





LoE-180ESC


Cold Protection and Code Compliance for Canada

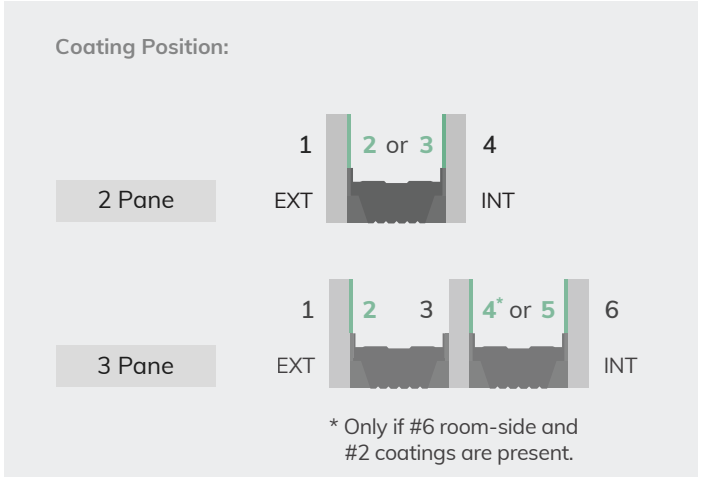
In Canada's frigid weather, Cardinal LoE-180ESC™ glass, an enhancement of the successful LoE-180, offers a cozy welcome home while potentially meeting ENERGY STAR® Canada 2020 criteria. By preventing heat loss and harnessing solar warmth with a U-Factor of 1.49 (SI) and an SHGC of 0.71, it makes homes warmer and comfier, perfectly suiting passive solar applications.


79%
 Vis Trans


0.71
 SHGC



1.51 (SI)
 U-Factor



25%
 UV Transmission





Data is produced using LBNL Window 7.8. 2-pane IG units have 13mm airspace and filled to 90% argon.

Benefits of LoE-180ESC


Highest Visible Light Transmittance


Effective for Passive Solar Design


Excellent Insulating Capabilities


Great for South Facing Windows

While blocking out the cold and harmful sun rays, LoE-180ESC lets in more of the sun's warmth than ordinary low-e glass. The LoE-180ESC coating is applied between layers or anti-reflective metal oxide coatings along with a protective layer to ensure the durability and long life of your glass unit.

Laminated options

Custom shapes & sizes

Thicknesses: 2.2 to 6mm

Max dimensions: 96" x 144"

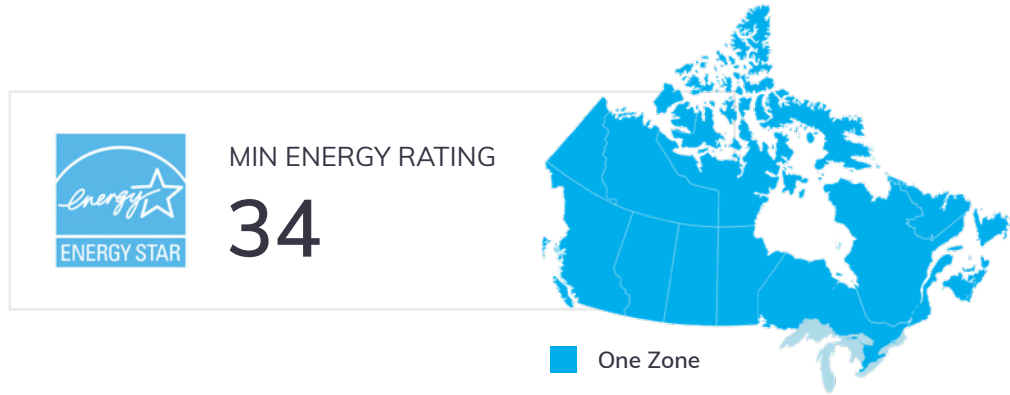
Note: LoE-180ESC is available as annealed, heat-strengthened or tempered glass.

ENERGY STAR 2020 for Canada

ENERGY STAR Canada is managed by Natural Resources Canada (NRCan) and is responsible for promoting energy efficiency and sustainable practices. ENERGY STAR v5.0 requires that windows and doors meet a minimum Energy Rating (ER) of 34 or have a maximum U-Factor of 1.22 (SI) or 0.22 (IP), for all of Canada.

The Energy Rating calculation depends on SHGC, U-Factor, and air leakage rate. When installed in a thermally efficient frame with a low air leakage, **LoE-180ESC™ may meet or exceed ER 34 in double or triple pane IG units.**

Whole-Window Performance Criteria



3/4" Dual Pane with 3mm Glass • 1" Triple Pane with 3mm Glass • 90% Argon

	Center-of-Glass Performance	VISIBLE LIGHT		FADING			U-FACTOR	
		Transmission	Exterior	UV	ISO	SHGC	Air Fill	Argon Fill
							IP / SI	IP / SI
Dual Pane	▶ Clear / LoE-180ESC	80%	15%	25%	62%	0.71	0.31 / 1.76	0.26 / 1.50
	▶ LoE-180ESC / LoE-i89	78%	15%	24%	60%	0.64	0.24 / 1.38	0.21 / 1.20
Triple Pane	▶ LoE-180ESC / Clear / 180ESC	70%	21%	10%	49%	0.58	0.22 / 1.27	0.18 / 1.00
	▶ LoE-180ESC / 180ESC / i89	69%	21%	9%	48%	0.55	0.19 / 1.07	0.15 / 0.86

LBNL Window 7 per NFRC100 conditions. LoE-180ESC is intended for the 3rd surface on a 2-pane insulating glass unit.



ENGINEERING THE FUTURE OF GLASS

Contact Cardinal CG to learn more about LoE-180ESC and other Cardinal glass products.

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