ELEPHANT
WINDOWS & DOORS

FOLDING DOOR INSTALLATION GUIDE

Elephant Bi-Fold Door System · HD-F

ELEPHANT WINDOWS & DOORS, INC.
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1 Outer Frame (Knock-Down) - Assembling the Four Corners

Fig. 1



1. Read the labels on the frame profiles to identify Interior vs. Exterior, and Top, Bottom, Left, and Right.
2. Clean the 45° mitre faces of the outer frame and apply waterproof sealant.
3. Insert the corner cleat into the profile cavity and secure it with screws.
4. Align the flat-bottom track with the profile cavity, apply sealant, then fasten.

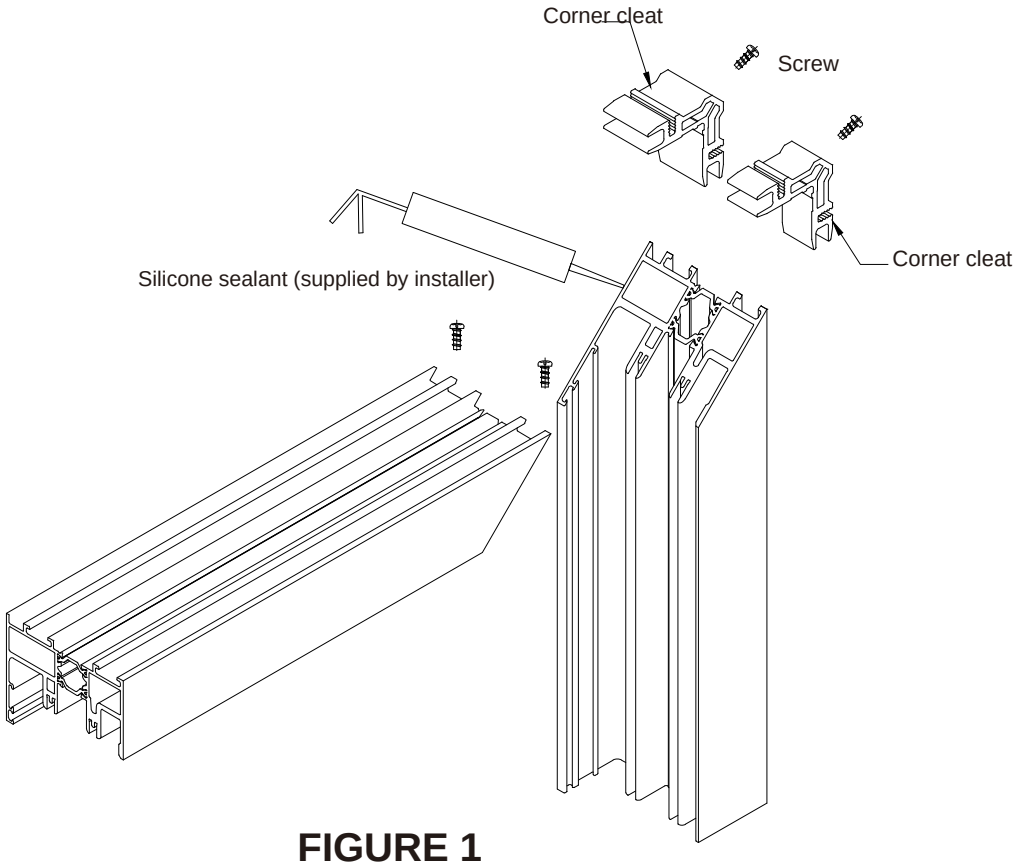
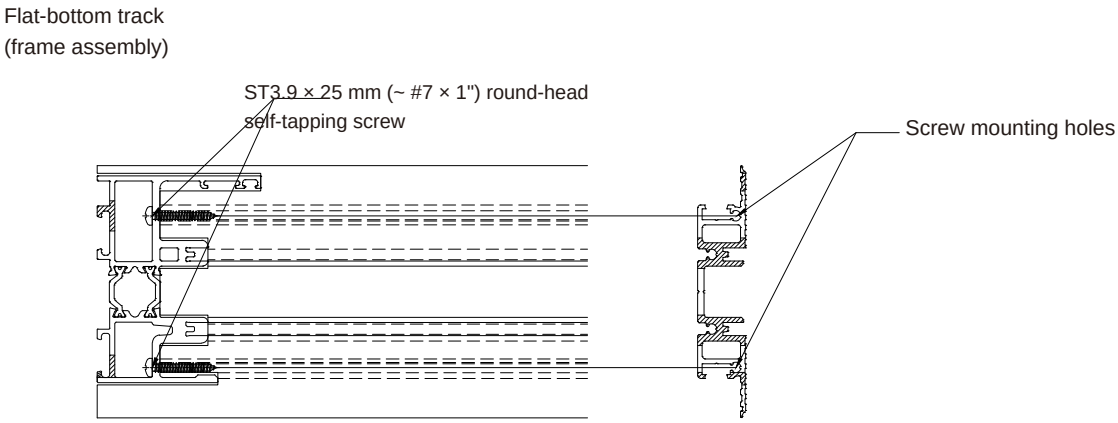


