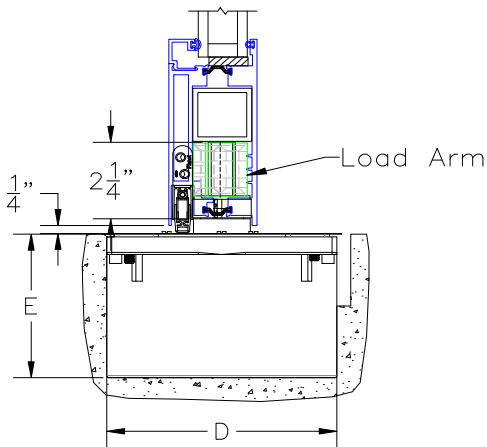


Figure 9:
Closer Positioning



Rixson Closer H40-587 Shown.

Figure 10:
Frame, Closer, Pivot Opening

Table 2: Pivot Location, Floor Closer & Pivot Set Dimensions.

Model	A	B	C*	D*	E*
H40-587	Pivot Location + 1.25"	2.375"	17.25"	6.125"	4.063"
H28-587			11.375"	6.125"	4.063"
Pivot Set H117 3/4-587			6.5"	5.5"	2.375"

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

4. Use a plumb line to center top pivot pin with center of closer spindle (Figure 11).

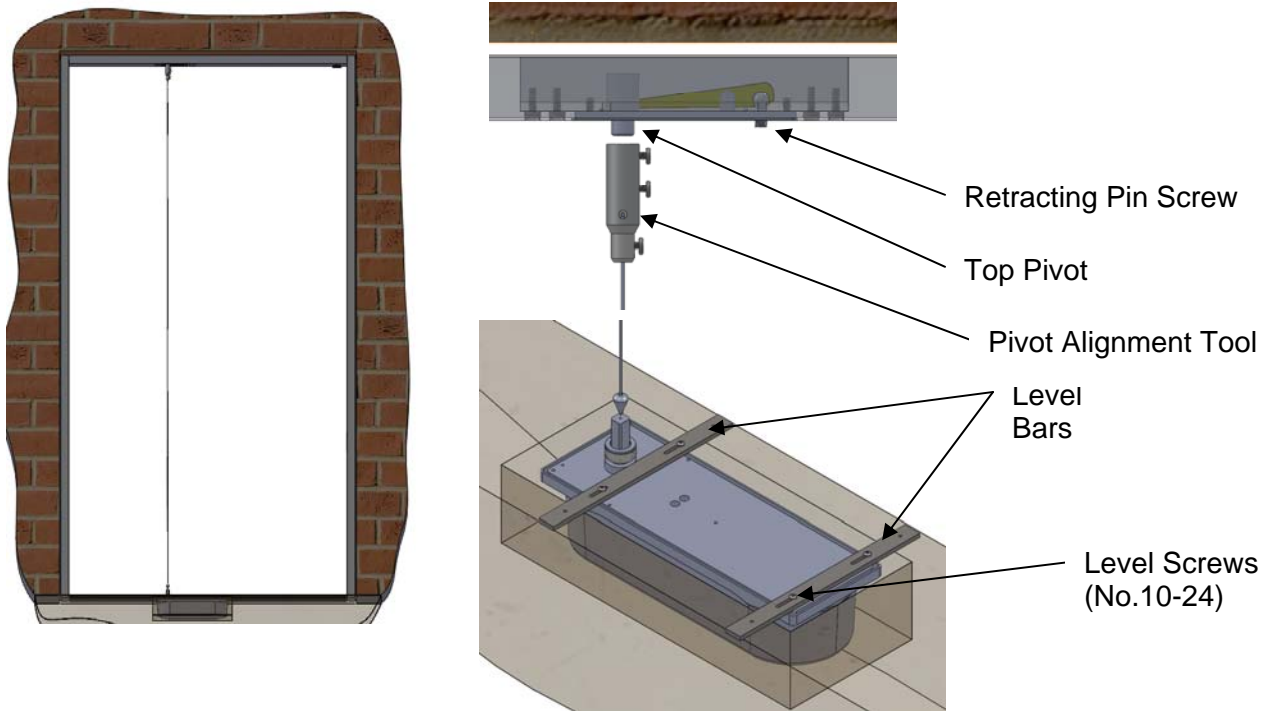


Figure 11:
In-line Verification

5. Grout in closer with cement or equivalent. Continue step # 9 when cement is cured.
6. Complete flooring around closer and sub-sillpan.
7. Install cover plates to closer.

