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1050 INSTALLATION INSTRUCTIONS

This outline is intended as a general guideline for installation of window guards. It is impossible to cover all possible field conditions; however we are hopeful this outline can lend assistance. If you have any comments to make this outline clearer, we would welcome those comments. Also, please address any questions on a job to our engineering department. (717-767-2779 Ext: 13)

Installation Outline

1. A packing slip listing all materials shipped to the site as well as a copy of our shop drawings should have been delivered to the site along with the guards. Please review these documents and make sure that all materials have been delivered. If not, please contact us as soon as possible.
2. Generally the installer provides installation fasteners.
 - A. Generally we use ¼" tapcons for concrete block.
 - B. Generally we use #12 x 2 PPH with lead anchors for brick.
 - C. For steel lintels, shoot with shot stud or equal.
3. The installation is detailed in the shop drawings. It's standard procedure to detach the mainframe (door) from the subframe and then mount the subframe into the opening. It is very important that the subframe be mounted plumb and square.
4. Tools required include power drills and screwdrivers, hammers, wrench, tape measure and drill bits for installation screws.
 - A. Vice grips may also come in handy for stripped-screw removal
5. Generally guards will weigh between 50 and 75 pounds depending on the infill for a 48" x 60" guard. A very large guard with 12 gauge perforated infill may weigh as much as 100 pounds.
6. Touch up paint should be provided by Harmony.

If you wish for a step-by-step illustration of the installation process please continue through the pages.

Installation Preparation

1. Measure opening to confirm you have the correct opening for the guard.
2. Make sure you have the correct accessories for the guard: (Size and mark numbers are on packing list.)
 - a. Scribe Angle
 - b. H-mullion
 - c. J-channel
 - d. Fasteners
 - e. Any miscellaneous tubes or angle
3. The tools you'll need:
 - a. Power drills
 - b. Screwdrivers
 - c. Hammers
 - d. Wrench
 - e. Tape Measurer
 - f. Drill bits for installation screws
 - g. Vise grips

J-Channel Installation

1. Take the J-Channel and place it at the head of the opening. (May need to trim)
2. Fasten the J-Channel tight to the opening using predrilled holes. (Use appropriate fastener.)

General Note: The J-channel allows adjustment of the guard up and down to compensate for opening variations.



