

Keltic Series

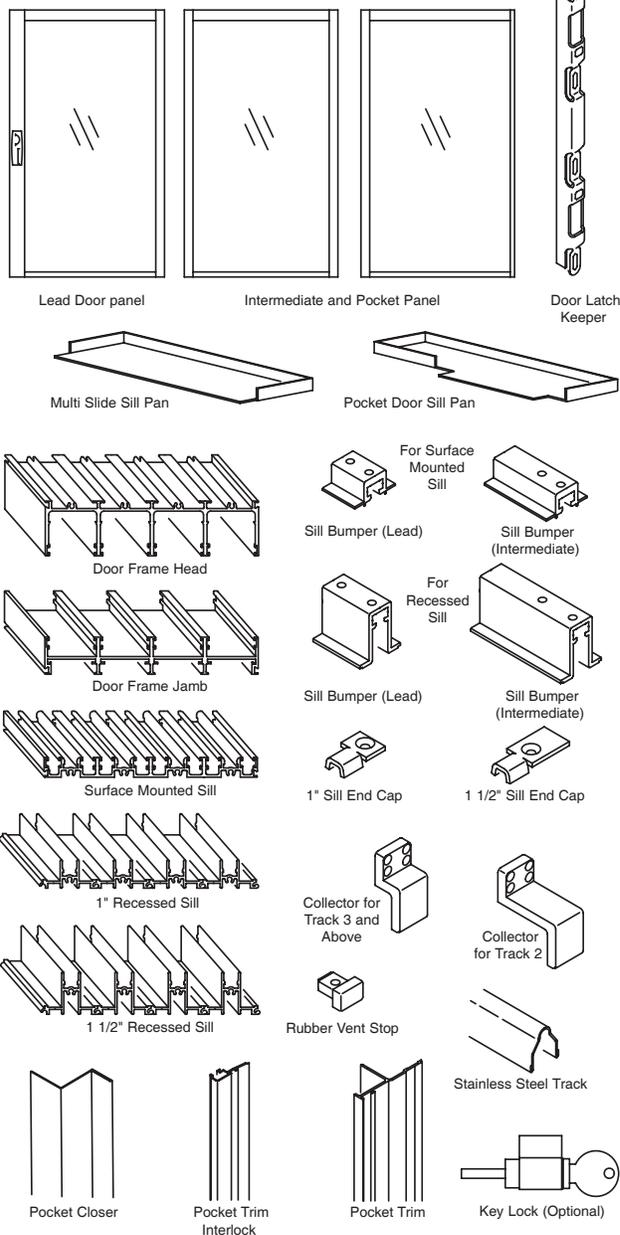
Series 7800 Multi-Slide and Pocket Patio Door Installation Instructions

Installation Requires Knowledge of:

- AAMA Installation Instructions.
- Applicable Federal, State, Local Codes and Regulations.
- An Understanding of the Fundamentals of Residential Construction.
- A Working Knowledge of the Tools, Equipment and Methods Required for Installation.
- A Familiarity with Caulking, Sealing Procedures and Glass Handling Procedures.



Door Frame and Hardware Package Supplied Includes:



QUANTITY	DESCRIPTION	USAGE
5 Each	#10 X 1/2" Phil.Flat Hd SMS	End caps & fixed panel
12 Each	#8-32 X 3/4" Phil.Flat Hd	Collector install screws
8 Each	#10 X 1" Phil.Hex Washer Hd	Jamb assembly screws
60 Each	#10 X 1 1/4" Phil.Flat Hd SMS	Pocket trim & frame installation
8 Each	#14 X 2" Phil.Hex Washer Hd	Sill bumper bracket Installation
4 Each	#10 X 3" Phil.Pan Hd SMS	Door stike

Note: Quantities shown are for a four panel door and vary according to door configuration. Also, be sure to remove all Packing Material including the wood support beneath the sill.

Tools Required

- Hammer
- Power drill
- .171 Dia. drill bit
- Utility knife
- Putty knife
- Caulking gun
- Measuring tape
- Carpenter's square
- Phillips head screwdriver
- Level (6' recommended)
- Plastic Shims
- Caulking (One that's appropriate for your job)
- Locking pliers

Before you start: It is important to review and understand the installation instructions and drawings supplied. Verify that all parts listed in the bill of materials are included and that all panels are properly marked.

Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the door manufacturer to design or recommend a flashing system appropriate to each job condition. Responsibility for protecting any flashing material from damage caused by weather, other trades or vandalism and properly integrating the flashing system into the weather resistive barrier for the entire building will be the responsibility of the general contractor or his designated agent.

