

Energy Performance Ratings -Fiberglass Door

The performance ratings below were developed by an independent test facility using applicable NFRC procedures for determining 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 nfrf.org.

polyurethane core

		Doorglass Size				
		no glass	1/4 glass	1/2 glass	3/4 glass	full glass
1/2"clear glass	U-factor	0.18	0.20	0.31	0.36	0.40
	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 Low E2	U-factor		0.20	0.28	0.33	0.36
	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
1" clear glass	U-factor		0.20	0.29	0.34	0.37
	SHGC		0.04	0.20	0.28	0.34
	VT		0.03	0.20	0.28	0.35
1" clear Low E2	U-factor		0.20	0.27	0.30	0.33
	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
Decorative glass triple pane design	U-factor		0.20	0.26	0.29	0.31
	SHGC		0.04	0.18	0.25	0.30
	VT		varies	varies	varies	varies
Doorglass blind slats closed/raised	U-factor		na	0.28	0.33	0.36
	SHGC		na	0.05-0.18	0.07-0.25	0.08-0.30
	VT		na			
Low E Doorglass blind slats closed/raised	U-factor		na	0.26	0.29	0.31
	SHGC		na	0.05-0.11	0.06-0.15	0.08-0.18
	VT		na			
Low E Internal Muntin Doorglass blind slats closed/raised	U-factor		na	0.23	na	0.27
	SHGC		na	0.05-0.15	na	0.08-0.26
	VT		na	0.17	na	0.29
Severe Weather Clear	U-factor		na	0.29	na	0.37
	SHGC		na	0.18	na	0.31
	VT		na	0.19	na	0.34
Severe Weather Clear Low E2	U-factor		na	0.28	na	0.35
	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	0.21	0.24	0.33	0.38	0.41
	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 Low E2	U-factor		0.23	0.31	0.35	0.37
	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
1" clear glass	U-factor		0.24	0.32	0.36	0.39
	SHGC		0.04	0.20	0.28	0.34
	VT		0.03	0.20	0.28	0.35
1" clear Low E2	U-factor		0.23	0.29	0.32	0.34
	SHGC		0.04	0.17	0.24	0.29
	VT		0.03	0.18	0.26	0.32
Decorative glass triple pane design	U-factor		0.23	0.28	0.30	0.32
	SHGC		0.04	0.18	0.25	0.30
	VT		varies	varies	varies	varies
Doorglass blind slats closed/raised	U-factor		na	0.31	0.35	0.38
	SHGC		na	0.05-0.18	0.07-0.25	0.08-0.30
	VT		na			
Low E Doorglass blind slats closed/raised	U-factor		na	0.28	0.30	0.32
	SHGC		na	0.05-0.11	0.06-0.15	0.08-0.18
	VT		na			
Low E Internal Muntin Doorglass blind slats closed/raised	U-factor		na	0.25	na	0.28
	SHGC		na	0.05-0.15	na	0.08-0.26
	VT		na	0.17	na	0.29
Severe Weather Clear	U-factor		na	0.31	na	0.38
	SHGC		na	0.18	na	0.31
	VT		na	0.19	na	0.34
Severe Weather Clear Low E2	U-factor		na	0.30	na	0.36
	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.