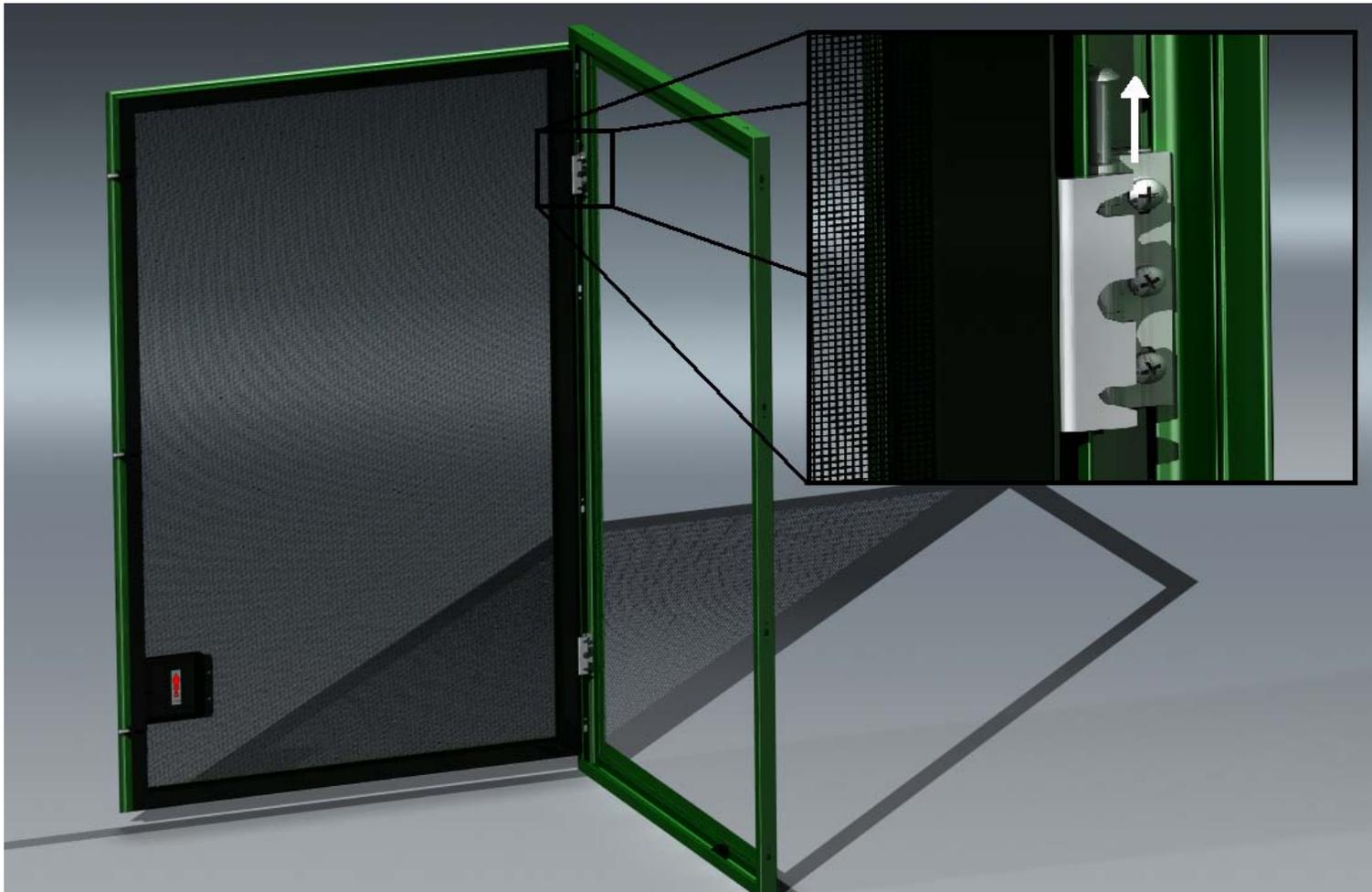
3

Remove Door From Subframe

1. Remove the door from the subframe by pulling out the hinge pins located in the subframe as shown in the close-up below
 - a. If you have multiple guards in one opening, see page (4A).
 - b. If you have a single guard in one opening, see page (4B).

General Note: Removing the door significantly reduces the weight making the installation of the Subframe much easier.

