INSTALLATION INSTRUCTIONS FOR
PATIO UNIT & DOOR WITH SIDELITE(S)

**Tools & Materials You Will Need:**
- Measuring Tape
- Pencil
- Cedar Shims
- Drill & Drill bits
- Utility Knife
- Caulking Gun & High-Performance Premium Caulking
- Carpenter's Square
- Hammer
- Level
- Stiff Putty Knife
- Hacksaw or Reciprocating Saw
- (1) box 2 1/2" - 3" Galvanized decking screws
- Brass lockset strike plate with screws
- Brass deadbolt strike plate with screws

**Materials Provided:**
- Brass lockset strike plate with screws
- Brass deadbolt strike plate with screws

**REMEMBER:** Always use the appropriate personal protective equipment.

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)

1 UNPACK NEW UNIT

*Note:* It is recommended to have two or more installers available for large unit installations.

A. Unpackage your new door and confirm the swing, color, style and that your order was shipped complete. Check for damages which may have occurred during shipping.

B. Use the size charts below to confirm that the unit is the correct size for your opening.

*Note:* If actual installation does not match printed instructions, see troubleshooting section on page 4 or contact customer service.

### WOOD FRAME ROUGH OPENINGS AND UNIT SIZES

<table>
<thead>
<tr>
<th>Type of Opening</th>
<th>Standard Door Width</th>
<th>SINGLE DOOR</th>
<th>DOUBLE DOOR</th>
<th>Standard 80&quot; Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One 12&quot; Sidelite</td>
<td>One 14&quot; Sidelite</td>
<td>Two 12&quot; Sidelites</td>
<td>Two 14&quot; Sidelites</td>
</tr>
<tr>
<td>32&quot; Rough Opening Width</td>
<td>47-3/8&quot;</td>
<td>49-3/8&quot;</td>
<td>60-5/8&quot;</td>
<td>64-5/8&quot;</td>
</tr>
<tr>
<td>36&quot; Unit Width Not Including Brickmold</td>
<td>51-3/8&quot;</td>
<td>53-3/8&quot;</td>
<td>64-5/8&quot;</td>
<td>68-5/8&quot;</td>
</tr>
<tr>
<td>30&quot; Unit Width Including Brickmold</td>
<td>44-5/8&quot;</td>
<td>46-5/8&quot;</td>
<td>57-7/8&quot;</td>
<td>61-7/8&quot;</td>
</tr>
<tr>
<td>32&quot; Unit Width Including Brickmold</td>
<td>46-5/8&quot;</td>
<td>48-5/8&quot;</td>
<td>59-7/8&quot;</td>
<td>63-7/8&quot;</td>
</tr>
<tr>
<td>34&quot; Unit Width Including Brickmold</td>
<td>48-5/8&quot;</td>
<td>50-5/8&quot;</td>
<td>61-7/8&quot;</td>
<td>65-7/8&quot;</td>
</tr>
<tr>
<td>36&quot; Unit Width Including Brickmold</td>
<td>50-5/8&quot;</td>
<td>52-5/8&quot;</td>
<td>63-7/8&quot;</td>
<td>67-7/8&quot;</td>
</tr>
</tbody>
</table>

For 84" height, add 4"
2 REMOVE OLD PATIO DOOR OR DOOR WITH SIDELITE(S)

A. Remove interior casing.

B. Remove exterior brickmold.

C. Remove active panel from old frame.

D. Remove old door frame from wall opening.

3 PREPARE ROUGH OPENING

A. Rough opening should now be jack stud to jack stud on width, and floor to wall header on height. (Fig. 2 E)

B. Make sure floor is level. If floor is not level, shim low areas where side jamb will sit directly on shim. Also, make sure walls are plumb so that the door frame doesn’t twist corner to corner when installed.

C. Check to make sure new door will fit into rough opening width and height. Also check brickmold width and height to make sure unit will fit between brick or siding J-channel.

D. Apply two (3/8") beads of caulking to floor so new threshold will sit directly on caulking. (Fig. 3)

4 INSTALL PATIO OR DOOR WITH SIDELITE(S)

Note: If your unit is a 3-lite patio door with center door active, no prehang bracket is used. Active panel should be removed before unit is set into opening (remove hinge pins).

A. Tilt top of unit away from rough opening and set bottom threshold into opening until brickmold hits wall sheathing (plywood). Threshold should be aligned over caulking beads. (Fig. 4)

B. Now tilt top of unit into rough opening until top brickmold hits wall sheathing.
C. Center unit between jack studs and brick or siding J-channels. Run decking screw through center of header brickmold and 6” up from the bottom of each brickmold side.

D. Remove pre-hang bracket from inside. (Fig. 5 D)

**Note:** If 3-lite patio door with center door active, active panel can now be reinstalled in frame.

E. Check margins around active panel: ¼” margin at top and sides is recommended.

F. **If end door active patio, OR door with sidelite on hinge side:**
   - Shim behind strike jamb at top, deadbolt, and bottom locations.
   - Run galvanized decking screw behind weatherstrip and through jamb and shim, and at top and bottom of strike jamb.
   - In deadbolt strike plate mortise, run decking screw through jamb and shim. (Note: Make sure screw head will not interfere with brass strike plate screws. Fig. 6 F

**If door with sidelite on knob side:**
   - Shim behind each hinge and run the provided 2½” brass security screws through hinge holes that do not already have a hinge screw. (2/top, 1/middle, 1/bottom)

G. Shim above active door header jamb and run galvanized decking screw behind weatherstrip and through header jamb and shim.

H. Check margins again and adjust shims if needed.

I. Evenly space 3–4 more decking screws through each side of the brickmold and the head piece.

J. Adjust threshold cap, if needed, to create a snug seal. (Fig. 6 J)
TROUBLESHOOTING

TROUBLESHOOTING: Double (or triple) patio with end door active

Problem - strike margin is too small (door panel hits frame on strike side):
  • Loosen strike side shims and pull strike jamb toward stud by tightening
    the screws behind weatherstrip.

Problem - strike margin is too large:
  • Add to shim depth behind strike jamb.

Problem - header margin is too small on strike side:
  • Shim directly under wood strike jamb and where threshold joins
    with strike jamb, to raise strike away from door panel.

Problem - header margin is too large on strike side:
  • Shim directly under jamb and threshold in mullion area and also under
    threshold and end sidelite jamb to raise door panel in frame.

Problem - wall is not plumb:
  • Shim behind wood brickmold to put wood frame in plumb position.

TROUBLESHOOTING: Center active 3-lite patio door with 2 sidelites

Problem - header margin is too small on stike side:
  • Shim directly under threshold in strike mullion area and also under threshold and strike
    end sidelite jamb to raise sidelite and door header away from door panel.

Problem - wall is not plumb:
  • Shim behind wood brickmold to put wood frame in plumb position.

TROUBLESHOOTING: Door with sidelite on strike side

Problem - strike margin is too small (door panel hits frame on strike side).
  • Loosen hinge side shims and pull hinge jamb side toward stud by tightening
    the hinge security screws.

Problem - strike margin is too large:
  • Add to shim depth behind hinge jamb side.

Problem - header margin is too small on strike side:
  • Shim directly under jamb and threshold in mullion area and also under
    threshold and end sidelite jamb to raise sidelite and door header away from door panel.

Problem - header margin is too large for strike side:
  • Shim directly under hinge jamb and hinge side of threshold to raise door panel in frame.

Problem - wall is not plumb:
  • Shim behind wood brickmold to put wood frame in plumb position.