On Pocket Doors, the interior wall forming the pocket should be left out until door frame installation is complete. On pocket doors with surface mounted sills, the heads will have weatherstripping and sills will have fillers, weeps and a ramp that effectively "hand" the door. The sill pan provided should be handed so when placed in the rough opening, the flat opening faces the exterior. The sill's weep holes and ramp should face the opening on the sill pan to verify that the "handing" is correct for the job, see Fig. 4.

On pocket doors or multi slide doors with double pockets or double fixed panels, there will be an active lead panel and an inactive lead panel. The active panel will have a lock with hooks. The inactive panel will have a lock keeper. Verify that the active and inactive panels are assembled to meet your configuration.

Motorized System - A motor is an optional feature that comes with it's own instructions that should be read and understand before proceeding.

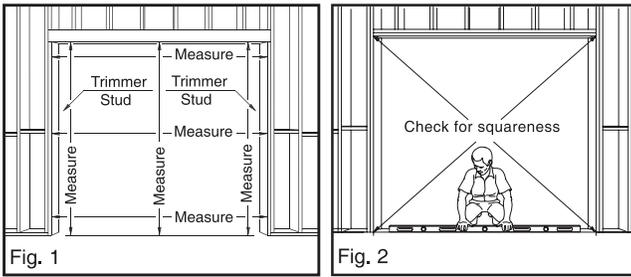


Fig. 1

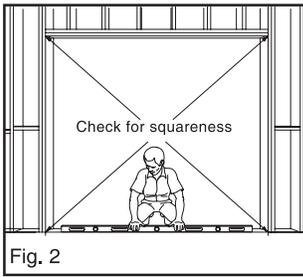


Fig. 2

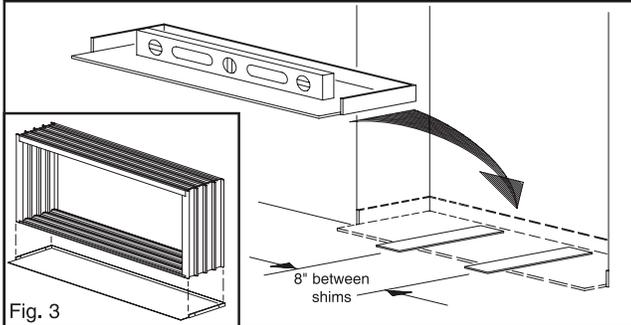


Fig. 3

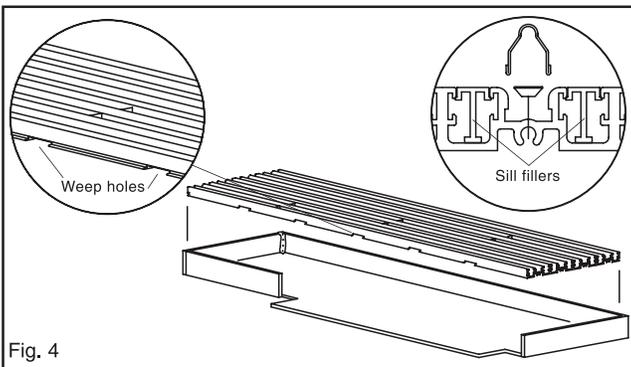


Fig. 4

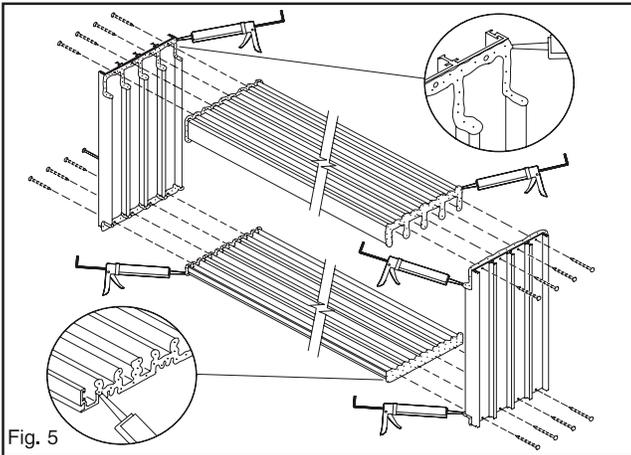


Fig. 5

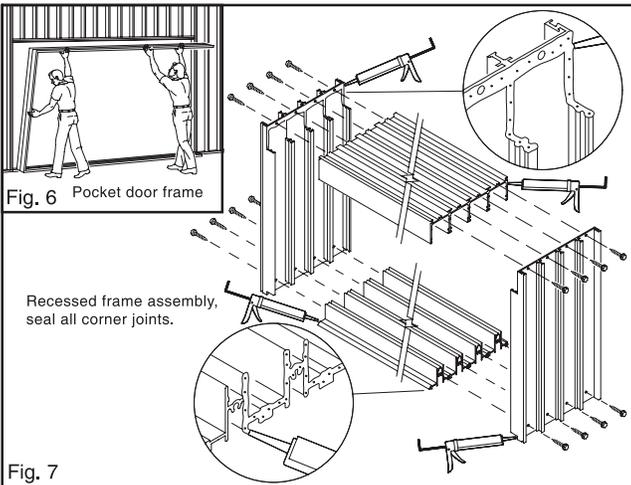


Fig. 6 Pocket door frame

Recessed frame assembly, seal all corner joints.

Fig. 7

1. Measuring Door Openings

Measure rough opening vertically and horizontally at the corners and center. See **Fig. 1**. The opening should be 1/2" larger than the actual door height and 3/4" in width. With new construction, trimmer studs on each side of the opening should remain loose until the door frame is installed.

2. Frame and Opening Preparation

As with most any installation, preparation is the key to doors operating at their best. Check your opening for level, square and plumb. Verify that the rough opening dimensions have been prepared according to the drawings on the Sign Off Sheet supplied. Check the opening floor for flatness, see **Fig. 2**. A sill pan will be provided for doors with a "surface mounted sill" by YDW. A sill pan is a rigid piece of flashing with an interior wall and side end dams. The sill pan prevent water from flowing into the wall or interior finishes. A sill pan is fabricated to fit around the bottom of the door frame. The sill pan should also fit the opening, see **Fig. 3**. Dry fit the sill pan for size and fit and determine if the sill pan is fully supported underneath. Correct any problems with the rough opening or floor flatness before proceeding with the installation.

3. Frame Assembly with a Surface Mounted Sill