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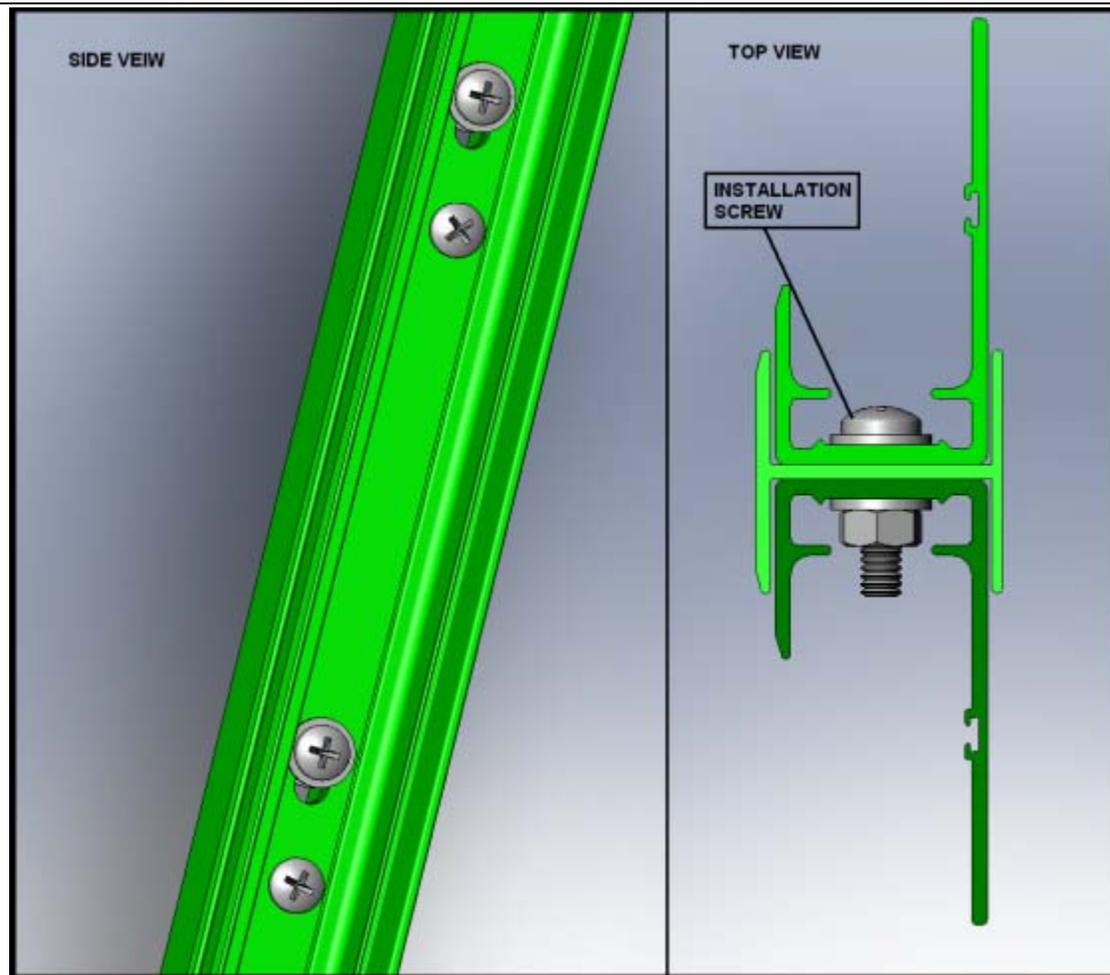


4A

H-Mullion Installation

1. Put the H-mullion between the two Subframes and install ¼-20 bolts, washers and nuts supplied in the slotted installation holes. Tighten the bolts pulling the Subframes completely together to the H-mullion.
2. Place the complete unit inside the opening while locating the head of the Subframe inside the J-channel. Make sure the Subframe is plumb.
3. Run in a few scribe screws to help hold the Subframe.
4. Mark the installation holes on the opening *through the slot* in the Subframe (not the scribe screw hole.) Remove the Subframe and drill all the marked holes.
5. Insert the lead anchors into the previously drilled holes.
 - a. Go to Page 5