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

1. 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.
2. Insert two setting blocks into the head / bottom at the quarter points (Figure 12).
3. Insert and stagger two setting blocks along both sides of the bottom pivot location. This is to support both lites and the dead load of the glass.
4. Insert glass three setting blocks per jamb. One at 2" from corner and one at center.
5. Before glazing, apply a continuous bead of sealant to the inner stops as shown in Figure 12.
6. Insert glass to panel.
7. Finish assembly by inserting the two horizontal glass stops then install the two vertical glass stops.

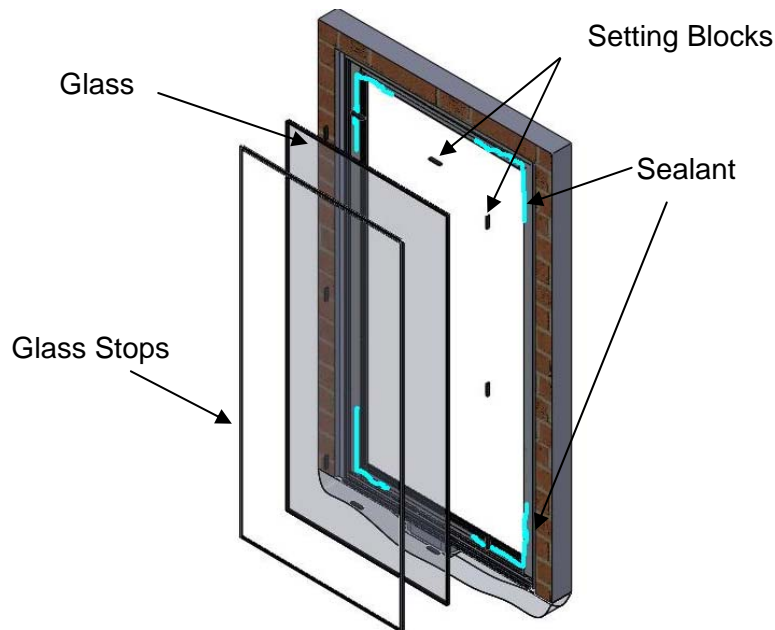
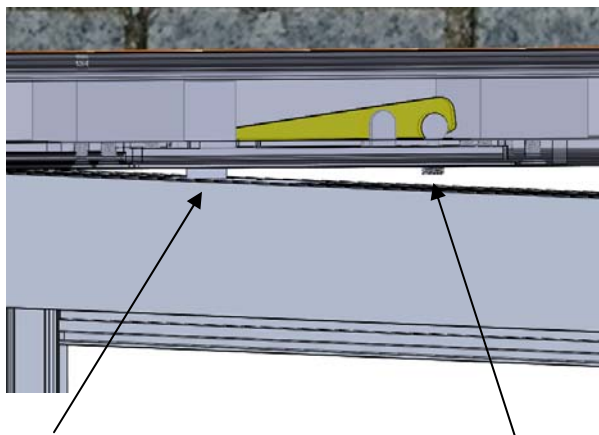


Figure 12:
Glazing Illustration

IX. Panel Installation

Note: When installing Handle Pulls on Archetype Hardware please note important hardware locations in Appendix D.

