

4500 SERIES – 2 LITE PATIO DOOR

INSTALLATION INSTRUCTIONS



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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

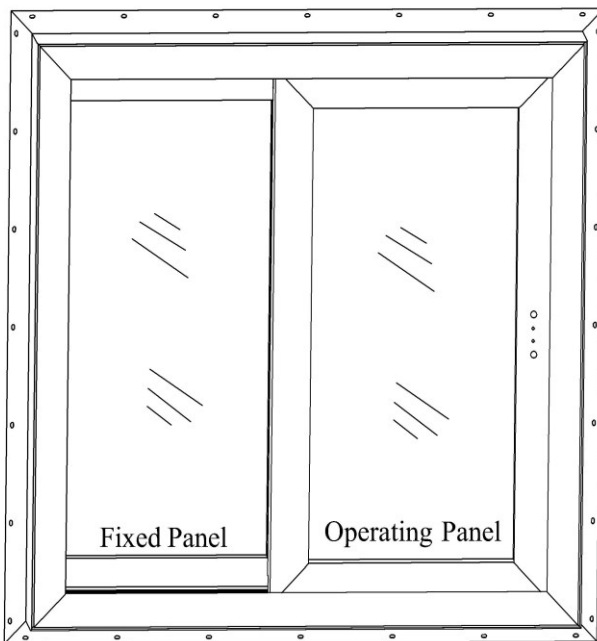
- Caulk gun
- Framing
- J-Roller
- Low Expanding Foam
- Measuring Tape
- Phillips Head Screwdriver
- 6' Level
- Work Gloves
- Power Driver
- Safety Glasses
- Shims
- Sill Flashing Tape or Vinyl sill pan
- Self-adhesive flexible flashing (minimum 6" wide depending upon installation)
- Square
- Interior & Exterior window/door Grade sealant

KIT CONTENTS

- Door:
 - 1 Fixed Panel
 - 1 Operating Panel

HARDWARE SET

PATIO DOOR



HANDLE SET - SCREWS



4500
Handle Set



4500 Keeper



Fasteners

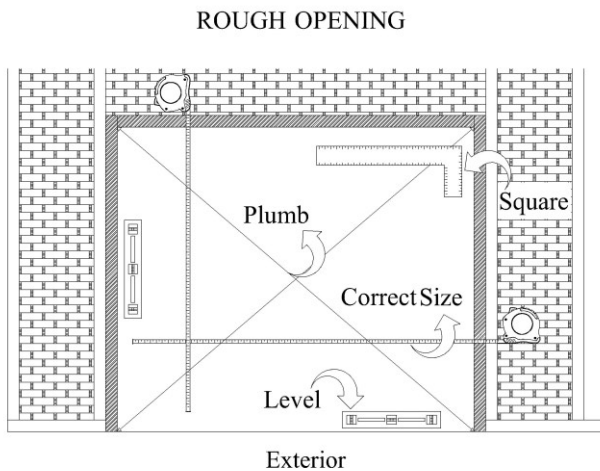
FASTENER CHART

Application	Anchor Type	Anchor Size	Minimum Embedment	Minimum Clearance to Masonry Edge	Minimum Clearance to Adjacent Anchor
1x Buck or Masonry Frame	ITW	1/4"	1-1/4"	2- 1/2"	3"
1x Buck or Masonry Frame	ELCO	1/4"	1-1/4"	1"	4"
2x Buck	Wood Screw	#8	1-1/4"	NA	NA

