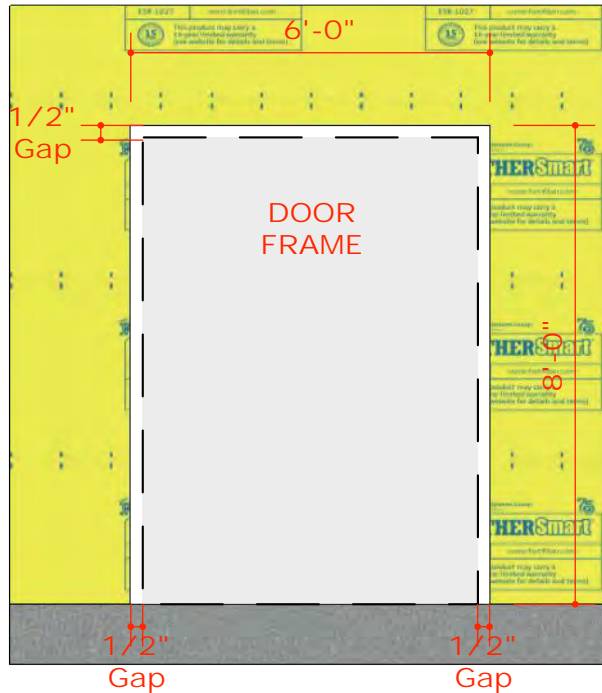**PRIME**
Window Systems

Required materials:

1. Flashing products
- 12″ wide FortiFlash® Butyl self adhered flashing or pre-approved equal.
- If Dens Glass is used then Henry Aquatac primer should be used before the SAF is applied.
- 3M Super 77 is an acceptable alternate for Henry Aquatac primer.
2. Moistop® Sealant
3. Staples and stapler
4. J-Roller
5. 2″ (min) exterior grade screws for jambs
6. 1 5/8″ (min) exterior grade screws for nail fins
7. Screw gun
8. Metal head flashing
9. Pan system- 2 alternates:
- Metal Pan custom fabricated
- Ready Sill® pan system by TLS Laboratories

PERFORMANCE TESTED
TLS
LABORATORIES

STEP 1	STEP 2	STEP 3
Rough Opening (RO)	Cut house wrap and install GS100 A pieces	Install Pan System

STEP 1
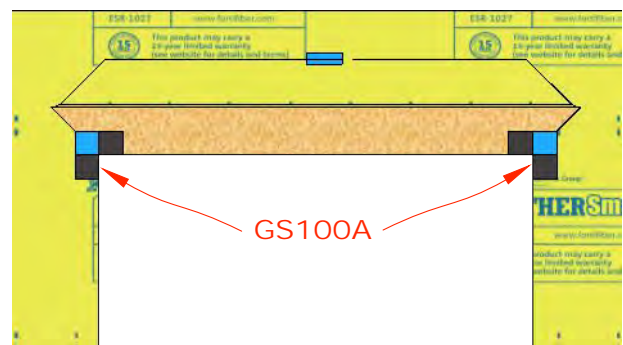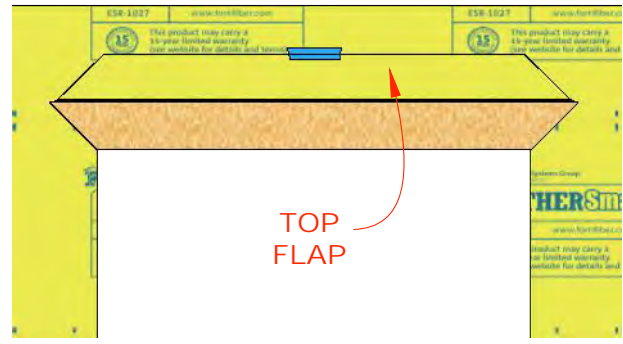
RO should be 1/2″ greater in width and height than the net frame size of the door. This will allow for a 1/2″ gap on both sides and the top of the door.
RO should be level, square and plumb.
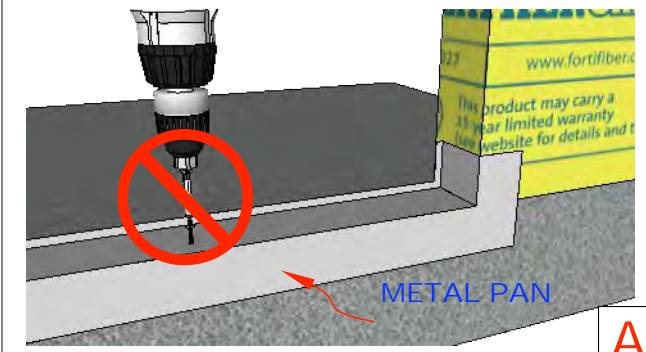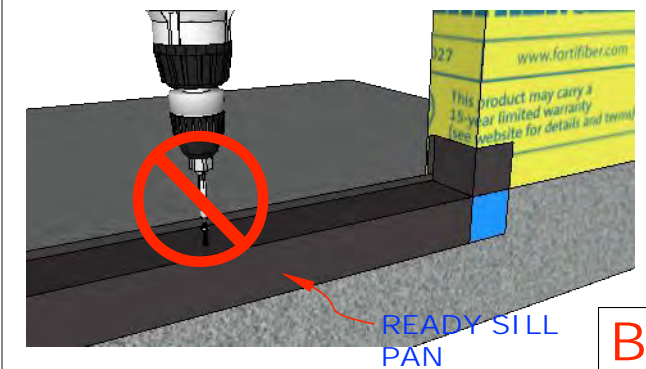Do not use waned lumber to create the RO.