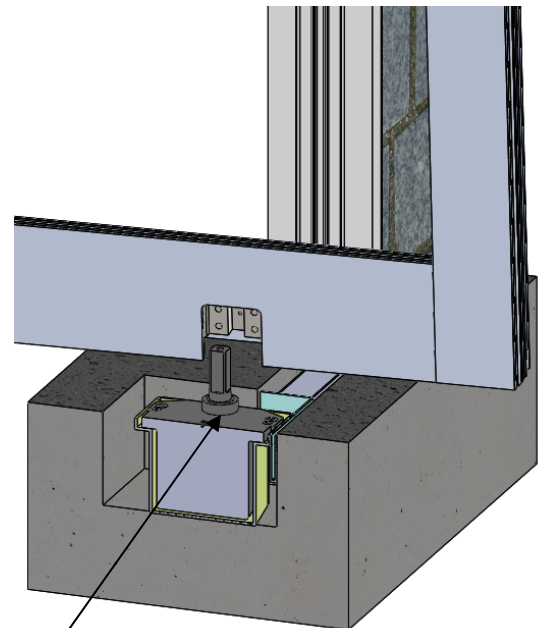
1. Retract top pivot pin by turning retracting pin screw counterclockwise (Figure 13). Install washer & thrust bearing to spindle (Figure 12).
2. With the floor closer in the slowest settings use a crescent wrench to turn the pivot perpendicular to the frame.
3. Tilt door to place on spindle and attach arm cap but do not tighten (Figure 14).
4. Align the two portions of top pivot and turn pin retracting screw clockwise (Figure 13).
5. Tighten arm end blocks screws and install load arm cover plate.
6. If the panel is hitting the head or sill see Appendix C: Panel Squaring.
7. Adjust bottom sweep pin (located on the pivot side) slowly until a seal is formed between the finished floor and panel. Over adjustment will prevent the door from closing and damage the hardware.
8. 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.
9. 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 7,8).



Top Pivot

Retracting
Pin Screw

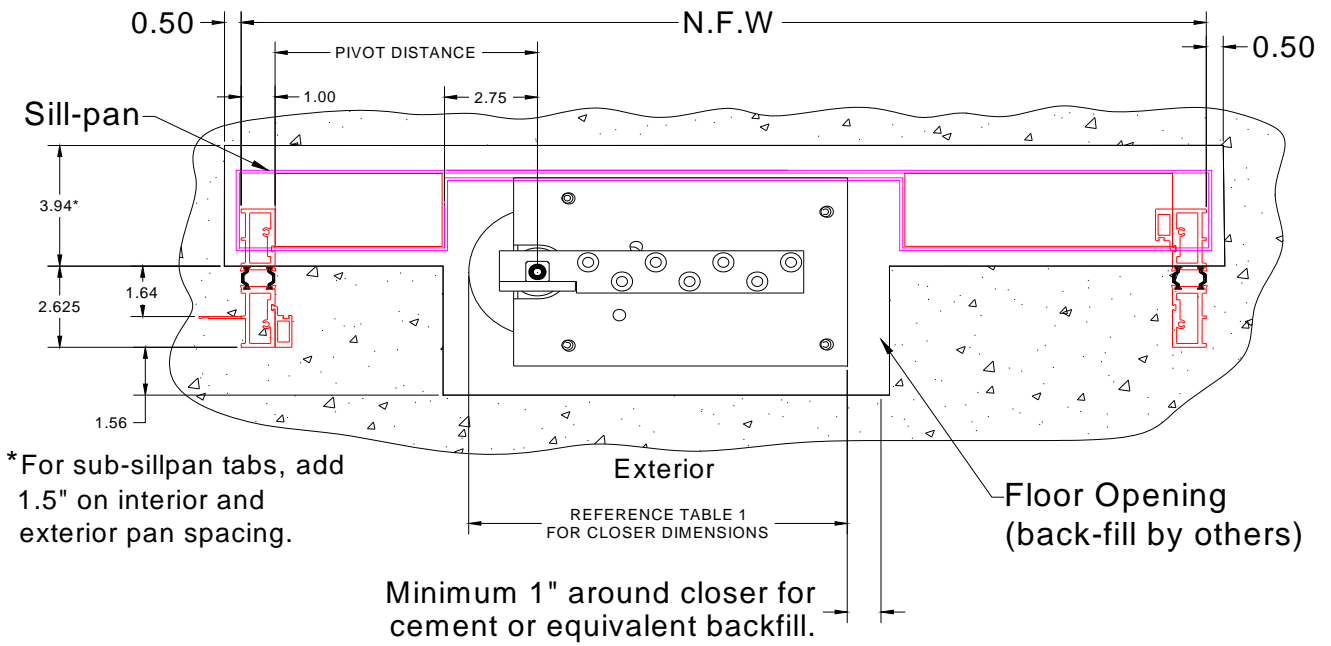
Figure 13:
Top Pivot Locking



.100" thick Washer is under Thrust Bearing

Figure 14:
Washer Location

Appendix A: Sub-Sillpan Dimensional References



*For sub-sillpan tabs, add 1.5" on interior and exterior pan spacing.