Identify which parts of the Multi Slide frame are the head, sill and jambs, see **Front page**. Pocket Doors will have one jamb and Double Pocket Doors will have no jambs. The sill will have channel "Fillers" to cover areas of the sill not in use, see **Fig. 4**. Only the most interior track will not have fillers. The sill will have stainless steel track inserts, packed separately, that will need to be installed later in the installation. These steel tracks will snap into the same channel designated for the sill's installation screws. The sill will also have weep holes notched on the exterior side so when the frame is assembled and placed on the sill pan, the holes should face the open side of the pan. Start assembling the frame by applying a "Small Joint Sealer" to all contact points in the corner joints, see **Fig. 5**. It is important that the corner joints are fully sealed to prevent water leakage. Assemble one corner at a time. Join the corners together using #10 X 1" Hex Washer head screws. Continue with the rest of the corners. After the frame is assembled, run a bead of sealer along both sides (inside and out) of each corner joint. Seal over the screw heads with an appropriate sealant. On Pocket Door configurations, the door frame will only have one jamb. The portion of the frame that goes into the pocket will be supported when attached to the rough opening structure. Two persons will be needed to support and install the frame so as not to damage the sealed joint, see **Fig. 6**.

Frame Assembly with Recessed Sills

Recessed Sills have screw raceways so that the jamb can be attached. Apply "Small Joint Sealer" to all corner contact points before securing with screws, see **Fig. 7**. Care must be taken to ensure sealant and joint integrity during frame installation.

4. Installing the Sill Pan (Surface Mounted Sill Only)

Note: On Pocket Door applications, mark the floor in the pocket area where the sill pan will sit with a straight line that runs parallel with the exterior wall. The line is 3/8" from the studs. This is how far the sill pan will be installed from the exterior wall. The flat opening of the sill pan should butt up against the opening side of the stud. Refer to **Fig. 8**.

The sill condition must be flat and level. If not level, use shims under the sill pan to correct this. Stabilize the entire length of the sill pan, no unsupported gaps are allowed. If the sill surface requires more than a 1/8" shim under the sill pan, it is recommended using a self-leveling, resurfacing product to correct this condition. Once leveled, dry fit the door frame on the sill pan in the opening for size and fit. Also check the rest of the frame for square and plumb. Installation holes will be predrilled in the sill and later covered with the steel track inserts. Mark the location of the installation holes on the sill pan below, see **Fig. 9**. Remove door frame from opening to expose the sill pan.

