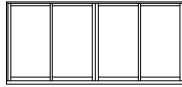


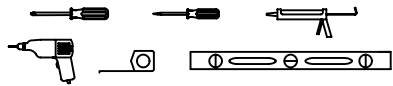
Series 420



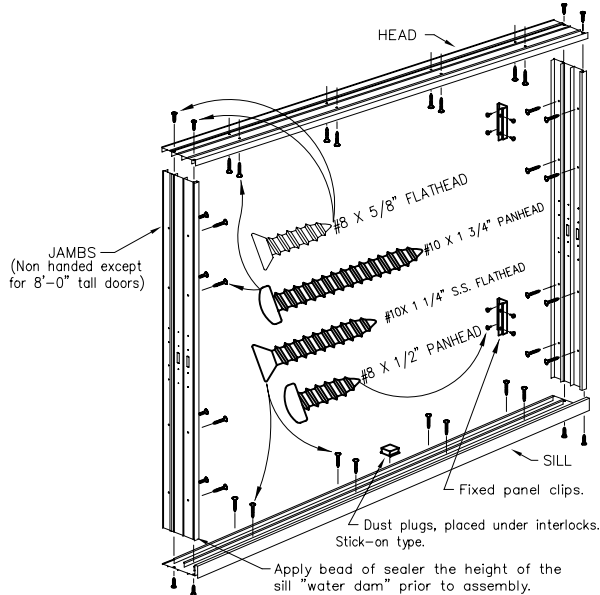
4-Panel Sliding Glass Door

Installation Instructions

TOOLS REQUIRED:



- PHILLIPS & SMALL FLAT SCREWDRIVERS
- SEALER & CAULKGUN
- ELECTRIC DRILL / SCREWGUN
- TAPE MEASURE
- LEVEL
- TAPERED WOOD SHIMS
- NAILS FOR OPTIONAL NAILING FIN (CERTAIN APPLICATIONS)
- #8 COLLARLESS MASONRY ANCHORS (CERTAIN APPLICATIONS)



Caution: Before you begin, compare the overall dimensions of the frame to the rough opening. Make sure the opening is square and plumb and that there is adequate clearance (approx. 1/4" all around) for leveling and shimming.

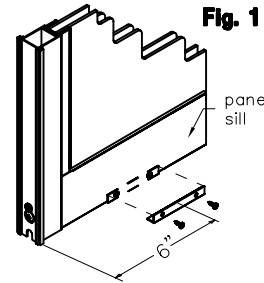
1. Layout head, jambs and sill and assemble with eight # 8 x 5/8" flathead screws. If optional nail fins are used, slide into grooves prior to assembly. Two people are recommended for assembly.

2. Apply a quality brand of non-hardening sealer such as silicone or solvent based narrow joint seamer (Schnee-Morehead #5504) to all outside corners of the frame, making sure to cover screw heads and all threads at sill.

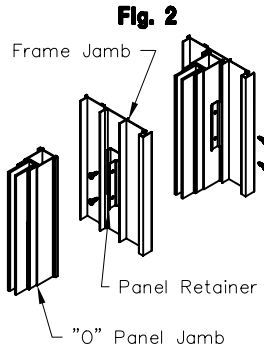
3a. FOR APPLICATIONS WHERE THE SILL WILL BE SCREWED DOWN, drill out the pre-formed countersinks in the sill. Apply sealant liberally to underside of sill, full length. Place frame in opening, (square, level & plumb) and install screws in all mounting holes using shims as required. For concrete slab applications, drill through holes in sill and fasten with collarless anchors. Seal all screw heads in sill.

3b. FOR APPLICATIONS WHERE THE SILL WILL BE "MUD" LEVELED, the American Architectural Manufacturers Association (AAMA) advises that aluminum that will be in contact with mortar or plaster should be painted with an alkali resistant paint. Prepare mortar and install frame and fasten as in 3a.

4. Identify the operating "X" panels. These are the panels with a handle set on one jamb and interlocks on the opposite jamb. Before installing panels you must first install one 3" long "L" shape clip on the interior surface of each panel sill. Panels will be installed in center of opening with handle sets facing each other. Attach clips 6" from the latch side of panel as shown in Fig. 1. Attach using (2) # 6 x 3/8" phillips screws. Install both operating panels from outside by lifting panel so that panel guide straddles leg on frame head and swing bottom of panel inward until panel sits on innermost track of frame sill. Adjust panel rollers so that panel jambs are parallel to frame jambs.



