



# Seal i Smart™

*Insulated Glass System*

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The “warm-edge” technology of Intercept® Spacer Systems combines with various gas and glass options to provide value-based energy-efficiency for your home.

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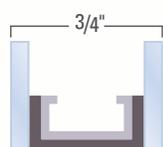
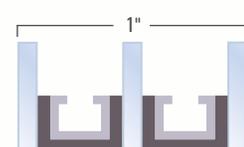
# SealSmart™ Insulated Glass System

Vista's Seal Smart Insulated Glass System combines Intercept® "warm-edge" spacer technology with multiple glass options that allow you to choose the right glass package for your home. We know that one size doesn't necessarily fit all. This is why the Seal Smart family has numerous configurations, from a dual-glazed Low-E and Argon unit, to a triple-glazed package with two panes of Low-E glass and Krypton gas in both air spaces. The Seal Smart glazing system has a package to fit any energy need and budget.

Additionally, it offers the latest science in gas mixture and filling, OptiGas with ThermalCert, ensuring that the gas you were promised is actually going to bring you the energy savings you expect.

**Consult with your Vista window professional to determine which Seal Smart package is best for your home.**

SealSmart	Plus Low-E Argon Clear	Triad Clear Argon Low-E Argon Clear	Triad 7 Low-E Argon Low-E Argon Clear	Triad Max Low-E Krypton Low-E Krypton Clear
<b>U-Value</b>	<b>.29</b>	<b>.26</b>	<b>.22</b>	<b>.19</b>
<b>R-Factor</b>	<b>3.45</b>	<b>3.85</b>	<b>4.55</b>	<b>5.26</b>
<b>VL</b>	<b>52%</b>	<b>48%</b>	<b>41%</b>	<b>41%</b>
<b>SHGC</b>	<b>.28</b>	<b>.28</b>	<b>.22</b>	<b>.21</b>
<b>Energy Star</b>	<b>NC</b>	<b>N, NC</b>	<b>All</b>	<b>All</b>

\*Values are based on a double hung window with single strength glass and no grids; actual values may vary based on window configuration. Seal Smart Triad Max has been designated as one of the Most Efficient ENERGY STAR certified products in 2016.

## Choosing the Right Glass

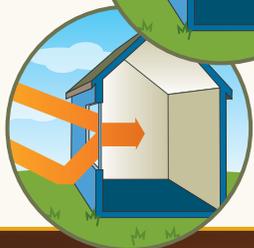
U-Value, Visible Light and Solar Heat Gain – these important factors should be weighed when choosing windows for your home. They all interact with one another to create a harmonious product that is right for you. The key to choosing the right glass package for your home is to find the right combination 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.

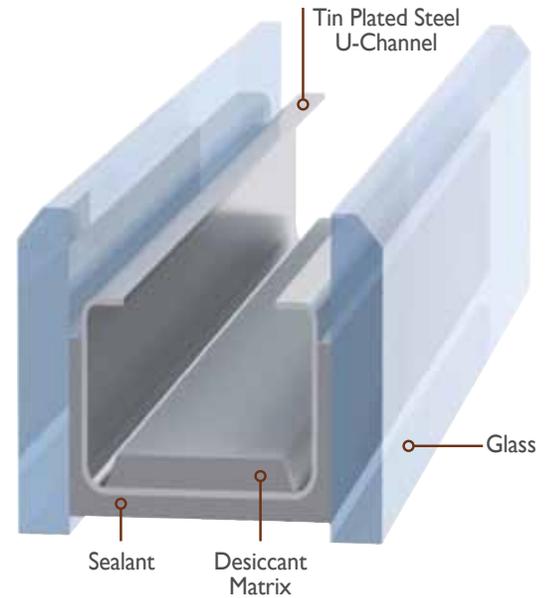
**Argon & Krypton** are odorless, colorless, non-toxic inert gasses that can be used instead of air between panes of glass to increase insulation and energy efficiency. Argon is an excellent insulator; a good value and more readily available. Krypton is a denser gas and therefore a better insulator.



# intercept<sup>®</sup>

## SPACER SYSTEM

The performance of the spacer in the Insulated Glass (IG) unit is critical because it helps determine the energy efficiency of your window as well as its longevity. Since PPG introduced Intercept “Warm-Edge” Spacers in 1992, they’ve become, by far, the industry’s most trusted and proven spacer system. In fact, the Intercept Spacer System is now at work in more than 600 million windows in North America, a number that outpaces any other window spacer technology.



