EcoSure®

Insulated Glass System

The most energy-efficient insulated glass system available, employing Duralite® Spacer and Shift Technology combined with the gas-filling assurance of OptiGas and ThermalCert.

Eco-Sure® Insulated Glass System

Eco-Sure, our newest and most energy-efficient insulated glass system, is the complete package. This revolutionary system combines the environmentally-friendly Duralite® Spacer with innovative "Shift" technology triple glazing. Add to this the latest science in gas mixture and filling, OptiGas with ThermalCert, and you can be sure that the gas you were promised is actually going to bring you the energy savings you expect.

This combination of spacer, glass technology and certified gas-filling gives Eco-Sure the best energy values available today. Offering four styles of glazing, including a dual pane unit and three triple-glazed options featuring "Shift" technology, Eco-Sure has a glass package to fit every home and budget. ***Make sure to specify Eco-Sure when replacing the windows in your home.***

Eco-Sure® By-The-Numbers*

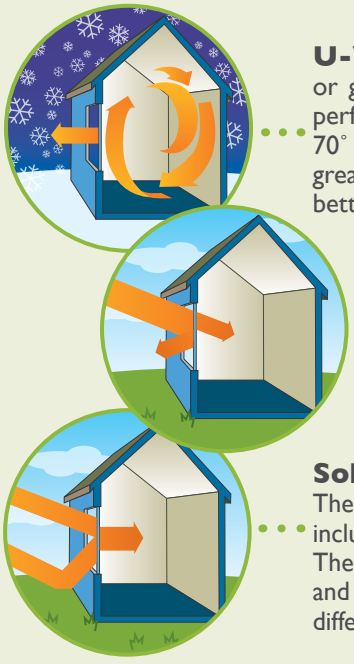
	Plus Low-E Argon Clear	Shift Clear Argon Low-E Argon Clear	Shift 7 Low-E Argon Low-E Argon Clear	Shift Max Low-E Krypton Mix Clear Krypton Mix Low-E
	3/4"		1" Offset	
U-Value	**.28**	**.23**	**.21**	**.18**
R-Factor	**3.57**	**4.35**	**4.76**	**5.55**
VL	**54%**	**49%**	**44%**	**44%**
SHGC	**.30**	**.30**	**.23**	**.25**
Energy Star	**N, NC, SC**	**N, NC, SC**	**All**	**All**

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

**Values are based on a double hung window with single strength glass and no grids.; actual values may vary based on window configuration.*

Choosing the Right Glass

U-Value, Visible Light and Solar Heat Gain – these important factors should be weighed when choosing windows for your home. They all interact with one another to create a harmonious product that is right for you. The key to choosing the right glass package for your home is to find the right combination of performance values to suit your needs. Below are definitions of some of the key terms you need to know when researching and purchasing your new windows.



U-Value: A measure of the rate of non-solar heat loss or gain through a material or assembly. Tests are usually performed under conditions which simulate 0˚ outside and 70˚ inside with a 15 MPH wind. The lower a U-Value, the greater a window's resistance to heat flow, and thus the better its insulating value.

Visible Light (VL): This is the fraction of the visible spectrum of light weighted by the sensitivity of your eyes that is transmitted through the window. Simply put, it represents the amount of daylight that the window lets in.

Solar Heat Gain Co-efficient (SHGC): The fraction of solar radiation admitted through a window including what is absorbed and subsequently released inward. The lower a window's SHGC, the less solar heat it transmits and the greater its shading ability. Different climates require different SHGC values for maximum efficiency.

Low-E coating is a microscopically thin, virtually invisible, metallic layer deposited on the glass surface primarily to reduce the U-Value by suppressing radiant heat flow. Low-E coating is virtually transparent to the solar spectrum (visible light and short-wave infrared radiation) and reflective of long-wave infrared radiation.

Argon & **Krypton** are odorless, colorless, non-toxic inert gasses that can be used instead of air between panes of glass to increase insulation and energy efficiency. Argon is an excellent insulator, a good value and more readily available. Krypton is a denser gas and therefore a better insulator.

Duralite® Spacer System

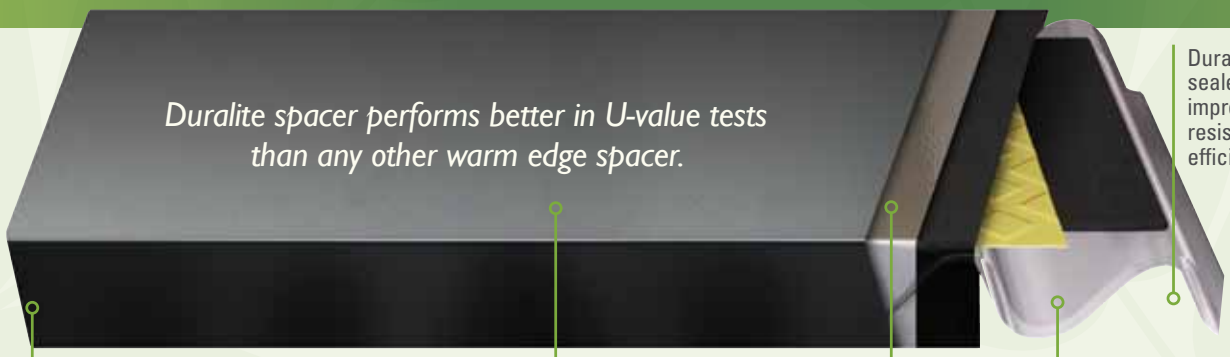
Duralite – the ***greenest*** spacer on Earth!

