VISTA WINDOW COMPANY

Ultra V-Seal

Insulated Glass System

Multiple gas & glass options combine with the advanced "warm-edge" technology of Intercept® Ultra Spacer Systems to provide energy-efficiency for your home.

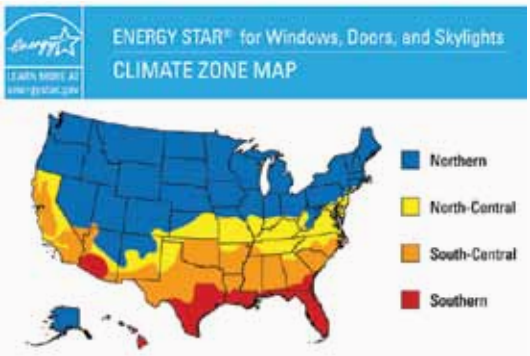
Ultra V-*Seal* Insulated Glass System

The Ultra V-Seal family of glass provides an economical solution for your energy needs by combining Intercept® Ultra's superior "warm-edge" technology with a variety of glass configurations. This family of glass meets or exceeds all Energy Star requirements, whether you choose dual-pane insulating glass with Low-E and Argon, or upgrade to the most energy-efficient package available, our triple-pane insulating glass with two panes of Low-E glass and Krypton gas. Ultra V-Seal has four distinct glass packages for you to choose from, all based on your energy needs and budget.

Consult with your Vista window professional to determine which Ultra V-Seal package is best for your home.

Ultra V-*Seal* By-The-Numbers*

	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
	3/4"		1"	
U-Value	.29	.25	.22	.18
R-Factor	3.45	4.00	4.55	5.55
VL	54%	49%	44%	44%
SHGC	.30	.30	.24	.24
Energy Star	N, NC, SC	N, NC, SC	All	All

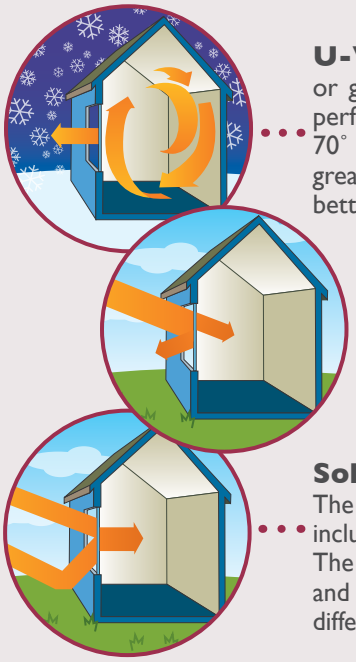


ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

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

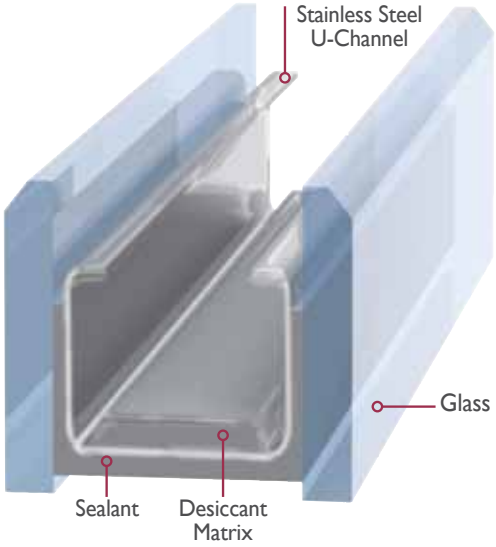
Why Intercept® Ultra?

- Superior warm-edge performance – MEETS and EXCEEDS ENERGY STAR® requirements
- Intercept® Ultra's stainless steel is less conductive to heat and cold – thus a higher thermal performance temperature in the IG

intercept® Ultra

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® Ultra Spacers add up to ***big energy savings***

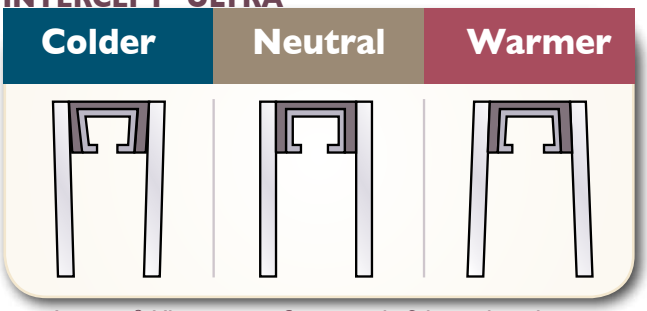
- Unique, one-piece **stainless steel** U-Channel creates an effective thermal resistance to heat or cold migrating through the edge of the glass
- Allows for maintaining higher humidity levels in your home, which retains heat better and increases the comfort level of your home
- Superior structural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

The Intercept® Ultra Stainless Spacer System delivers *thermal performance, structural integrity & reliability* to maximize your new window investment.

The Intercept Difference

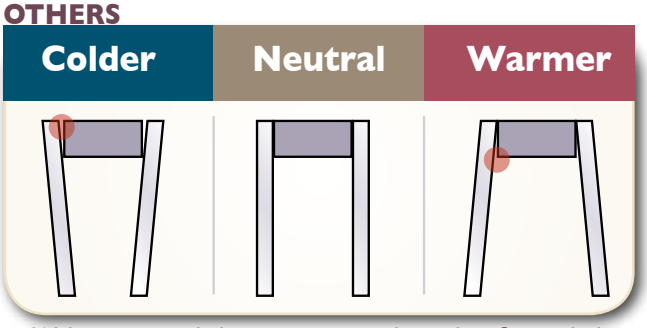
The "flexing" action of the U-channel design maintains the integrity of the sealant which helps to reduce incidents of glass failure.

INTERCEPT® ULTRA



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

OTHERS



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

VISTA
WINDOW COMPANY

Providing custom-made windows & doors since 2001.



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Insulated Glass System

Most Efficient 2013
ENERGY STAR www.energystar.gov

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