STEP 2

Cut the house wrap per manufacturers instructions and fold into RO at the sides, hold it upwards at the top.

Apply sealant on the wall and set the GS100 A pieces into the wet sealant. Use staples to hold the corners in place.

STEP 3

A) If using a metal pan ensure the inside vertical lip is positioned properly so that it will be 1/8″ inside of the door frame. Do not damage the inside vertical lip of the pan. The pan needs to fit the RO correctly. The pan should have soldered seams. Set the pan into sealant on your subfloor or concrete foundation.
Do not penetrate the lower horizontal areas of the pan with fasteners.
B) If using a Ready Sill® Pan- Install the pan following the directions in the box. Position the pan correctly in the RO and do not penetrate the lower horizontal areas of the pan with fasteners.

STEP 4	STEP 5	STEP 6
Apply Sealant	Install Door	Secure Door in place

A

B

A

B

SHIMS
U

STEP 4 — Apply Sealant
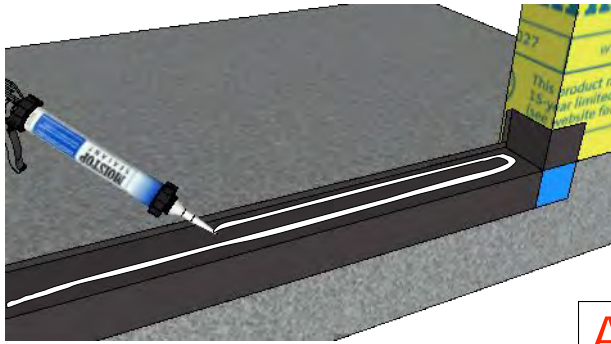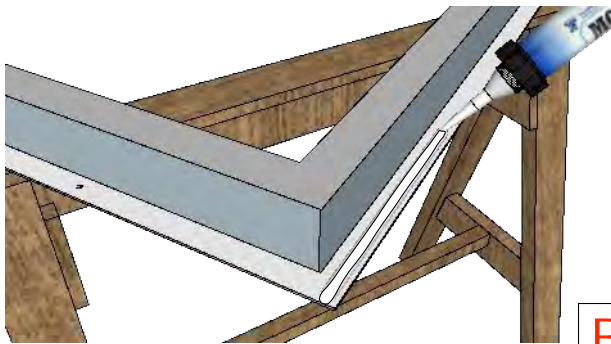
A) Remove the operating door sash and dry fit the door system to verify it fits the RO. After verifying the door correctly fits in the RO, apply 1/2″ tubular shaped bead of sealant in a rectangular shape around the pan system in preparation for the door. See drawing above.