FIGURE 1



2 Removing the Vertical "Adjustment Profiles" on Both Sides

Purpose: to fasten the mounting screws and secure the door frame to the structure.

1. Detach the gasket from the "adjustment profile."
2. Each "adjustment profile" has at least four "adjustment units" on both its interior and exterior sides. Use a screwdriver to loosen their screws so the "adjustment profile" can be removed. (See Figure 2.)

Note: in the standard configuration, the adjustment profile and door panels are already connected at the factory.

3. Using the "mounting screws" together with the "mounting shims," fix the frame to the structure.
4. For every top, left, and right vertical frame profile that needs screws, fit a "shim" and fasten it to the structure.
5. Once the frame is fastened, reinstall the "adjustment profiles" onto both side jambs.

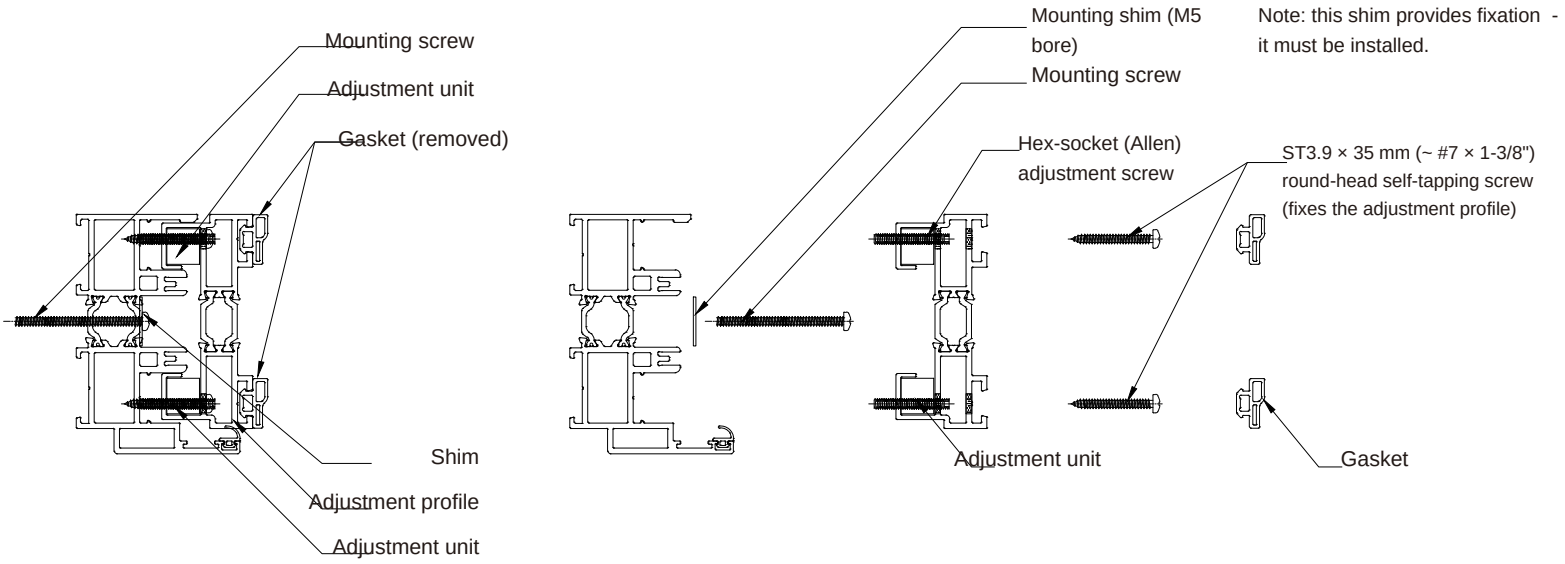


FIGURE 2

3 "Adjustment Unit" - Setup & Adjustment (left/right panel tolerance)

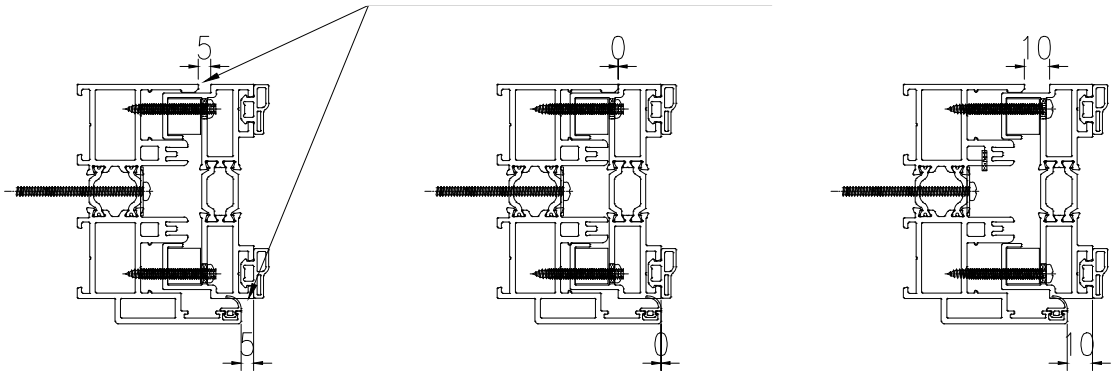
The "adjustment unit" compensates for dimensional tolerances in the manufactured panels that can make them open and close poorly. Use the adjustment-unit blocks on the left and right of the frame to restore smooth operation.

Panel tightness adjustment:

The adjustment profile ships with a standard 3/16" (5 mm) reserve (at zero tolerance). After the panels are installed, adjust the tightness as follows:

1. Open the gasket on the edge-trim profile to expose the adjustment-unit blocks, then loosen the fixing screws.
2. Turn the "hex-socket set screw" (per side: loosen up to 3/16" / 5 mm, tighten up to 1/8" / 3 mm). Once positioned, retighten the self-tapping fixing screws. The edge trim has at least four adjustment-unit blocks inside and four outside, secured with screws - adjust both sides to finish.
3. Bring the profile into a straight line, with the inner and outer aluminium faces at 90° to the frame and free of twist; reinstall the gasket when done.

Watch the gaps - keep them uniform top-to-bottom and inside-to-outside



STANDARD
gap ~ 3/16" (5 mm)

MAX. TIGHTENING
gap ~ 0

MAX. LOOSENING
gap ~ 3/8" (10 mm)

Units: dimensions shown in inches with millimetres in parentheses. In-drawing tick-marks remain metric (100 mm ~ 4" ; 5 mm ~ 3/16").

