

Technical Bulletin – Warp

Seasonal changes can make doors move

Relative humidity needs to be maintained between 25% and 55%

Warp refers to a distortion in the door itself, not its relationship to the frame

Warp claims may be deferred for up to one year per industry standards

Seasonal changes such as spring and winter have the capacity to make doors move in their opening. This age old dilemma has very little, if anything, to do with door construction. Rather, temperature and humidity changes in the building impact the door and cause it to move. The introduction of structural composite lumber into door construction technology has certainly minimized warp issues; the fact remains that wood is a natural product that reacts to extreme changes in temperature and humidity.

According to the Window and Door Manufacturers Association (WDMA) and the Architectural Woodwork Institute (AWI) doors need to be hung in buildings where the relative humidity remains between 25% and 55%. Oshkosh Door Company recommends that doors not be delivered to jobsites until all paint, cement and plaster is dry.

Based upon WDMA and AWI standards, warp claims may be deferred by Oshkosh Door Company for a period not to exceed one year, with the express purpose of allowing the door to fully acclimate itself to the surroundings it will hang in. After this one year period, if the warp condition still exists, Oshkosh Door Company will replace the claimed product (see warranty for details).

Warp Definition

AWI defines warp as "...any distortion in the door itself and not its relationship to the frame or jamb in which it is to be hung, measured by placing a straight edge or a taut string on the concave face." *AWI, Architectural Woodwork Standards – 1st edition, October 1, 2009.*

A frame that is not installed square and plumb can lead to the appearance of the door being warped.

If you have any questions, please do not hesitate to contact your inside sales representative.

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