

4700 SERIES – 4 LITE PATIO DOOR INSTALLATION INSTRUCTIONS



CONTENTS:

Safety Considerations	2
Tools & Hardware	3
Frame Assembly & Installation	
Fixed Panel Risers Installation	
Fixed Panels Installation	5-6
Operating Panels Installation	6
Astragal & Handle Installation	7

▲ WARNING

- Use caution when working at elevated heights and around unit openings. Follow manufacturers' instructions for ladders and/or scaffolding.
 - Failure to do so may result in injury or death.
- Follow manufacturers' instructions for hand or power tools.
- Always wear safety glasses. Failure to do so may result in injury and/or product damage.
- Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people to move and install *Window and Door* products to avoid injury or product damage.
- Support door in opening while shimming. Failure to do so may result in injury and/or product/property damage.
- Before, during, and after installation, place all tools as well as any casing or door parts on a drop cloth or in a location that will not pose a hazard to installers, customers, or property.
- All laws and building codes require safety glass in Patio Doors, reducing the likelihood of injury if broken. Information on safety glass.
- Contains small parts. If swallowed could pose a choking hazard to young children. Remove and dispose of any loose or easily removed parts.

NOTICE

- Do not store doors flat or in the sun or product damage may happen.
- Important safety information. Leave this information for the building occupant.
- Buildings constructed prior to 1978 may contain lead paint which could be disturbed during replacement. For more information on proper management of lead paint, visit www.epa.gov/lead
- Carefully remove fasteners that attach wood to door. Fastener holes are used for installation. Failure to do so could result in product damage.

CAUTION

- Do not stain or paint weatherstrip, vinyl, glass or hardware. Product damage may happen.
- Abrasive cleaners will damage glass and vinyl surfaces.
- Clean glass using liquid glass cleaner.
- Clean exterior frame, sash/panels, and insect screens using mild detergent and water with a soft cloth or brush.
- For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.
- Follow instructions of foam, sealant and flashing manufacturer regarding material application and compatibility with this product.
- Do not overdrive screws or nails. If so, may result in product damage.
- Weep holes must face the exterior and must be located at the bottom of the door or product and/or property damage could happen.
- Do not cover weep holes. If so, may result in property damage.
- When insulating between unit frame and rough opening or between units when joining, DO NOT overpack batt insulation or overfill with foam. Bowed jambs will result affecting product performance and/or proper operation of unit.
- Do not apply any type of film, coverings, shutters or other shading devices to glass and vinyl. If so, thermal stress conditions resulting in glass and/or vinyl damage could happen.
- Do not drill into or through the sill of the door. If so, may result in product and/or property damage.
- Remove or cut ventilation holes in plastic shipping wrap if door is not installed immediately or product damage could happen.
- Use masonry screw when fastening directly into masonry or through a buck into masonry.
- Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, vinyl and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.

REQUIRED TOOLS

- Caulk gun
- Framing
- J-Roller
- Low Expanding Foam
- Measuring Tape
- Phillips Head Screwdriver

HARDWARE SET

- 6' Level
- Work Gloves

- Power Driver
- Safety Glasses
- Shims
- Sill Flashing Tape or Vinyl sill pan
- Self-adhesive flexible flashing
- (minimum 6" wide depending upon installation)
- Square
- Interior & Exterior window/door Grade sealant

KIT CONTENTS

- Four pieces of the Frame.
- Fixed Panels.
- Operating Panels.
- **FULL PARTS** # Profile Drawing Description # Profile Qty Drawing Description Qty Main Frame, Main Sash, 4701 2 4707 4 Snap Interlock Jamb Main Frame, Main Frame, 4702 4709 2 1 Head Jamb Filler Interior 4-Lite Astragal Main Frame, 4703 4710 1 1 Sill Gaskets 2x Main Frame, 4704 2 Fixed Panel Riser Operating Panels, 4705 4 Fixed Panels Main Sash, Ţ 4706 4 Interlock Cover Fixed Operating

