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## **New Construction Installation Instructions for: Interstate Vinyl Patio Door Model 6100/6400**

*"READ THIS INSTRUCTION SHEET COMPLETELY"*

Failure to follow these Installation Instructions voids the "Lifetime Limited Warranty."

### ***Notes:***

- Do not store wrapped doors in sunlight or near heat source, extreme heat build-up in package can damage door.
- Local Building Codes may impose additional requirements which supersede these instructions. Compliance to these codes are the installers' responsibility.
- These are Guidelines and only trained professionals should install doors; when in doubt refer to ASTM E2112-01 or the AAMA Installation Master's Guide.
- Utilize safe work procedures according to manufacturers instructions and local safety codes. Interstate Window and Door Co. assumes no liability for any personal injury or property damage incurred in installation.
- Existing door frame must be in good structural condition, otherwise a full frame replacement should be done.
- The advertised DP ratings were achieved using the following installation procedures.
- Tinting or dark shades are not recommended due to potential heat build-up which could cause glazing failure.
- Interstate is in compliance with Federal Lead-Based Paint safety practices.

### ***In the Box:***

- Screw Pack with Four (4) Plug Buttons
- Hardware Kit: handle, back plate, thumb latch mechanism, (key lock with 2 keys – 6300; optional with 4200)

### ***Tools Needed:***

- Utility Knife
- Caulking Gun & Caulk
- Drill/Screw Gun
- Small Flat Pry Bar
- Level or Straight Edge
- Straight Screwdriver with 3/16" blade
- Phillips Screwdriver
- Hammer
- Rubber Mallet

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## Inspect Rough Opening

- *This door has an installation fin and is intended to be installed from the Exterior of the structure.*
- *Interstate is not responsible for the reinstallation of doors due to incorrect size, options or damage, **inspect all doors before removing old ones.***
- Check rough opening width and height, it must be 1/2" larger than door frame dimensions.

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## Plumb, Level, Square

- Ensure that rough opening is plumb and level.
- For proper door operation it is critical the the sill be 100% level.
- Sill pan flashing is recommended and may be necessary.
- Check squareness of rough opening by measuring diagonally. Dimensions must be within **1/8"** of each other. Shimming may be required.

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## Decide Operating Panel

- All doors are initially set up to be left operating (from outside)
- Decide which hand (the side of the unit occupied by the operating panel) the unit will be. Door is designed to be reversible by inverting the operating and fixed panels.
- Remove head and sill covers. Set aside for later use.

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## Verify Frame Fit

- Carefully set door frame into opening and on top of two flat shims, center unit in opening.
- Add additional shims at sill to make the sill of door level.
- Verify that unit can be installed plumb, level and square.
- If using sill pan flashing, assure that it is level and properly sealed and frame fits properly.
- Remove frame from opening.

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## Install Door Frame

- Run a 3/8" bead of caulk along the interior side of the nailing fin directly over nail holes and on the bottom side of the sill.
- Carefully place frame into wall opening.
- Tack door into opening by nailing through flange  $\frac{3}{4}$  of the way up on both sides of jamb.
- From interior shim each of the four sides until the frame is level, square and plumb.
- The frame is square when both diagonals measure equal.
- Fasten frame in place using 1 1/2" weatherable screws or roofing nails in the pre-punched holes provided.

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## Secure Sill

- Recheck to make sure the sill is level, flat and solid. Secure the sill with 3 screws evenly placed using the following method:

Pre-drill 3/8" hole through 1<sup>st</sup> layer of vinyl. Then pre-drill 5/32" hole through to substrate. Apply silicone sealant into hole, apply screws into holes, top screws with more silicone and cap with plug buttons.

- Use 3 screws on sill. They should be applied into shims where applicable.

For 3 & 4 panel doors, see supplemental instructions.

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## Install Fixed Panel

- Remove interlock from the side of the fixed panel.
- If operating door is changed it will be necessary to move fixed panel spacers to opposite jamb.
- Install the fixed panel into the frame pushing it completely into the fixed jams against the fixed panel spacers and making sure the glazing bead is facing out.
- Reinstall interlock by putting a bead of silicone on each end (as shown) and tap in place with mallet. DO NOT CUT INTERLOCK.

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## Install Operating Panel

- Install moving panel into the frame making sure the rollers are on the bottom.
- Adjust the rollers until the sash reveal is equal at head and sill and aligned with fixed panel. Be sure the glazing bead is facing out. Roller adjustment is located at end of operating panel. DO NOT USE DRILL to adjust rollers.

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## Install Sill Cover

- Snap head and sill covers into the fixed panel pocket of the header and sill. They should fit snugly.
- Secure panel by running 1" screws into parting stop between sash and panel.

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## Install Hardware

- Install handles into the operating panel and verify latch hardware is moving from bottom to top (see instructions sheet that came with hardware).
- Make sure the shims are placed directly behind the 2 pre-processed dimples used to locate the latch keeper.
- Fasten latch keeper and shim to the lock jamb, using the pre-processed dimples to locate the 2½" pan head installation screws (supplied). Be sure jamb is shimmed properly and that screws penetrate shims.

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## Screen

- Install the screen by placing the top in the top channel and placing the bottom in the roller channel. It may be necessary to push roller up onto roller track with screwdriver or putty knife.
- Adjust bottom rollers until screen is even at top and bottom and square with jambs.
- Adjust top rollers applying downward pressure to assure screen rolls properly.
- Align and install keepers per instructions supplied with screen.

# Maintenance

### Precautions:

- *Protect door from direct contact with any brick washes.*
- *Be careful, metal razor blades can damage the glass or other surfaces.*
- *Do not use abrasive cleaners on vinyl or glass surfaces, they will scratch the surface.*

### Cleaning:

- Clean glass with a liquid glass cleaner and a soft towel.
- Vinyl frames and sash can be cleaned using a mixture of a mild detergent and water with a soft towel or brush.
- Isopropyl alcohol can be used for tough to clean areas.
- To request additional information call 800-338-9997.



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## Installation Instructions for: Interstate Vinyl Patio Door Foot Lock

Make sure all necessary operating and lock adjustments are made to installed door.

1. Foot lock will install at sill end of meeting rail as pictured (Fig.1).



Fig.1

2. With the door in the closed position make a pencil mark on the sash at the top of the interior sill leg (Fig. 2). Operate door noting the location of the pencil mark as it travels across the sill. If the pencil mark drops below the sill at any point, stop the door at the position where it appears to drop to its deepest depth and make a new pencil mark.



Fig.2

3. Locate the foot lock 1/8" above the pencil line and 3/16" in from the sash edge (opposite of glass) and mark the four installation holes (Fig. 3). Pre-drill with 1/8" bit making sure to drill through aluminum reinforcement on the two top holes but only through the vinyl on the bottom holes.



Fig.3

4. Attach foot lock to sash using supplied #8 x 1" pan head for two top hole and #8 x 1/2" pan head on bottom holes (Fig. 4).



Fig.4

### Keeper installation

5. Activate foot lock and align first stop of keeper with lock as shown and mark the installation holes on frame dam leg and pre-drill with 1/8" bit (Fig. 5).



Fig.5

6. Before installing keeper a high quality silicone must be used to fill installation holes with excess allowed on the surface (Fig. 6) to assure screw seal 100% (screws are installed directly into the weep reservoir of the door). Attach keeper by installing #8 x 1" pan head screw through keeper. Keeper screws should be run in half way and additional silicone should be added (Fig. 6) before screw are tightened.



Fig.6

7. Apply anti Lift in head of door above active sash panel as shown.



Fig.7