4 Installing the Door Panels

1. Fix the end panel to the vertical jamb of the frame first (e.g., #1).
2. One by one, tilt the panels fitted with hinge rollers into the frame (e.g., #2, #4).
3. After all panels are in the frame, fasten the connecting hinges between the panels.

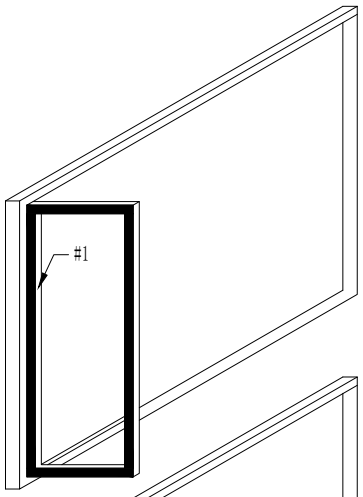


FIGURE 3

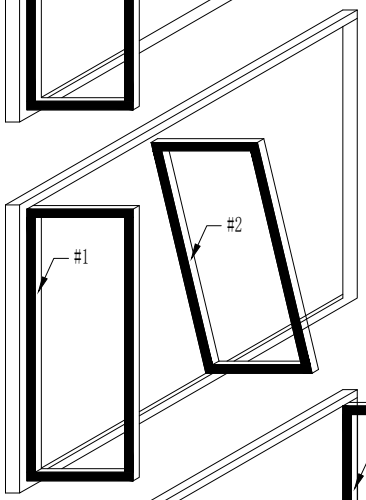


FIGURE 4

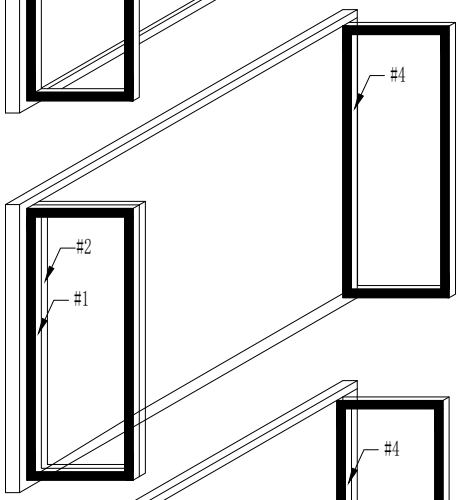


FIGURE 5

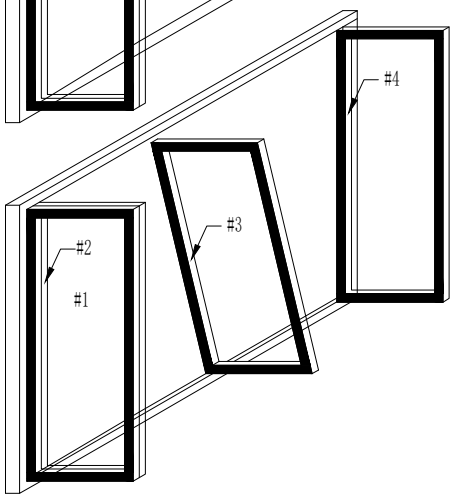
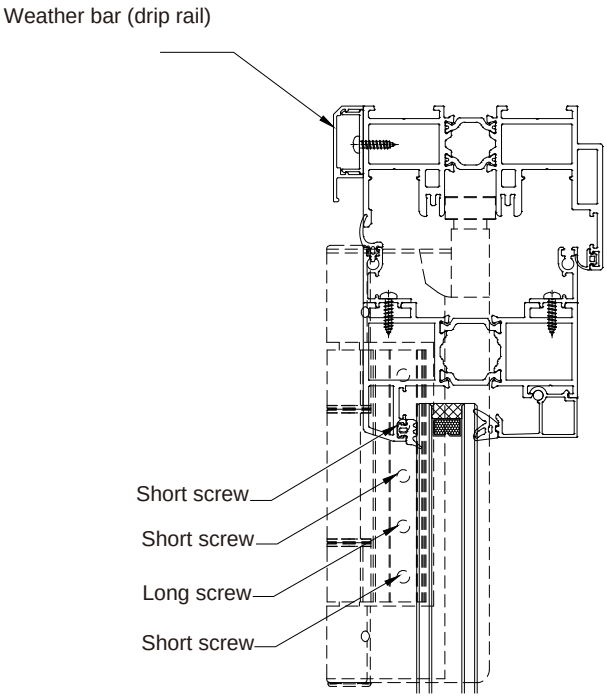


