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Thermal Performance

SERIES 458 - FiberWall™ Casement

Glass type	Application	LoE Surface	Gas	Centre-of-Glass				Overall Window				Energy Star	
				R-Value	U-Value	Heat Gain	Visible Light	U-Value (imperial)	U-Value (metric)	Heat Gain	Visible Light	Energy Rating	Energy Star Efficiency
Dual Pane													
Cardinal LoE-180	High Solar Gain	3	Argon	3.85	0.26	0.68	79%	0.27	1.53	0.44	50%	-	○
Cardinal LoE-272	Mid-Range	2	Argon	4.00	0.25	0.41	72%	0.26	1.48	0.27	46%	-	○
Cardinal LoE-366	Low Solar Gain	2	Argon	4.17	0.24	0.27	65%	0.26	1.48	0.18	41%	-	○
Triple Pane - 1 LoE Coating - High Performance													
Cardinal LoE-180	High Solar Gain	5	Argon	5.56	0.18	0.61	73%	0.21	1.19	0.40	46%	37	●
Cardinal LoE-272	Mid-Range	2	Argon	5.26	0.19	0.38	66%	0.21	1.19	0.25	42%	28	●
Cardinal LoE-366	Low Solar Gain	2	Argon	5.56	0.18	0.25	59%	0.21	1.19	0.16	37%	23	●
Triple Pane - 2 LoE Coatings - Ultra High Performance													
Cardinal LoE-180 and 180	High Solar Gain	2 and 5	Argon	7.69	0.13	0.56	70%	0.18	1.02	0.36	44%	38	●●
Cardinal LoE-272 and 180	Mid-Range	2 and 5	Argon	7.69	0.13	0.37	63%	0.17	0.97	0.24	40%	33	●●
Cardinal LoE-272 and 272	Mid-Range	2 and 5	Argon	7.69	0.13	0.35	58%	0.17	0.97	0.23	36%	32	●●
Cardinal LoE-366 and 180	Low Solar Gain	2 and 5	Argon	7.69	0.13	0.24	57%	0.17	0.97	0.16	36%	28	●●
Cardinal LoE-366 and 366	Low Solar Gain	2 and 5	Argon	8.33	0.12	0.24	47%	0.17	0.97	0.16	30%	28	●●

Performance Values are calculated by certified, 3rd party test labs. Information is gleaned from best available industry sources. The reader is cautioned that test results 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. Model size was 600 mm x 1500 mm.



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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 1/2" (13 mm) airspaces.
- (3) Calculations for argon filled unit made with 90% Argon/ 10% air.
- (4) NFRC Environmental Conditions used for all values.
- (5) Cardinal Endur warm edge stainless steel spacer used for all values.
- (6) Thicker glass options available, up to 6 mm in dual pane or 5 mm in triple pane.
- (7) Chart indicating Energy Star Canada efficiency designation:
 - ENERGY STAR Most Efficient 2023
 - ENERGY STAR
 - Not Applicable

Values updated August 2023.