

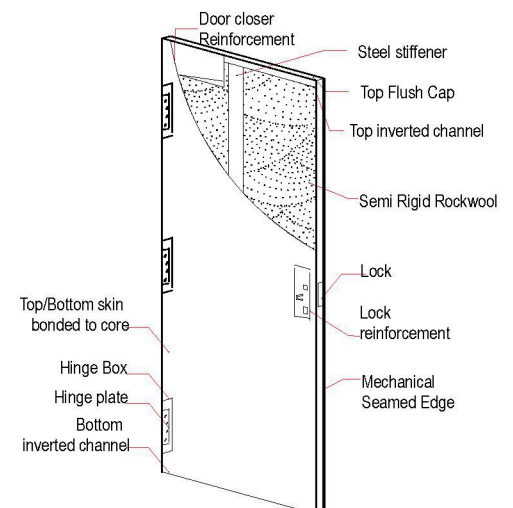
FORT® Stiffened Doors

FORT® stiffened door has vertical steel-stiffeners throughout the height of the door. The stiffeners can be of Z-section, U-Channel, Offset-channel or Hat Sections welded to each skin of the door. Steel-stiffened core is the most reliable and durable construction.

Steel Stiffened doors are used for exterior doors, where rigidity is important. They are available in varying degrees of strength and quality. The thickness of the stiffeners can vary, the majority is made of 20 gauge steel. Heavier gauges can be used, particularly on security doors. The stiffeners are welded to each other at the top and bottom, and to the inside door skins. The cavities between two stiffeners can be filled with polystyrene or any insulating material. Lower gloss paint should be selected when finishing the door to reduce any welding marks that may be visible. Door edges are mechanically interlocked the full height of the door. Top & bottom inverted channels provide stability and protection. Beveled hinge and lock edges allow for tighter installation tolerances, to ensure easier operation and eliminate binding and sticking.

FORT® Stiffened construction is in compliance with SDI-100 standards (ANSI A250.8-1998). Hardware preparation, reinforcement and locations are in accordance with ANSI A250.6-1997 and SDI 129-00. Rock-wool Insulated have integral high resistance to Impact damage. Calculated thermal conductivity factors and STC rating for Rock-wool Insulated doors are as follows.

*U-Factor: 2.20 *R-Factor: 0.45 *STC: 37



FORT® Stiffened Core door specification.

Construction	: FORT® Standard
Usage Class	: FORT® Usage class A & B (SDI Level I, II, III, IV)
Door thickness	: 44.5mm
Finish	: Factory Primed
Steel sheet thickness	: 18ga (1.2mm), 16ga (1.6mm), 14ga (2mm)
Core	: Steel Stiffeners with rockwool
Cutout for hinges	: As per Hardware requirements.
Cutout for locks	: As per Hardware requirements.
Astragal	: On one leaf of double doors.
Flush bolt cutout	: As per Hardware requirements.
Door Closer Reinforcement	: Provided on all doors and frames.
Top/Bottom channels	: Inverted U-Channel
Fire rating (As per UL10B/10C)	: 90 min for flush door & with Vision panel
Vision panel (Max. area)	: 100 Sq.Inch as per UL10B/10C