VISTA® WINDOW COMPANY

Super V-Seal

Insulated Glass System

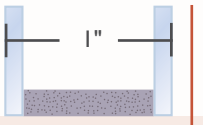
Provides energy efficiency for your home by combining the “no-metal” technology of Super Spacer® with various gas and glass options.

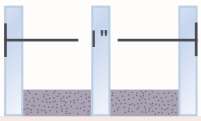
Super V-*Seal* Insulated Glass System

Combining the various configurations of glass – from an energy-efficient double-glazed unit with Argon gas, to a triple-glazed unit with two panes of Low-E and cavities filled with Krypton gas – with Super Spacer's® "True Warm Edge" spacer system, Super V-Seal is one of the most energy-efficient families of glass that Vista window offers. No matter your budget or energy needs, Super V-Seal has an insulated glass package that will fit.

Be sure to consult with your Vista window professional to determine which system is best for you and your home.

Super V-*Seal* By-The-Numbers*





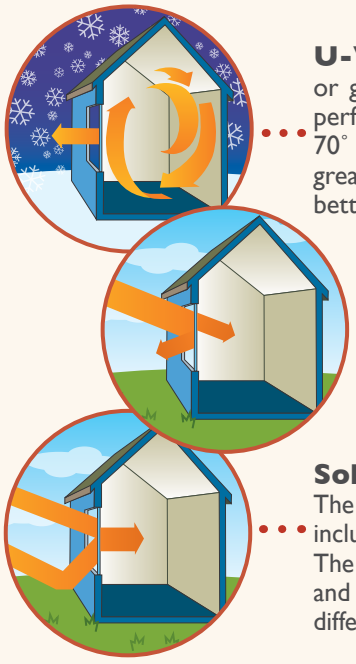
	V-Plus Low-E Argon Clear	V-Triad Clear Argon Clear Argon Clear	V-Triad 7 Low-E Argon Clear Argon Low-E	V-Triad Max Low-E Krypton Mix Clear Krypton Mix Low-E
U-Value	**.30**	**.26**	**.22**	**.19**
R-Factor	**3.33**	**3.85**	**4.55**	**5.26**
VL	**50%**	**47%**	**39%**	**39%**
SHGC	**.27**	**.26**	**.23**	**.23**
Energy Star	**All**	**All**	**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.

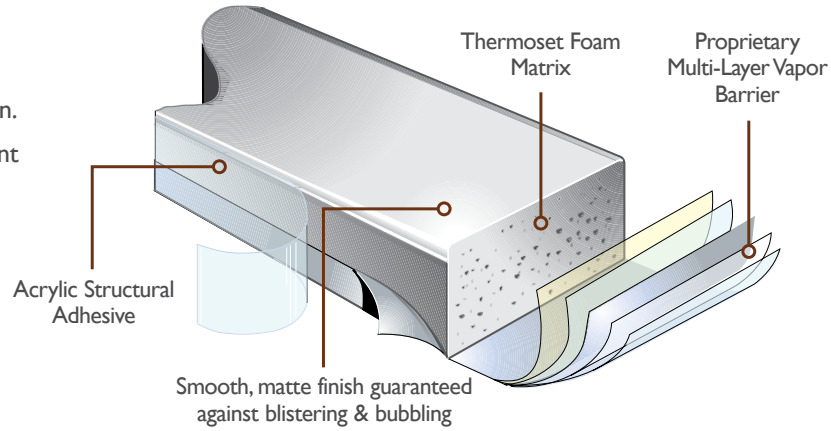
Low-E coating is a microscopically thin, virtually invisible, metallic layer deposited on the glass surface primarily to reduce the U-Value by suppressing radiant heat flow. Low-E coating is virtually transparent to the solar spectrum (visible light and short-wave infrared radiation) and reflective of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

Super Spacer®

"Thermal efficiency through no presence of conductive metals" is the Super Spacer® hallmark. The edge of the insulating glass unit is the most vulnerable to heat and cooling loss, condensation and frosting. Super Spacer's NO-Metal formula blocks the heat escape path and provides one of the best thermal performances in the industry. It assures comfortable winter humidity levels with hardly any worries about condensation and mold.

- Lowers energy costs while adding lasting durability, comfort and value to your home.
- Multi-layer vapor barrier provides excellent gas retention.
- Condensation resistance for overall window improvement and reduced chance of mold.
- Health Smart Advantage allows for higher humidity and less bacteria growth.
- Spacer flexes with temperature changes to limit the possibility of seal failure.
- Structural foam spacer contains no metal for superior insulating performance.



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Stress Resistance

Super Spacer® withstands stress that metal spacers can't.
Super Spacer offers the best stress resistance available. Made with 100% thermoset structural foam, it remains flexible despite movement of the panes of glass caused by stress from temperature fluctuations. More rigid spacers eventually pull apart from the glass due to this constant stress. Super Spacer's NO-Metal construction prevents any such worries.

Super Spacer® provides edge of glass temperature up to **21°F warmer*** *than a conventional aluminum spacer.*

*With use of V-Triad Max Glazing Package. All units are modeled using one pane of Low-E glass. Inside temp of 70° F, outside temp of 0° F. Test Data References: Enermodal Engineering Limited, Frame 3.0 SIGMA Bulletin

Metal vs. Foam:
The Inside Story on Condensation

Full Metal Box Spacer
With conventional metal spacers, condensation is a fact of life that can be harmful and costly.

NO-Metal Super Spacer®
Patented all-foam design reduces condensation for the clearest picture in warm-edge technology.

Super Spacer® SEALED
Health Smart Windows™

VISTA
WINDOW COMPANY

Providing custom-made windows & doors since 2001.

Super V-Seal

Insulated Glass System