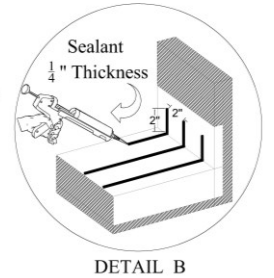
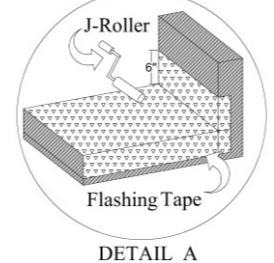
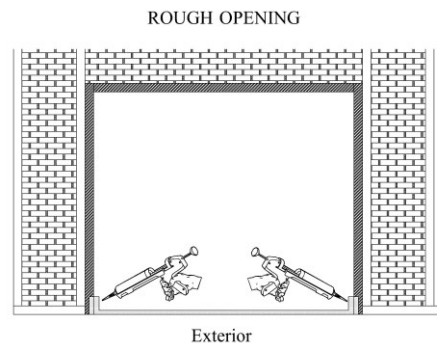
4500 SERIES – NEW CONSTRUCTION DOOR INSTALLATION

NOTE: Make sure that the rough opening is clear of fasteners, dirt and debris.

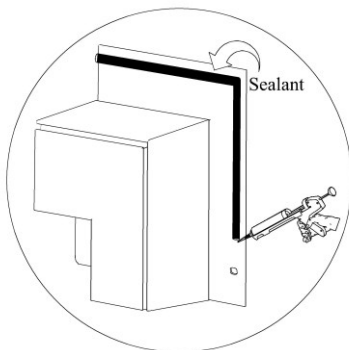
- 1 Make sure that the size (width and height) of the opening matches the size of the door.
Level, plumb and square the opening.



- 2 Apply flashing tape on the bottom of the opening, leaving a 6" tall flap on each side vertically and a 2-3" wide flap horizontally (Detail A). Along the flashing tape, apply three lines of sealant on the entire sill going up 2" on the jambs (Detail B).

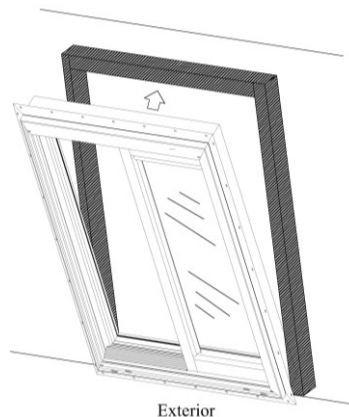


- 3 Apply sealant along the inside edge of the nailing fin. Make sure that it covers the pre-punched holes (Detail C).



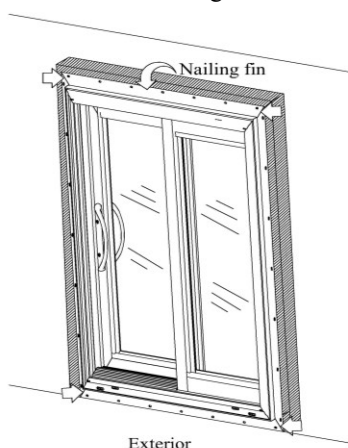
DETAIL C

- 4 Remove the operating panel from the frame [optional]. From the exterior, place the sill of the door into the opening then tilt the head into place. [Weep Hole Cover (Detail D) and Glazing Bead on the exterior].

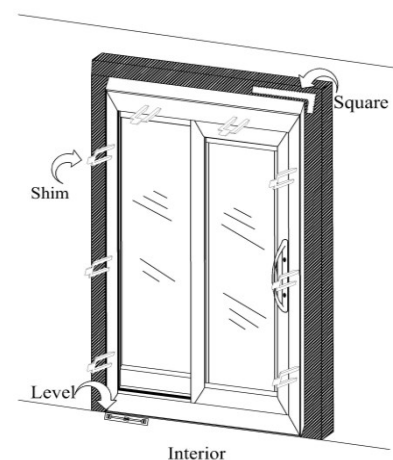


DETAIL D

- 5 If the operating panel was removed, install it. Drive fasteners at each corner of the frame through the pre-punched holes in the nailing fin.

