FUSION FRAME™ INSTALLATION (FRENCH) DOUBLE DOORS

**Tools & Materials You Will Need:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Tape</td>
<td>(1) box 2½&quot; - 3&quot;</td>
</tr>
<tr>
<td>Exterior Decking Screws</td>
<td>(1) Box Wood Shims</td>
</tr>
<tr>
<td>Pencil</td>
<td>Hammer</td>
</tr>
<tr>
<td>Level</td>
<td>Drill &amp; Drill bits</td>
</tr>
<tr>
<td>Utility Knife</td>
<td>Hacksaw or Reciprocating Saw</td>
</tr>
<tr>
<td>Caulking Gun &amp; High-Performance Premium Caulking</td>
<td>Carpenter's Square</td>
</tr>
<tr>
<td>Hacksaw or Reciprocating Saw</td>
<td></td>
</tr>
</tbody>
</table>

**Materials Provided:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockset Adjustable Strike Plate</td>
<td>(1)</td>
</tr>
<tr>
<td>Lockset Strike Plate</td>
<td>(1) Dust Box</td>
</tr>
<tr>
<td>#8 x 2½&quot; Strike Plate Screws</td>
<td>(4)</td>
</tr>
<tr>
<td>#10 x 2½&quot; Security Screws for Hinge to Jamb</td>
<td>(1) Deadbolt Strike Plate</td>
</tr>
</tbody>
</table>

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**1 UNPACKAGENEWUNIT**

**Step 1** - Confirm the new Provia door is the correct size for the existing opening. Use sizing chart and ordering information from bar coded label on shipping box.

**Step 2** - Unpackage new door. Confirm swing, color, style, and that order was shipped complete. Inspect for any damage. Double check size of new unit by comparing measurements to existing unit.

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**2 PREPARE ROUGH OPENING**

**Step 1** - Remove existing door and jamb to expose rough opening.

**Step 2** - Prepare rough opening (jack stud to jack stud, and sub-floor to underside of header). Make sure sill is level. **Note:** Sill area may need to be built up so that new door slab will clear carpet, hardwood, rug, etc. New threshold is 1¼" thick.

**Step 3** - Check opposing walls for plumb to help determine if walls are on same plane. If they are not, establish a plan to adjust new door in plane during installation.

**Step 4** - Dry fit unit to confirm opening clearances and plane of door. If sill is not level, adjust with shims between sub-floor and jamb. **Jamb must sit dir**
Step 1 - Remove all jamb and brickmold covers by pulling factory installed pull tabs (see illustration). Remove brickmold by pulling leg from the grooved frame, starting at the threshold, and set aside to prevent damage.

**NOTE:** Composite header jamb cover is NOT removable on Fusion Frame (French) Double Doors.
**Step 1** - Install sill flashing.

**Step 2** - Apply two generous beads (\(\frac{3}{8}\)) of premium caulking compound on sill, in a STRAIGHT LINE, as in illustration. Place first caulking bead 1½” from interior and second caulking bead 3” from first bead (see illustration).

**Step 3** - Set new door unit into opening and center on existing base board or paint lines.

**Door jamb should not protrude past exterior sheathing to avoid compromising Fusion brickmold installation.**

**Step 4** - Install a 2½” smooth shank deck screw in the top screw prep location on each jamb. Place shims behind the bottom screw prep location on each jamb. DO NOT OVER-TIGHTEN SCREWS. Keep plane of door in mind during this process (see illustration).

**Step 5** - Unlock deadbolt and remove shipping block from header of door.

**Step 6** - Open active door. Inspect plane of door by comparing it to edge of the inactive door slab. The edges should be parallel. If door is out of plane (edges of the door slabs are not parallel), adjust accordingly. See troubleshooting guide for help.
Step 7 - Install 2½" smooth shank screw in top hinge of inactive door. Use this screw and shims behind bottom hinge to adjust door. The goal is to have ⅛" margins on top and hinge side of door.

Astragal bolts must continue to function in existing factory holes.

Step 8 - Repeat this process for the active door. The top of the active door should be even with or just below the top of the inactive door. Re-check plane of doors and all margins. Adjust if necessary. See troubleshooting table for help.

Step 9 - Install security screw (full-thread) in bottom hinge on both jambs.

Step 10 - Shim behind top hinges and install security screws (full-thread) in remaining top hinge holes. Remove smooth shank screw and replace with a security screw (full-thread).

Step 11 - Install screws in middle hinges and shim to the screw. **NOTE:** This step can affect margins.
**ATTENTION INSTALLER:**

Drill hole 1 3/8" Deep for bolt pin.

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**DOUBLE DOOR INSTALLATION**

Header strike plate is factory installed on jamb.

**Step 13** - Shim above the header strike plate to adjust top margin.

**Step 14** - Remove (2) #8 x ¾" Phillips Flathead Screws and replace with (2) #6 x 3" Phillips Flathead Screws provided.