Determine the proper sealant to use for the materials and building condition you are working with. Remove the sill pan, but leave any shims used to level the pan in place. If you are using "screw anchor inserts" for a concrete floor, install them

now. Lay a bed of sealant at both ends of the sill floor at frame corner joints, going up the jambs about 3 inches, see **Fig. 10**. Run a generous bead of sealant between the two jambs, along the interior edge of the sill where the sill pan will set. Apply a 3/8" diameter bead of sealant to the exterior edge of the sill. Follow the sealant pattern in **Fig. 10**. Leave two 2" gaps, approximately 6" from each jamb. This will allow any water entering underneath the sill pan to drain to the exterior. Replace sill pan in the opening, on top of sealant and shims. Line up installation holes and apply even pressure to set the pan. Check pan for straight and level and secure pan to the floor with screws supplied by others. All joints must be sealed between the sill pan and the wall condition, see **Fig. 11**.

5. Exterior Pocket Trim Installation

On pocket doors, the Exterior Pocket Trim is attached to the pocket opening after the sill pan is installed and before the head and sill tracks are secured, refer to **Fig. 12**. The trim will run from the sill up to the top of the rough opening. Apply a bead of sealant the full length of the trim on both surfaces of the inside corner. Attach it to the interior corner of the opening so that the trim is between the stud and the up right wall of the sill pan. Seal all joints between the sill pan, trim and wall condition. After the frame has been placed in position, but before it is secured in place, snap the Pocket Interlock onto the trim so that it rests on the sill. On surface mounted sills, position the sill so that the exterior surface of the sill's weatherstrip channel meets the exterior surface of the Pocket Interlock's weatherstrip channel as shown in **Fig. 13**. Seal the joint between the sill pan, sill and pocket interlock.

6. Installing the Door Frame (Surface Mounted Sill)

When installing the door frame, it's important to keep the head and sill plumb with each other. Avoid any bowing or sagging of the frame that will interfere with the vent panels operation.

With the sill pan secured, apply a generous, full length, continuous bead of sealant to the rear, upright wall of the sill pan. This bead will make contact with the frame to create an air seal along the back side of the frame and sill condition, see **Fig. 14**. Apply sealant to each installation hole in the sill pan just prior to installing the door frame.

Set the door frame into the rough opening and align installation holes in the sill. Check frame for level, square and plumb. Secure the frame's sill with #8 X 1 1/4" Phillips flat head screws. Secure the rest of the frame by starting with one of the upper jamb corners. Check for level and plumb again. With the remaining installation screws, determine the location of the other fasteners in the head and jambs of the frame. Fasteners should be no closer than 3" from the corners and no farther apart than 10". Position shims as close to installation screws as possible and secure the remainder of the frame. Be sure to shim behind the vent jamb at the door Latch Keeper location, see **Fig. 15**. This is for strength and security. When installing the fasteners to the head portion of the frame, caution should be taken not to over tighten and distort the frame. Leave about a 1/2" space between frame and rough opening for deflection.

Note: After installing sill fasteners, apply sealant over screw heads. Use a moderate amount of sealant so it doesn't interfere with the snapping action of the steel sill track when it is reinstalled.

With the frame now secure, install the steel sill tracks before installing the door panels. To install, squeeze one end of the track insert until it fits into the track channel in the sill and gently tap the insert down the full length of the sill, see **Fig. 16**. Once the sill tracks are installed, attach the Sill Bumpers with #14 X 2" Phillip hex washer head screws to the corner opposite the vent jamb. The shorter bumper is installed on track #1, the most interior track. Insert the Rubber Vent Stop into the bumper bracket before securing with screws, see **Fig. 17**.

Staggered Recessed Sill (Optional)

Door frames with this configuration will have the Recessed Sill tracks cut to different lengths. The interior track will be the longest, running the full length of the opening and the exterior being the shortest, see **Fig. 18**. Once the sill tracks

