



LEADERS IN QUALITY, STYLE & PRESTIGE SINCE 1969



GLASS PERFORMANCE

The right glass adds livability,
saves energy, saves money, and
saves the environment.

With Lux, every window and
door can be crafted for comfort.

Glass & Glazing Performance

Comfort, energy savings and aesthetics are all important factors to consider when choosing windows. Selecting the best glass type is equally as important as the style of window chosen for a particular location. Lux Windows and Glass Ltd. offers a variety of glazing options to suit any location or climate.

Energy Savings

ENERGY SAVING LUX LOW E GLASS

There are many Low E glass types available to suit virtually any climate; Lux Windows uses a superior product most beneficial when considering energy efficiency for Canadian weather. Low E is a unique, microscopically thin coating (not affecting clarity) containing transparent layers of metal and metal oxides. This metal coating works in tandem with an argon gas enhanced airspace, greatly reducing the sun's hot rays

from entering the home in the summer, and also traps interior climate conditions reducing energy costs of both heating and air conditioning.

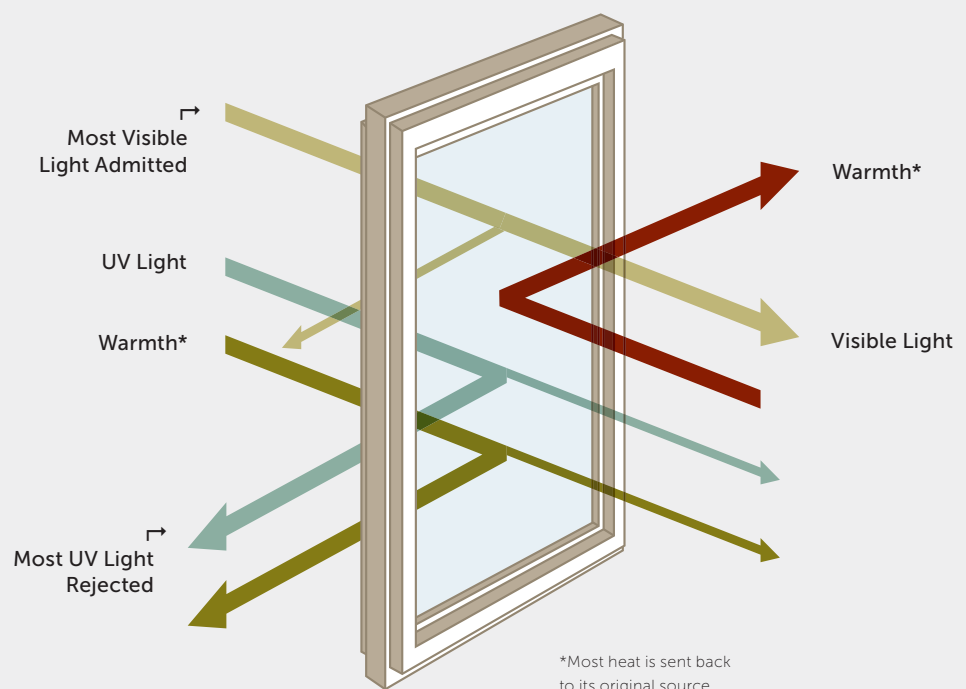
Each and every Lux window and door is available with Low E glass. Low E also significantly resists damaging ultraviolet rays, protecting your curtains, furniture and flooring from fading.

The Low E Difference

Low E is a thin, invisible coating designed to reflect heat. It not only improves the energy efficiency of your home, it can reduce your monthly utility bills and the size of your carbon footprint.

Did You Know?

25% of the heat in your home can be lost through your windows. Without energy-efficient glazing, you are essentially throwing your money out the window.





Choose the Right Low E Glass for Your Home



LoE²-180® GLASS

Trust Lux's great range of performance options to keep your home comfortable and energy efficient whatever the weather. Our Low E 180 glass effectively prevents heat transfer while allowing winter sun and light to pass through. The result? Cold air stays out, warm air stays in and natural light fills your home. The UV blocking feature also eliminates 71 per cent of harmful rays to protect what matters most.



LoE²-272® GLASS

Advanced technology means the glass in your new LUX windows is smarter than you think; our Low E² 272 Glass is a perfect example. In the winter, this glass helps keep your home's interior warm and energy efficient by blocking heat loss. It works its magic during the hot summer months by preventing the sun's heat and UV rays from entering your home. Year-round comfort, year-round performance—that's 365 reasons to smile!



