

ULTRA AND ESSENCE® FRENCH DOOR INSTALLATION DETAILS



1. 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).
2. Apply jamb flashing as described in AAMA 2400-10.
3. 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.
4. Apply a bead of high quality sealant to the top surface of the sill pan/jam sill (per Sill Pan/Jam Sill Instructions) prior to door installation.
5. Apply a continuous bead of high quality sealant to the back side of the mounting flange facing the interior.
6. Place door into rough opening, making sure fin is flat against wall (face board) and centered.
7. 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.
8. 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.

9. Apply sealant and head flashing as described in AAMA 2400-10.
10. DOOR HARDWARE ATTACHMENT: refer to instructions contained inside the hardware car
11. As part of the final installation inspection performed by the installer, the door should be checked for proper operation.

WOOD FINISHING:

To best protect and maintain the wood's natural beauty, you must immediately seal and finish interior wood surfaces before, or right after installation. Doors stored for later delivery or installation must be kept in a warm, dry climate.

1. You must clean the wood surfaces before staining or painting Essence® doors. Lacquer thinner applied with a clean cloth will remove most dust and dirt from wood surfaces. Some residue removal may require use of a synthetic fiber abrasive pad. Recommend using only a fine finish, light-duty pad (usually a white color), or a general purpose pad (usually a green color). **Caution: Do not use abrasive cleaners or solutions containing such as acetone, benzene, or methyl**

ethyl ketone, they may damage the painted surface or wood on Milgard products and void the warranty.

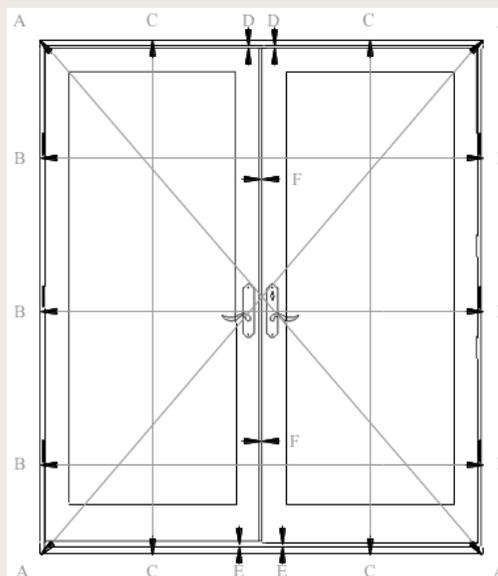
2. If you use a synthetic fiber abrasive pad, it is recommended to again wipe the wood surfaces with lacquer thinner applied with a clean terry cloth.
3. Allow enough time for the lacquer thinner to dry completely. A dry wood surface ensures proper paint adhesion if applying a primer coat according to the manufacturer's instructions. If staining wood surfaces, first ensure the wood surfaces are dry. Prior to applying a wood conditioner, lightly sand using only 220 grit or higher sand paper. The use of any sand paper less than 220 grit will void the Milgard Warranty. Next, it is recommended that you first apply a wood conditioner according to the manufacturer's instructions. **Caution: When applying wood conditioner, stain, sealer, primer, and/or paint avoid contact with weather-strip, hardware, rollers, and handles.** Contact with component parts can deteriorate or damage component finishes and may require replacement.

Immediately finish all wood surfaces after primer coat or wood conditioner application. Allow ample time for dry cure period. For paint or stain application, follow the paint or stain manufacturer's application instructions carefully. All wood surfaces must be sealed when applying a stain finish. Seal by applying two or three coats of a polyurethane-based sealer according to the manufacturer's instructions.

FINAL INSTALLED DIMENSIONS FOR FRENCH DOORS. CHECK ALL MEASUREMENTS DURING AND AFTER INSTALLATION.

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.



HINGE ADJUSTMENT STEPS:

Introduction

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

1. Set Hinge: One or two per panel. The set hinge provides +/- 0.12" vertical adjustment.
2. 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.
3. Hinge designs may vary, but adjustment remains the same.

Required Tools

1. A 3/16" hex wrench is required.
2. A small flat head screwdriver is required.
3. A plastic putty knife is recommended.

Vertical Adjustment for Doors with One Set Hinge

With the door closed or open:

1. 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.
2. Insert the hex wrench into the bottom of the Set Hinge. Tighten the screw to raise the panel and loosen to lower the panel.
3. Reinstall the Finial Cap removed in Step 1.

Vertical Adjustment for Doors with Two Set Hinges

With the door closed or open:

1. 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.
2. 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.
3. 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.
4. Reinstall the Finial Caps removed in Step 1.

Horizontal Adjustment

With the door open:

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