4A



4B

Drilling/Marking

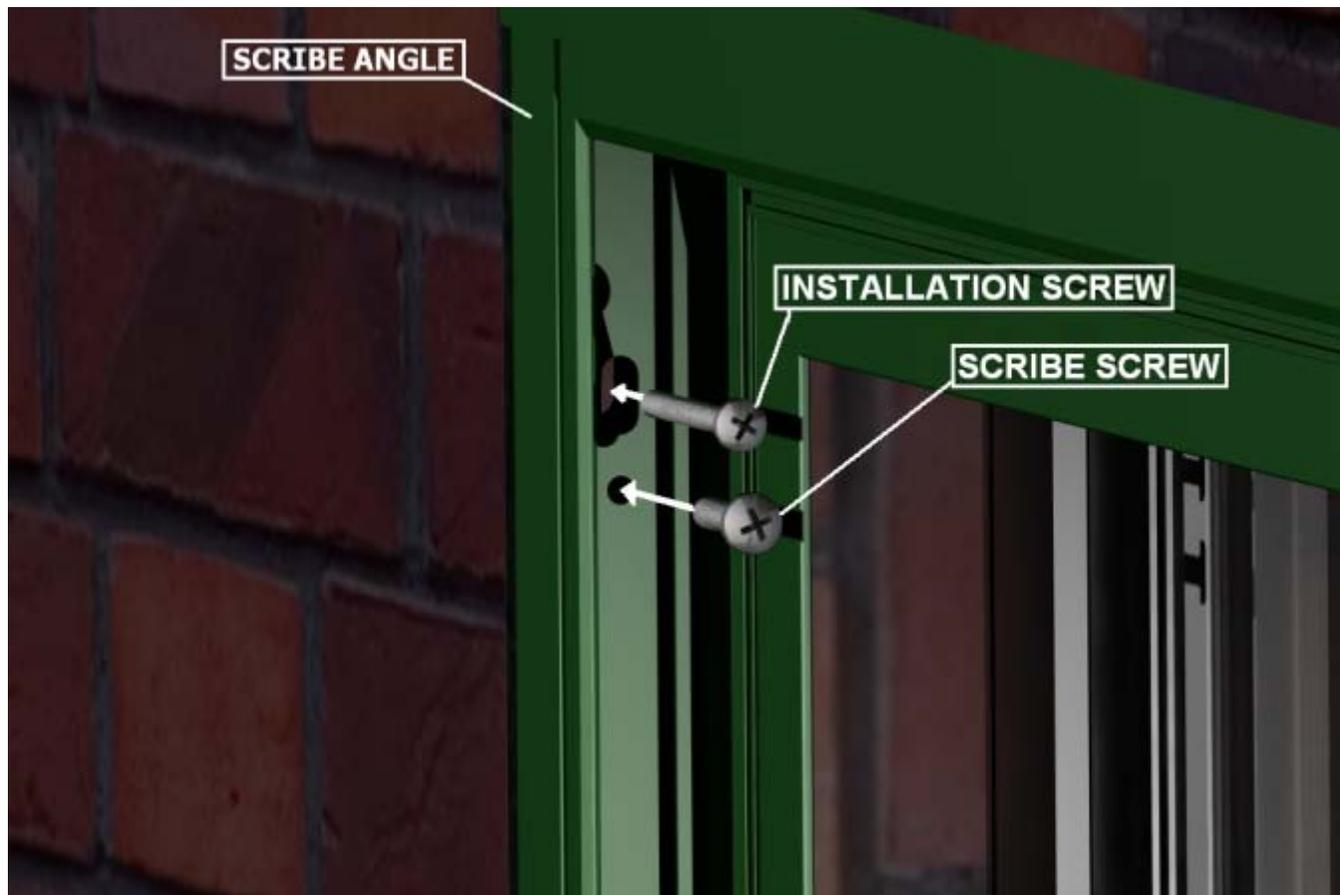
1. Place the Subframe inside the opening while locating the head of the Subframe inside the J-channel. Make sure the Subframe is plumb.
2. Run in a few scribe screws to help hold the Subframe.
3. Mark the installation holes on the opening *through the slot* in the Subframe (not the scribe screw hole.) Remove the Subframe and drill all the marked holes.
4. Insert the lead anchors into the previously drilled holes.

4B



Subframe Installation

1. Slide the scribe angle in at the jambs of the opening and make sure the holes in the scribe angle match the subframe's *slotted* holes. If not, drill through the scribe angle from the *slotted hole* in the subframe.
2. Fasten the Subframe by installing the installation screws (#12 x 2" SST PPH sheet metal screw or other approved fastener) into the lead anchors at the jambs of the opening.
3. Next put in the scribe screw (1/4-20x1" SST PPH thread cutting screw.) These screws should be installed in the jamb, head & sill. You will use these screws to square the guard in the opening. Make sure the scribe angle is pushed tight to the opening to cover any gaps and that the top of the guard is in the J-channel.
4. Once the Subframe is squared and located properly, tighten the installation screws on the jambs and install the installation screws at the head and sill.