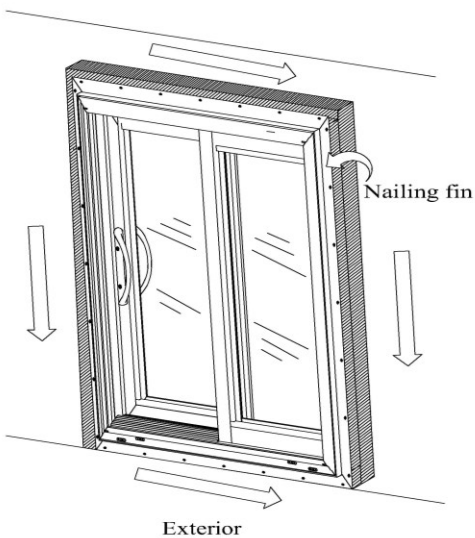


- 6 Level, plumb & square the Frame to the Opening with shims on the interior as necessary (shim as needed per screw).

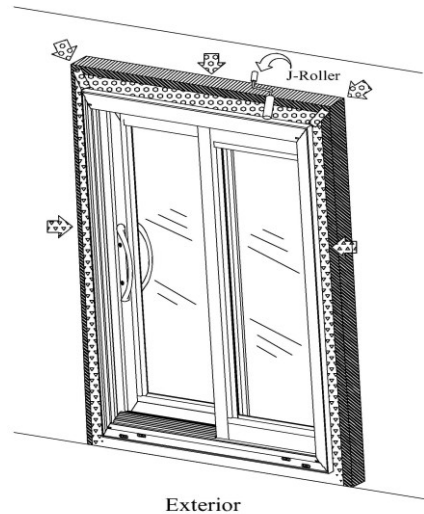


4500 SERIES – NEW CONSTRUCTION DOOR INSTALLATION

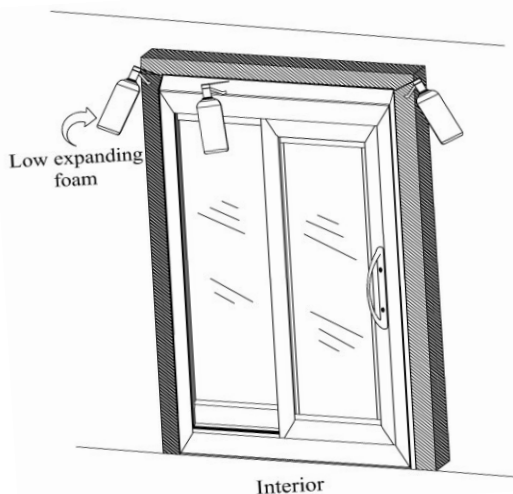
- 7** Drive fasteners in every other hole along the nailing fin.



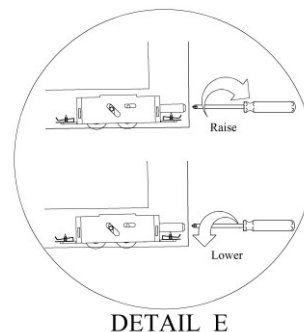
- 8** Using a J-Roller, Apply flashing tape to the jambs and head of the door on top of the nailing fin on the exterior of the frame. Apply house wrap tape on the head of the door, horizontally and on an angle as shown.



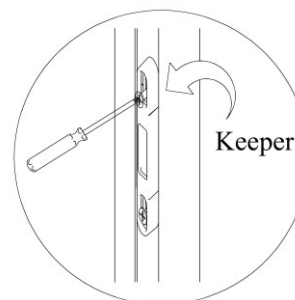
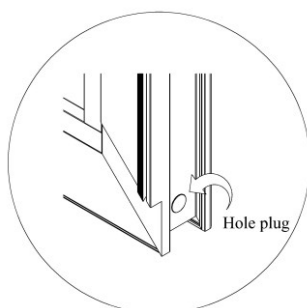
- 9** Insulate the interior door frame using low expanding foam.



