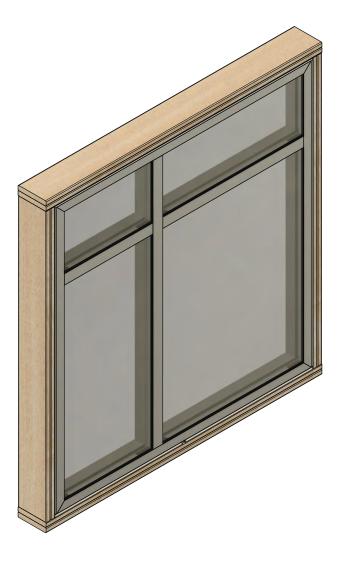
# STORMDEFEND TTH600 SYSTEM

## **INSTALLATION INSTRUCTIONS**

(Revision #12. 21Nov2018)



- 10-1359 Perimeter Frame Anchor
- 10-1363 Glazing Stop Snap Cover
- 10-1364 Removable Glazing Stop
- 5253 Intermediate Rail (IR)
- 5556 Intermediate Mullion
- 5758 Perimeter Frame



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(Revision #12. 21Nov2018)

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# **Tools and Supplies**

#### TOOLS

- Drill
- Rubber Mallet
- Putty knife
- 7/16" Nut Driver
- Sealant gun
- 3/8" Drill Flex
- Nut Driver for job specific anchors

#### SUPPLIES

• High quality silicone sealant. Quantity varies with each installation.

### SUPPLIES PROVIDED BY INSTALLER

- Perimeter Sealant
- Window Anchors
- Shims

#### **FACING DIRECTION**

We indicate facing direction with **SAFE** being the safe side and **THREAT** being the threat side.



#### **INSTALLATION CONDITIONS**

These instructions were tested and developed for wall construction systems and designed to manage moisture. Installation recommendations for other types of wall construction, wall systems, conditions, may be obtained from Insulgard Security Products. Building designs, construction methods building materials, and site conditions unique to your project may require an installation method different from these instructions and additional care on your part. Determining the appropriate installation method is the responsibility of you, your architect, or other construction professional.

#### LAYOUT

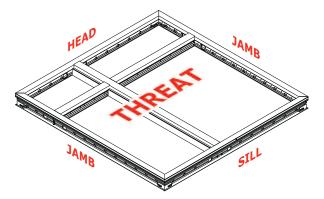
Please refer to drawings and engineering build of materials for identifying and placement of component(s), as they will vary by project job.

#### SAFETY

For safety and convenience, it is best to assemble frame assembly laid on its back on a level surface.

Remember to use appropriate personal protective equipment.

The installation will require two or more persons for safety reasons.





1

# Preparation

#### **CLEAR ROUGH OPENING**

**1.** Verify *Rough Opening* is clear of obstruction.

\*Wood buck is used for illustration purpose only. See specific shop drawings for details.

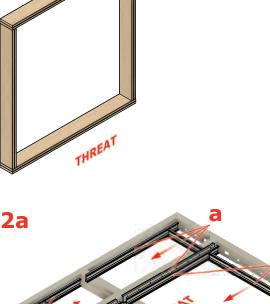
#### **CHECK FRAME ASSEMBLY**

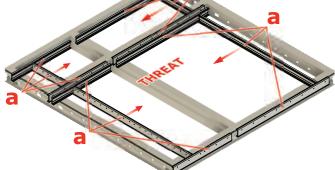
2. During shipping, the 10-1364 Removable Glazing Stops and Sill's Perimeter Frame Anchor are attached. The 10-1359 Perimeter Frame Anchors (b) sit loose.

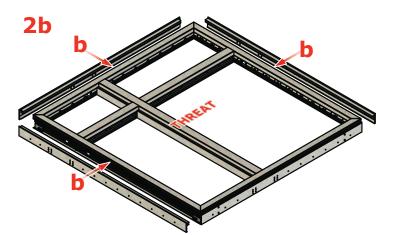
**2a.** Remove **all** *10-1364 Removable Glazing Stops,* starting with all vertical members (**a**).

**2b.** Add and verify *10-1359 Perimeter Frame Anchors* (b) match the corresponding perimeter frame by lining-up anchor screw access holes. Used tape to hold in place during movement.

\*See Bill of material for quantity and part numbers.