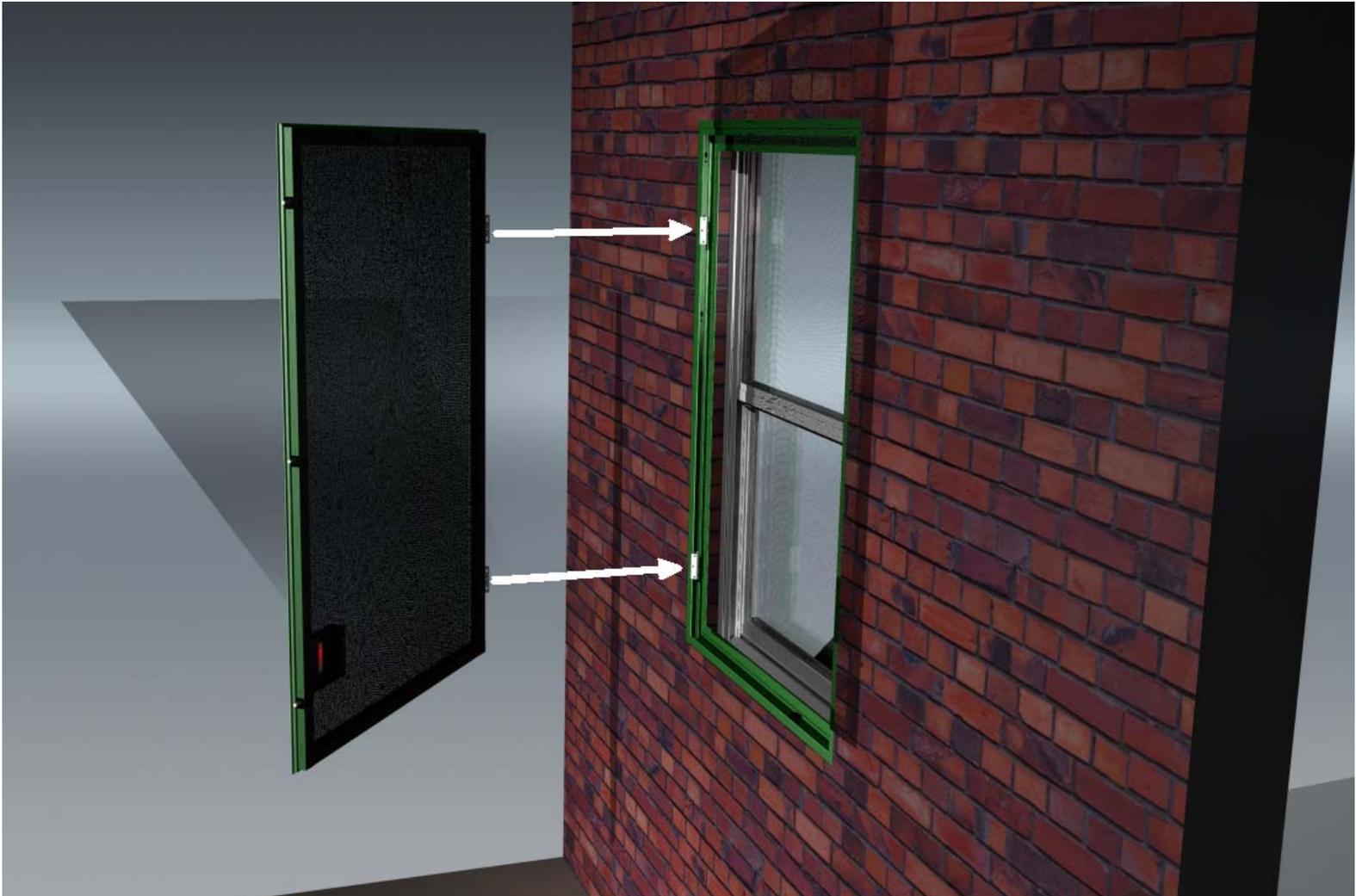


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Installing Door Into Subframe And Adjustment

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1. Match the hinges on the door with the hinges on the Subframe and insert the hinge pins you removed earlier.
2. Close and lock the door. There may be some adjustment necessary. If you need to adjust, loosen the installation screws and adjust the scribe screws as needed. Retighten the installation screws afterwards.



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Lock Strike Adjustment

1. If the door fits loose in the Subframe (rattles) you can adjust the lock strike to tighten the door.
2. Loosen the screws and move the lock strike in the desired direction and retighten the screws. Repeat as necessary.

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