

The performance and proper operation of a door is only as good as the installation. By following these instructions, the probability of a good installation greatly increases.

Please read and understand all instructions before beginning. These instructions cover the non-impact aluminum French Door 101.

### Notice / Important / Warning

Due to structure design, construction methods, and the variety of products that can be assembled and installed, PGT strongly recommends consultation with an architect or structural engineer prior to the installation of any PGT product. PGT disclaims any and all liability associated with the use and/or provision of these instructions.

For sealant type and application see job specification for each job.

These instructions were developed for the use of PGT Independent Distributors and other industry professionals working with PGT products. PGT strongly recommends homeowners consult with a PGT Independent Distributor for the installation of any PGT product.

**Flashing and/or sill pan methods shall be determined by the contractor or engineer, and should be incorporated into the following instructions.**

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## SAFETY

To avoid personal injury when working with windows, PGT recommends at least two people for installation.

- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear as necessary.
- Read and fully understand ALL manufacturers' instructions before beginning.

## INSPECTION OF PRODUCT

1. Inspect the product and take inventory of all parts and pieces prior to installation. (ex. slabs, paint, glass, sidelites, etc.)

**NOTE:**

If there is any damage to the product, or missing parts, an assessment should be made as whether or not to install the product.

## IMPORTANT STEPS PRIOR TO INSTALLATION

1. Remove any shipping screws marked with orange tabs, located at the head and sill.
2. Remove package of vinyl screw plugs under drip cap for later use. Be sure to replace drip cap prior to installation.

## OPENING INSPECTION AND PREPARATION

- Ensure bucks are of proper material according to job specifications.
- Block openings should be a clean surface, free of dust and debris.
- Bucks shall be attached and sealed to job specifications.
- If bucks are already installed inspect bucks for damage and replace as needed. (ie. split or rotting wood)
- Bucks shall be continuous. If gaps are present in corners and greater than 1/8", they will need to be replaced. (See figure 1)
- Bucks shall be at least as wide as the main frame width, providing full support for the frame. (See figure 2)
- Inspect concrete for cracks. Cracked or damaged concrete should be repaired prior to installation.
- Sill must be smooth and level. Correct any imperfections prior to installation.



Figure 1



Figure 2

## INSTALLATION SPECIFICATIONS REGARDING BUCKS

**Note:**

Contact your local building department regarding buck anchorage. If your local building department does not provide specifications on buck attachment, then you may have to provide appropriate engineering.

## INSTALLATION OF SINGLE/DOUBLE UNIT WITHOUT SIDELITES

**Note:**

Single and double door units will be pre-assembled with the exception of hardware. If a deadbolt is to be installed, it is recommended to install and engage the deadbolt to keep the door(s) centered.

**Caution:**

When installing an equal leg frame, it is pertinent the product is installed plumb, level, square and true, even if the bucks or opening are not.

## DRY FITTING THE FRAME

1. With the door(s) closed and locked, place the entire unit into the opening.

**Warning:**

A fenestration product should never be forced into an opening.

2. Temporarily remove level and square. Divide the shim space equally on both sides of the jambs. The main frame should be checked again for level, plumb, square and true. (See figure 3)

- Maximum shim space is  $\frac{1}{4}$ " around the entire perimeter of the frame. If gaps between the main frame and the substrate are greater than  $\frac{1}{4}$ ", adjustments will need to be made to the opening.
- If shims are needed due to space between main frame and bucks, they should be placed at all anchor locations. If there is a gap leave.
- Shims should fully support the depth of the main frame.
- Shims placed under the main frame sill should be of a high compression material. Checking for level after installing each fastener and avoiding over tightening the installation screws will help ensure a successful installation.

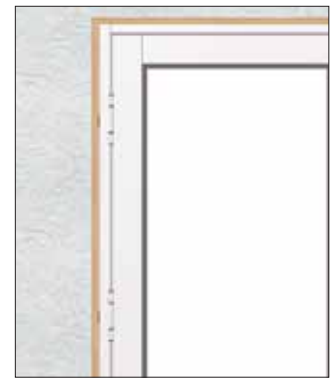


Figure 3

**Caution:**

Do not over shim, as you can bow the frame.

