DAYBAR

INSULATING VALUES FOR STEEL DOORS

A. THERMAL INSULATION

DOOR CORE	U-FACTOR	R-VALUE	<u>(RSI)</u>
Polyurethane	0.09	11.1	(1.9)
Polystyrene	0.15	6.6	(1.1)
Temperature Rise Rated	0.30	3.25	(0.6)
Honeycomb	0.40	2.5	(0.4)
Steel-stiffened	0.85	1.2	(0.2)
(Fiberglass or anything else)			
(Solid core wood door)	(0.45)	(2.2)	(0.4)

The lower the U-factor, or the higher the R-value, the better the insulating properties of the door.

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B. ACOUSTICAL INSULATION

DOOR CORE	STC*RATING	
Polyurethane Polystyrene Honeycomb Steel-stiffened (Solid core wood door) Temperature rise	34 } Estimate only 34 } Estimate only 32 } (not certified) 24 } (26) } 34-35 >	

*STC = Sound Transmission Class.

The higher the STC rating, the better the sound-deadening characteristics of the door.