B) Apply a 3/8″- 1/2″ bead of sealant behind the nailing flanges of the door. Position the sealant to achieve maximum compression with the wall when the door is positioned in the RO.
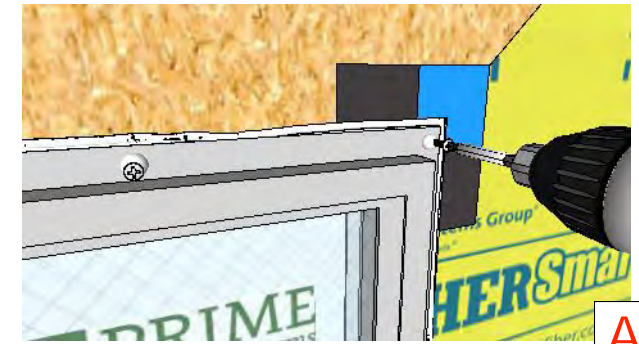
STEP 5 — Install Door
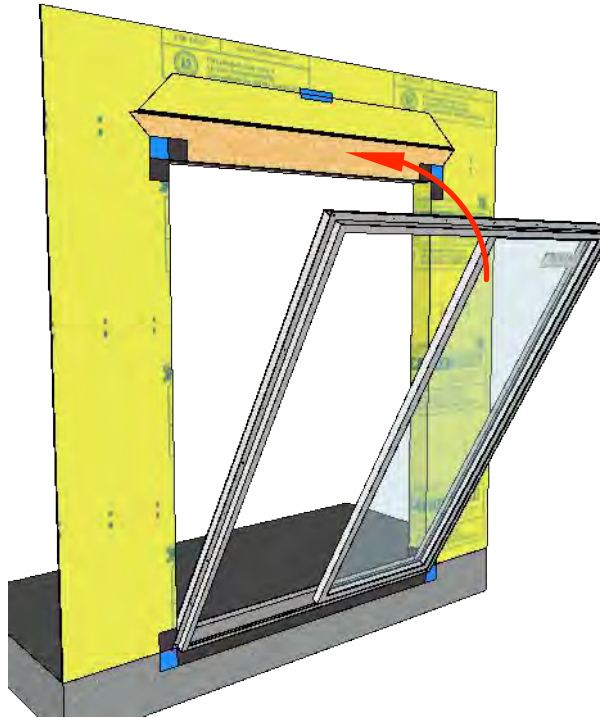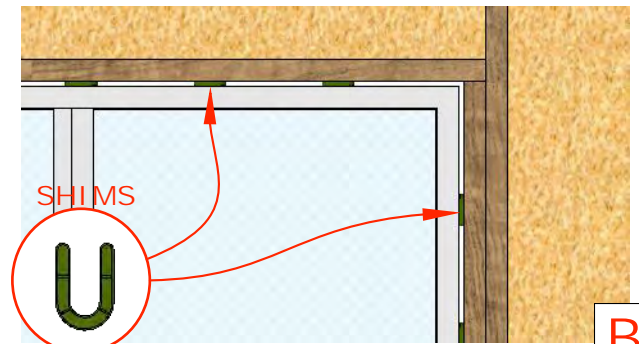
Set the door on the sealant in the pan and position the door into the RO. Tilt the door back into the RO.

Set reveals and check for level, square, cross sight and plumb.

STEP 6 — Secure Door in place

A) Fasten the door through the nailing flanges using 1 5/8″ (Min) exterior grade pan head screws every 9-12″ OC. Start at the corners and work towards the middle.

B) Install shims on the sides and top of the door as required or every 12″ O/C. Apply 2″ screws through predrilled holes on the side jambs after verifying the door is plumb, square and within cross sight. Verify plumb conditions after the screws are applied. Install operable sash and ensure smooth operation.