3. Mark anchor locations, trace interior & exterior of main frame, and note location of shims being used during dry fit.
4. Remove the door frame from the opening and drill as required.

## FRAME INSTALLATION

1. Clean all areas where sealant will be applied to the opening and the product.

**Note:** Remember to seal to job specifications.



Figure 4

2. From the exterior, set the entire door and frame into the opening.
3. Pivot the frame into an upright position. Ensure that the install and predrilled holes are in alignment. (See figure 4)
4. Shim to level, plumb, square and true.
5. Install two (2) of the fasteners (1 on each end) through the threshold and into the substrate. (See figure 5)



Figure 5

**Note:** Always refer to the test report for type, size and location of fasteners needed.



Figure 6

6. Place one (1) fastener loosely into the top of one of the frame jambs. (See figure 6)
7. Place one (1) fastener into the top of the opposite frame jamb that is not yet secured.
8. Continue installing the remainder of the fasteners and shims, including the first fastener. Check periodically to ensure unit is level, plumb, square and true.
9. Cover all installation holes with vinyl jamb plugs provided in the hardware package.
10. Install the install screw cover. (See figure 7)



Figure 7

## ADJUSTMENT OF THE 2-POINT STRIKER PLATES

1. Place a piece of masking tape over the hole in the striker plate without covering the two screws. (See figure 8)
2. With the active door open, engage the 2-point lock and mark the top and throw rod with chalk or a similar substance.
3. Disengage the 2-point lock and close the active door.
4. Engage the 2-point lock in the closed door. This action will leave a mark on the tape in the head.
5. Open the door.
6. Carefully loosen the screws on the striker plate being careful they do not fall out. Adjust the opening of the striker plates accordingly.
7. The sill will come with medium size spacer installed. If it does not provide the correct fit, remove and replace with large or small spacer. (See figure 10)
8. Check operation.



Figure 8

## FRENCH DOOR 101 WITH SIDELITES 102

**Note:** Attach sidelite(s) to the door main frame prior to putting the unit into the opening. The sidelite jamb has a  $\frac{3}{4}$ " deep channel that fits over the main frame of the French Door.

There is a top and a bottom to the sidelite(s). The top of the glass in the sidelite(s) should line up with the top of the glass in the slab. Likewise, the sidelite sill should line up with the door sill. (See figure 9)

1. Temporarily attach sidelite adaptor, mark holes, remove and predrill, so as not to damage sidelite. Reattach adaptor aligning predrilled holes with anchor holes in sidelite. (See figure 10)
2. Attach the sidelite(s) by placing the screws from the jamb of the sidelite into the jamb of the French door (See figure 11)
3. Refer to instructions for installing a French Door 101 without sidelite(s). Keep in mind, your fasteners will go through the sidelite into the door main frame. (See figure 12)



Figure 9

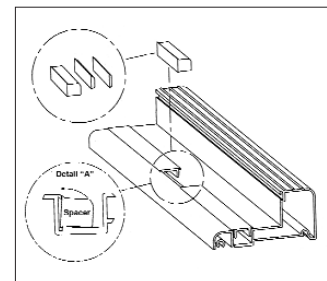


Figure 10

**Note:** Three different adjustment spacer sizes are provided. The spacer is used to increase the amount of play in the doors for the flush bolts and/or the 2 pt. lock.