# **Mount Frame Assembly**

#### **INSTALL FRAME SHIM**

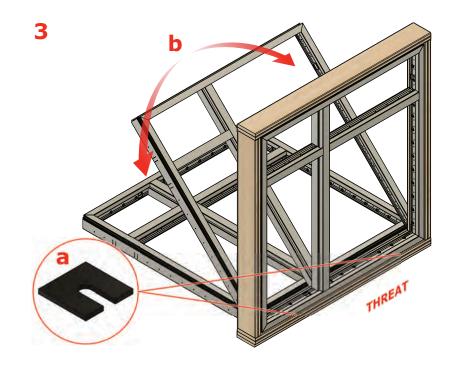
**3a.** Insert *Frame Shim* (a) into Rough Opening to allow for specified caulking joints.

\*Shims are provided by installer.

Carefully lift *Frame Assembly* (**b**) into place and mark locations of required anchorage holes.

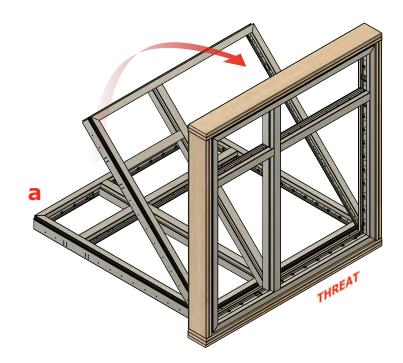
**3b.** Remove *Frame Assembly* (**b**) and drill proper holes into substrate as recommended by drawings.

Thoroughly clean out holes in substrate.



#### MOUNTING FRAME ASSEMBLY

**4.** Mount *Frame Assembly* (a) by carefully lifting it into place.



SECURITY PRODUCTS

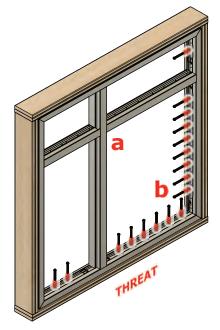
# **Secure Frame Assembly**

#### SECURE PERIMETER FRAME ASSEMBLY

**5.** Ensure the anchorage holes are line up with the *Perimeter Frame Anchors*. Secure *Frame Assembly* (a) with specified *screw fasteners* (b) from drawings.

\*Refer to submission drawings for exact locations and screw fasteners.

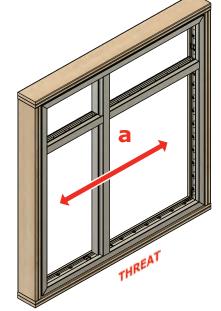




#### **ADJUST FRAME ASSEMBLY**

**6.** The Frame Body (a) can still shift within the Perimeter Frame Anchors. Shift the Frame Body (a) to adjust for even spacing between the Vertical Jambs and the Rough Opening. Shims can be used between Perimeter Frame and substrate or Perimeter Frame Anchors to position Frame Body (a) in place.

6





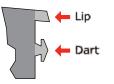
# **Prepare and Install Sponge Gasket**

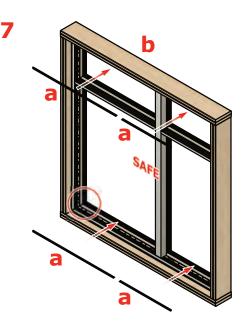
### PREPARE AND INSTALL SPONGE GASKET

**7.** In this set we are applying the *Sponge Gasket* (a) to the *Head* and *Sill* of the *Frame Assembly* (b).

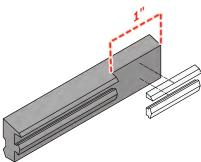
\*Note that we are facing the SAFE side of the assembly.

**7a.** Notch the *Sponge Gasket* (a) by removing about an inch of *dart* and *lip* components closes to the corners of *Frame Assembly* (b).

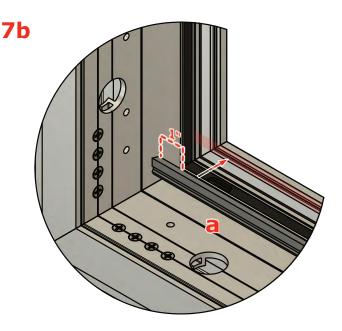




**7**a



**7b.** Install *Sponge Gasket* (a) onto *Head* and *Sill* ensuring the *dart* stem locks into the channel.



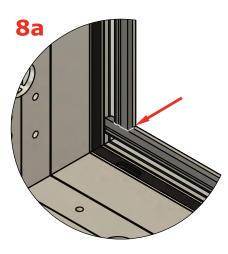


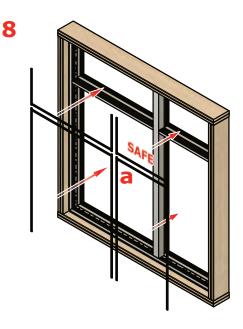
# **Installing Sponge Gasket and Setting Block**

