



Ultra™ Series French Door Installation Details

For hinges Jan 1, 2019 and after

- Check each door rough opening for correct dimensions. Make sure each rough opening is level, plumb, and square. **SILL MUST BE FLAT AND LEVEL (use shims if needed).**

- Apply jamb flashing as described in AAMA 2400-10.

- Apply (2) 3/8" diameter beads of high quality sealant continuously across the sub floor where the sill pan/jamb sill will be located. Continue the sealant 12" up both rough opening frame jambs. This will provide a weather tight seal between the floor and the door sill. Reference the Sill Pan/ Jamb Sill Installation Instructions prior to door installation.

- Apply a bead of high quality sealant to the top surface of the sill pan/jamb sill (per Sill Pan/Jamb Sill Instructions) prior to door installation.

- Apply a continuous bead of high quality sealant to the back side of the mounting flange facing the interior.

- Place door into rough opening, making sure fin is flat against wall (face board) and centered.

CHECK DOOR FOR LEVEL, PLUMB, AND SQUARE:

Including diagonally – corner to corner inside & outside. Next, screw/tack nail through fin to hold door in place. Use caution to prevent twisting door frame, causing jamb deflection, and potentially making door operation difficult.

- Apply fasteners to the mounting flange 10" to 16" O.C. Do not fasten within 3" from corners. Apply shims where support is needed. Be sure to shim behind each hinge to give them support. Use two holes per hinge to fasten with 3" long screws in order to penetrate the rough opening.

- Apply sealant and head flashing as described in AAMA 2400-10.

DOOR HARDWARE ATTACHMENT:

Refer to instructions contained inside the hardware car.

- As part of the final installation inspection performed by the installer, the door should be checked for proper operation.

FINAL INSTALLED DIMENSIONS FOR FRENCH DOORS (Check all measurements during and after installation)

1. Measurements:

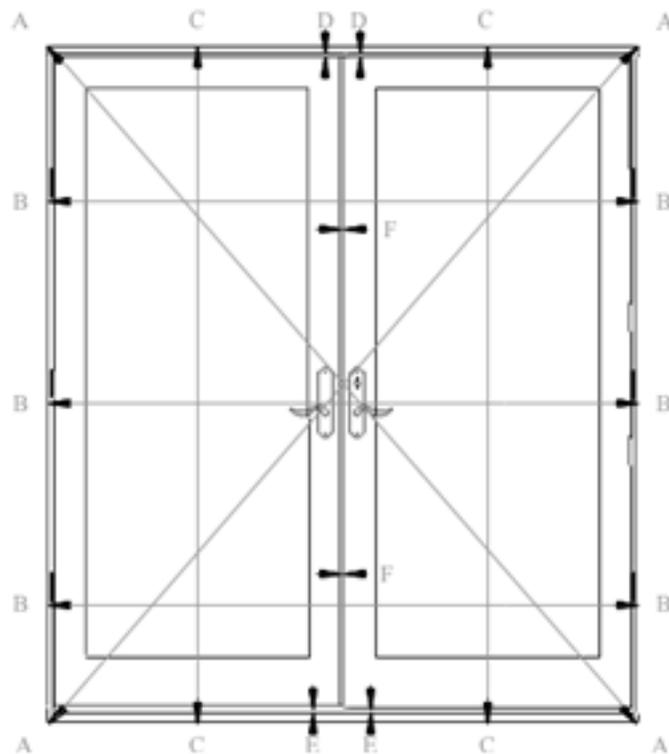
- A. Diagonals must be equal dimensions.
- B. Must be equal to dimensions of door width.
- C. Must be equal to dimensions of door height.
- D. From the interior, the gap between the top of the door and the head frame should be 3/16" uniform for proper operation of the door.
- E. In-swing: From the interior, the gap between the top of the threshold and the bottom of the door panel should be 1/4" uniform for proper operation of the door.
- F. In-swing: From the interior, the gap between the panels should be 3/16" uniform for proper operation of the door. There should be 1/16" to 1/8" between the Frame Jamb and the Panels.

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2. Hinge Adjustment Steps:

Introduction

There are two types of Adjustable Hinges on each door panel:

- A. Set Hinge: One or two per panel. The set hinge provides +/- 0.12" vertical adjustment.
- B. Guide Hinge: Two or three per panel. The guide hinges provide +/-0.12" horizontal adjustment. Look for the visible adjusting screw on the door sash leaf. This identifies the hinge as a guide hinge.
- C. Hinge designs may vary, but adjustment remains the same.

Required Tools

- A. A 3/16" hex wrench is required.
- B. A small flat head screwdriver is required.
- C. A plastic putty knife is recommended.

Vertical Adjustment for Doors with Two Set Hinges

With the door closed or open:

- A. Remove the press-fit Finial Cap from the bottom of the Set Hinge to expose the adjustment screw. Use the small screwdriver for Set Hinges featuring a plastic Finial Cap. A plastic putty knife is recommended for Set Hinges featuring a brass Finial Cap.
- B. To raise the panel, insert the hex wrench into the topmost Set Hinge and tighten the adjustment screw to achieve the desired adjustment. Insert the hex wrench into the other Set Hinge and tighten the adjustment screw 1/8 turn past the onset of resistance to distribute the panel weight evenly between both Set Hinges.

- C. To lower the panel, insert the hex wrench into the topmost Set Hinge and loosen the adjustment screw as far as possible without removing. Insert the hex wrench into the other Set Hinge and loosen the adjustment screw to achieve the desired adjustment. Retighten the adjustment screw on the topmost 1/8 turn past the onset of resistance to distribute the panel weight evenly between both Set Hinges.
- D. Reinstall the Finial Caps removed in Step 1.

Horizontal Adjustment

With the door open:

- A. Insert a 3/16" hex wrench into the horizontal adjustment screw.
- B. Turn clockwise to decrease the margin and counterclockwise to increase the margin on the hinge side.