FIGURE 6

5 Installing the Roller Screws and the Weather Bar

1. Each roller uses four screws - three short and one long. Be careful to tell them apart during installation.
2. Install the weather bar at the head of the frame so it does not interfere with the panel gasket.



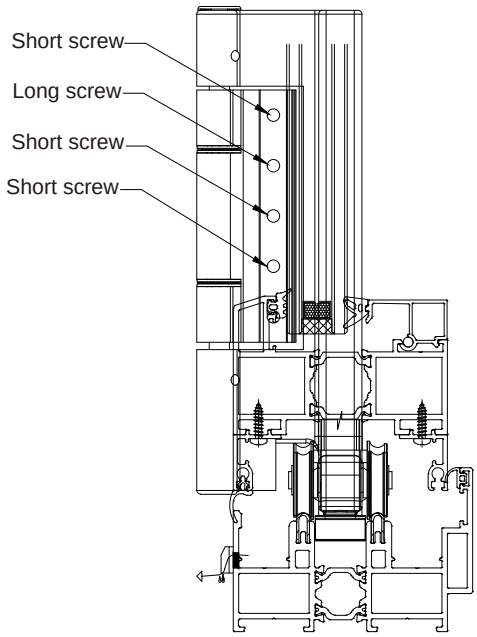


FIGURE 7

6 Installing the Panel Glazing Blocks

1. Place two 1-1/4" × 3/16" (32 × 5 mm) glazing blocks between the panel aluminium and the glass (see detail node).
2. For the glazing-block layout, see Figure 8.

Glazing blocks 1-1/4" × 1/16" or 1/8" (32 × 2 or 3 mm, L = 4" / 100 mm):
When the folding door is opened, the panels become cantilevered, so the panel and glass tend to deform under their own weight. Correct glazing-block placement adjusts the shape and transfers the deformation load into the top and bottom track profiles, keeping the panels operating normally.