#### INSTALLING SPONGE GASKET

**8.** Insert *Sponge Gasket* (a) on all remaining accessible *channels.* 

**8a.** Apply a small amount of sealant in between *Sponge Gaskets* meeting at corners.

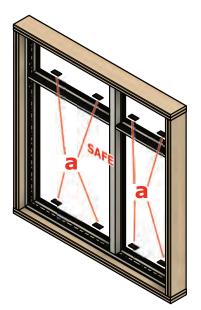




#### INSTALLING SETTING BLOCK

**9.** Place *Setting Blocks* (a) at 1/4 points where glazing(s) will sit.







# **Install Glazing**

#### **INSTALL GLAZING**

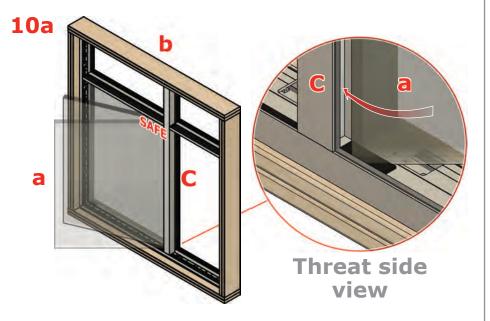
**10.** The *Glazing* is a heavy delicate component and may require more than one person to maneuver.

**10a.** Carefully lift and insert corner of *Glazing* (**a**) onto the *Frame Assembly* (**b**), *closest to the 5556 Intermediate Mullion* (**c**).

Insert the edge of the *Glazing* (a) into the deep channel of the *5556 Intermediate Mullion* (c), as you pivot the *Glazing* (a) flat against the *Frame*.

**10b.** Shift the *Glazing* (a) till there is equal amount of *bite* over the *Jamb's and 5556 Intermediate Mullion's pressure plates*.

10c. Repeat for all Glazings.



10b



# Install Removable Glazing Stop for Intermediate Rail

\*Do not skip ahead. All Horizontal **Glazing Stops** must be installed with Snap Cover and Wedge Seal before installing Vertical Glazing Stops.

# INSTALL REMOVABLE GLAZING STOP ONTO INTERMEDIATE RAILS

\*Note that we are facing the SAFE side of the assembly.

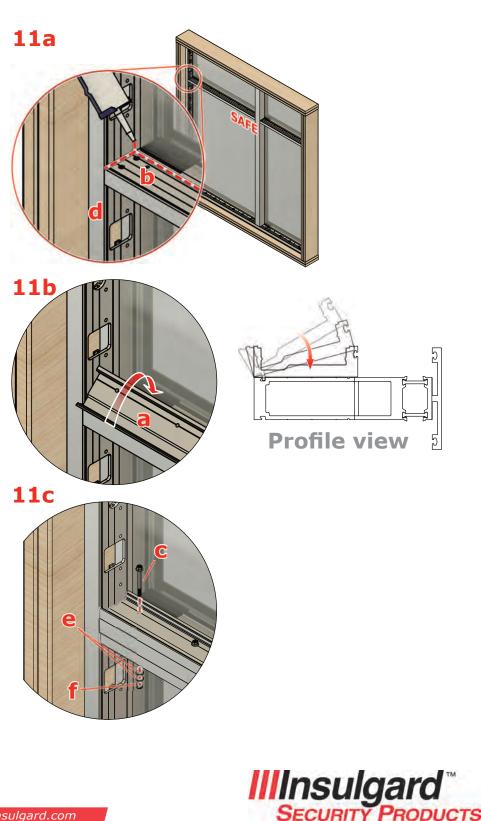
**11.** In this step we are going to install the *10-1364 Removable Glazing Stop* (a) on both sides of the *5253 Intermediate Rail* (b). *Since we are using two 10-1364 Removable Glazing Stops* (a) that are secured by the same that are secured by the same series of 1/4-20 x 2-1/2" Hex Flange Screws (**c**), we recommended having them ready.