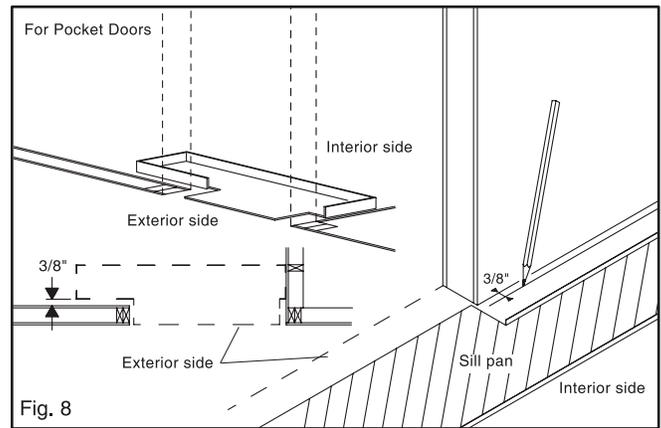


Fig. 8

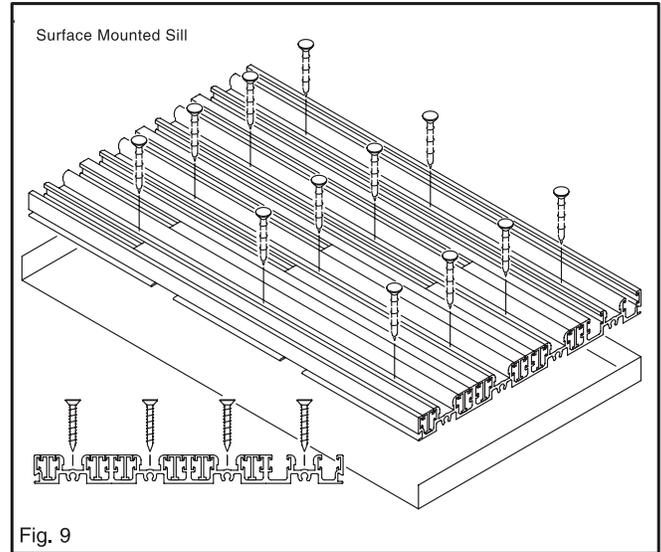


Fig. 9

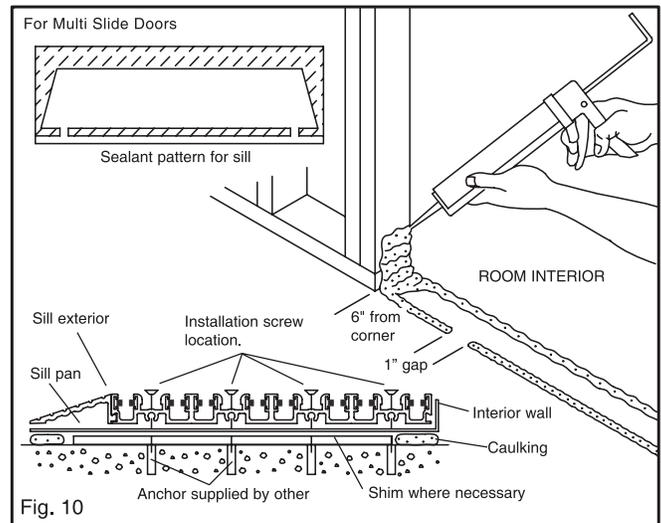


Fig. 10

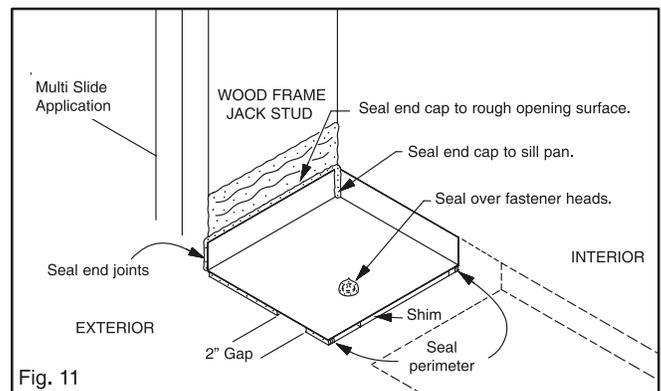
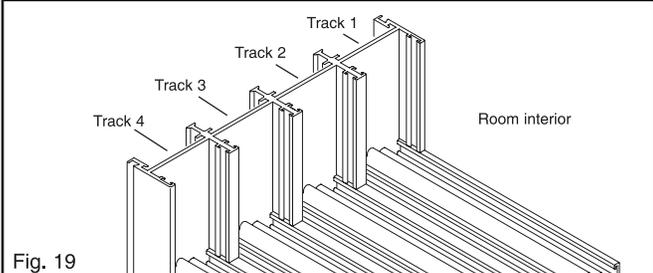
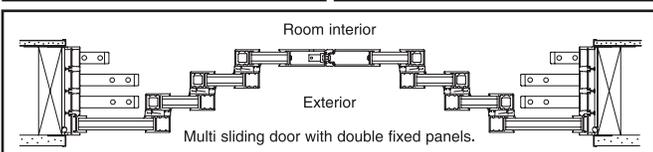
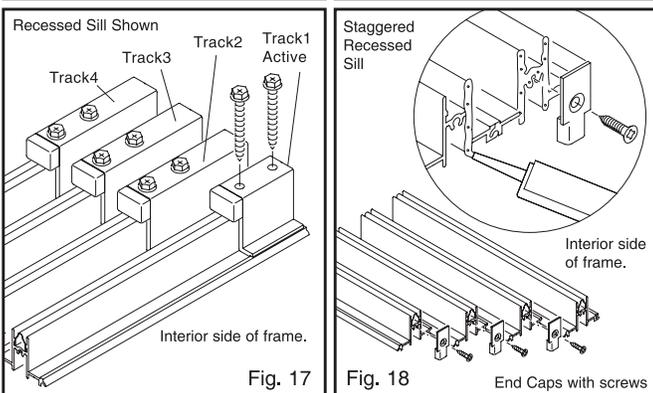
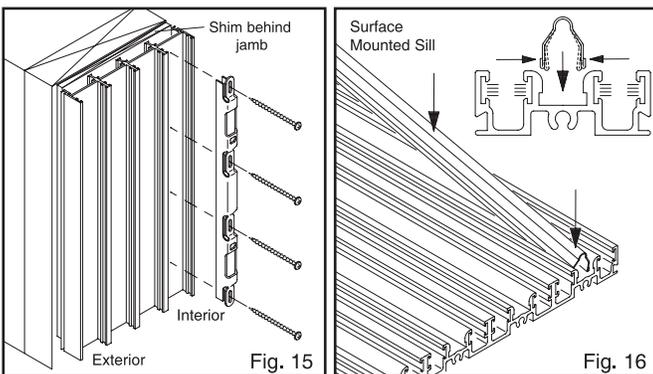
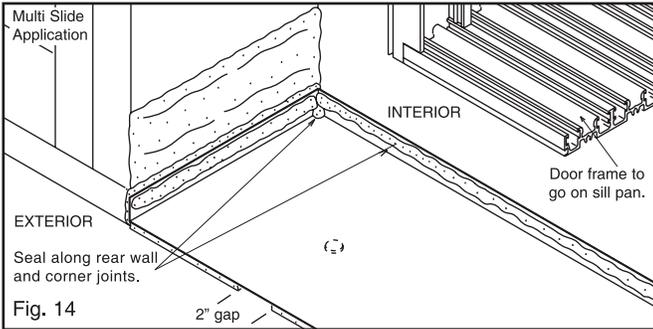
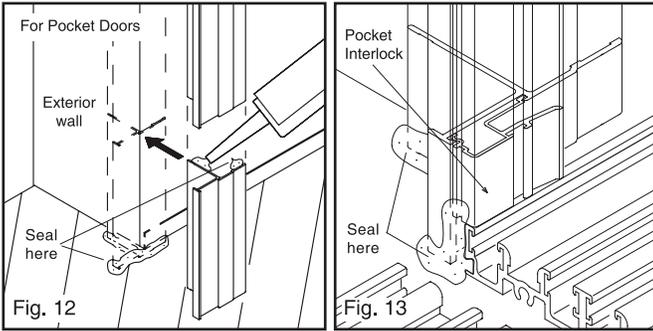


Fig. 11



are secured to the floor, fasten the End Caps to the shorter lengths with #10 X 1/2" Phillips flat head screws and sealant.

7. Panel Preparation

All door panels should be marked to fit your door configuration. The panels should be marked as "Lead Panel", "Intermediate Panel" and "Pocket Panel" for Pocket door applications. For Multi Slide doors, they will be marked as "Lead Panel", "Intermediate Panel" and "Fixed Panel". Lead panels always go in the most interior track or number 1 track. Intermediate panels should be numbered by the track they will be installed. Track 2 is the second nearest track to the interior of the room. Track 3 and any others panels will follow in that order towards the exterior, see **Fig. 19**. The exterior track will hold the Pocket panel or Fixed panel. If the door is a double pocket or double fixed, there will be 2 lead panels, both of which go on track 1. The intermediate and pocket or fixed panels are identical on each side and go in their corresponding tracks.

The panels have an Interlock Filler(s) that will have to be removed prior to installing each panel. See **Fig. 20** for location of the filler and gently pry it off with a slotted screwdriver or putty knife.

