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**Performance Values**  
**SERIES 458 - Swinging Door - Inswing**

Slab / Glass Type	LoE Type	LoE Surface	Gas Fill	Frame Type	Overall U-Value <i>(imperial)</i>	Overall U-Value <i>(metric)</i>	Heat Gain	Visible Light
<b>Opaque</b>								
Opaque	None	N/A	N/A	Insulated Fiberglass	0.18	1.02	0.01	0%
<b>Half Lite</b>								
Dual	Cardinal LoE-180	3	Argon	Insulated Fiberglass	0.23	1.31	0.16	18%
Dual	Cardinal LoE-272	3	Argon	Insulated Fiberglass	0.22	1.25	0.10	16%
Dual	Cardinal LoE-366	3	Argon	Insulated Fiberglass	0.22	1.25	0.07	14%
Triple 1 Coating	Cardinal LoE-180	5	Argon	Insulated Fiberglass	0.22	1.25	0.15	16%
Triple 1 Coating	Cardinal LoE-272	2	Argon	Insulated Fiberglass	0.21	1.19	0.10	15%
Triple 1 Coating	Cardinal LoE-366	2	Argon	Insulated Fiberglass	0.21	1.19	0.07	13%
Triple 2 Coatings	Cardinal LoE-180 / 180	2 and 5	Argon	Insulated Fiberglass	0.20	1.14	0.13	16%
Triple 2 Coatings	Cardinal LoE-272 / 180	2 and 5	Argon	Insulated Fiberglass	0.20	1.14	0.09	14%
Triple 2 Coatings	Cardinal LoE-272 / 272	2 and 5	Argon	Insulated Fiberglass	0.20	1.14	0.09	13%
Triple 2 Coatings	Cardinal LoE-366 / 180	2 and 5	Argon	Insulated Fiberglass	0.20	1.14	0.07	13%
Triple 2 Coatings	Cardinal LoE-366 / 366	2 and 5	Argon	Insulated Fiberglass	0.20	1.14	0.06	10%
						<i>Continued on pg. 2</i>		



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### *SERIES 458 - Swinging Door - Inswing*

Slab / Glass Type	LoE Type	LoE Surface	Gas Fill	Frame Type	Overall U-Value <i>(imperial)</i>	Overall U-Value <i>(metric)</i>	Heat Gain	Visible Light
<b>Full Lite</b>								
Dual	Cardinal LoE-180	3	Argon	Insulated Fiberglass	0.26	1.48	0.29	32%
Dual	Cardinal LoE-272	3	Argon	Insulated Fiberglass	0.25	1.42	0.18	29%
Dual	Cardinal LoE-366	3	Argon	Insulated Fiberglass	0.25	1.42	0.12	26%
Triple 1 Coating	Cardinal LoE-180	5	Argon	Insulated Fiberglass	0.24	1.36	0.26	29%
Triple 1 Coating	Cardinal LoE-272	2	Argon	Insulated Fiberglass	0.24	1.36	0.16	26%
Triple 1 Coating	Cardinal LoE-366	2	Argon	Insulated Fiberglass	0.23	1.31	0.11	24%
Triple 2 Coatings	Cardinal LoE-180 / 180	2 and 5	Argon	Insulated Fiberglass	0.22	1.25	0.23	28%
Triple 2 Coatings	Cardinal LoE-272 / 180	2 and 5	Argon	Insulated Fiberglass	0.22	1.25	0.16	25%
Triple 2 Coatings	Cardinal LoE-272 / 272	2 and 5	Argon	Insulated Fiberglass	0.21	1.19	0.15	23%
Triple 2 Coatings	Cardinal LoE-366 / 180	2 and 5	Argon	Insulated Fiberglass	0.21	1.19	0.11	23%
Triple 2 Coatings	Cardinal LoE-366 / 366	2 and 5	Argon	Insulated Fiberglass	0.21	1.19	0.11	19%

Information is gleaned from best available industry sources. The reader is cautioned that values should be used for comparison purposes only. Results are size and installation dependent. In-service performance can be significantly different from those shown. Product tested indicates design potential.

#### Notes

- (1) 2-Pane Cardinal IG unit calculations based on 2 lites of 1/8" (3 mm) glass and 1/2" (13 mm) airspace.
- (2) 3-Pane Cardinal IG unit calculations based on 3 lites of 1/8" (3 mm) glass and two 1/4" (8 mm) airspaces.
- (3) Simulations based on a standard flush glaze. Contact us for simulations in our custom flush glaze.
- (4) Calculations for argon filled unit made with 90% Argon/ 10% air.
- (5) NFRC Environmental Conditions used for all values.
- (6) Heat Gain or Solar Heat Gain Coefficient shown is an overall value.
- (7) Visible light transmittance shown shown is an overall value.