

## Quick Reference Guide

March 2020  
Version 2020.1

### Chapter 9 – Installing Exterior Doors

Door & Opening Preparation	<ol style="list-style-type: none"> <li>1. Inspect for damage. Notify SL or CS if damaged. Nail accessories to the king stud.</li> <li>2. Verify correct door and size. Verify hole for deadbolt. Check house plan and verify swing.</li> <li>3. Pre-drill 1/8" holes (5,5,3) in brickmold (<u>3" from mitered corners</u>). Angle slightly to hit studs/headers.</li> <li>4. Fold down/staple house wrap to deck in doorway.</li> <li>5. Mark hinge locations on the Jack stud and check for plumb with 6' level.</li> </ol>
Plumb Hinge Side	<ol style="list-style-type: none"> <li>6. If <b>PLUMB</b>:             <ol style="list-style-type: none"> <li>a. Measure door frame <u>at the head jamb</u> and rough opening at top and bottom hinge locations</li> <li>b. If difference &gt; 3/8" nail combination of 1/8" &amp; 1/4" 3"x5" spacers, 5" horizontal, w/trim nails at both hinge locations.</li> <li>c. Place level against spacers, install spacers/shims at middle until flush with level.</li> <li>d. Proceed to Step 8</li> </ol> </li> <li>7. If <b>NOT PLUMB</b>:             <ol style="list-style-type: none"> <li>a. Measure door frame <u>at the head jamb</u> and rough opening at top and bottom hinge locations.</li> <li>b. If difference &gt; 3/8" either location, nail combination of 1/8" &amp; 1/4" spacers/shims until &lt; 5/8" at both locations.</li> <li>c. Check for plumb on top/bottom spacers. Add shims at top/bottom as required.</li> <li>d. Verify plumb, add shims at middle for uniform contact with 6' level.</li> </ol> </li> </ol>
Shim Strike Side	<ol style="list-style-type: none"> <li>8. Add layers of 1/8" and/or 1/4" spacers/shims to strike side stud at top/bottom hinge locations until difference &lt; 3/8".</li> <li>9. Place level against spacers and install spacers/shims at middle hinge location until flush.</li> </ol>
Install Threshold Sill Pans	<ol style="list-style-type: none"> <li>10. Install Weathermate™ Straight Flashing Tape in the threshold, covering corners of the decking &amp; foamboard, and 2" up each side of Jack studs.</li> <li>11. Install sill pans in threshold in manner similar to that of windows.             <ol style="list-style-type: none"> <li>a. Run continuous bead of caulk on threshold and 3" up the sides. Apply 1/2" from outside edge of threshold.</li> <li>b. Run continuous bead of caulk on exterior surface 1/4" below edge, extended 6" up both sides 1/4" from edge.</li> <li>c. Install Threshold Seal tape snug to corners, flush to outside edge of threshold.</li> </ol> </li> </ol>
Temporarily Secure the Door	<ol style="list-style-type: none"> <li>12. Position door <u>tight</u> to foamboard and to hinge side stud.</li> <li>13. Using shims against the head <u>and threshold</u>, wedge door against hinge side with horizontal pressure.</li> <li>14. Check reveal between the top of door and head jamb at left &amp; right corners. Shim hinge or strike jamb as needed.</li> <li>15. Tack brickmold tight to foamboard w/4 16d galvanized finish nails, 2 on each side near top and bottom</li> </ol>
Permanently Secure the Door	<ol style="list-style-type: none"> <li>16. With brickmold <u>tight to foamboard</u>, secure hinge side jamb with 2 1/2" drywall screws at each hinge location, <u>behind weather stripping</u> and through shims. Recheck plumb (on hinges). Adjust shims as required.</li> <li>17. Replace <u>two</u> top hinge screws with #10 brass-colored construction screws. Adjust for door top reveal.</li> <li>18. Recheck <u>head jamb</u> reveals are equal at both ends. Adjust strike jamb up/down if needed.</li> <li>19. If door strikes strike-side jamb, loosen or remove temporary shims against head jamb and/or threshold.</li> <li>20. Check complete door operation. Verify             <ol style="list-style-type: none"> <li>a. Uniform contact w/weatherstripping along head and strike jambs. If necessary, move/shim brickmold away from foamboard (max 1/8")</li> <li>b. Confirm latch and strike alignment and all reveals. Adjust shims as required.</li> </ol> </li> <li>21. Check reveals at top and bottom of hinge jamb.             <ol style="list-style-type: none"> <li>a. Adjust/reinstall tight shims against the head jamb as required until top reveal equals reveal below top hinge.</li> <li>b. Shim bottom of jamb to match the reveal at the top, secure with 2 1/2" drywall screw behind weather stripping.</li> <li>c. Check reveal top of strike jamb (minimum 1/8"). Split difference as needed.</li> </ol> </li> <li>22. Check reveals at the top and bottom of the strike jamb. Shim the bottom of jamb until reveals are equal. Secure with 2 1/2" drywall screw behind the weatherstripping.</li> <li>23. Checking reveals, install &amp; screw remaining shims (behind weather-stripping) on strike side.</li> <li>24. Install &amp; screw remaining shims (behind weather-stripping) at center of head jamb, adjust for consistent reveal.</li> <li>25. Recheck complete door operation, contact with weather-stripping and reveals at top and both sides are consistent. Adjust as required.</li> <li>26. Install and secure additional shims between hinge locations to obtain consistent reveals along both side jambs (total 5 each side plus one extra set above the deadbolt).</li> <li>27. At all shim locations, nail exterior side of jamb into jack stud about 1 1/2'-2' from outside edge of each jamb (between doorstop and brickmold) w/16d galvanized casing nails.</li> <li>28. Nail brickmold in 13 predrilled holes with 16d galvanized casing nails.</li> <li>29. Conduct final door operation—contact with weatherstripping and reveals. Adjust if needed.</li> <li>30. Set and caulk all nail holes.</li> </ol>

# Quality Points

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- Brick mold is tight to foam on both sides
- Weathermate™ Straight Flashing Tape properly installed
- Sill caulked and sill pan and sill seal installed.
- Door opens and closes freely and latches easily and snugly to striker plates
- Door hits weather stripping evenly and no gaps or light show thru door reveals (including installation of “corner seal pads” at bottom of side jambs on weather strip side)
- Door latches and deadbolts are easy to engage and disengage
- Special “security” strike plate is installed for deadbolt with long screws provided
- Long screw(s) installed in top hinge
- Uniform reveal at top and sides (especially near lockset or deadbolt)
- Flashing tape is properly installed (shingle style and top flashing tape completely overlaps side flashing tape)
- Threshold support and vinyl toe kick is properly installed
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- All nails set and puttied/caulked (cedar board nails NOT caulked)
- All door trim screw hole plugs installed
- Brick mold is nailed properly (using 16d galvanized casing nails, 5 on each side and 1 in the center of top being sure to hit jack studs or header)
- Oak threshold is protected with plastic threshold protector