



45 Higgins Avenue  
 Winnipeg, MB R3B 0A8  
 Tel: 204.339.6456  
 Fax: 204.334.1800  
 www.duxtonwindows.com

## Thermal Performance

### SERIES 658 - Swinging Door - Inswing

Slab / Glass Type	LoE Type	LoE Surface	Gas Fill	Centre-of-Glass				Overall Door		Energy Star	
				R-Value	U-Value <i>(imperial)</i>	Heat Gain	Visible Light	U-Value <i>(imperial)</i>	U-Value <i>(metric)</i>	Energy Rating	Energy Star Efficiency
<b>Opaque</b>											
Opaque	None	N/A	N/A	-	-	0.01	0%	0.14	0.79	23	●
<b>Half Lite</b>											
Dual	Cardinal LoE-180	3	Argon	3.85	0.26	0.68	79%	0.23	1.31	-	○
Dual	Cardinal LoE-272	3	Argon	4.00	0.25	0.41	72%	0.23	1.31	-	○
Dual	Cardinal LoE-366	3	Argon	4.17	0.24	0.27	65%	0.22	1.25	-	○
Triple 1 Coating	Cardinal LoE-180	5	Argon	5.56	0.18	0.61	73%	0.20	1.14	23	●
Triple 1 Coating	Cardinal LoE-272	2	Argon	5.26	0.19	0.38	66%	0.20	1.14	20	●
Triple 1 Coating	Cardinal LoE-366	2	Argon	5.56	0.18	0.25	59%	0.20	1.14	18	●
Triple 2 Coatings	Cardinal LoE-180 / 180	2 and 5	Argon	7.69	0.13	0.56	70%	0.19	1.08	24	●
Triple 2 Coatings	Cardinal LoE-272 / 180	2 and 5	Argon	7.69	0.13	0.37	63%	0.19	1.08	21	●
Triple 2 Coatings	Cardinal LoE-272 / 272	2 and 5	Argon	7.69	0.13	0.35	58%	0.19	1.08	21	●
Triple 2 Coatings	Cardinal LoE-366 / 180	2 and 5	Argon	7.69	0.13	0.24	57%	0.19	1.08	20	●
Triple 2 Coatings	Cardinal LoE-366 / 366	2 and 5	Argon	8.33	0.12	0.24	47%	0.19	1.08	20	●



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				R-Value	U-Value <i>(imperial)</i>	Heat Gain	Visible Light	U-Value <i>(imperial)</i>	U-Value <i>(metric)</i>	Energy Rating	Energy Star Efficiency
<b>Full Lite - Flush Glaze</b>											
Dual	Cardinal LoE-180	3	Argon	3.85	0.26	0.68	79%	0.24	1.36	-	o
Dual	Cardinal LoE-272	3	Argon	4.00	0.25	0.41	72%	0.24	1.36	-	o
Dual	Cardinal LoE-366	3	Argon	4.17	0.24	0.27	65%	0.24	1.36	-	o
Triple 1 Coating	Cardinal LoE-180	5	Argon	5.56	0.18	0.61	73%	0.24	1.36	-	o
Triple 1 Coating	Cardinal LoE-272	2	Argon	5.26	0.19	0.38	66%	0.24	1.36	-	o
Triple 1 Coating	Cardinal LoE-366	2	Argon	5.56	0.18	0.25	59%	0.24	1.36	-	o
Triple 2 Coatings	Cardinal LoE-180 / 180	2 and 5	Argon	7.69	0.13	0.56	70%	0.22	1.25	-	o
Triple 2 Coatings	Cardinal LoE-272 / 180	2 and 5	Argon	7.69	0.13	0.37	63%	0.22	1.25	-	o
Triple 2 Coatings	Cardinal LoE-272 / 272	2 and 5	Argon	7.69	0.13	0.35	58%	0.22	1.25	-	o
Triple 2 Coatings	Cardinal LoE-366 / 180	2 and 5	Argon	7.69	0.13	0.24	57%	0.22	1.25	-	o
Triple 2 Coatings	Cardinal LoE-366 / 366	2 and 5	Argon	8.33	0.12	0.24	47%	0.22	1.25	-	o



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				R-Value	U-Value <i>(imperial)</i>	Heat Gain	Visible Light	U-Value <i>(imperial)</i>	U-Value <i>(metric)</i>	Energy Rating	Energy Star Efficiency
<b>Full Lite - Duxton Sandwich Frame</b>											
Triple 1 Coating	Cardinal LoE-180	5	Argon	5.56	0.18	0.61	73%	0.23	1.31	-	○
Triple 1 Coating	Cardinal LoE-272	2	Argon	5.26	0.19	0.38	66%	0.23	1.31	-	○
Triple 1 Coating	Cardinal LoE-366	2	Argon	5.56	0.18	0.25	59%	0.22	1.25	-	○
Triple 2 Coatings	Cardinal LoE-180 / 180	2 and 5	Argon	7.69	0.13	0.56	70%	0.20	1.14	29	●
Triple 2 Coatings	Cardinal LoE-272 / 180	2 and 5	Argon	7.69	0.13	0.37	63%	0.20	1.14	24	●
Triple 2 Coatings	Cardinal LoE-272 / 272	2 and 5	Argon	7.69	0.13	0.35	58%	0.20	1.14	24	●
Triple 2 Coatings	Cardinal LoE-366 / 180	2 and 5	Argon	7.69	0.13	0.24	57%	0.20	1.14	21	●
Triple 2 Coatings	Cardinal LoE-366 / 366	2 and 5	Argon	8.33	0.12	0.24	47%	0.20	1.14	21	●

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.



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				R-Value	U-Value <i>(imperial)</i>	Heat Gain	Visible Light	U-Value <i>(imperial)</i>	U-Value <i>(metric)</i>	Energy Rating	Energy Star Efficiency

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:
  - Half Lite / Full Lite Flush Glaze: 3 lites of 1/8" (3 mm) glass and two 1/4" (8 mm) airspaces.
  - Full Lite Duxton Sandwich Frame: 3 lites of 1/8" (3mm) glass and two 5/8" (16 mm) airspaces.
- (3) Calculations for argon filled unit made with 90% Argon/ 10% air.
- (4) NFRC Environmental Conditions used for all values.
- (5) Chart indicating Energy Star Canada efficiency designation:
  - ENERGY STAR
  - Not Applicable

*Note: Energy Star does not have a "Most Efficient" category for swinging doors.*

*Values updated August 2023.*