Vivid Inswing French Door

Installation Instruction

Before You Begin

IMPORTANT

Read these instructions thoroughly before beginning to install your Vivid Inswing French Door. These instructions should be used in conjunction with the door installation instruction. Failure to install as recommended will void any warranty, written or implied. Regional applications and standards may vary, therefore Marvin Windows and Doors is not responsible for interpretations of local codes and/or ordinances. Installation is the sole responsibility of the certified installer or authorized contractor. After installation is completed, these instructions should be retained by the building owner. For additional information, consult your Marvin Windows and Doors dealer.

IMPORTANT

All windows and doors must have properly installed flashing systems and sealant at unit perimeter in accordance with accepted and proven construction methods.

ATTENTION

Specifications and technical data are subject to change without notice.

NOTE: When specifying or considering the structural load requirements for windows and doors, it is important to consider the method of fastening the unit(s) together in addition to the method of fastening multiple assemblies into an opening. The methods contained herein may not be appropriate for all performance requirements. Selection of the appropriate fastening method(s) is the sole responsibility of the certified installer or authorized contractor.

IMPORTANT

Do not allow strong detergents, solvents, chemicals or other harsh cleaning substances to come in contact with Ultrex surfaces as they can cause damage. Remove fresh paint splashes, grease or caulking with naphtha or isopropyl alcohol. If you wish to maintain the finish of the Ultrex, wash with soap and water.



WARNING!

Practice safety! Wear safety glasses or goggles and appropriate hearing protection when installing.





WARNING!

Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. California Health and Safety Code section 25249.6.



WARNING!

These products contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



WARNING!

Older homes may contain lead-based paint, which may be disturbed when replacing windows or performing renovations. Consult state or local authorities for safe handling, disposal, or abatement requirements. For more information, go to www.epa.gov/lead.

You Will Need To Supply

- Safety glasses
- 4-6' Level
- Hammer
- · 2" Roofing nails
- · Tape measure
- · Seam seal tape
- Drill
- Interior trim or casing as desired
- · Backing material (foam backing rod)
- Hearing protection

- Square
- Shims
- · Fiberglass insulation
- Utility knife
- 11/64" Drill bit
- 5/32" Hex key
- · Drip cap flashing (for top of unit)
- Grade NS Class 25 sealant per ASTM C920.
 Sealant must be compatible with building exterior and window surface.

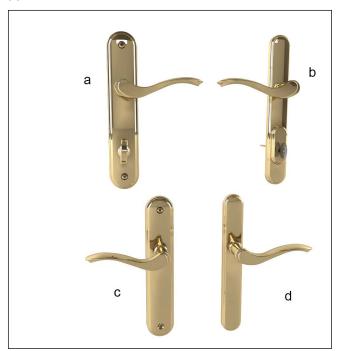
NOTE: Numbers listed in parentheses () are metric equivalents in millimeters rounded to the nearest whole number.

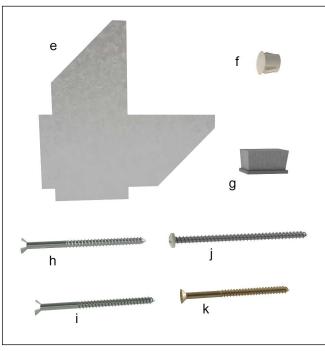
IMPORTANT

Vivid doors may be harmed by excess construction moisture. Ventilate building during high moisture phases or seal interior of the opening with plastic.

Standard Parts Shipped

NOTE: Not all fasteners may be used during installation.





				, ×,	XOR/			OXO, XOOR/	OXO, XOOL/	/oxx
	Description	Part Number	0,00	OXR	OXL	×	000	00XL	OOXR	XXO
d,	, b Primary Handleset	Varies		1	1	1		1	1	1
b,	. d Secondary Handleset	Varies				1				1
ь	e Nailfin Fin Gasket	11866519	1	1	1	1	1	1	1	1
4	Hole Plugs	Varies	10	10	10	10	20	20	20	20
B	g Screen Dust Block	10500161	1	1	1	1	1	1	1	1
Ч	h #8x2.5" color matched screw	Varies		4		8			7	4
	#8x2.5" Stainless screw	11800648		5	5	5		2	2	5
j	#8x3" panhead screw	11800829	12	12	12	12	12	12	12	12
×	k #8x2.5" Brass screw	11805165		1	1	1		1	1	1

Permanently Fastening the Door

NOTE: Prior to beginning this section ensure you have completed the general door installation instructions included with this unit.



WARNING!

On X, XO/OX and XX units, the unit is locked. Please refer to the sections on locking and unlocking the door for further information.

NOTE: For masonry installation, **refer to page 11** prior to beginning this installation.