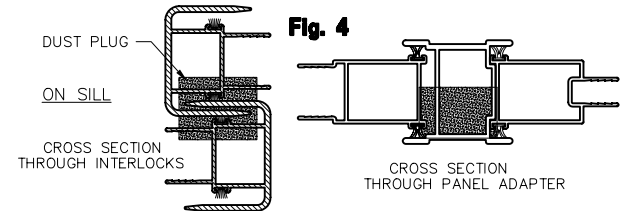
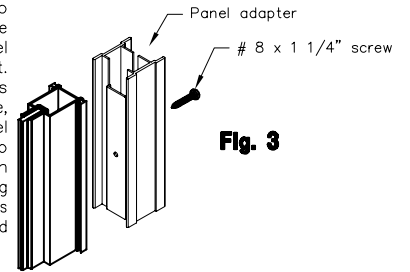
5. Attach 3" long panel retainer clips to frame jambs 12" from each end of jambs. Attach clips in the track the fixed panel will be in, (center track). Install with flat portion of clip to frame jamb as shown in Fig. 2. Attach each clip using (2) # 8 x 1/2" panhead screws through pre-punched holes in clip.



6. "O" panels will be installed from outside with interlocks to center of opening. Before installing panels, attach 3" long "L" shape clips to interior of panel sill 6" from interlock side of panel using (2) # 6 x 3/8" panhead screws as you did in step 4 to operating panel. See Fig. 2.

7. Install "O" panels from outside by lifting panel so that guide straddles leg on frame head and swing bottom of panel inward until panel sits on center track of frame sill. Adjust panel rollers so that panel jamb is parallel with frame jamb. Slide panel toward frame jamb so that panel jamb is as far as possible into frame jamb. By using pre-punched holes in retainer clips as a guide, drill 1/8" hole in panel jamb. Attach panel to clips using (2) # 8 x 1/2" panhead screws. See Fig. 2.

8. Attach panel adapter to operating "X" panel. Place adapter over "X" panel as shown in Fig. 3 at right. Using pre-punched holes in panel adapter as a guide, drill 1/8" hole in panel jamb taking care not to drill into glass. Attach adapter to panel by using # 8 x 1 1/4" panhead screws through each pre-punched hole.

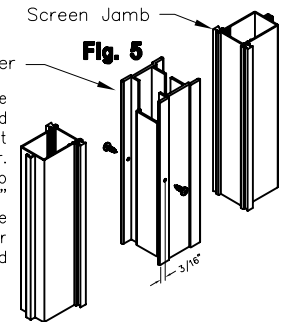


9. Install stick-on dust plugs at each end of panel interlocks and panel adapter as shown above in Fig. 4.

10. Install locking hardware as per separate instruction sheet. Check operation; adjust rollers if necessary.

Note: The following instructions are to be used only if optional screens were ordered.

11. Install screens from outside onto outside tracks so that handle sets are toward center of opening. Adjust rollers so that latch jambs are parallel to each other. Place screen adapter over screen jamb as shown in Fig. 5. Drill (4) 1/8" holes equally spaced 3/16" from edge of adapter on each side. Attach adapter to screen using # 8 x 1/2" panhead screws.

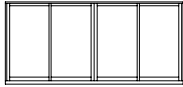


12. Install locking hardware as per separate installation sheet. Check operation; adjust rollers if necessary.

13. See reverse side for horizontal cross sectional drawing. This drawing will show panel orientation as well as door size and rough opening sizes.

(over)

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4-Panel Sliding Glass Door

Horizontal Cross Section

OXXO or XXXX

Nominal Size	Actual Door Frame Dimension	Rough Opening
10'0" x 6'8"	120 5/8" x 80"	121 1/8" x 80 1/2"
12'0" x 6'8"	144 5/8" x 80"	145 1/8" x 80 1/2"
16'0" x 6'8"	192 5/8" x 80"	193 1/8" x 80 1/2"
10'0" x 8'0"	120 5/8" x 96"	121 1/8" x 96 1/2"
12'0" x 8'0"	144 5/8" x 96"	145 1/8" x 96 1/2"
16'0" x 8'0"	192 5/8" x 96"	193 1/8" x 96 1/2"

