

## Installation:

- 1 The utility or structural strength of the doors must not be impaired in fitting to the opening, in applying hardware or in preparing for lites, louvers or plant-ons or other detailing.
- 2 Use a minimum of one hinge for each 30" of door height on all solid core doors. When using three or more hinges, they are to be equally spaced.
- 3 Clearances are maximum 1/8" at top, at hinge and at lock stiles. Refer to NFPA 80, latest edition, for bottom clearances. All hardware locations, preparations for hardware, and methods of hardware attachment must be appropriate for the specific door construction. Templates for specific hardware preparation are available from hardware manufacturers, WDMA, or DHI.



## Field Fitting Doors:

For best results, doors should be ordered prefit and premachined from the factory. However, in instances where doors need to be field fit, please follow these guidelines:



**Non-Rated Doors** – A minimum 3/4" rail material should be left indoors. Doors may be ordered with wider rails for adjustments on the jobsite. Seal any and all field-cut edges.

**Fire-Rated Doors** – These doors may be trimmed slightly at the bottom rail. Most required machining must be performed by VT or a licensed machiner of VT fire-rated doors. Refer to NFPA 80, latest edition, for more specific information regarding jobsite preparation of fire-rated doors.

**Surface-Applied Hardware** – Special blocking is recommended for use with surface-applied hardware if through-bolts aren't utilized. In cases where no through-bolting is allowed, hardware should be installed with wood screws, and pilot holes must be drilled prior to installation. DO NOT use self-tapping or combination wood/metal screws.

## Door Tolerances:

**Show-Through (Telegraphing)** – Considered a defect when the face of the door varies from a true plane in excess of 0.010" in any 3" span. Glossy laminates or finishes should be avoided because they tend to accentuate natural telegraphing.

**Warp** – Any distortion in the door itself; not measured in relation to the frame in which it is hung. Warp is measured by placing a straight edge or a taut string on the concave face and determining the maximum distance from straight edge or string to door face. For more information regarding door tolerances, refer to the VT Standard Door Warranty.

## General Maintenance:

- 1 Ensure that doors continue to swing freely, do not bind in the frame and that all hardware remains functional.
- 2 Using wedges to hold open doors may result in damage to the door face. More importantly, wedging fire doors open is a life safety issue and a code violation. Damage caused by the use of wedges is not covered under VT's warranty, and VT is not responsible for the illegal use of wedges or other items to hold open fire doors.