1. Locate the through jamb installation holes on the jamb (three) and head jamb (two to six) Ultrex. Pre-drill each of these locations to the rough opening with an 11/64" drill bit. Drive the #8 x 3" pan head screws into the framing members. Do not completely tighten screws as some adjustment may be necessary. From the interior, apply shims directly above installation screws. See Figure 1.



Figure 1

1 #8 x 3" Pan head screw

NOTE: If you are installing a door with a transom mulled above or a unit mulled to the side, do not drive long screws through frame towards mulling joint.

- **2.** Install handles on operator panels according to the instructions supplied with the handle sets.
- **3.** On **operator panels**, after the jamb and head jamb installation screws are installed, open the door at least

90° to access the hinges and strike plate installation screws. Support the weight of the panel by adding blocking under the far edge (handle side) of panel to the floor.

4. On **X, XOL/OXR, XX, XOOL/OOXR, and XXO/OXX units** remove the top screw from each jamb-side hinge and replace with a #8 x 2 1/2" flat head color matched screw. See Figure 2.



Figure 2

1 Top screw (2 1/2" screw)

5. On **X, XOR/OXL, and XOOR/OOXL units** remove the center screw from the locking jamb strike plate and replace with either a #8 x 2 1/2" brass or stainless steel screw. See Figure 3.

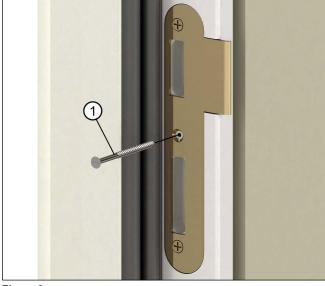


Figure 3

Center screw

6. On **X, XOR/OXL, and XOOR/OOXL units**, remove the two interior head jamb strike plate screws and replace with #8 x 2 1/2" stainless steel screws. See Figure 4.

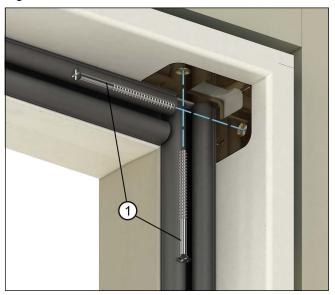


Figure 4

1 Screws

7. On XX, XO/OX, XOO/OOX, OXO, and XXO/OXX units, remove two head jamb strike plate screws and replace with #8 x 2 1/2" stainless steel screws. XX units will be the two interior most screws, XO/OX and XOO/OOX units will be the two visible screws. OXO units will replace the two visible screws on each strike plate. XXO/OXX units will replace the two visible screws on the stationary strike plate, and the two interior-most screws on the strike ramp. See Figure 5 and Figure 6.

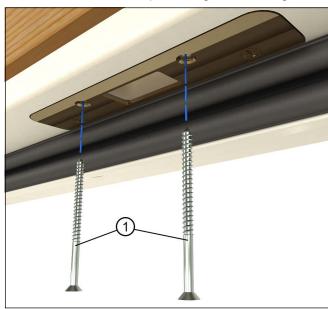


Figure 5

1 Screws

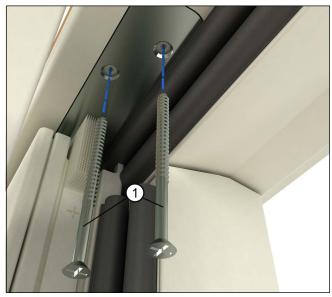


Figure 6

1 Screws

- **8.** Place additional shims around the unit perimeter as necessary. Shims must be placed 4"-6" (102-152) from each corner and a maximum 15" (381) apart on center. *Do not over shim.*
- **9.** Tighten each installation screw through Ultrex jamb and head jamb.
- **10.** Check horizontal, vertical, and diagonal measurements to ensure the door is square in the opening. Adjust screws and shims as necessary.
- **11.** When the unit is completely fastened to the opening and is square and plumb, cover the Ultrex jamb and head jamb screw holes with the colored plugs provided. Make sure the plug is seated tightly. See Figure 7.



12. Permanently fasten nailing fin to exterior sheathing, space fasteners 6"- 8" (152-203) apart (maximum) and a maximum of 6" (102) from each corner.

Figure 7

1 4	1 11-1 1	
1 1	l Hole plua	

Final Installation Procedures

1. From interior side of unit, unlock operating panel. Open and remove shipping block from under each operator panel. Carefully bring panel into closed position, take care not to allow panel to contact sill if vertical adjustment is necessary. Follow hinge adjustment procedures on page 9 if necessary. Close and lock door panel. See Figure 8.