**11a.** Apply sealant onto 5253 Intermediate Rail (b) along groove closest to Glazing. Also onto the adjacent 5758 Jamb (d) in the same groove for about an inch from the 5253 Intermediate Rail (b). And along the seam between 5253 Intermediate Rail (b)and 5758 Jamb (d) Do the same for the 5556 Intermediate Mullion side.

**11b.** Install the *10-1364* Removable Glazing Stops (a) onto the 5253 Intermediate *Rail* (b) by rolling it into position. Pivot at SAFE side edge.

**11c.** Run the 1/4-20 x 2-1/2" Hex Flange Screws (c) through both the 10-1364 Removable Glazing Stops (a) and 5253 Intermediate Rail (b). Secure with two Washers (e) and 1/4-20 Lock Nut (f).

**12** Repeat Step **11** for all 5253 Intermediate Rails.



## Install Removable Glazing Stop onto Sill and Head

\*Do not skip ahead. All Horizontal **Glazing Stops** must be installed with Snap Cover and Wedge Seal before installing Vertical Glazing Stops.

#### **INSTALL REMOVABLE GLAZING STOP ONTO SILL** AND HEAD

\*Note that we are facing the SAFE side of the assembly.

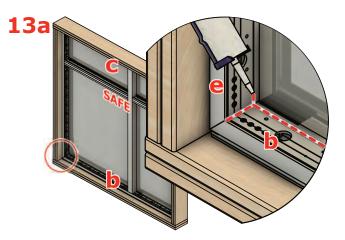
**13.** In this step we are going to install the *10-1364 Removable Glazing Stop* (a) onto the *Sill* and *Head* (b, c).

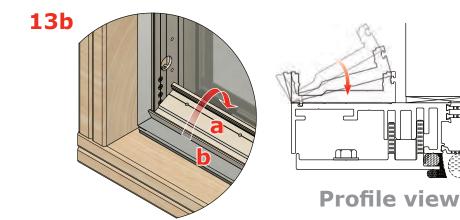
**13a.** Apply sealant onto *Sill* (**b**) along groove closest to *Glazing*. Also onto the adjacent *5758 Jamb* (**e**) in the same groove for about an inch from the *Sill* (**b**). And along the seam between *Sill* (**b**) and *5758 Jamb* (**e**). Do the same for the *5556 Intermediate Mullion* side Mullion side.

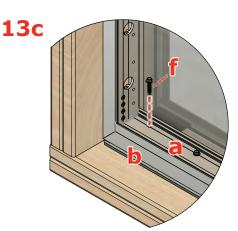
13b. Install the 10-1364 Removable Glazing Stop (a) onto the Sill (b) by rolling it into position. Pivot at SAFE side edge.

13c. Run the 5/16-24 Drill Flex Fasteners (f) through the 10-1364 Removable Glazing Stops (a) and Sill (b).

14. Repeat Step 13 for all remaining exposed areas of *Sill* (**b**) and *Head* (**c**).









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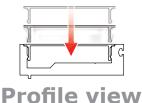
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# Install Horizontal Glazing Stop Snap Covers and Vertical Removable Glazing Stops

#### INSTALL HORIZONTAL REMOVABLE GLAZING STOP SNAP COVER

**15a.** Apply sealant onto exterior of both snap edges of *10-1363 Glazing Stop Snap Covers* (**a**). Smooth to a less than 1/8" thick layer.

**15b.** Install *10-1363 Glazing Stop Snap Covers* (**a**) onto **all** Horizontal *10-1364 Removable Glazing Stops* (**b**).



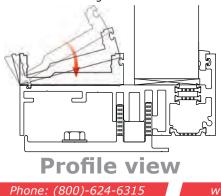
**15c.** Wipe all excess sealant off.

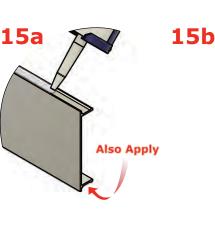
#### INSTALL REMOVABLE GLAZING STOP ONTO JAMBS

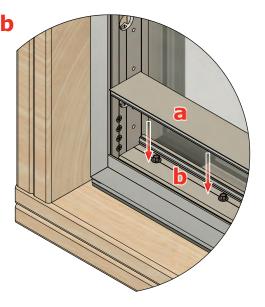
**16.** In this step we are going to install the *10-1364 Removable Glazing Stop* (a) onto the *5758 Jambs* (b).