## ALUMINUM FRENCH DOOR

### Series FD101

**Specifications:**

- Door members are extruded from a minimum of 6063-T5 aluminum alloy (except where noted)
- Doors are prehung with 7" hinges
- Door frame is weatherstripped
- 2 point lock system
- Finish is white, bronze or gray
- Tubular door jamb - 1 1/2" x 3"
- Door stiles foam filled for sound insulation
- Door stiles threshold 1 1/2" height
- Standard bore for lock and deadbolt:
  - 2 1/8" hole - 2 3/8" set back
  - 4" center to center
- Tempered 3/16" glass
- Glazing is exterior
- Available in standard and custom sizes
- All doors are viewed from outside looking in

**Notes:**

- Doors are tested in accordance with PA/TAS 202 specifications
- Miami-Dade County approved (see approval for specific order options)
- Tested forced entry resistance
- Tested air infiltration to ASTM E283
- Tested water resistance to ASTM E547/E331
- Test reports available upon request

**Clear opening formula for egress:**

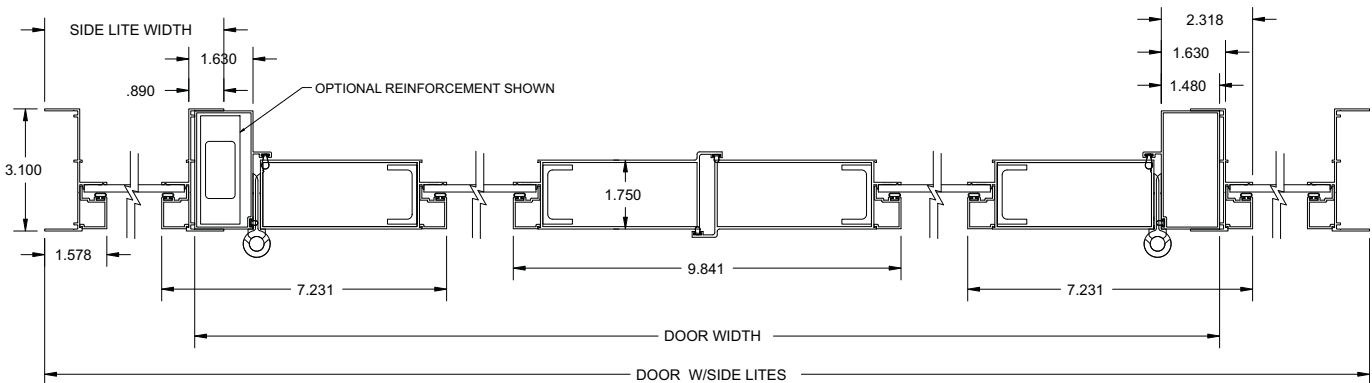
Egress formula: double door width / 2 - 1.567"  
 Egress formula: single door width - 3.896"  
 Egress height: single and double doors height - 3.259"

NOTE: PGT reserves the right to change material design and/or construction without notice or liability.

**Options:**

- Single or double doors
- 5/8" insulating glass
- Popular glass tints
- Optional center distance spacing:
  - 5" center to center handle and deadbolt hole spacing
  - 5 1/2" center to center handle and deadbolt hole spacing
  - 6" center to center handle and deadbolt hole spacing
- Double applied or double raised colonial muntins
- Colonial insulating (muntins between glass)