- 10** When adjusting the rollers the panel must be lifted, the screws will not move if the weight of the operating panel is on them. Twist the adjustment screw clockwise to raise the operating panel or counter-clockwise to lower it (Detail E).



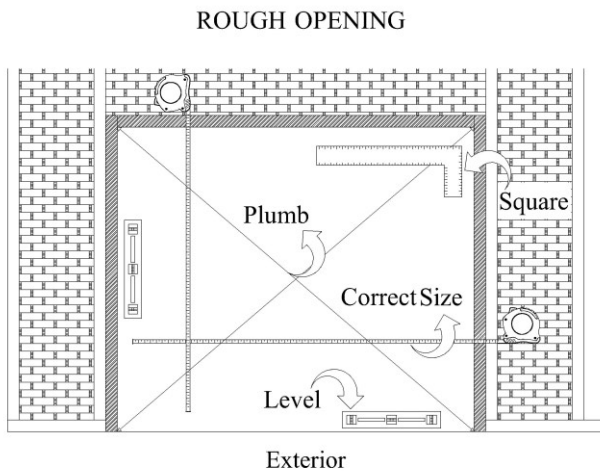
- 11** Install the hole plug in the roller adjustment hole (Detail F). **12** Remove the existing keeper fasteners and replace them with the provided ones (Detail G).



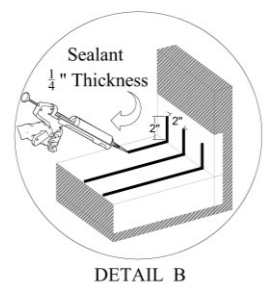
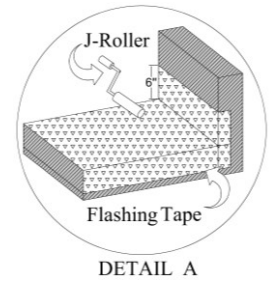
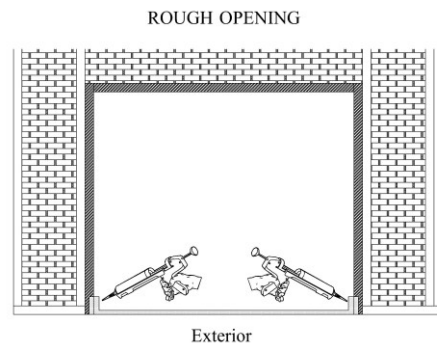
4500 SERIES - REPLACEMENT DOOR INSTALLATION

NOTE: For **Replacement** applications, remove the nail fin on all sides using a utility knife.

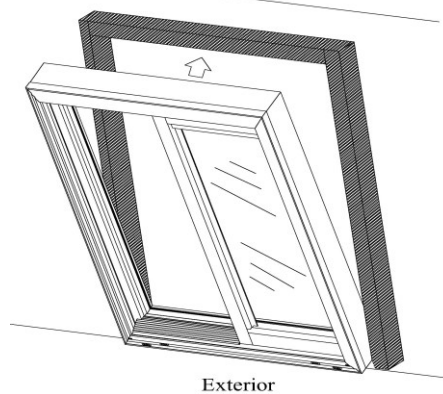
- 1 Make sure that the size (width and height) of the opening matches the size of the door.
Level, plumb and square the opening.



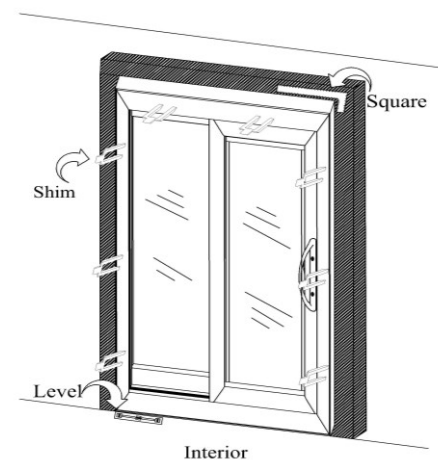
- 2 Apply flashing tape on the bottom of the opening, leaving a 6" tall flap on each side vertically and a 2-3" wide flap horizontally (Detail A). Along the flashing tape, apply three lines of sealant on the entire sill going up 2" on the jambs (Detail B).



