



NFRC CERTIFIED ~ U-FACTOR / SHGC / VT ~ PRODUCTLINE MATRIX

U-Factor: Thermal Transmittance through the specimen / SHGC: Solar Heat Gain Coefficient / VT: Visible Transmittance

1/4 GLASS OVER PANEL INSWING DOOR

Full Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.44	0.11	0.1
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.41	0.1	0.09
2.25	N/A	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.37	0.1	0.09
2.25	N/A	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Clear	0.35	0.09	0.08
2.25	N/A	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.36	0.11	0.1
1.75	N/A	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.49	0.11	0.1
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.36	0.1	0.09
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.35	0.09	0.08
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.34	0.09	0.08

1/2 GLASS OVER PANEL INSWING DOOR

Full Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.44	0.2	0.2
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.41	0.19	0.18
2.25	N/A	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.4	0.18	0.19
2.25	N/A	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.36	0.17	0.17
2.25	N/A	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.39	0.2	0.2
1.75	N/A	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.57	0.21	0.21
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.39	0.18	0.19
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.36	0.16	0.17
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.35	0.16	0.17

3/4 GLASS OVER PANEL INSWING DOOR

Full Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.45	0.27	0.27
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.42	0.25	0.25
2.25	N/A	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.41	0.24	0.25
2.25	N/A	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.36	0.23	0.24
2.25	N/A	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.4	0.27	0.27
1.75	N/A	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.61	0.28	0.29
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.4	0.24	0.25
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.37	0.22	0.23
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.35	0.22	0.23

3-Lite

Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.46	0.2	0.19
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.43	0.18	0.17
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.61	0.2	0.2

4-Lite

Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.47	0.2	0.19
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.44	0.18	0.17
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.61	0.2	0.2

6-Lite

Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.46	0.23	0.23
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.47	0.2	0.19
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.42	0.22	0.21
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.44	0.18	0.17
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.42	0.21	0.21
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.37	0.19	0.2
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.4	0.27	0.27
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.61	0.2	0.2
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.41	0.21	0.21
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.37	0.18	0.2
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.36	0.18	0.2

9-Lite

Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.46	0.23	0.23
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.47	0.2	0.19
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.43	0.22	0.21
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.45	0.18	0.17
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.42	0.21	0.21
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.37	0.19	0.2
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.4	0.27	0.27
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.6	0.2	0.2
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.41	0.21	0.21
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.37	0.18	0.2
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.36	0.18	0.2

7/8 GLASS OVER PANEL INSWING DOOR (Small Panel)

Full Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.47	0.34	0.33
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.43	0.31	0.31
2.25	N/A	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.43	0.3	0.32
2.25	N/A	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.37	0.28	0.29
2.25	N/A	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.41	0.34	0.33
1.75	N/A	0.25	Monolithic	N/A	N/A	Tempered	Clear	0.66	0.34	0.36
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.42	0.3	0.31
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.38	0.26	0.29
2.25	N/A	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.36	0.26	0.29
12-Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.48	0.29	0.28
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.49	0.24	0.23
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.44	0.27	0.26
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.46	0.23	0.22
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.44	0.25	0.27
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.38	0.24	0.25
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.41	0.34	0.33
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.64	0.25	0.25
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.42	0.25	0.26
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.38	0.23	0.25
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.36	0.23	0.25
15-Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.48	0.29	0.28
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.5	0.24	0.23
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.44	0.27	0.26
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.47	0.23	0.22
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.44	0.25	0.27
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.38	0.24	0.25
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.41	0.34	0.33
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.64	0.25	0.25
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Clear	0.42	0.25	0.26
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Air	Impact	Low E	0.38	0.23	0.25
2.25	SDL	0.8125	Insulated	.1875/.3125/.3125	Argon	Impact	Low E	0.36	0.23	0.25

FULL GLASS INSWING DOOR

Full Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.48	0.43	0.44
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.43	0.4	0.41
2.25	N/A	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.47	0.38	0.41
2.25	N/A	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.39	0.36	0.38
2.25	N/A	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.45	0.44	0.44
1.75	N/A	0.25	Monolithic	N/A	N/A	Tempered	Clear	0.71	0.44	0.47
2.25	N/A	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Clear	0.46	0.38	0.41
2.25	N/A	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Low E	0.4	0.34	0.38
2.25	N/A	0.8125	Insulated (Impact)	.1875/.3125/.3125	Argon	Temp/Lami	Low E	0.38	0.34	0.38
5-lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.5	0.32	0.31
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.45	0.3	0.29
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.7	0.32	0.33
6-Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.5	0.32	0.31
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.46	0.3	0.29
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.7	0.32	0.33
15-lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.5	0.37	0.37
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.52	0.32	0.31
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.44	0.35	0.35
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.48	0.3	0.29
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.49	0.33	0.33
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Low E	0.41	0.31	0.33
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.45	0.37	0.37
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.69	0.32	0.33
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Clear	0.47	0.33	0.35
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Low E	0.42	0.29	0.32
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Argon	Temp/Lami	Low E	0.39	0.29	0.32
18-Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	U-Factor:	SHGC:	VT:
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.5	0.37	0.37
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.52	0.32	0.31
1.75	SDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.45	0.35	0.35
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.48	0.3	0.29
2.25	SDL	0.75	Insulated	.25/.25/.25	Air	Tempered	Clear	0.49	0.33	0.35
2.25	SDL	0.75	Insulated	.1875/.375/.1875	Argon	Tempered	Clear	0.41	0.31	0.33
2.25	SDL	0.75	Insulated	.125/.5/.125	Air	Tempered	Clear	0.45	0.37	0.37
1.75	TDL	0.25	Monolithic	N/A	N/A	Laminated	Clear	0.69	0.32	0.33
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Clear	0.47	0.33	0.35
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Air	Temp/Lami	Low E	0.42	0.29	0.32
2.25	SDL	0.8125	Insulated (Impact)	.1875/.3125/.3125	Argon	Temp/Lami	Low E	0.39	0.29	0.32

Full Lite With Storm Door (These are calculated but not certified)

Door Thickness:										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	Storm Glass Thickness:	Storm Glass Treatment:	U-Factor:
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.125	Low E	0.24
1.75	N/A	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.125	Low E	0.23
1.75	N/A	0.25	Monolithic	N/A	N/A	Tempered	Clear	0.125	Low E	0.28
15-Lite										
Door Thickness:	SDL or TDL:	Glass Thickness:	Mono or IG Glass:	IG Glass Make-up	Air Space fill:	Glass Type:	Glass Treatment:	Storm Glass Thickness:	Storm Glass Treatment:	U-Factor:
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Clear	0.125	Low E	0.25
1.75	TDL	0.5	Insulated	.125/.25/.125	Air	Tempered	Low E	0.125	Low E	0.24
1.75	TDL	0.25	Monolithic	N/A	N/A	Lami	Clear	0.125	Low E	0.28