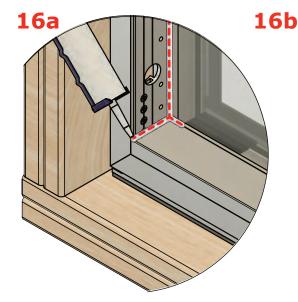
**16a.** Apply sealant onto *5758* Jamb (b) along groove closest to Glazing. Also along the seam of the adjacent Horizontal 10-*1364* Removable Glazing Stop (a) and its 10-*1363* Removable Glazing Stop Snap Cover (c). And along the seam between *5758* Jamb (b) and Horizontal 10-1363 Glazing Stop Snap Cover (c).

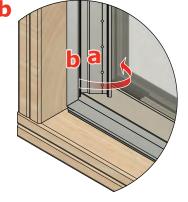
**16b.** the Install the *10-1364 Removable Glazing Stop* (a) onto the *5758 Jambs* (b) by rolling it into position. Pivot at SAFE side edge.













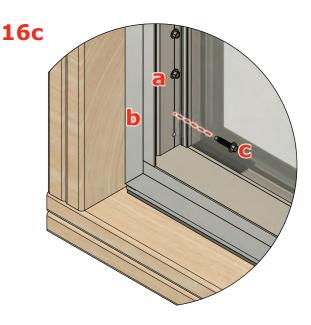
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# Install Removable Glazing Stop and Glazing Stop Snap Cover onto Jambs

#### INSTALL REMOVABLE GLAZING STOP ONTO JAMBS

**16c.** Run the 5/16-24 Drill Flex Fasteners (c) through the 10-1364 Removable Glazing Stops (a) the 5758 Jambs (b).

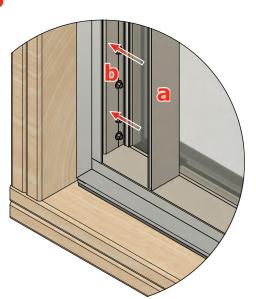
**17.** Repeat Step **16** for **all** remaining exposed areas of *5758 Jambs* (**b**).



**18**a

18b

Also Apply

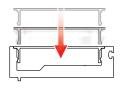




#### INSTALL GLAZING STOP SNAP COVER

**18a.** Apply sealant onto exterior of both snap edges of *10-1363 Glazing Stop Snap Covers* (a). Smooth to a less than 1/8" thick layer.

**18b.** Install *10-1363 Glazing Stop Snap Covers* (**a**) onto **all** of the Vertical *10-1364 Removable Glazing Stop* (**b**).



**Profile view** 

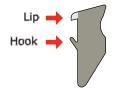
**18c.** Wipe all excess sealant off.

# Install Wedge Seal

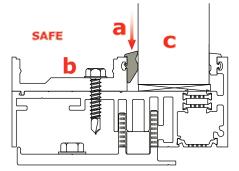
#### INSTALL WEDGE SEAL TO REMOVABLE GLAZING STOPS

19. In this step we are applying the Wedge Seal (a) first onto all Horizontal 10-1364 Removable Glazing Stops
(b). Then all Vertical 10-1364 Removable Glazing Stops.

**19a.** Notch the *Wedge Seal* (a) by removing about an inch of *lip* from each end.



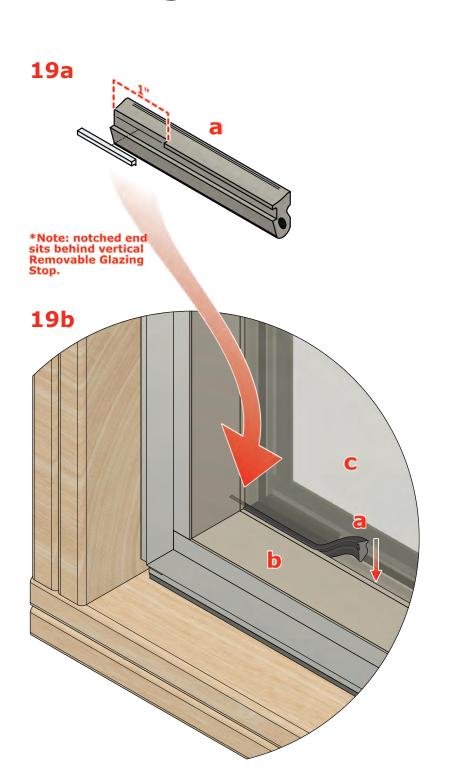
**19b.** Install Wedge Seal (a) by pushing it in between the 10-1364 Removable Glazing Stop (b) and the Glazing (c). Ensuring the Hook stem locks into the channel.