KIT 1 - MISCELLANEOUS PARTS

# Profile	Qty	Drawing	Description
4798	2		Head Bumper
4799	2		Sill Bumper
3039	6	<u>j</u>	Main Frame, Fixed Panel Spacer
3041	4	and the second	Fixed Panel, Anchor Bracket

KIT 2 - SCREWS

# Profile	Qty	Drawing	Description
8 x 3/4" (S1 Bag)	26	Same S	Snap Interlock, End Caps, Head Pads, Sill Pads
8 x 1-1/4" (S4 Bag)	12	Manager 2	Fixed Panel Bracket
8 x 2'' (S3 Bag)	6	E DINITIAN CONTRACTOR	Riser Installation
8 x 2-1/4" (S2 Bag)	27	A DECOMPTICE AND A DECOMPTICAL	Frame Assembly, Frame Installation, Astragal

# Profile	Qty	Drawing	Description
3046	2		5" Head End Pad Base
3047	2		3" Sill End Pad Base
3048	1		Fixed Panel End Cap
2299	8	(F)	Hole Plug
8 x 1-1/4"	6		Fixed Panel to Frame

KIT 3 - HANDLE PARTS

# Profile	Qty	Drawing	Description
47PD-Kit3	2		Handle Set
	1	and the second	Keeper
MORT2	1	ALL ST LES	2 Point Mortise Lock
8 x 2-3/4"	4	California (California)	Operating Panels, Inside Handle
8 x 2-1/2"	2		Operating Panel, Keeper

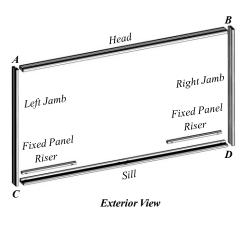
FRAME ASSEMBLY **STEP1**

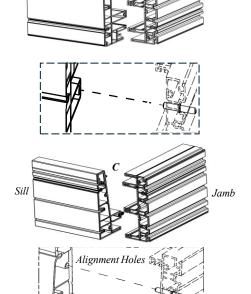
NOTE: The frame must be assembled on a flat, clean surface close to the opening made in the wall.

Head

- Find the PRE-DRILLED *Frame* pieces: **2** Insert the locating pins from the *Left Jamb*
 - Head
 - Sill
 - Right Jamb
 - Left Jamb
 - Two Fixed Panel Risers

Jambs are Pre-Installed with a foam pad.



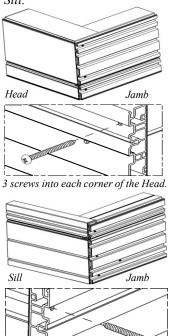


into the alignment holes on the Head & Sill.

Use the screws (S2 Bag #8x2-1/4") to attach the Left Jamb to the Head & Sill.

3

Jamb



Q k

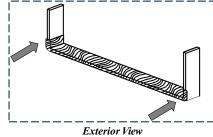
NOTE: Repeat steps 2 & 3 for Right Jamb.

STEP 2 FRAME INSTALLATION

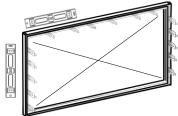
NOTE: For New Construction apply silicone on the Head & Jambs, for Replacement apply silicone on the Sill.

- Apply flashing tape on the base of the Opening, leaving a 6" tall flap on each side vertically & a 2-3" wide flap horizontally. -:6" Exterior View 2-3" Pivot the Frame into the Opening. 4 5
 - Exterior View

2 Fold all flaps on the edges to be flush with the external face of the Opening. For better results, use a J-Roller.



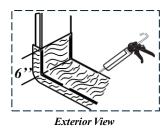
Level, plum & square the Frame to the Opening with shims on the interior as necessary.



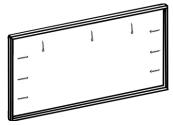
Interior View

3 Along the interior & exterior edges of the flashing tape on the bottom of the Opening, put a bead of silicon, leaving a gap at the corners.

4 screws into each corner of the Sill.



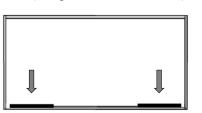
Drive 9 screws (S2 Bag #8x2-1/4") into the pre-punched holes on the Head & Jambs.