8. Panel Installation

From the interior of the room, install the "Pocket Panel" first into the most exterior channel of the frame. Stand in the middle of the frame opening and lift the panel into the head channel in the frame. Swing the bottom in and tuck the panel down into the sill channel, see **Fig. 22**. If panel does not clear sill, the rollers may be dangling below the bottom edge of the panel. Roller wheels should be horizontal with the frame to clear the sill. When panel is installed, make sure the rollers are resting on the steel roller track. Adjust the rollers if necessary as shown in **Fig. 21**. Turn the large adjustment screw clockwise to lower the wheels. Turn the screw counter clockwise to retract them. Next, cut the Interlock Filler that was removed earlier to fit between the head and sill and reattach it on the Interlock, refer to **Fig. 20**. Repeat process for Intermediate panels, putting them in their corresponding tracks as shown in **Fig. 19**. Finish by installing the Lead Panel in the same manner into track #1.

On Pocket doors, install the Collector brackets on the intermediate and pocket panels near the top of the interlocks. Use four #8-32 X 3/4" Ph flat hd screws per bracket, see **Fig. 23**. The #2 Intermediate panel should get the longer of the Collectors.

Install the Pocket Closer onto the pocket panel interlock with #10 X 1/2" Ph flat hd screws. Position the Closer to extend across and behind the other panels, position it just below the Collector, see **Fig. 24**.

Multi Slide Door Panel Installation

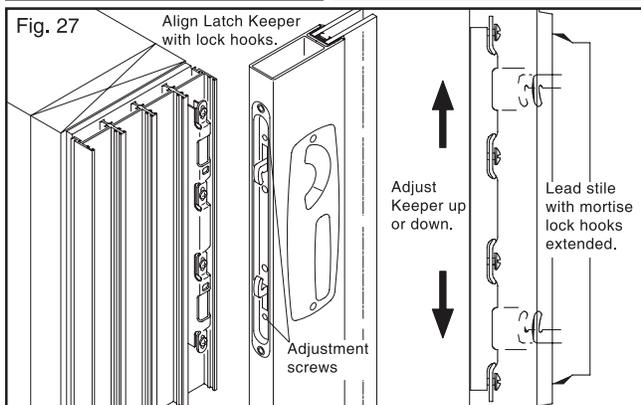
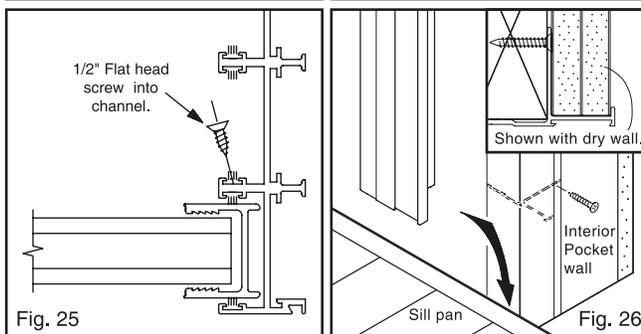
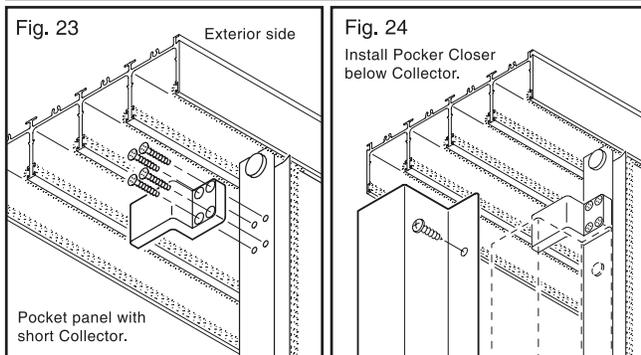
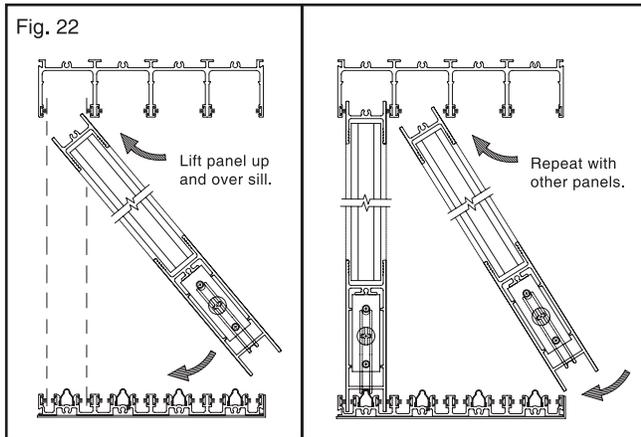
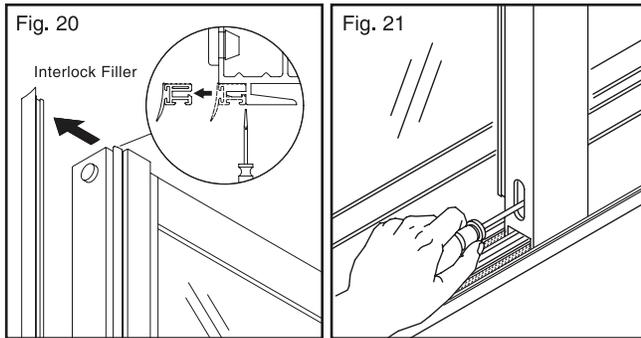
Install panels in the same manner as the Pocket door installation above, but for added security, drive two #10 X 1/2" Ph flat head screws through the Fixed Jamb into the interior side of the Fixed Panel as shown in **Fig. 25**. Install screws through the weatherstrip channel, one about an inch below the head and another above the sill. Caution should be taken not to hit the glass with the screws. Only the Fixed panel(s) will receive screws.