LoE³-366® GLASS

If high performing windows are a must for your renovation or new construction project, look to Lux's Low E³ 366. A perfect blend of solar control and crystal clear visibility, this precision engineered solution eliminates heat from the sun without impacting optical clarity thanks to an additional layer of silver coating. Ultimate interior comfort and optimal energy efficiency are what makes this glass a favourite among construction professionals.



LoE²-i89® GLASS

Introducing the latest breakthrough in energy efficiency—the Low E i89. Taking an already excellent product and making it even better, our enhanced i89 glass represents a new standard in energy performance and interior comfort. The new energy-saving room-side surface coating, coupled with our Low E² and Low E³, actually reflects escaping heat back into the room and lowers U-factors. Enjoy near triple-pane performance in a double-pane unit.



Did You Know?

Typically, 75% of the exposed surface of a window is glass and the temperature of the room-side of the glass directly affects the air temperature in the room. The better insulated the window glass the warmer your room will be.

Indoor Glass Temperature – Winter

Clear - Clear	6.66°C
LoE ² -272 #2 - Clear	13.33°C
Clear - Clear - Clear	12.22°C
LoE ² -272 - Clear - Clear	15°C
LoE ² -272 - Clear - LoE ² -180	16.66°C

Glazing Performance

ARGON GAS

As a standard, the space between the panes of glass in a Low E window are filled with argon gas—a clear, harmless gas that provides maximum insulating capabilities.

GLAZING OPTIONS

We have an unlimited number of glazing options available including dual pane, triple pane, custom obscure patterns, reflective surfaces, etc. Your sales representative can assist with glazing configurations to suit your desired requirements.



ENDUR IG – INSULATED GLASS UNITS ENGINEERED TO A HIGHER STANDARD

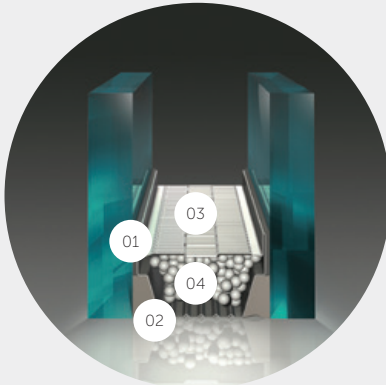
With its unparalleled longevity and outstanding thermal performance, Endur IG stands in a class of its own. This warm-edge stainless steel spacer improves sightline temperature and enhances resistance to condensation. The corrugated shape adds strength. Bent corners—no notches or open joints—create a continuous impermeable barrier around the entire perimeter keeping moisture out.



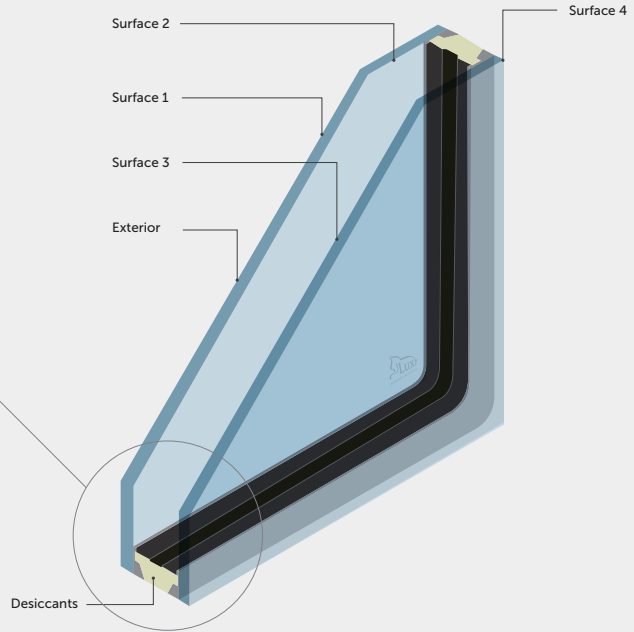


LUX – DOUBLE-PANE UNITS

Consist of two panes of glass with a spacer that separates them, It is required as a standard for all residential applications in Canada due to the harsh winter climate.



