Energy Performance Ratings - Steel Door with Steel Edge

The performance ratings below were developed by an independent test facility using applicable NFRC procedures for determing whole product performance. The ratings are determined for a fixed set of conditions and specs. This data was developed using simulations with generic doors for reference. The ratings of participating door manufacturers can be found at nfrc.org.

polyurethane core

		Doorglass Size				
		no glass	1/4 glass	1/2 glass	3/4 glass	full glass
1/2"clear glass	U-factor	0.21	0.23	0.34	0.39	0.43
	SHGC	0.01	0.04	0.20	0.28	0.34
	VT	0.00	0.03	0.20	0.28	0.35
1/2" clear glass	U-factor		0.23	0.31	0.36	0.39
Low E2	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
1" clear glass	U-factor		0.23	0.32	0.37	0.41
	SHGC		0.04	0.20	0.28	0.35
	VT		0.03	0.20	0.28	0.35
1" clear Low E2	U-factor		0.23	0.30	0.33	0.36
	SHGC		0.04	0.17	0.23	0.29
	VT		0.03	0.18	0.26	0.32
Decorative glass	U-factor		0.23	0.29	0.32	0.34
triple pane design	SHGC		0.04	0.18	0.25	0.30
	VT		varies	varies	varies	varies
Doorglass blind	U-factor		na	0.31	0.35	0.38
slats closed/raised	SHGC		na	0.05-0.18	0.07-0.25	0.08-0.30
	VT		na			
Low E Doorglass blind	U-factor		na			
slats closed/raised	SHGC		na			
	VT		na			
Low E Internal Muntin	U-factor		na	0.27	na	0.31
Doorglass blind	SHGC		na	0.05-0.15	na	0.08-0.26
slats closed/raised	VT		na	0.17	na	0.29
Severe Weather Clear	U-factor		na	0.32	na	0.40
	SHGC		na	0.18	na	0.31
	VT		na	0.19	na	0.34
Severe Weather Clear	U-factor		na	0.31	na	0.38
Low E2	SHGC		na	0.15	na	0.26
	VT					

polystyrene core

		Doorglass Size				
		no glass	1/4 glass	1/2 glass	3/4 glass	full glass
1/2"clear glass	U-factor	0.22	0.25	0.35	0.40	0.44
	SHGC	0.01	0.04	0.20	0.28	0.34
	VT	0.00	0.03	0.20	0.28	0.35
1/2" clear glass	U-factor		0.24	0.33	0.37	0.40
Low E2	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
1" clear glass	U-factor		0.25	0.33	0.38	0.41
	SHGC		0.04	0.20	0.28	0.35
	VT		0.03	0.20	0.28	0.35
1" clear Low E2	U-factor		0.24	0.31	0.34	0.37
	SHGC		0.04	0.17	0.23	0.29
	VT		0.03	0.18	0.26	0.32
Decorative glass	U-factor		0.24	0.30	0.33	0.35
triple pane design	SHGC		0.04	0.18	0.25	0.30
	VT		varies	varies	varies	varies
Doorglass blind	U-factor		na	0.32	0.36	0.39
slats closed/raised	SHGC		na	0.05-0.18	0.07-0.25	0.08-0.30
	VT		na			
Low E Doorglass blind	U-factor		na			
slats closed/raised	SHGC		na			
	VT		na			
Low E Internal Muntin	U-factor		na	0.28	na	0.31
Doorglass blind	SHGC		na	0.05-0.15	na	0.08-0.26
slats closed/raised	VT		na	0.17	na	0.29
Severe Weather Clear	U-factor		na	0.33	na	0.41
	SHGC		na	0.18	na	0.31
	VT		na	0.19	na	0.34
Severe Weather Clear	U-factor		na	0.32	na	0.39
Low E2	SHGC		na	0.15	na	0.26
	VT					

Doorglass Blinds SHGC varies with slat position

U-Factor: Defines the amount of heat loss. The lower the value the less heat is transmitted through the entry door.
Solar Heat Gain Coefficient (SHGC): The portion of directly transmitted and absorbed solar energy that enters the interior. The lower the value, the less heat is transmitted through the entry.
Visible Transmittance (VT): Measures how much light comes through the entry. The higher the value, from 0 to 1, the more daylight is let in over the unit area of the entry.