

Stripped Hinge Screw Repairs

When fire door testing changed from neutral pressure to positive pressure door constructions underwent a corresponding change. The most significant of these involved the replacement of some of the lumber components in stiles and rails to high-density inorganic, non-combustible materials.

This change from lumber based to non-combustible stile materials resulted in a corresponding change in the installation of hardware. Specifically, the material's critical requirements of appropriately sizing pilot holes for screws as well as the torque applied to tighten them. Forte™ Opening Solutions has developed the following procedure to help avoid problems with screw attachment in non-combustible door components and provide remedies where problems already do occur.

If a door must be removed from an opening after the hinges are attached avoid removing the hinge screws from the door edge. Instead, remove the hinge pins or remove the screws from the frame.

FIRE RATED DOORS

In situations where the hinge screws must be removed from a non-combustible (fire rated) door stile after the hinges have been attached the following procedure is recommended.

Remove the load from the hinge screws before removing them from the door. The preferred method would be to remove the door from the opening by removing the hinge pins or removing the hinge screws from the frame. If an alternate method such as shimming between the door and sill care must be used to avoid causing additional damage to the screw holes.

Remove the screws from the door edge