Endur IG Double-Pane Units



01 PRIMARY SEAL:

Polyisobutylene minimizes moisture permeation, is UV resistant and provides an outstanding argon barrier

02 SECONDARY SEAL:

Specially formulated silicone provides long-term adhesion and structural integrity, is unaffected by UV exposure and provides excellent durability when exposed to moisture

03 SPACER:

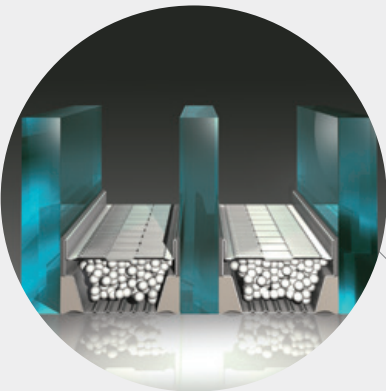
Stainless steel spacer provides maximum area for primary and secondary sealant coverage. It provides increased resistance to condensation and less stress on the seal system. No polymer content eliminates the risk of chemical fogging

04 DESICCANTS:

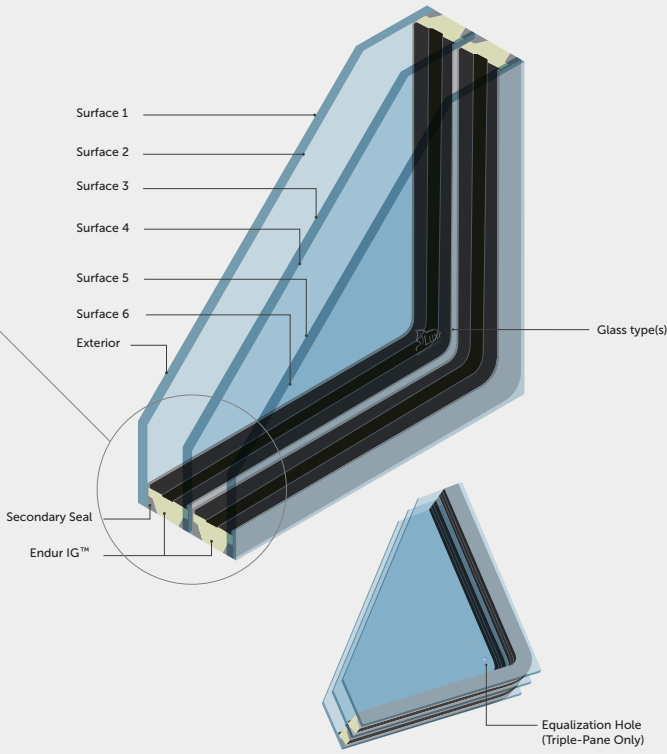
Beaded molecular sieve provides initial frost points below -53°C Desiccant which assures optimum moisture absorption while minimizing the effects of temperature-related pressure changes

LUX – TRIPLE-PANE UNITS

A significant enhancement from dual with three panes of glass and two spacers between. Triple-pane units offer greater performance when comparing factors such as R-value.



Endur IG Triple-Pane Units



Performance Comparison

ENDUR™ IG SPACER

U-FACTOR
Argon

R-VALUE
Argon

SHADING COEFFICIENT

SOLAR HEAT GAIN
COEFFICIENT

VISIBLE LIGHT
Transmission

ULTRAVIOLET LIGHT
Fading

ULTRAVIOLET LIGHT
Transmission

Dual Pane	Clear - Clear	.48	2.08	.89	.78	82%	75%	58%
Dual Pane	LoE ² -272 #2 - Clear	.25	4.00	.48	.41	72%	55%	16%
Dual Pane	LoE ³ -366 #2 - LoE-i89 (#4)	.20	5.00	.31	.27	63%	41%	5%
Triple Pane	Clear - Clear - Clear	.29	3.45	.81	.71	76%	68%	49%
Triple Pane	LoE ² -272 #2 - Clear - Clear	.19	5.26	.44	.38	66%	50%	14%
Triple Pane	LoE ² -272 #2 - Clear - LoE [®] -180 #5	.13	7.69	.43	.37	63%	44%	8%
Triple Pane	LoE ² -272 #2 - LoE [®] -180 #4 - LoE-i89 #6	.11	9.09	.41	.36	62%	43%	8%
Triple Pane	LoE ³ -366 #2 - LoE [®] -180 #4 - LoE-i89 #6	.11	9.09	.27	.24	56%	35%	2%

Glossary

U-FACTOR

This represents the heat flow rate through a window expressed in BTU / hr / ft2 / °F, using winter weather conditions of 0°F outside and 70°F inside. The smaller the number, the better the window system is at reducing heat loss.

R-VALUE

Designates window resistance to heat flow. The higher the R-Value, the more efficient the window is in reducing winter heating costs. (This number is the inverse of U-Value.)

SHADING COEFFICIENT

The measure of the total amount of heat passing through the glazing (known as the total solar heat transmittance) compared with that through a single clear glass. The lower a window's solar heat gain coefficient or shading coefficient, the less solar heat it transmits, and the greater its shading ability.

