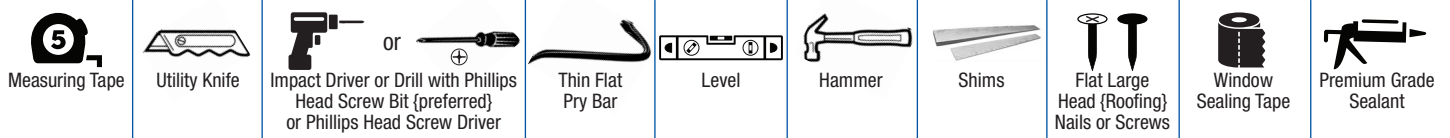
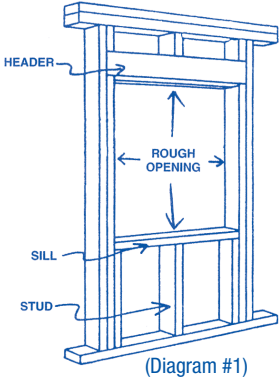


Tools and Supplies Required: {These items are not included with the window.}

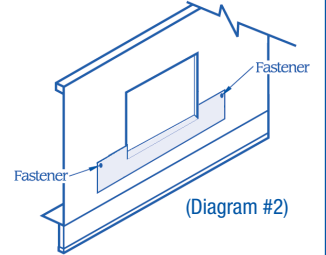


In certain installation conditions you may require OSHA approved ladders, lifts or scaffolding to reach an opening. All safety procedures for these apparatus and any required fall protection devices required while using them should be used according to the manufacturer's specifications. Installation is best achieved with 2 people, one on the inside and one on the outside.



**1.** Using a tape measure verify the rough opening is 1/2" wider and 1/2" taller than the frame size. (Diagram #1) The nailing flange and any add on accessories like brickmold or j-channel should not be considered when verifying the frame size. Using a level, check that the rough opening is level and plumb.

**2.** Install window tape at the sill. Cut a section of the tape equal to the width of the rough opening plus at least 12". Remove the backing paper, center and install across the sill. Make two cuts so the top half extends into the rough opening and the other half is bonded to the sheathing. (Diagram #2) If the sill was level place a 1/4" thick piece of wood shim on the sill near the corners of the frame. Set the window frame into the rough opening and (Diagram #3 or #4) **A** from the outside letting it rest on the shims you placed on the sill.



**3.** Next have the inside installer level the jambs and center the unit in the opening width and shim in place. (Diagram #3 or #4) **B** The outside installer should then place one nail in each of the top corner fins. In the case of a casement or awning unit additional nails should be tacked in at the bottom two corners as well. Recheck the unit to make sure it is level and plumb. Operate the window to make sure nothing is hindering the operation and inspect the window to make sure that the frame is not spread out.

**4.** For a **casement or awning** window shim below the operator **C** and nail the bottom fin in approximately every other nail hole all the way across starting with a nail as close to center of the operator as possible. For a **double hung or slider** shim the center of the sill **D** to level and nail the bottom fin in approximately every other nail hole all the way across starting with a nail as close to center of the window as possible.

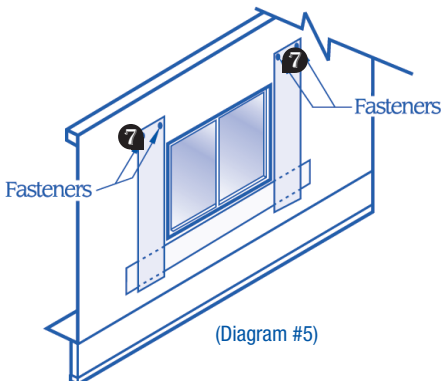
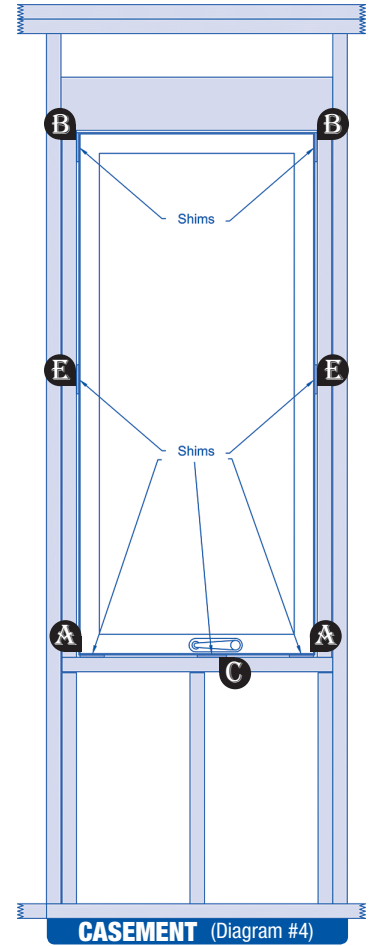
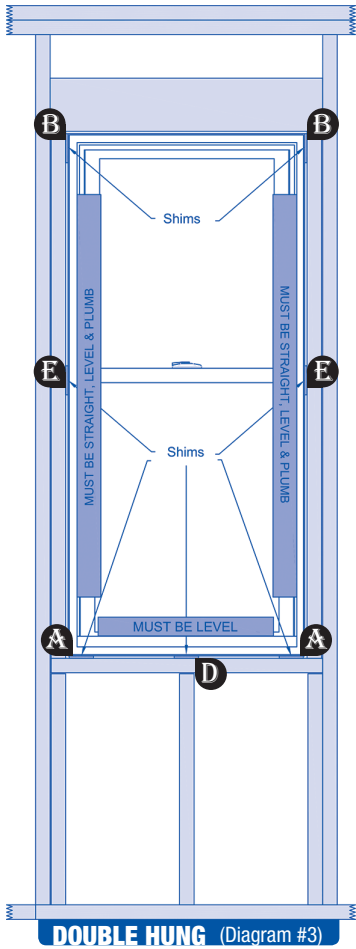
Operate the window to make sure nothing is hindering the operation and inspect the window to make sure that the frame is not spread out.

**5.** For a **double hung, casement or slider** shim the center point of the jamb **E** and install a nail in the closest nail hole to center on each side. Operate the window again to make sure the operation is smooth. Visually inspect all seals to make sure there are no obvious gaps between the sash and frames.

**6.** Finish nailing all the way around the frame in every other nail hole and check the operation one last time.

**7.** Install vertical sections of window tape over the jamb nail fins and to the sheathing. (Diagram #5) Section should overlap the sill section at the bottom and extend 3" above rough opening at top.

**8.** Install window tape to the head flange and sheathing. (Diagram #6) Head section should extend beyond jamb sections on either side. Jamb sections should not extend above head section.



**Note:** Generally no additional tape or sealants are required. When an unusual condition interferes with smooth installation, use a bead of premium exterior-grade caulk at the edge to fill any voids.

