



# 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.

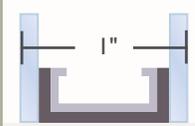
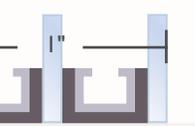
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# Seal Smart™ Insulated Glass System

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.

**When replacing your windows, have your authorized Vista window dealer or distributor help you make the right choice for your home.**

Seal Smart By-The-Numbers\*

	<b>Plus</b> Low-E Argon Clear	<b>Triad</b> Low-E Argon Clear Argon Clear	<b>Triad 7</b> Low-E Argon Clear Argon Low-E	<b>Triad Max</b> Low-E Krypton Clear Krypton Low-E
				
<b>U-Value</b>	<b>.32</b>	<b>.27</b>	<b>.23</b>	<b>.20</b>
<b>R-Factor</b>	<b>3.13</b>	<b>3.70</b>	<b>4.35</b>	<b>5.00</b>
<b>VL</b>	<b>50%</b>	<b>47%</b>	<b>39%</b>	<b>39%</b>
<b>SHGC</b>	<b>.27</b>	<b>.26</b>	<b>.23</b>	<b>.23</b>
<b>Energy Star</b>	<b>NC, SC, S</b>	<b>All</b>	<b>All</b>	<b>All</b>

## ENERGY STAR® for Windows, Doors, and Skylights CLIMATE ZONE MAP



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.

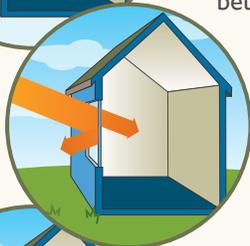
\*Values are based on a double hung window with single strength glass and no grids.; actual values may vary based on window configuration. Units are described from outside in.

## Choosing the Right Glass

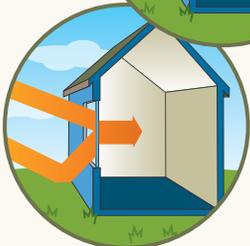
**U-Value, Visible Light** and **Solar Heat Gain** – these important factors should be weighed when choosing windows for your home. They all interact with one another to create a harmonious product that is right for you. The key to choosing the right glass package for your home is to find the right combination 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. It represents the amount of daylight that the window lets in and can be referred to as "Visible Transmittance".



**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.

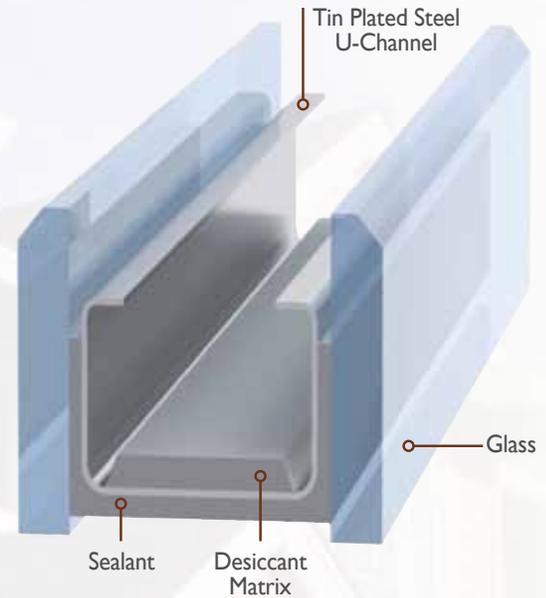
**Argon & Krypton** are odorless, colorless, non-toxic inert gasses that can be used instead of air between panes of glass to increase insulation and energy efficiency. Argon is an excellent insulator, a good value and more readily available. Krypton is a denser gas and therefore a better insulator.



# 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**

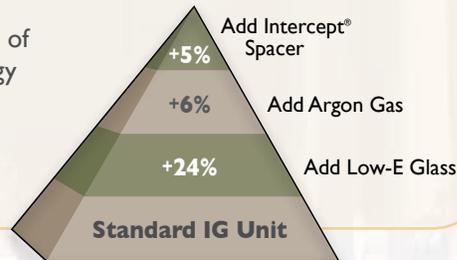
- Superior structural strength and durability
- Unique, one-piece U-Channel creates an effective thermal resistance to heat or cold migrating through the edge of the glass
- Allows for maintaining higher humidity levels in your home to retain heat better and increases the comfort level of your home
-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

\*Tax compliance is determined by the glass package selected.

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

### Window Performance Improvements\*

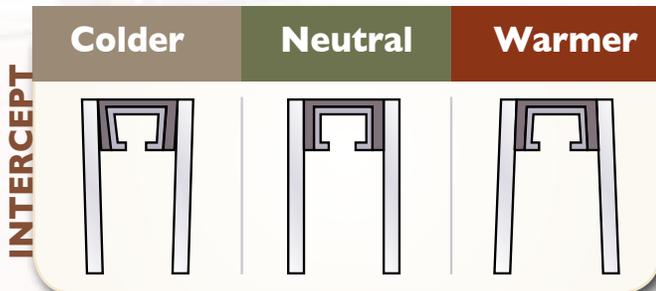
As you can see from the illustration, the use of Intercept<sup>®</sup> Spacers alone enhances the energy performance of your windows by 5%, but there are other options available to make your windows even better.



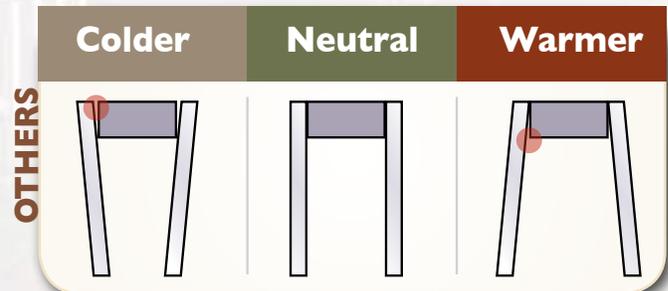
The Intercept<sup>®</sup> Spacer system is now at work in more than **600 million windows** in North America.

### 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.



*Providing custom-made  
windows & doors since 2001.*



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