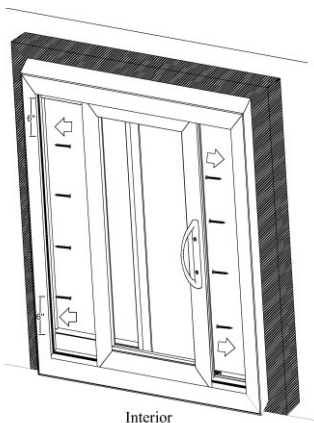
- 3 Remove the operating panel from the frame [optional].
From the exterior, place the sill of the door into the opening then tilt the head into place.
[Weep Hole Cover (Detail C) and Glazing Bead on the exterior].



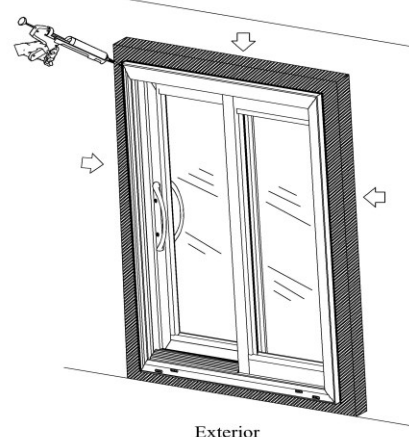
- 4 Level, plum & square the Frame to the Opening with shims on the interior as necessary (shim as needed per screw).



- 5 Drive fasteners on the Jambs. Make sure the width of the Opening of the Frame is the same on the Top, Middle, and Bottom.

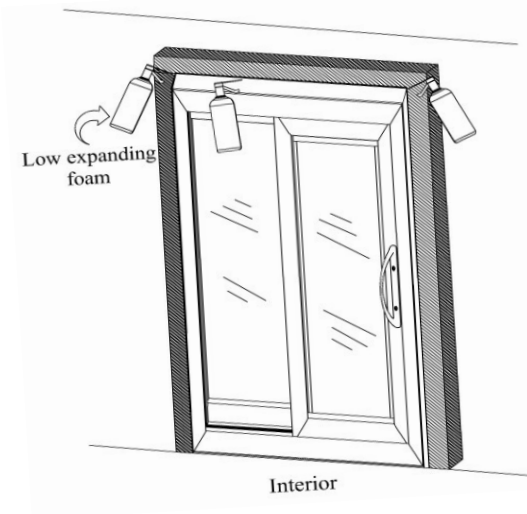


- 6 On the exterior of the door, apply sealant around the head and jambs. Apply finish trim/boards to enhance their overall design.

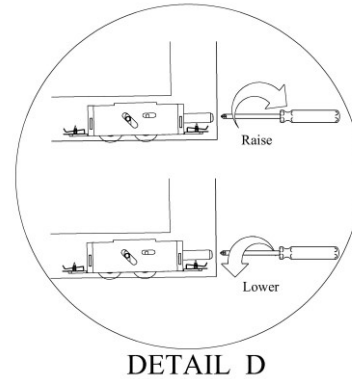


4500 SERIES - REPLACEMENT DOOR INSTALLATION

- 7** Insulate the door frame using low expanding foam.



- 8** When adjusting the rollers the panel must be lifted, the screws will not move if the weight of the Operating Panel is on them.
Twist the adjustment screw clockwise to raise the Operating Panel or counter-clockwise to lower it (Detail D).



- 9** Install the hole plug in the roller adjustment hole (Detail E). **10** Remove the existing keeper screws and replace them with the provided screws (Detail F).