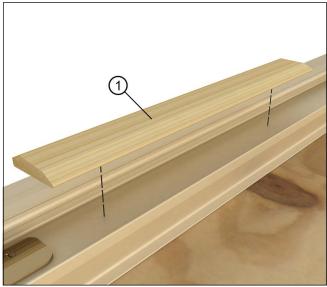


Figure 8

1	Shipping block

2. Check the door to see if the panel swings easily. Follow hinge adjustment procedures if necessary.

Final Sealing Procedures

IMPORTANT

Using improper sealant could result in sealant failure causing air and water infiltration.



CAUTION!

Expanding foam type insulation may be used to form an infiltration seal as required by some building codes. However, a low expansion type foam should be used in combination with fiberglass insulation

1. After exterior finish or siding is installed, apply sealant around the exterior perimeter of the unit frame or casing. As needed, insert backing material between the frame or casing and the structure to provide a proper sealant joint. Sealant depth must be equal to width between unit and exterior finish material (brick and masonry apply). Always refer to the manufacturer's recommendations for proper surface preparation and application. See Figure 9.

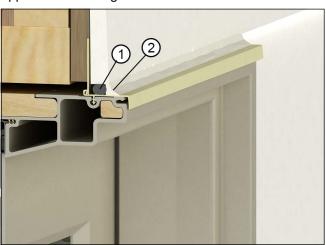


Figure 9

1	Backer rod
2	Sealant

- **2.** Fill gaps between the door frame and framing members on interior with insulation. Do not pack tightly.
- **3.** Apply interior casing as desired. Finish the interior wood surfaces as soon as possible. Follow enclosed general paint/stain instructions and manufacturer's recommendations to ensure proper adhesion and performance.
- **4.** On **XO/OX Units** when installed with a sliding screen, install the sliding screen sill dust block at the

center of the unit, flush to the bottom of the sill as shown in Figure 10. On **XOO/OOX** and **OXO** units with a sliding screen, install the sill dust block at the mull post between the operator panel and the stationary panel that the screen will slide toward, flush to the bottom of the sill.

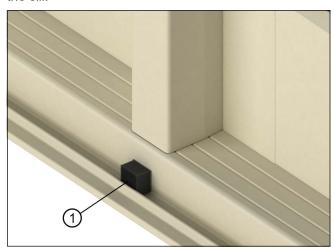


Figure 10

1	Screen dust block

Handle Operation

NOTE: The door handle performs two separate functions. Rotating the handle upward engages the multipoint lock (at the top, bottom and side jamb). Rotating the handle in a downward motion releases the latch and also the multi-point lock if engaged. The thumb turn is used to lock the handle to prevent it from being rotated down. The thumb turn does not engage the multi-point lock

Locking the Doors

- **1.** Close door so it latches. Rotate handle up to engage the shoot bolts and deadbolt on the multi-point lock.
- 2. Turn "thumb turn" 1/4 turn to lock the handle. Verify that the handle cannot be rotated down to ensure door is properly locked. See Figure 11. (It is locked at the header by the shoot bolt, as shown in Figure 12.)

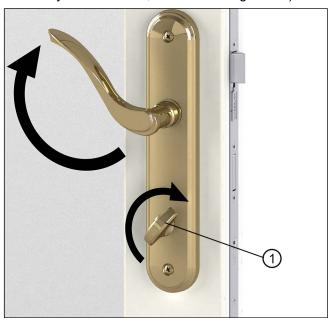


Figure 11

1	Thumb turn		
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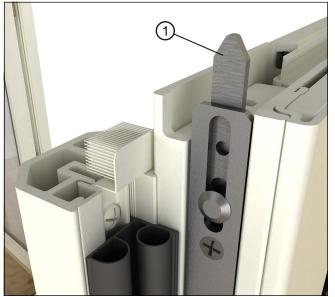


Figure 12

1 Shoot bolt

Unlocking the Doors

- 1. Turn the thumb turn 1/4 turn.
- 2. Rotate the handle down to disengage the multi-point lock and latch mechanism. See Figure 13. (It is unlocked at the header when the shoot bolt retracts, as shown in Figure 14.)

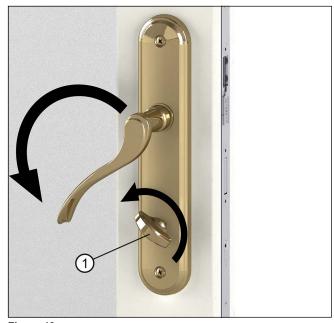


Figure 13

1 Thumb turn

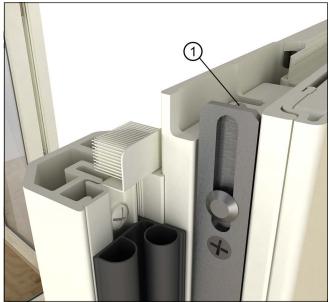


Figure 14

1 Shoot bolt

Hinge Adjustment

NOTE: Should you find it necessary to make minor adjustments to your Vivid Inswing French door after it has been permanently installed, the adjustable hinge system will allow you to do this. During installation, adjustment of door frame shims should be done to correct any alignment or operation problems.

