

Leveling the Sill Window and Door Supplemental Instruction



NOTE: This instruction shows one way to correct an out of level or an uneven sill. Make sure any components you use are compatible with your window or door product. The sill shims used in this instruction are not intended to take the place of a proper sill pan where specified. The illustrations shown within are of a door opening but are relevant for window rough openings as well. To meet published performance standards, ease of installation and optimum product operation, a flat and level surface across the entire span is required. (within 1/16" (1.5 mm))

Tools and Supplies Required

- Speed square
- Self-leveling horizontal and vertical laser
- Level (appropriate length for the opening)
- 5 1/2" (139 mm) wide strips of adhesive-backed sill shim*

*Marvin recommends the use of WinterGuard™ or similar as the adhesive backed

Inspect the Opening

For detailed weather barrier or building paper installation procedures see the online RO (Rough Opening) prep instructions. Inspect the opening to ensure that it has been properly sized for your unit. If not, make the necessary repairs and adjustments. Thoroughly clean the sill plate of dust and debris.

Determining High Point of Sill Plate

1. Place a self-leveling laser so that the horizontal beam is 1 – 3 inches (25-76 mm) above the RO sill plate. Place a speed square in the center of the opening and make a pencil mark on the laser beam. Run the square along the sill plate to find the high point. See figure 1a, b and c.

NOTE: Sill plates with a variance more than 1/16" (1.5 mm) should be leveled prior to proceeding with installation.

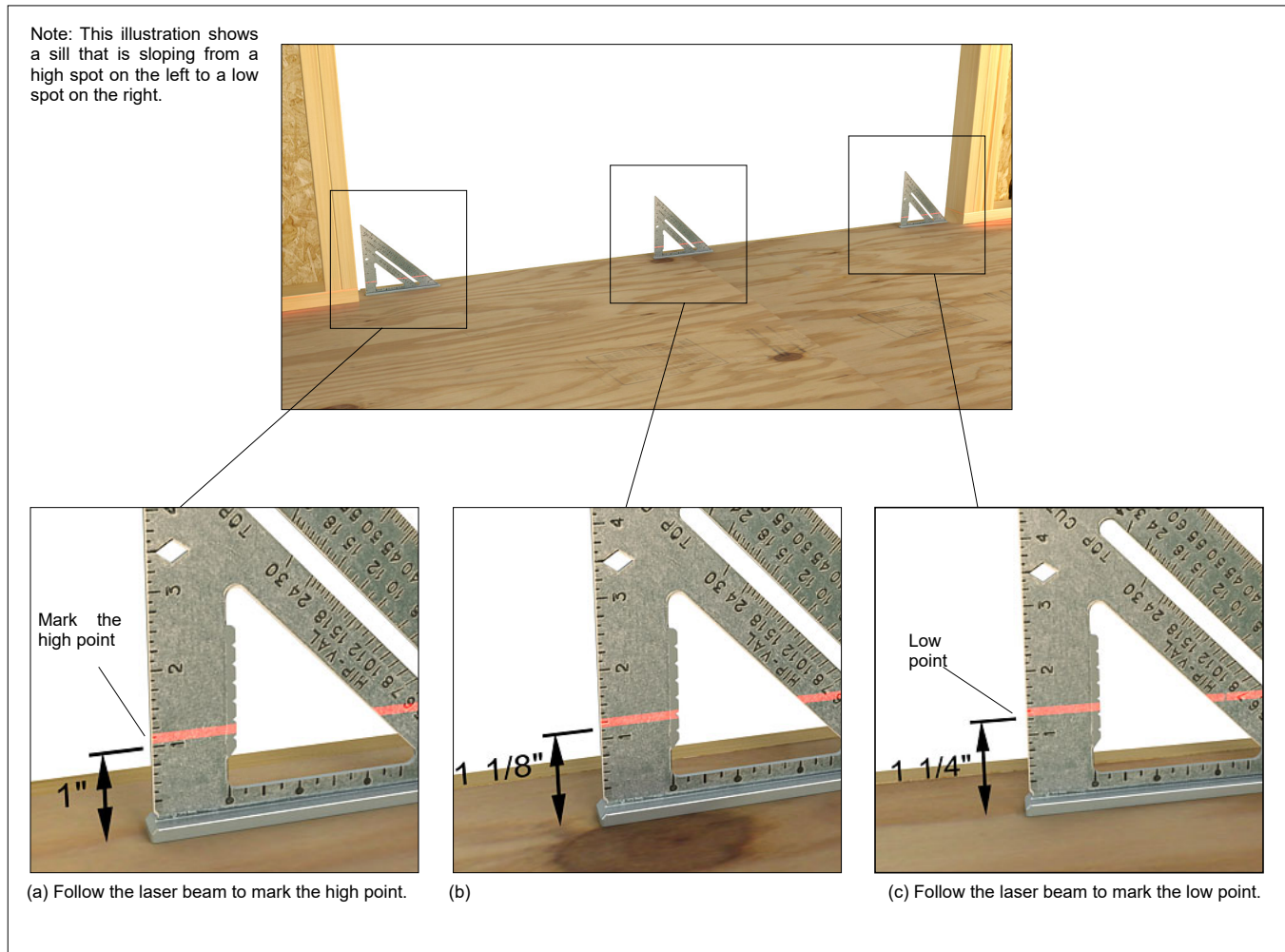


Figure 1 Use a speed square and laser to determine the sill's high/low point. Door RO shown but steps apply to window RO as well.