9. Interlock Pocket Trim Installation

On Pocket doors, the Interior Pocket Trim is attached after the panels have been installed in the frame and the interior pocket wall is constructed. The Interior Trim is attached to the interior side of the new pocket wall opening and should fit behind the sill pan, see **Fig. 26**. Drywall and or a decorative trim may butt up against the Pocket Trim for a finish appearance.

10. Latch Keeper Installation

The Lead panel(s) should already have the door handle installed. Determine the correct location for the Latch Keeper in track 1, see **Fig. 27**. Use shims behind frame at latch keeper location. Install the Latch Keeper to the vent jamb with four #10 X 3" Phillips pan head screws. Note the elongated holes allow room for strike adjustment. It is important that the latch hooks fully engage the keeper.



- Wood trim, plant-ons, and pot shelves all require special precautions. When necessary under these conditions use metal flashing. Use metal flashing on any surfaces where water may not drain promptly.
- Seal all holes in the building paper including those caused by staples or nails.
- Interfaces between our products, flashing and the building's weather resistive barrier must be sealed with a sealant recommended for this application. We cannot recommend a particular type or manufacturer of sealant.
- Mulled windows require special treatment. Please consult instructions for your mulled conditions.
- Holes drilled for alarms may not be placed on sills or heads and must be sealed.
- Extreme weather conditions may cause water intrusion into your home and subsequent water damage. Consult a licensed engineer for an appropriate rating for expected local weather conditions.
- Do not apply film or tints to the surface of the glass. These products can cause insulated unit failure.
- To avoid the effects of electrolysis and chemical reaction to an aluminum sill, apply bituminous paint to raw masonry or concrete. You may also use a PVC liner to separate the metal frame from the substrate.

SEMI-ANNUAL MAINTENANCE

- Improperly maintained products will reduced the performance of any window or door. The sills and weeps must be cleaned regularly to allow for drainage. Water in the sill during a rainstorm is normal.
- Weather-strip should be cleaned and fluffed on a regular basis. Wearing of the wool pile is normal. Wool pile should be replaced if gaps between the weather-strip and frame appear.
- Harsh abrasive cleaners should never be used on frames or glass surface.
- If products are within 10 miles of the coast, metal surfaces should be cleaned with a fresh water rinse every one to three months. Car wax on the surface will provide some protection. Anodized or painted surfaces will help prolong the life and enhance appearance. Clean and lubricate hardware components with corrosion resistant spray or lubricant monthly to ensure proper performance. Silicone lubricant spray can be used on all operable components.

REMOVAL OF OLD WINDOWS OR DOORS

Some things to keep in mind when removing old products.

- Follow the EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) which requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA (or an EPA authorized state), use certified renovators who are trained by EPA-approved train providers and follow lead-safe work practices. For more information visit www.epa.gov/lead.
- When removing products from a building IWC recommends that you follow local rules and regulations for disposal. Whenever possible, take window and door products or components to reuse or recycling centers and avoid disposing them in the landfill. Consult with your local recycling center for more information on programs in your area.

Installation Instructions: IWC provides installation instructions for common new construction and replacement applications found at www.intlwindow.com. Some IWC products have specific installation instructions which are also available on the website. For variations of these installation instructions or questions regarding alternative installation practices, call 1.800.477.4032 for more information.

Disclaimer: EPA makes no warranties, expressed or implied, nor assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of the contents of installation instructions, or any portion thereof. Further, EPA cannot be held liable for defects or deficiencies resulting from the proper or improper application of installation instructions.

PLEASE KEEP THESE INSTRUCTIONS IN YOUR HOME OWNER'S PACKET.

I have read the above instructions and understand the manufacturer's recommendations.

(Installer's signature)



Southern California
1.800.477.4032

Visit our website at www.intlwindow.com