IMPORTANT

Ensure that the unit has been installed square in the opening.



CAUTION!

Failure to follow adjustment procedures as outlined may damage hinge.

1. Adjustments should only be made when panel misalignment is visible or it causes poor operation of the door/lock. Make any adjustments in small increments (one rotation per hinge), starting with the bottom hinge and working up to the top hinge. Repeat the process as necessary adjusting one rotation at a time. Check results, readjust or proceed as required. Each hinge has a vertical and horizontal adjustment screw. See Figure 15 and Figure 16.



Figure 15 Horizontal adjustment



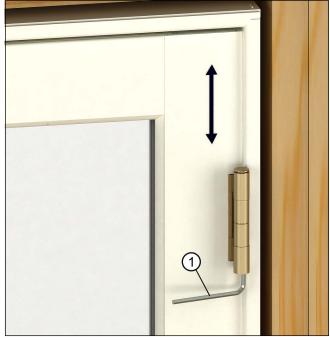


Figure 16 Vertical Adjustment

1 5/32" Hex key

2. Check panel clearance at the sill. The panel should have a minimum of 3/16" (5) clearance at the bottom. The vertical adjustment screw should be adjusted equal amounts starting with the bottom hinge. Check index mark on hinge leaf to determine amount and direction of panel movement. See Figure 17.

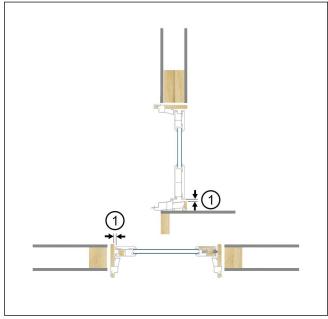


Figure 17

1	3/16"

3. Check panel alignment with locking jamb, the panel should have 3/16" (5) clearance along the jamb. Rotate the horizontal adjustment screw clockwise to decrease, counterclockwise to increase jamb to panel clearance.

NOTE: If increasing clearance at the top, the bottom hinge may have to be adjusted to decrease clearance at the hinge jamb and avoid hinge binding.

4. After panel alignment is corrected, recheck latch and deadbolt operation

Sill Liner Installation (Optional)

- 1. Remove any dust or debris along interior of sill.
- 2. Remove tape backer from sill liner.

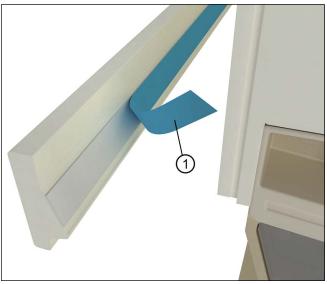


Figure 18

	1	Tape Backer
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3. Place sill liner on interior of sill, with top of sill liner flush to top edge of sill, tight against the bottom edges of the jamb liner.



Figure 19

1	Sill
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4. Apply pressure along full length of sill liner.

Masonry Unit Installation

Structural brackets may be used instead of nailing fin. Structural bracket installations will be fastened to the frame following these instructions.

1. Align center hole on structural bracket with through jamb hole location for placement guide. Fasten structural bracket using three #7 x 5/8" wood screws, as shown in Figure 20.



Figure 20

Center hole is aligned with a through-jamb hole

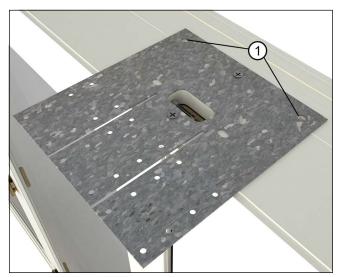


Figure 21

1

Outer holes are aligned with through-jamb hole locations

NOTE: On XO/OX and all three-wide units, the meeting stile structural brackets on the head jamb will align with two outer holes of structural bracket, and fasten as shown in Figure 21.

2. Install the unit as defined in the general door installation instructions, then complete the installation by bending structural bracket tabs to the interior of the frame. Attach structural bracket to wood framing with two 1 5/8"(41) sheet rock screws per tab, making sure screws are no more than 1/4" (6) from the bend in bracket. Angle the screws approximately 15° towards the thicker part of the framing member. See Figure 22.

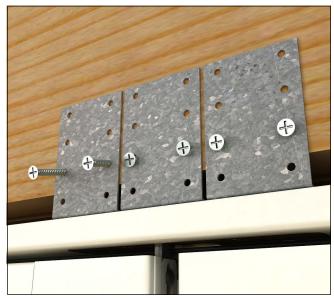


Figure 22