



Door Construction Detail



Rugged Construction

Steel face sheets will be 24-gauge, galvanealed steel processed for superior flatness and enhanced

corrosion resistance. The door edges will be mechanically overlapped and adhered with a hot-melt glue applied to the full height on both sides of door, as well as a foamed-in-place with a polyurethane core. The door will be securely stiffened with integrally-formed top and bottom steel rails.

Insulated

Doors will be foamed-in-place, stiffened and structurally reinforced with environmentally friendly polyurethane at a density of 2 lbs/ft³. The insulating value of the core will be R-11.

Hinge Prep

Doors will have 4" hinge preps; machined and reinforced for secure anchoring of hinges as follows:

- Heavy gauge extruded plates tapped to receive machine screws.
- Screw-applied bottom sweep that allows for field adjustment for enhanced water and air infiltration resistance.

Paint Finish

Doors will come with a factory prime finish for added rust inhibition. Primed surface will be suitable for maximum adhesion of finish top coat.

Advanced Lock Reinforcing

Latching and deadbolt hardware is supported with advanced injection-molded composite lock reinforcement with superior screw-holding power. This design avoids the problem of "telegraphing" of the lock reinforcement that typically occurs with wood lock blocks when the door is painted with high gloss paint. Advanced Lock Reinforcing also allows for uniform foam flow for a flatter door face at lock area.

Lock Machining

Lock preparations include 2¹/₈" face bores at both 2³/₄" and 2³/₈" backsets. Edge preps for cylindrical preps will feature 1¹/₈" x 2¹/₄" dimensions to accommodate both commercial and residential hardware. Mortise lock preps available for card reader and other commercial applications with 90-minute fire-ratings.



Security

Therma-Tru now offers added security with new impact rated products, including opaque fiberglass impact rated doors and new impact rated glass that is available with our new lip-lite frame featuring our patented screwless snap on cover. Therma-Tru impact rated products help provide added safety and security against burglary and forced entry.

Fire Rating

All of our fire-rated steel doors offer additional security and 90-minute positive pressure fire-rating third party certified by Warnock Hersey.