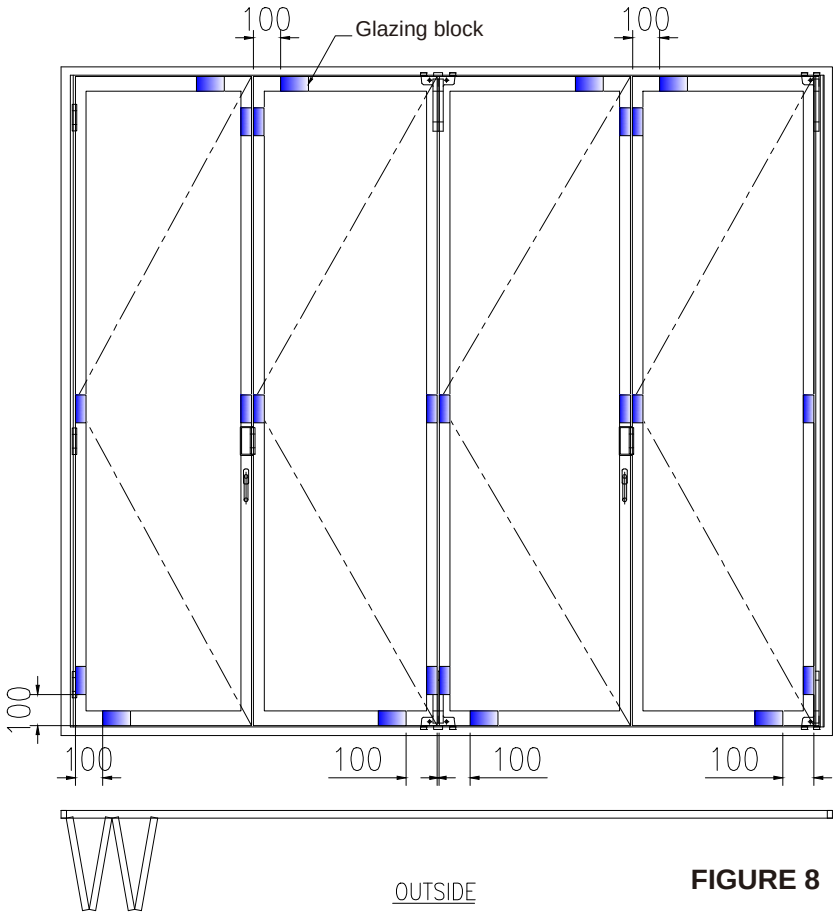
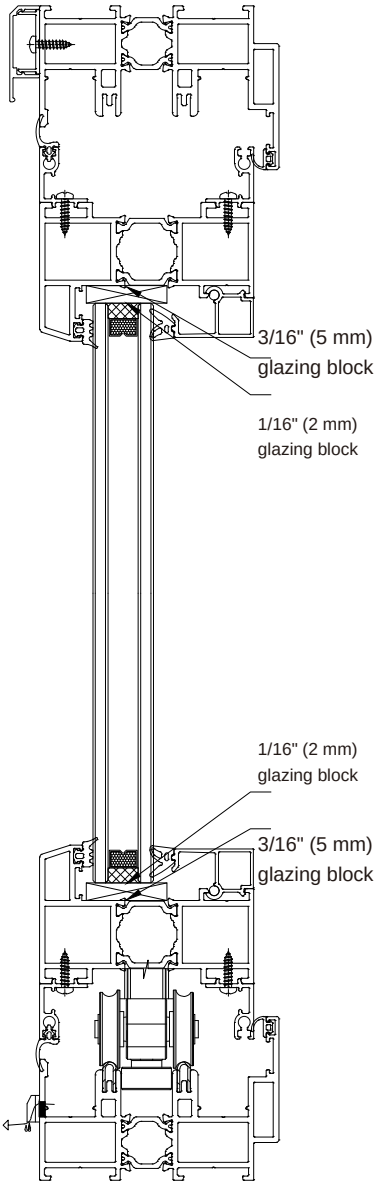
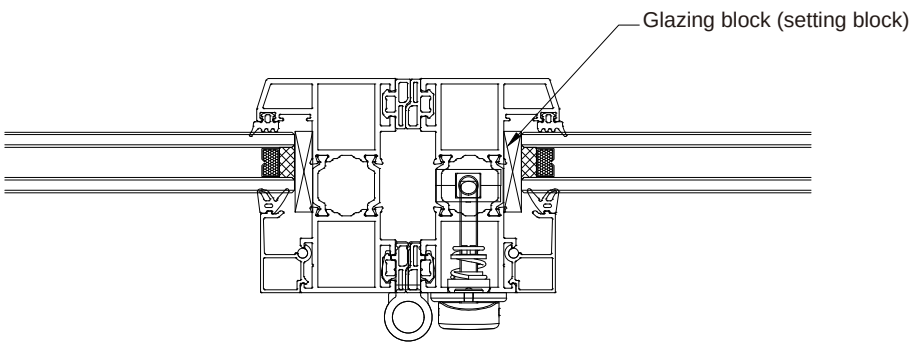


FIGURE 8





Units: dimensions shown in inches with millimetres in parentheses. In-drawing tick-marks remain metric (100 mm ~ 4" ; 5 mm ~ 3/16").