STEP 7
Side Flashings
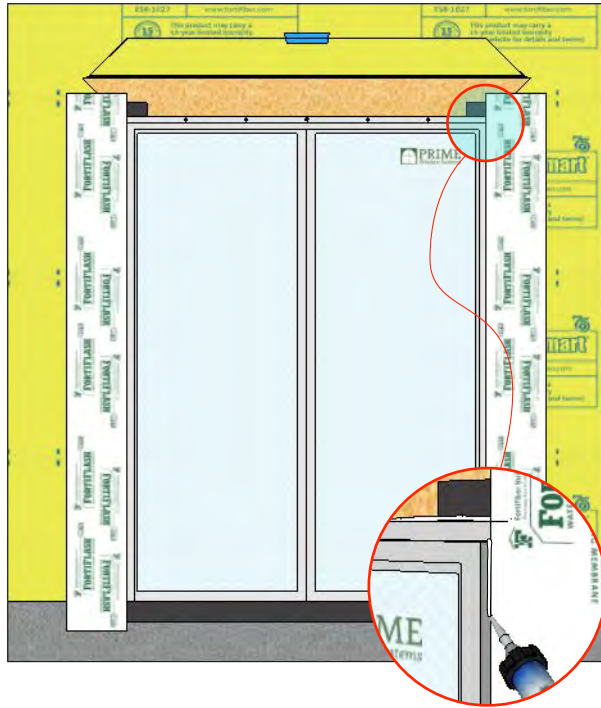
Cut the 12″ SAF side flashing 12″ taller than the height of the RO.
Affix it to the wall overlapping the door nail fin and the pan at the lower corners.
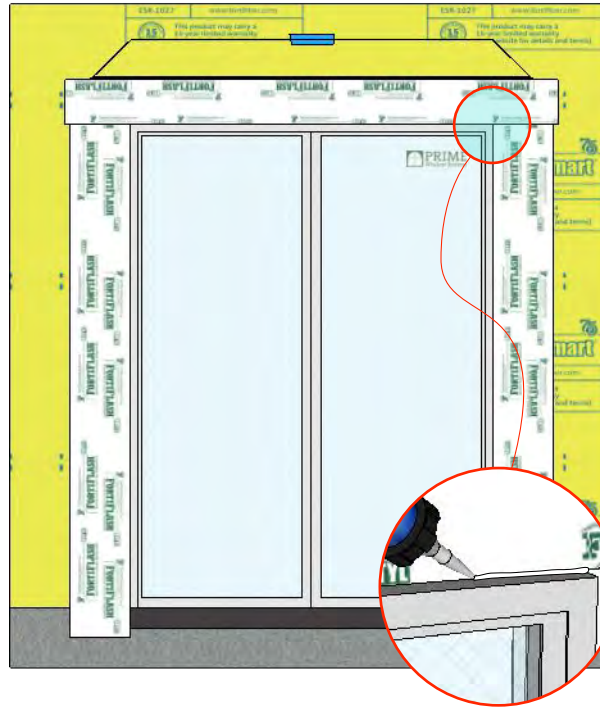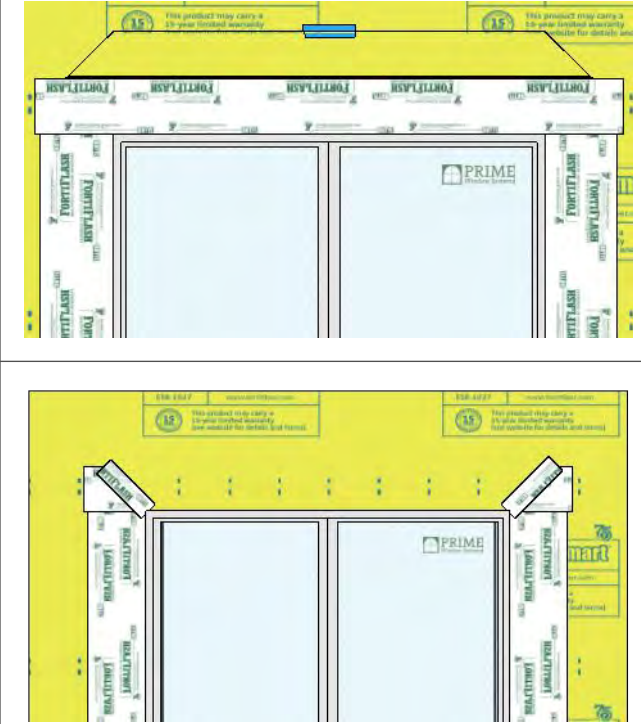Use primers if Dens Glass or similar exterior gypsum wall is used.
J-Roll all material flat.
Apply a 1/4″ bead of sealant at the edge of the SAF against the frame of the door to protect against wrinkles.