Shim and screw along the header as needed.

**Step 15** - Check the astragal bolt pin for proper operation at the top and bottom (see illustrations).

**Step 16** - Install screws and shims in remaining Fusion Frame jamb screw prep locations.

**Step 17** - Inspect door to confirm margins and plane are still correct.

Make sure Astragal Bolt penetrates threshold allowing boot to seal.
**5 HARDWARE INSTALLATION**

Lockset and deadbolt strike plates are factory applied on astragal and are adjustable.

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**Step 1** - Install lockset by following manufacturer's instructions in the hardware box.

**Step 2** - Loosen strike plate screws until plate can move freely.

**Step 3** - Move plate to desired location and snug screws. Test location by closing door. The active and inactive door faces should be even with each other.

**Step 4** - When desired location is achieved, tighten the screws in the strike plate.

The endpoint of strike screws must penetrate into the astragal body. This prevents strike plate movement during operation. See troubleshooting table for help.

**Step 5** - Repeat this process for deadbolt hardware. Deadbolt strike screws will not make contact with astragal body!
**6 BRICKMOLD INSTALLATION**

**Step 1** - Install the jamb covers with the angled end placed at threshold (see illustration). Hook outer edge of jamb cover over the outside edge and roll towards jamb. Use a rubber mallet to tap cover into place.

**Step 2** - With composite covers removed from loose brickmold, place brickmold header and side legs on a level surface. Use pre-drilled holes to fasten miters together with a 2½” screw (see illustration). This will assure that miter remains tight after composite cover is installed.

**Step 3** - Place a bead of caulk around perimeter of rough opening so that it will seal the back side of brickmold when installed. Carefully align insertion leg of brickmold with the groove in the jamb and tap in until fully seated against the wall of the home.

**Step 4** - Install screws in brickmold, at least 4 in sides and 3 in header.

**Step 5** - Place a bead of caulk across inside corner, face, and outside corner of brickmold miter. Install composite covers. Immediately remove any excess caulk from miter areas.

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**7 CAULK**

**Step 1** - Caulk the jamb and brickmold ONLY where they meet threshold to help ensure water tightness (see illustration). DO NOT CAULK VERTICAL SEAMS OF JAMB OR BRICKMOLD.

**Step 2** - Adjust threshold cap if necessary (see illustration). Ensure proper operation of unit parts and accessories.
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center margin is smaller at top than bottom</td>
<td>Adjust shims behind top and bottom hinges - increase shims at bottom and decrease shims at top.</td>
</tr>
<tr>
<td>Center margin is larger at top than bottom</td>
<td>Adjust shims behind top and bottom hinges - decrease shims at bottom and increase shims at top.</td>
</tr>
<tr>
<td>Header margin is too small above center astragal</td>
<td>Decrease shims above header strike plate.</td>
</tr>
<tr>
<td>Header margin is too large above center astragal</td>
<td>Increase shims above header strike plate.</td>
</tr>
<tr>
<td>Top of doors uneven at center margin - active door is above inactive door</td>
<td>Decrease shims behind active door bottom hinge.</td>
</tr>
<tr>
<td>Top of doors uneven at center margin - active door is below inactive door</td>
<td>Increase shims behind active door bottom hinge.</td>
</tr>
<tr>
<td>Tapered margin above top hinge - larger at hinge</td>
<td>Increase shims behind top and/or middle hinge</td>
</tr>
<tr>
<td>Tapered margin above top hinge - smaller at hinge</td>
<td>Decrease shims behind top and/or middle hinge</td>
</tr>
<tr>
<td>Tapered margin below bottom hinge - larger at hinge</td>
<td>Increase shims behind bottom and/or middle hinge</td>
</tr>
<tr>
<td>Tapered margin below bottom hinge - smaller at hinge</td>
<td>Decrease shims behind bottom and/or middle hinge</td>
</tr>
</tbody>
</table>
| Door out of plane - top of door slab protrudes away from frame | One or a combination of the following:  
  1. adjust top strike side of frame towards door slab  
  2. adjust bottom hinge side of frame toward door slab  
  3. adjust bottom strike side of frame away from door slab  
  4. adjust top hinge side of frame away from door slab |
| Door out of plane - bottom of door slab protrudes away from frame | One or a combination of the following:  
  1. adjust bottom strike side of frame towards door slab  
  2. adjust top hinge side of frame toward door slab  
  3. adjust top strike side of frame away from door slab  
  4. adjust bottom hinge side of frame away from door slab |

Need more help? Scan the codes below to see a video.

### French Door Inspection & Prep

### French Door Installation 2

### Installation & Operation Issues

Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.

Homes built before 1978 may contain lead paint. All replacement installations must comply with the U.S. EPA’s Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule). Read more about the RRP Rule and lead-safe work practices, on the U.S. EPA’s website at: [www.epa.gov/lead](http://www.epa.gov/lead)