Security Boss® In-the-Glass Pet Doors

Installation Guidelines

These are guideline for installation, not step by step instructions.
Installation should be performed by a professional glass Glazier only

Security Boss® In‐the‐Glass Model Pet Door should only be installed by a professional in the glass industry. Security Boss® does not guarantee any installation of our pet doors. The uniqueness of the installation situation make it imperative that you work only with professionals that have experience and are bonded. As the manufacturer of the In‐the‐Glass Model Pet Door, we warranty the pet door only, not the medium that it is installed.

Overview
Basic guidelines for installing a Security Boss In-Glass Pet Door® in Sliding Glass Doors.

Please note that there are many types of sliding glass doors. This guide is to be used for "standard" type sliding glass doors*. The installation process involves replacing an existing Insulated Glass (IG) Unit with a new "custom" IG unit that will be "notched" or cut in one of the bottom corners where the Security Boss® Pet Door will be installed.

Once installed, the specially designed low profile exterior frame will allow the sliding glass door to bypass the opposing door panel and operate as intended with full sliding functionality. The design will also permit the use of the existing door lock.

*Standard ‐ the glass goes into the molding of the door by 1/2 inch (glass is covered by 1/2 inch of molding). This will not be the same for all doors because of glass door make, model, material and molding variables.

Objectives:

1. Measure Glass
2. Remove existing Insulate Glass (IG) Unit
3. Install a new IG Unit
4. Security Boss® In-Glass Pet Door Installation

Measure Glass - (On Site with Customer - ALWAYS)

Tools you may need:

- glass check tool
- caliper
- tape measure
- putty knives or 5 way tool

1. Determine what pane of glass to install the pet door.
   Note: The pet door must always be installed into the door panel that is positioned closest to the inside of the home to allow proper function of sliding door.

2. Determine what side of the chosen pane (right/left) to install the pet door.

3. Measure the actual glass width and height.

4. Measure total glass thickness (glass check tool).

5. Determine if IG unit has tint or LOW - E (glass check tool).

6. Determine the type of SPACER used in the IG unit (The spacer is located at the perimeter of the IG unit and keeps the two panes of glass separated at a specific gap to create the air space. It is typically composed of aluminum, stainless steel, or silicone foam and filled with desiccant).

7. Determine the size of Pet Door needed based on the pet size and the distance from the bottom of the pet door flap to floor. (Note: A correct pet opening will be large enough to clear the shoulders of the largest pet using the door. Remember the pet door will rest on the bottom frame of the sliding door). Sizing Example: If your pet is 21 inches tall to the shoulder and there is a 3 inch distance from the floor to the bottom of the pet door flap then the top pet door flap will be at a height of 24 inches. Take this into account when choosing your size pet door. In this instance we could use the Large Pet Door 13x20 because of the 3 inch gain.

8. Determine "notch" dimensions based on the pet door size.
Notch - When a new IG glass unit is ordered you must include the cut out (notch) measurements for the fabrication of the unit (See following chart for notch sizes).

*To determine the notch size for custom Security Boss® Pet Door sizes add 1/4 inch to the tip - to - tip measurement of the pet door frame.

Maxseal Pet Door Size	Pet Opening	Notch Dimension
Small	6" x 7.5"	9 5/8" x 10 13/16"
Small / Medium	7" x 9"	10 5/8" x 12 5/16"
Medium	9" x 12"	12 5/8" x 15 5/16"
Large	11" x 16"	14 5/8" x 19 5/16"
Tall	11" x 20"	14 5/8" x 23 5/16"
Tall Grand	11" x 25"	14 5/8" x 28 5/16"
XL Grand	12" x 24"	15 5/8" x 27 5/16"
Wide Tall	15" x 20"	18 5/8" x 23 5/16"
Mammoth	15" x 24"	18 5/8" x 27 5/16"
Behemoth	15 3/4" x 32"	19 3/8" x 35 5/16"

SB Standard Pet Door Size	Pet Opening	Notch Dimension
Small	7" x 11"	10 3/8" x 14 5/16"
Medium	10.5" x 15"	14 1/16" x 18 5/16"
Large	13" x 20"	16 5/8" x 23 5/16"
Extra Large	15” x 23”	18 5/8" x 26 5/16"

9. Order new IG unit from local glass fabrication company based on actual glass measurements, total glass thickness, notch measurements, spacer type, Low - E and tint requirements.

Security Boss® Pet Door Installation

Tools you may need:

- putty knives / 5 way tool
- drop cloths
- level
- drill
- silicone sealant
- Phillips & Standard screwdrivers

1. Depending on the type of slider, you may have to remove the panel from the door frame (locate and take out plastic stoppers) and lift the panel out or you may be able o remove the IG Unit without lifting the panel out.



Figure 1 Panel removed from doorframe

2. Locate the removable molding (may be on the inside or outside of panel) and remove from all sides. Typically you can loosen the molding with a putty knife / 5 Way tool by sliding the tool under the molding or between the molding and door frame. Twist with caution not to damage the molding, as you will reuse this for the new IG Unit. Once loosened, pry the molding off.



Figure 2_ Molding removed

3. Carefully remove the IG Unit - Once the molding is out, the IG Unit is held into place by silicone on the opposite side of the molding. Use a putty knife to pry between the IG Unit and the panel frame all the way around the IG Unit to break the silicon seal in order to remove the IG Unit



Figure 3 IG unit removed from door panel

4. Install new IG Unit into the door panel - use silicone sealant and apply only on surface of panel that the new IG Unit will have contact with.



Figure 4 New IG Unit installed in door panel

5. Install the removed molding on all sides



Figure 5 Molding installed

6. " FILL BARS" or "FILLER BLOCKS" will be the same total thickness of IG unit (i.e. 1 inch) by desired length. Typically HDPE or similar polycarbonate is used to fabricate the needed FILL BARS.



Figure 6 FILL BARS cut to length

7. Install FILL BARS into the gaps where the IG Unit does not make contact with the panel frame. Attach to panel frame with silicone sealant.



Figure 7 FILL BARS installed

8. Place the interior pet door frame (the one with the removable panel) along with the 1" *or* 1/2" adapter into the notch opening of the sliding door. Notice the clearance between the pet door frame and the glass on the IG Unit. This gap is necessary as the edges of the IG Units are extremely fragile and will break if the metal door frame comes into contact with the glass.



Figure 8 Gap clearance between pet door and glass

9. Snap the outside pet door frame into the interior frame and sleeve the two frames together.

10. Using the pre-drilled pilot holes and supplied drill bit and insert one screw. Make sure the door is level. When level, tighten the inserted screw. Affix the remaining screws into place using the pilot holes as guides.

Important Note: Use a short screw (5/8 inch) for the pilot hole on the glass side to prevent the screw from hitting the glass!! Standard screws can be used for the remaining pilot holes.



Figure 9 Pet door installed in door panel

(Security Boss Manufacturing LLC has included One-Way Security Screws as well as Phillips head screws to give customers a Tamper-proof option in their door installation)

11. Once the pet door is installed you can fill any gaps and seal the edges with silicone sealant.

12. Install the door panel into the door frame, ask the customer not to use the pet door for 2 hours to allow the silicone to set.

13. Your slider will open and close as designed with the pet door installed.



Figure 10 Slider with Security Boss Maxseal pet door

Manufacturers Note: The Security Boss® In‐the‐Glass Model Pet Door is designed to be installed by professional glass glaziers that have experience installing pet doors into glass. For this reason, this product is only sold under the assumption that a professional will be installing this product. It is NOT designed for the homeowner, handyman or building contractor to install.