Figure A1:
 Rixson Sub-Sillpan Opening

Appendix B: Rixson Additional References

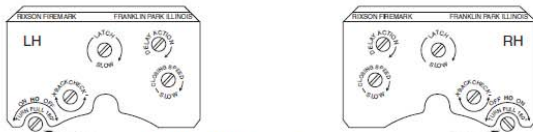
Sample installation instruction video:

<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

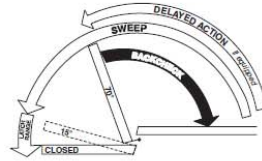


This Set Screw is On Selector Hold-open Types Only

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.

- A. The Delay Action valve allows adjustment from full open to 65° closed position. (Optional)
- B. The Closing Speed valve allows adjustment from full open to 15° on units without the Delay Action feature.
- C. The Closing Speed valve allows adjustment from 65° to 15° closed position on closers with Delay Action feature.
- D. Latch valve allows adjustment from 15° to closed position.
- E. 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:

- 1. Non hold-open factory set. No hold-open adjustments.
- 2. Automatic hold-open factory set. No hold-open adjustment.
- 3. 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

www.rixson.com



866-474-9766 Technical Department

RIXSON

ASSA ABLOY

Installation Instructions

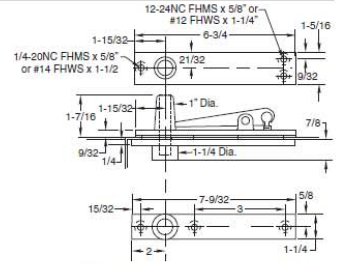
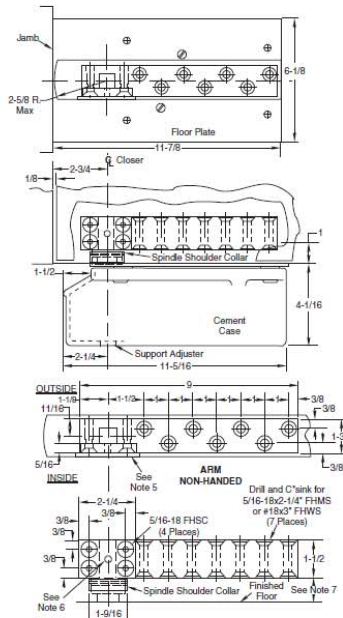
IS2800587 (07-09)

H28 x 587 Arm Floor Closer

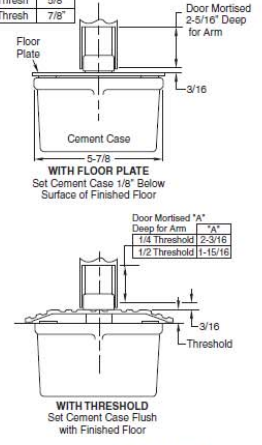
Center Hung Single Acting – Handed

H340 Top Pivot – Non Handed

Template



Max. Door Clearance	
Floor Plate	1"
1/2 Thresh	5/8"
1/4 Thresh	7/8"



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

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Figure B1:
Rixson Closer Adjustments

Appendix C: Panel Squaring

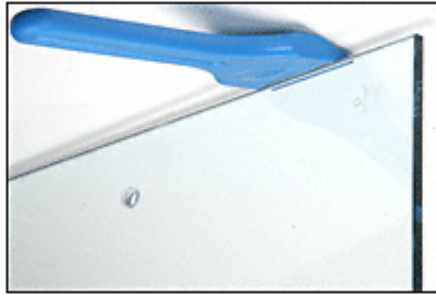


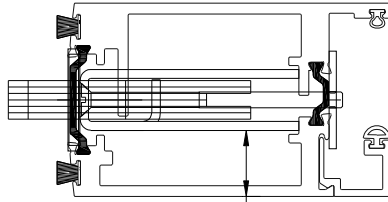
Figure C1:
Glass Lifting Tool

Required Tools: 9/16" wrench, pliers, tape measure, shim, plate glass lifting tool.