Level the Sill

1. Place the sill shim* at the low point and move the speed square until level with high point of the sill. Cut and remove backing and secure sill shim to the sill plate. See figure 2a.
2. Place successive strips of sill shim on the sill until level. See figure 2b and figure 2c.
3. Where specified install pan flashing per manufacturer's instructions.
4. Dry fit the door/window to ensure proper fit. (1/4"-1/2" (6-13 mm) space between the RO and unit frame.) Use a 6 foot level to confirm the sill is within 1/16" (1.5 mm) of level across the entire span. See figure 2d and figure 2e.

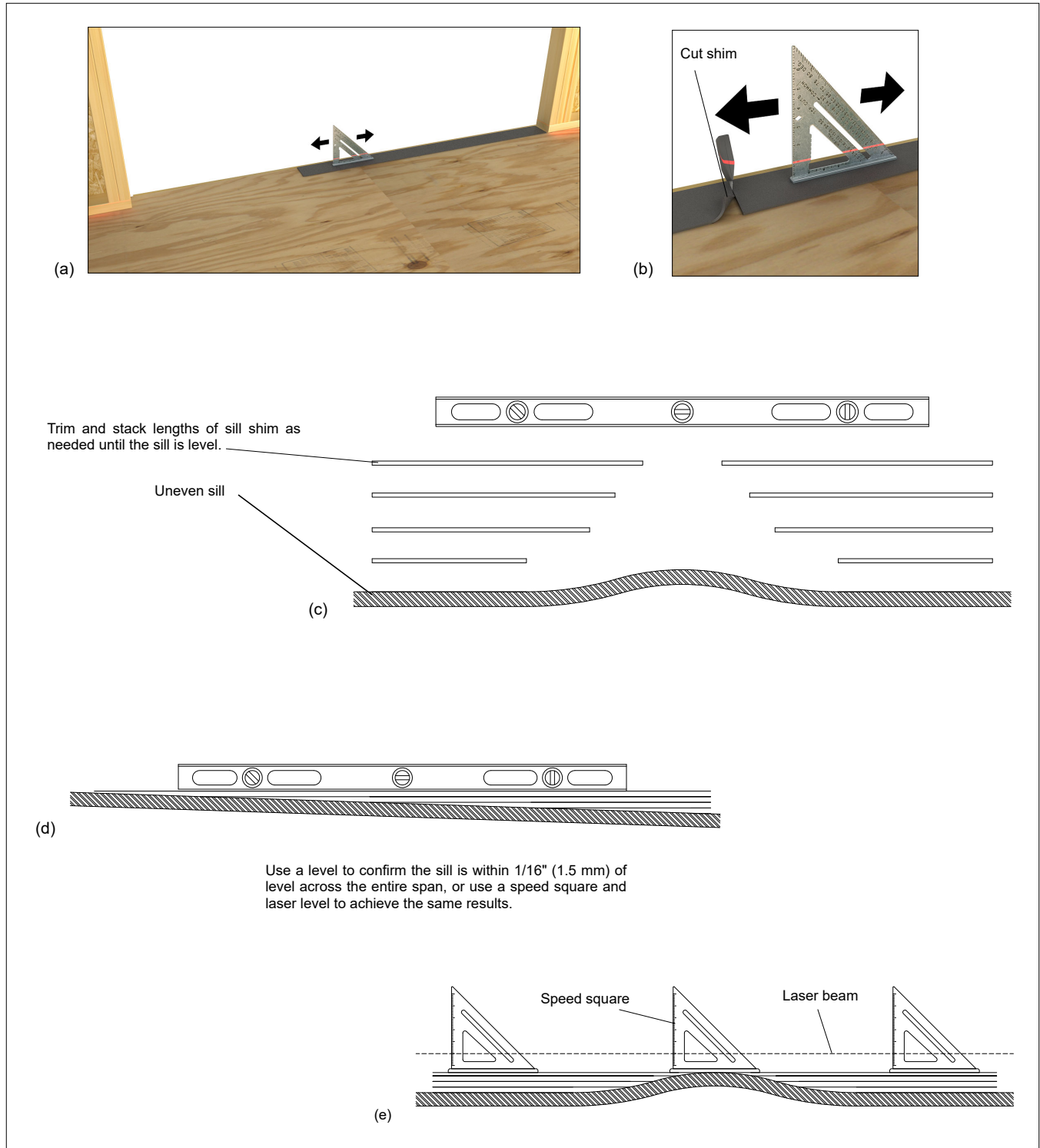


Figure 2 Door RO shown but steps apply to window RO as well.