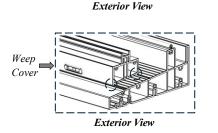


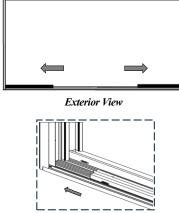
Exterior View

STEP 3 FIXED PANEL RISERS INSTALLATION

- **1** Place the *Fixed Panel Risers* on the surface of the *Sill*, using the locating nubs. (Weep cover on the exterior).
- **2** Push each *Fixed Panel Risers* until they make contact with the *Jambs*.

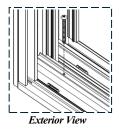






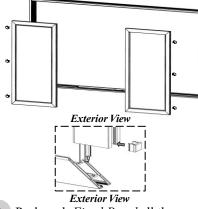
Exterior View

3 Drive two *screws* (S3 Bag #8x2") into the pre-punched holes on each *Fixed Panel Riser*. Drive a third *screw* (S3 Bag #8x2") into the center of each *Riser* (no prepunched hole).

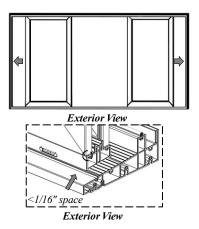


STEP 4 FIXED PANELS INSTALLATION

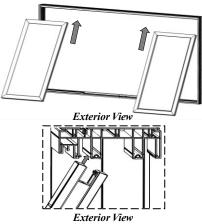
1 Attach three *Fixed Panel Spacers*, one 8" from the top, one 8" from the bottom & one in the center of each *Fixed Panel* (No rollers in the bottom).



Push each *Fixed Panel* all the way into the *Jambs* of the *Frame*, leaving a small gap between the top of the *Risers* & the bottom of each *Fixed Panel*.

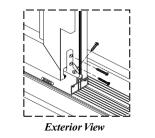


2 Pivot *Fixed Panels* into the *Frame*, aligning them with the exterior *Sash Rail* (Glazing bead on the exterior).



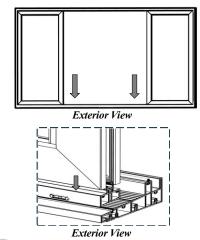
Lean a fixing clip against the channel of each *Riser & Fixed Panel*. Drive three *screws* (S4 Bag #8x1-1/4'') into each channel.

5



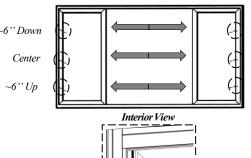
Repeat this process but this time lean a *fixing clip* against the channel of each *Fixed Panel* & the *Head* of the *Frame*.

3 Push the *Fixed Panels* into the exposed end of the *Risers*.

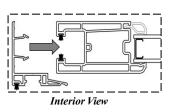


6 Drive three *screws* (Kitl #8x1-1/4'') from the weather-stripping channel of each *Fixed Panel* to the *Frame*.

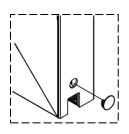
Make sure the width of the *Opening* of the *Frame* is the same on the Top, Middle, & Bottom.



- 7 Cautiously snap the *interlock*, which is non-removable, into the channel of each *Fixed Panel* making sure the surface of the *interlock* is flush with the *Riser*. (Interlock hook on the interior).
 - Flush Exterior View



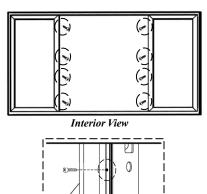
10 Snap a *plug* into the pre-punch holes at the top & bottom of each *interlock*.



Exterior View

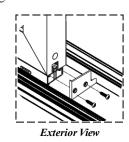
On the interior, drive two *screws* (S1 Bag #8x3/4'') into the pre-punched holes on the top & bottom of each *interlock*. Drive two more *screws* (S1 Bag #8x3/4'') near the center of each *interlock*. (No pre-punched holes).