## INSIDE



**VIEW FROM DIRECTION OF SWING**  
to determine  
hinge left or hinge right  
active left or active right

## OUTSIDE

### Top View Outswing

## ALUMINUM FRENCH DOOR PARTS

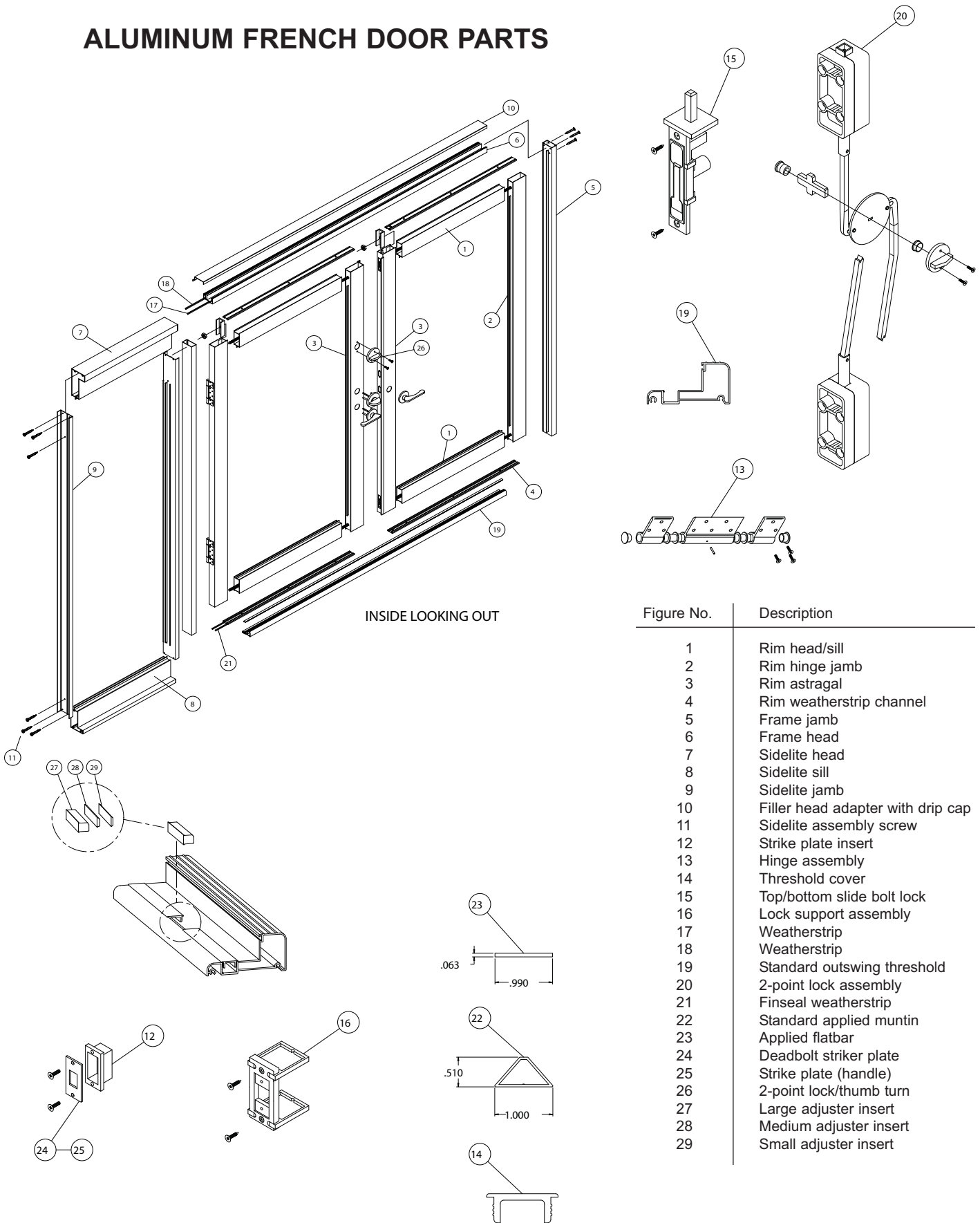


Figure No.	Description
1	Rim head/sill
2	Rim hinge jamb
3	Rim astragal
4	Rim weatherstrip channel
5	Frame jamb
6	Frame head
7	Sidelite head
8	Sidelite sill
9	Sidelite jamb
10	Filler head adapter with drip cap
11	Sidelite assembly screw
12	Strike plate insert
13	Hinge assembly
14	Threshold cover
15	Top/bottom slide bolt lock
16	Lock support assembly
17	Weatherstrip
18	Weatherstrip
19	Standard outswing threshold
20	2-point lock assembly
21	Finseal weatherstrip
22	Standard applied muntin
23	Applied flatbar
24	Deadbolt striker plate
25	Strike plate (handle)
26	2-point lock/thumb turn
27	Large adjuster insert
28	Medium adjuster insert
29	Small adjuster insert