STEP 8
Top Flashing

Cut the SAF top flashing 26″ wider than the width of the RO. The top flashing will extend 1″ beyond each side of the side flashings. Use primers if Dens Glass or similar exterior gypsum wall is used.
J-Roll all material flat.
Secure top edge of the SAF in place with staples to prevent it from falling downwards in the future.
At the edge of the flashing against the door frame add a 1/4″ bead of sealant and tool it into place. This is important to prevent water from getting behind the flashing from wrinkles.

STEP 9
Top Flap

Lower the top flap of the house wrap and tape the seams with your SAF flashing.

STEP 10
Metal Head Flashing
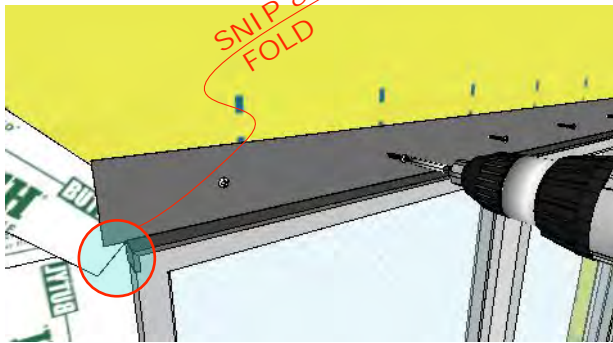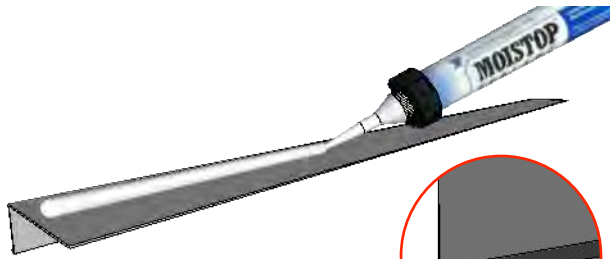
SNIP & FOLD

STEP 11
Final Flashing

S.A.F.

Success!

Install metal head flashing. Wet set the metal head flashing using Moistop sealant upon the SAF over the window.
Secure with fasteners through the wet sealant.
Snip and fold the ends of the head flashing downwards onto the frame of the door.
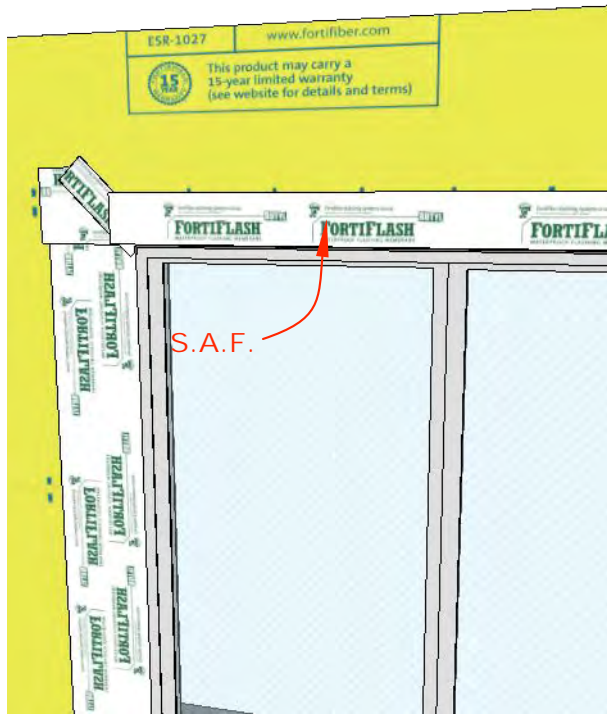
Layer a final course of SAF over the metal head flashing.

You are all Done!