### **Profile view**

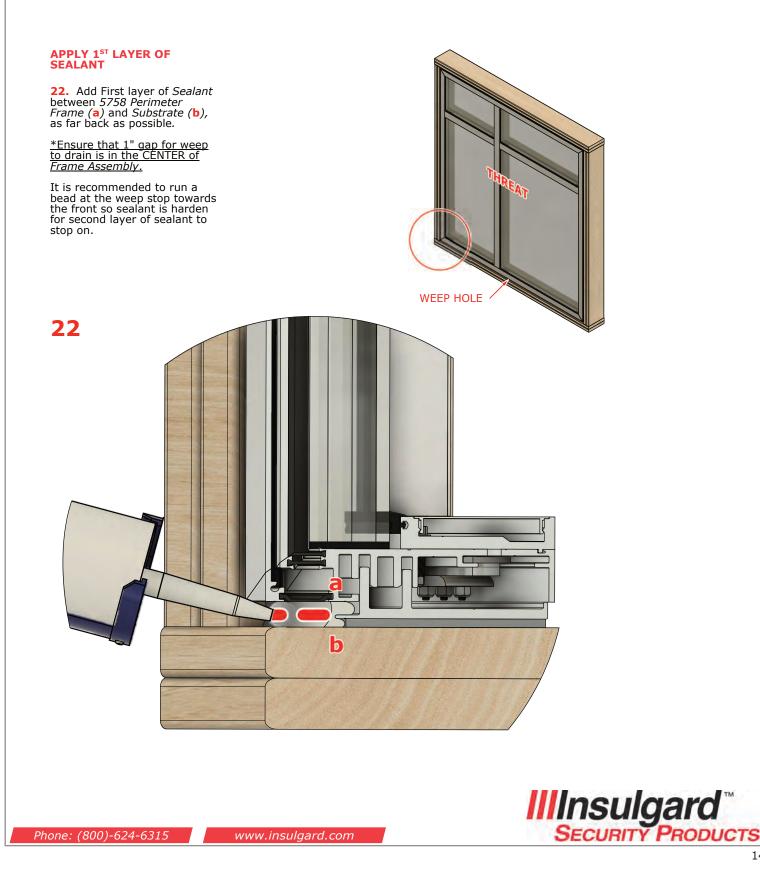
**20.** Repeat step **19** installation of *Wedge Seal(s)* for all Horizontal *10-1364 Removable Glazing Stop.* 

**21.** Without having to notch, install *Wedge* (a) to all of the Vertical 10-1364 Removable Glazing Stops (b).

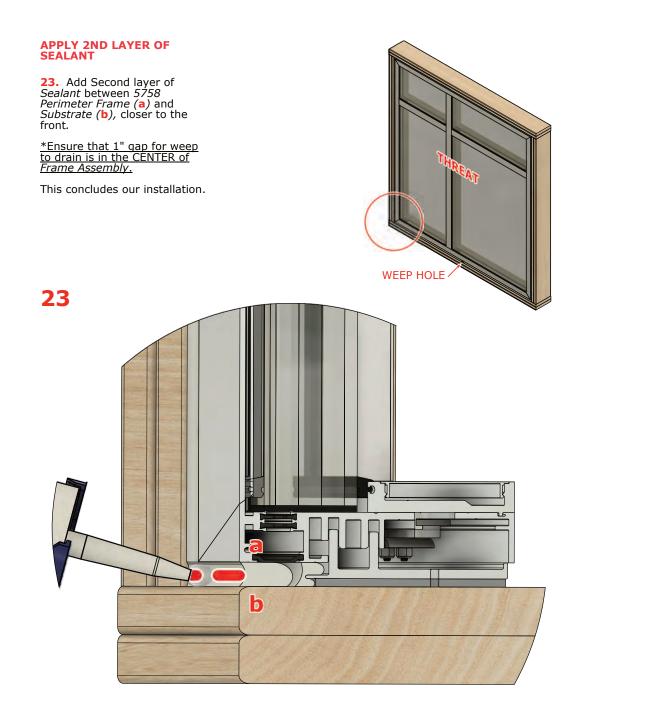




# **Apply 1st Layer of Sealant**







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