Combining the Duralite Spacer System with the glass options that are available from Vista results in one of the most energy efficient windows in the industry.

Duralite spacers are more efficient because they contain no metal. This means your windows will be warmer in the winter and cooler in the summer, making your home more comfortable year-round. The use of Duralite spacers lowers energy consumption, thus reducing the amount of CO^2 gasses released into the environment by the utility company.

With Duralite you no longer have to choose between the comfort of your family and being environmentally friendly.

Duralite keeps your home *warm in the winter* and *cool in the summer.*



Duralite spacers trap air in sealed insulating chambers, improving condensation resistance and energy efficiency up to 10%.

A durable, moisture-resistant adhesive protects the window from exposure to UV rays & water.

A protected layer of concentrated desiccant prolongs unit life.

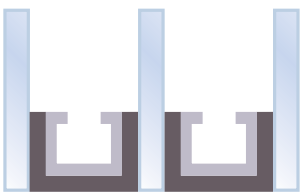
Duralite spacer has a 3-sided continuous, flexible moisture barrier that is impermeable to gas & water vapor.

Duralite's NO METAL polycarbonate spacer element makes it the most thermally efficient spacer on the market today.

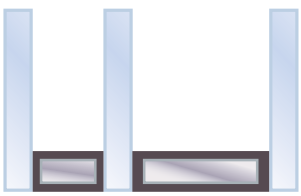
Triple-Glazed Shift

Shift Technology is the newest innovation in insulating glass technology.

- Utilizes unequal, or "offset" spacing between the triple panes for optimum gas filling
- Incorporates different blends of gas to provide the highest energy efficiency with the lowest cost available today
- Combines with OptiGas to give all Eco-Sure™ triple-glazed windows enhanced sound control for a quieter living space

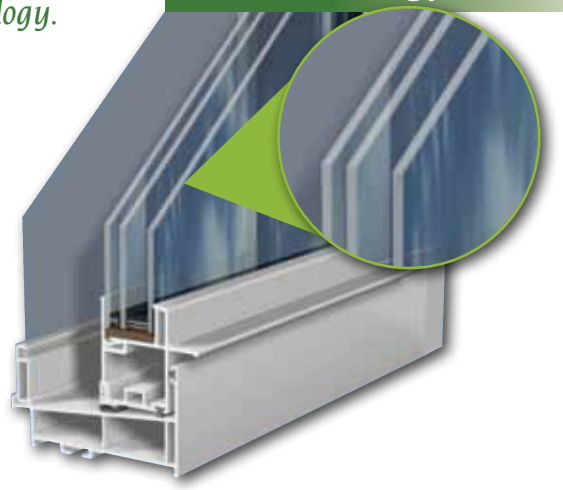


Traditional Triple



Shift Technology with Duralite

INNOVATIVE Technology



OptiGas & ThermalCERT

Our technology guarantees the thermal performance of your windows.

Over 75% of your new Vista window is glass, so it only makes sense that the majority of the energy efficiency is dependent on the type of insulated glass package you choose. There are three components of the insulated glass unit: the type of glass, the type of spacer system and the gas that fills the space between the glass.

The first two are the visible components of the unit – the glass and the spacer. The third component is the invisible part, the gas between the glass.

Since gas is invisible, *how can you be sure it's actually in there?*

Answer: OptiGas and ThermalCERT.
With conventional gas filling, you can only assume your glass actually delivers the value promised. Until now, gas filling was an art, not a science; most insulating glass is fabricated and installed with its thermal performance unverified.

OptiGas revolutionizes insulating glass gas filling. It's the first fully-engineered, automated and integrated smart-fill system for insulating glass. ThermalCERT distinguishes itself from current quality assurance methods in the following ways:

- Takes actual thermal conductivity measurements after the gas is inserted
- Sets a test frequency to assure statistical significance
- Stops production if measurement is skipped or results are outside the specified control limits

With ThermalCERT by OptiGas, you can be certain the U-value you were promised is the U-value you receive.

NFRC *Energy Ratings*

Every Vista window is labeled with the NFRC energy rating label. Look for this label on your window for exact energy performance ratings, which are based on the overall performance of the window.

Eco-Sure® Insulated Glass System

Most Efficient 2013 www.energystar.gov

Vista Window Company produces windows that have been recognized by EPA as Most Efficient in 2013.

DWM 2012 Green Product Award

Vista Window Company was selected as winner of the 2012 DWM Green Product Award.