SECTION DETAIL Head and Sill	SECTION DETAIL Side Jambs	

Head and Sill detail labels:
- S.A.F.
- Fasteners
- Metal Head Flashing
- 1/8" Gap
- PAN System
- Sealant

Side Jambs detail labels:
- S.A.F.
- Shim
- Sealant

PRIME
Window Systems

Sliding Door with nail flange method A1 with House Wrap.
Required materials:

- 12″ SAF Butyl membrane product. (FortiFlash® Butyl or pre-approved equal).
- Pan system. Use a prefabricated metal pan system with soldered seams or a Ready Sill pan system. (Call 800-310-7673 for Ready Sill® products.)
- Metal head flashing.
- Moistop® Sealant or pre-approved equal.
- J-roller
- 1 5/8″ Pan head exterior grade screws. 2″ exterior wood screws
- Screw Gun
- Level
- Razor knife

Steps:

1. **RO should be 1″ greater in width and 1/2″ greater in height than the net frame size of the door.** This will allow for a 1/2″ gap on both sides and 1/2″ at the top. RO should be level, square, plumb and be within cross sight. Do not use waned lumber to create the RO.
2. **Cut house wrap and fold it into the RO per manufacturer's instructions. Hold it up at the top.**
3. **If using a metal pan** ensure the inside vertical lip is positioned properly so that it will be 1/8″ inside of the door frame. Do not damage the inside vertical lip of the pan. The pan needs to fit the RO correctly using soldered seams. Set the pan into sealant on your subfloor or concrete foundation. Do not penetrate the lower horizontal areas of the pan with fasteners. **If using a Ready Sill® Pan-** Install the pan following the directions in the box. Position the pan correctly in the RO and do not penetrate the lower horizontal areas of the pan with fasteners.
4. **Apply sealant-** Next, Apply 1/2″ tubular shaped bead of sealant in a rectangular shape around the pan system in preparation for the door. Apply a 3/8″- 1/2″ bead of sealant behind the nailing flanges of the door, position the sealant to achieve maximum compression with the wall when the door in positioned in the RO.