1. If panel hits the sill due to the weight of glass/panel.
 - a. Make sure the frame is squared before any adjustment to panel.
 - b. If the problem is solved, stop here.
 - c. Lay panel on table and check distance of both diagonals. If they are not the same, the panel is not square.
 - d. Loosen nuts at 4 corners (2 turns), use plate glass lifting tool and add additional shim(s) to the top of the panel opposite of the pivot, between the glass and vent top rail.
 - e. Check diagonal distances, gap of panel to frame.
 - f. Tighten corner key nuts.
2. If panel hits the head.
 - a. Make sure the frame is squared before any adjustment to panel.
 - b. If the problem is solved, stop here.
 - c. Lay panel on table and check distance of both diagonals. If they are not the same, the panel is not square.
 - d. Loosen nuts at 2 top corners (2 turns), use plate glass lifting tool and remove/replace with thinner shims to the top of the panel opposite of the pivot, between the glass and vent top rail.
 - e. Check diagonal distances, gap of panel to frame.
 - f. Tighten corner key nuts, insert thermal barrier back.

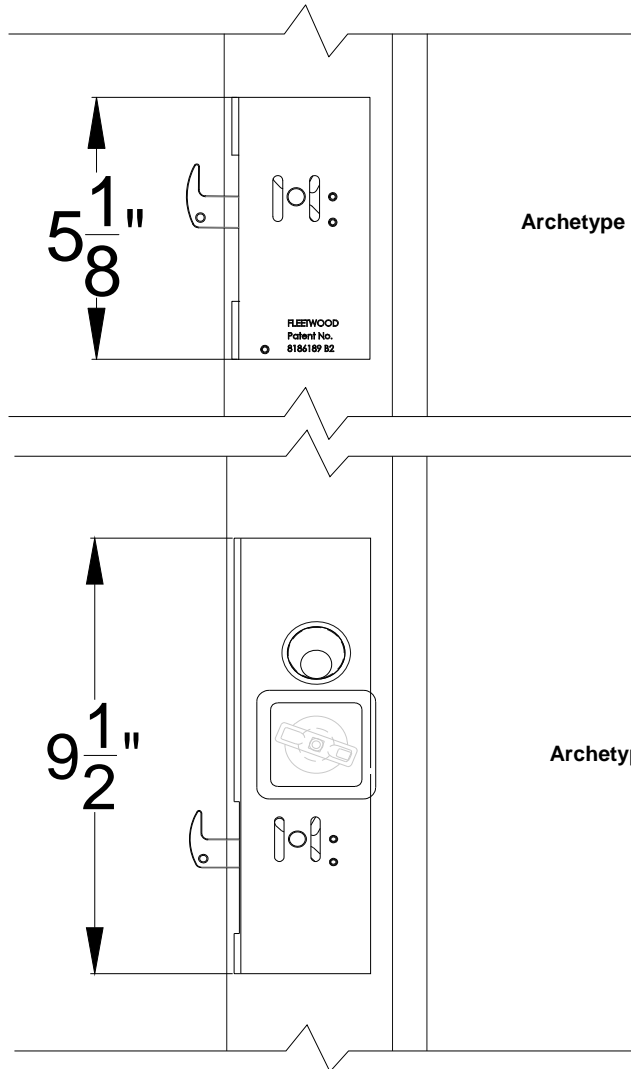
Appendix D: Hardware Locations

Note: The following are latch hardware locations to avoid.



Archetype Latch (Top View)

$3\frac{3}{4}$ "



Archetype Secondary Latch

Archetype Latch

Figure D1:
 Important Archetype Hardware Locations