8

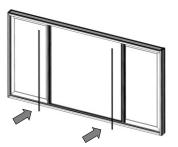


_____ Interior View

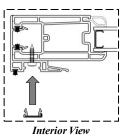
Align the holes on the *end caps* with the holes on the end of each *Riser*.Drive two *screws* (S1 Bag #8x3/4'') through the holes.



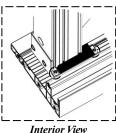
9 Snap the *interlock covers* into the groove of each *interlock*.



Interior View

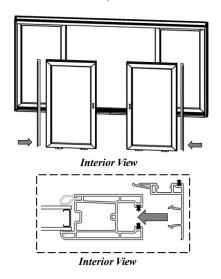


12 Slide each *sill pad* under the *interlocks* until it touches the tab of the *end caps*. Drive two *screws* (S1 Bag #8x3/4") through the holes on the *sill pad*.

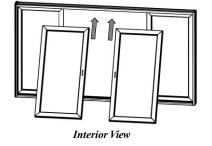


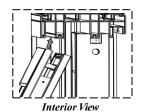
STEP 5 OPERATING PANELS INSTALLATION

1 Snap the *interlock* into the *Operating Panels* in the same fashion as the *Fixed Panel.* (Follow steps (7-10) - *Fixed Panel* Installation).

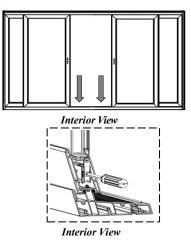


2 From the interior, guide the top of each *Operating Panel* into the interior rail on the *Head* of the *Frame* (Glazing Bead on the exterior).

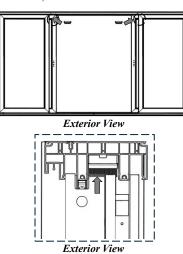




3 Guide the bottom of each *Operating Panel* onto the roller track on the *Sill* of the *Frame*. Twist the adjustment *screw* clockwise to raise the *Operating Panels* or counterclockwise to lower them.



4 Move the *Operating Panels* into fully open position & slide two *head pads* into the *Head* of the *Frame*. Attach each *pad* with one *screw* (S1 Bag #8x3/4").

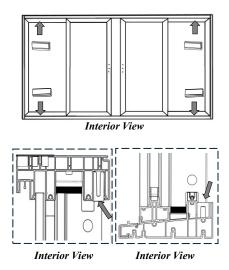


5 Install the *Jamb Filler* on the interior pocket of each *Jamb*.

Interior View

Interior View

6 Install *Head & Sill Bumper* into the *Frame* by pressing it into the interior pocket.

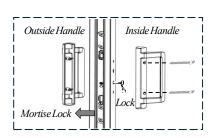


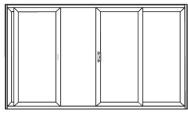
STEP 6 ASTRAGAL & HANDLE INSTALLATION

NOTE: The *lock* can be in the right or left *Operating Panel*.

1 Place the *outside handle* against the door while inserting the tail of the *lock* into the slotted hub of the *mortise lock*. Align the mounting holes of the *inside handle* with the *outside handle* and drive two *screws* (Kit 3 #8x2-3/4")

into the inside handle.

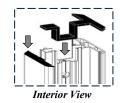




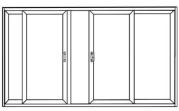
Interior View

Proceed to install the handle of the *Operating Panel* without lock.

2 Place the *gaskets* on top of the *astragal*.

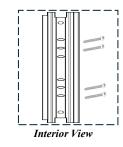


Place the *astragal* on the *Operating Panel* without a *lock*.



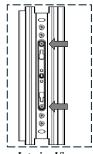
Interior View

Drive 4 *screws* (S2 Bag #8x2-1/4'') on the pre-punched holes located on the *astragal*. (The two center holes are for the *keeper*).

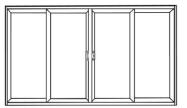


3 Locate the *keeper* on the two center holes on the *astragal*.

Drive two *screws* (Kit 3 #8x2-1/2") into the keeper.



Interior View



Interior View