5. **Install door:** After the house wrap has been correctly cut and prepared according to manufacturers recommendations remove the operating door sash and dry fit the door system to verify it fits the RO. Set the door on the sealant in the pan and tilt backwards into the RO. Set reveals and check for level square, cross sight and plumb.
6. **Secure door in place with fasteners.** Fasten the door through the nailing flanges using 1 5/8″ (Min) exterior grade pan head screws every 9-12″ OC. **Install shims** on the sides and top of the door as required or every 12″ OC. Apply 2″ screws through predrilled holes the side jambs after verifying the door is plumb, square and within cross sight. Verify plumb conditions after the screws are applied.
7. **Side flashing:** Cut the 12″ SAF side flashing 12″ taller than the height of the RO. Affix it to the vertical wall overlapping the pan at the lower corners. Use primers if Dens Glass or similar exterior gypsum wall is used. J-Roll all material flat. Apply a 1/4″ bead of sealant at the edge of the SAF against the frame of the door to protect against wrinkles.
8. **Top flashing:** Cut the SAF top flashing 26″ wider than the width of the RO. The top flashing will extend 1″ beyond each side of the side flashing. Use primers if Dens Glass or similar exterior gypsum wall is used. J-Roll all material flat. Secure top edge of the SAF in place with staples to prevent it from falling downwards in the future. At the edge of the flashing against the door frame add a 1/4″ bead of sealant and tool it into place. This is important to prevent water from getting behind the flashing from wrinkles.
9. **Lower the top flap of house wrap** and tape the seams with your SAF flashing.
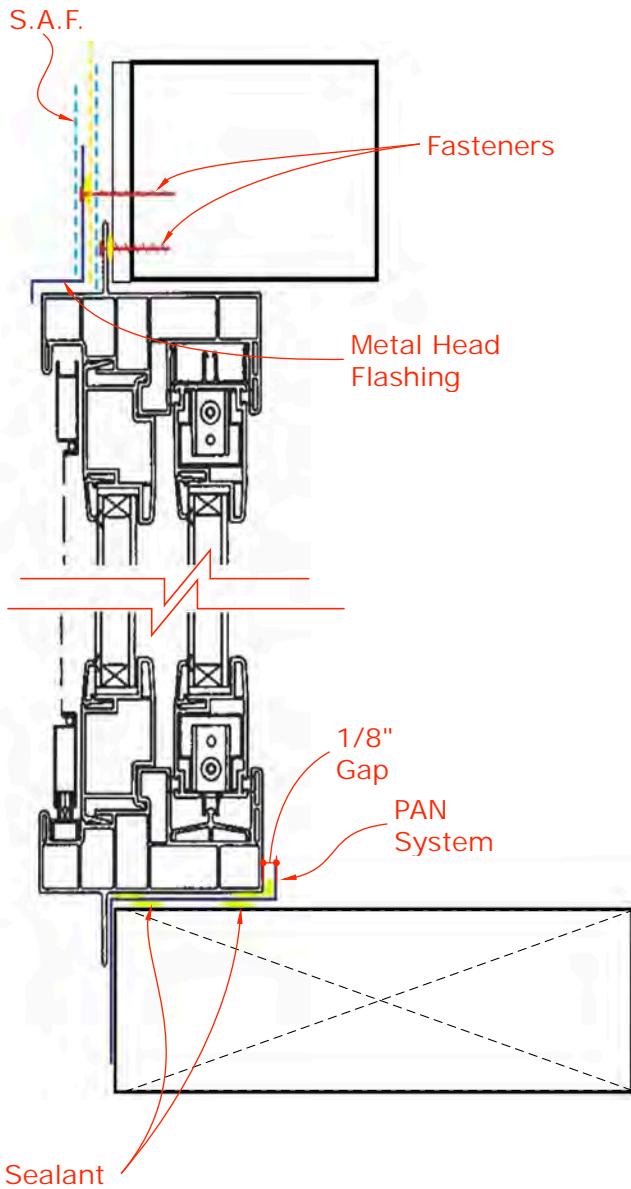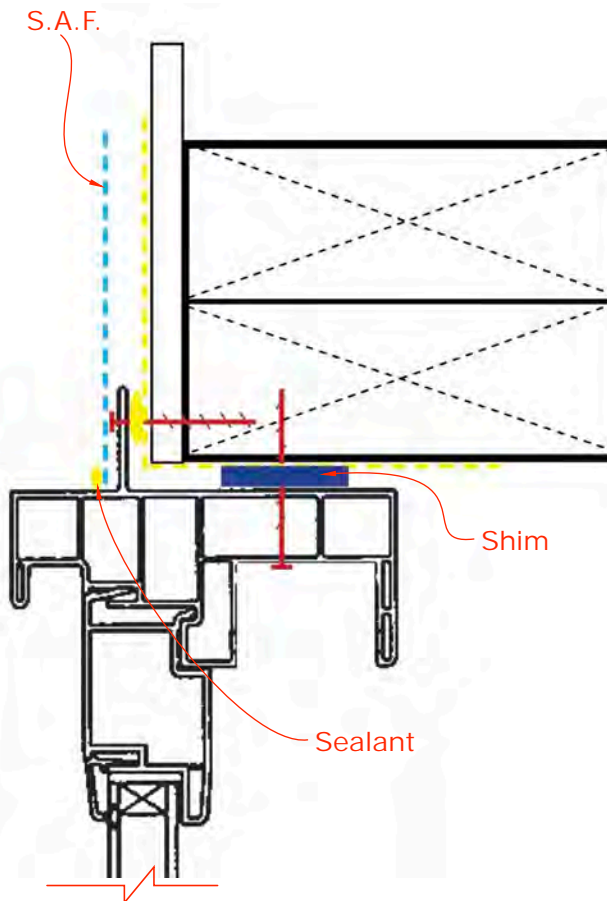10. **Install metal head flashing.** Wet set the metal head flashing using Moistop sealant upon the SAF over the window. Secure with fasteners through the wet sealant. Snip and fold the ends of the head flashing downwards onto the frame of the door.
11. **Layer a final course** of SAF over the nailing flange of the head flashing.

TLS
LABORATORIES