

The best designed and most carefully made frame and door, if improperly installed, will not function properly. Additionally, acoustical products require careful and exact adjustment of perimeter seals to obtain maximum performance. Seals are not factory adjusted, so they must be fully and correctly adjusted after doors are hung and hardware installed.

Installation is generally done by qualified journeyman of the carpenter or iron works trades. It is essential that materials be carefully handled by experienced craftsman in the setting of frames and the hanging of doors. Remember, the final adjustment of the acoustical seals is critical to obtain the required performance level of the installed product.

FRAME CONDITION

OUT OF SQUARE

Head and Jambs not 90° to one another.

Toe Out: Opening wider at sill than at head causing door to hit top of lock jamb.

Solution: Use steel shims (3/8" x hinge length) to move door and/or hinge barrel in the proper direction to obtain the desired clearances

Toe In: Opening narrower at sill than head causing door to hit bottom of lock jamb and/or head.

Solution: Same procedure as used to correct Toe Out.

Note: Shims at stop side of hinge reinforcement will move the door towards the hinge jamb. Shims at the hinge barrel side of hinge reinforcement will move the door towards the lock jamb.

OUT OF PLUMB

Jambs are not perfectly straight vertically. Door will not lay flat against stops. In the case of pairs, doors will not be flush with one another at the meeting stiles.

Solution: 1) Measure distance of "offset". 2) Minor offsets can be corrected by racking door (applying load) with a block of wood. 3) Major offsets may require cutting the top channel in the door, "racking" the door to conform to the error in the frame, and rewelding the top channel.

TWIST

Jambs rotated out of parallel to one another and are not perpendicular to plane of wall. Check by measuring for equal distance between both rabbets of jambs, and checking the squareness of jambs to plane of wall.

Solution: Reinstall frame. Less severe cases could possibly be corrected by trying to rack door.

ALIGNMENT

Face of jambs are not in the same parallel plane. Check by cross stringing jamb opening. If strings do not touch at point of intersection, jambs are not in plane, and the door will not seal properly against frame stops.

Solution: Rack door or reinstall frame.