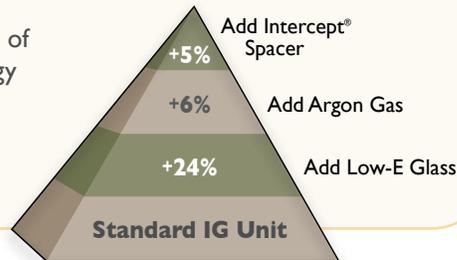
### Intercept Spacers add up to **big energy savings**

- Superior structural strength and durability
- Unique, one-piece U-Channel creates an effective thermal resistance to heat or cold migrating through the edge of the glass
- Allows for maintaining higher humidity levels in your home to retain heat better and increases the comfort level of your home
- Cost-effective and ENERGY STAR compliant

Windows made with Intercept<sup>®</sup> Spacers can help improve the energy efficiency of your windows *by 30% or more.\**

### Window Performance Improvements\*

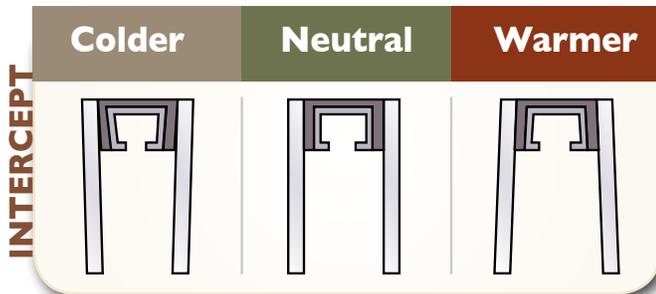
As you can see from the illustration, the use of Intercept<sup>®</sup> Spacers alone enhances the energy performance of your windows by 5%, but there are other options available to make your windows even better.



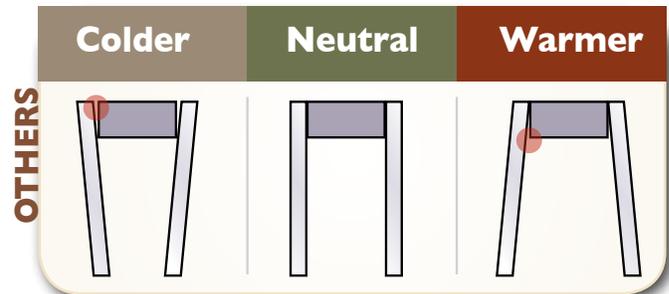
The Intercept<sup>®</sup> Spacer system is now at work in more than **600 million windows** in North America.

### The Intercept Difference

The “flexing” action of the U-channel design also maintains the integrity of the sealant which helps to drastically reduce incidents of glass failure.



Intercept spacers flex instead of the sealant during temperature changes so it resists spacer movement and sealant failure.



With conventional aluminum spacers, the sealant flexes which can lead to sealant failure and loss of insulating ability.

\*Statistical information provided by PPG Industries.

# OptiGas & ThermalCERT

*Our technology guarantees the thermal performance of your windows.*

Gas is a critical component to the energy efficiency of your new windows. Since gas is invisible, *how do you know it's actually in there?*

Enter OptiGas and ThermalCert - the innovative, scientific and verifiable approach to insulating glass gas filling.

OptiGas is the first fully-engineered, automated and integrated smart-fill system for insulating glass.

ThermalCert provides quality assurance 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.

 <b>Vista Window Company</b>	
<b>PANORAMA SERIES</b> Vinyl (VY) • Triple Glazed Low-E Krypton • Intercept Double Hung Window	
<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
<b>0.19</b>	<b>0.21</b>
<b>ADDITIONAL PERFORMANCE RATINGS</b>	
Visible Transmittance	—
<b>0.41</b>	
<small>Manufacturer declares that these ratings conform to applicable NFRC procedures for determining window product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>	

## What does "Most Efficient" mean?

Products that are recognized as the Most Efficient of ENERGY STAR in 2016 prevent greenhouse gas emissions by meeting rigorous energy efficiency performance levels set by the U.S. Environmental Protection Agency.



Seal Smart Triad Max has been designated as one of the Most Efficient ENERGY STAR certified products in 2016; see chart for details.



**ENERGY STAR® Qualified**  
In All 50 States

The thermal performance and gas content of this window ID has been verified by ThermalCERT technology.

For more information, visit [isgasinthere.com](http://isgasinthere.com)

This sticker to be removed by homeowner only.

**ID#: 69491**

Go to [WWW.VISTAWINDOWCO.COM](http://WWW.VISTAWINDOWCO.COM) to register your Warranty.





# Seal Smart<sup>TM</sup> Insulated Glass System



Vista Window Company produces windows that have been recognized by the EPA as Most Efficient in 2016.