SOLAR HEAT GAIN COEFFICIENT – (SHGC)

The amount of solar radiation that enters a building as heat. The lower the number, the better the glazing is at preventing solar heat gain.

FADING TRANSMISSION

The portion of energy transmitted in a spectral region from 300 to 700 nanometers. This region includes all of the ultraviolet energy and most of the visible spectrum, and will give the best representation of relative fading rates. The lower the number, the better the glass is for reducing fading potential of carpets and interior furnishings.



Preserve™ peels off easily, revealing gleaming new windows below.

Preserve Your Investment



Lux protects your investment with Preserve™ protective film, ensuring you can enjoy the immediate benefits of perfectly clean and flawless glass after your new construction or renovation is complete.

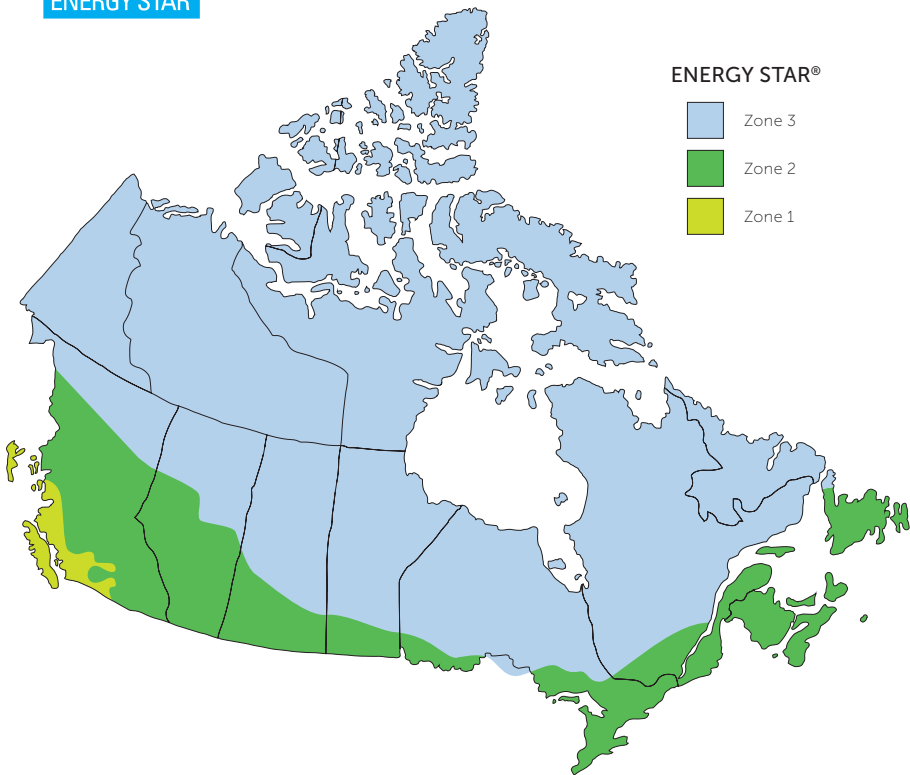
FEATURES & BENEFITS

- A robust coating offering protection against scratches, paint, mud and construction debris
- Factory applied to both the interior and exterior glass
- Easy, one-piece removal with no residual glue or adhesive
- Quickly reveals totally spotless, unblemished glass

ENERGY STAR® Certified Products by Lux



As the mark of high-efficiency products in Canada, the familiar ENERGY STAR® symbol makes it easy to identify the best energy performers on the market.



ENERGY STAR certified products meet strict technical specifications for energy performance—tested and certified. They save energy without compromising performance in any way. Typically, an ENERGY STAR certified product is in the top 15 to 30 percent of its class for energy performance. Saving energy saves you money and reduces your impact on the environment.

Choosing ENERGY STAR qualified products by Lux means choosing to:

SAVE ENERGY

ENERGY STAR qualified products use significantly less energy. Typically, they use 20 to 30 percent less than regular models.

SAVE MONEY

Using less energy means you'll save on your utility bills.

PROTECT THE ENVIRONMENT

Using less energy reduces greenhouse gas (GHG) emissions. ENERGY STAR qualified products are also backed by a tough performance and testing regime.

TESTED & CERTIFIED

The ENERGY STAR symbol means a product has been tested and certified by a government-approved agency.

QUALITY PERFORMANCE

ENERGY STAR qualified products have the same features and performance as other quality products.

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*PRODUCTS AND COLOURS ARE SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE CONTACT A LUX CONSULTANT FOR DETAILS.
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