



Super V-Seal

Insulated Glass System

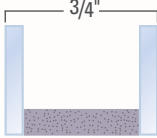
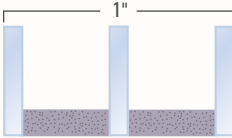
Provides energy efficiency for your home by combining the “no-metal” technology of Super Spacer® with various gas and glass options.

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. 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.

With the addition of options that incorporate energy efficient Cardinal LoE³366 Glass, Super V-Seal has **ten** distinct glass packages for you to choose from, all based on your energy needs and budget.

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

Super V-Seal 270 Series*	V-Plus	V-270-ES	V-Triad	V-Triad 7	V-Triad Max
	Low-E Argon Clear	Low-E Argon Clear	Clear Argon Low-E Argon Clear	Low-E Argon Low-E Argon Clear	Low-E Krypton Low-E Krypton Clear
U-Value	.28	.27	.25	.21	.18
R-Factor	3.57	3.70	4.00	4.76	5.56
VL	52%	52%	48%	41%	41%
SHGC	.28	.28	.28	.22	.21
Energy Star	NC	N, NC	N, NC	All	All
					
Super V-Seal 366 Series*	V-Plus-366	V-366-ES	V-Triad-366	V-Triad 7-366	V-Triad Max-366
	Low-E Argon Clear	Low-E Argon Clear	Clear Argon Low-E Argon Clear	Low-E Argon Low-E Argon Clear	Low-E Krypton Low-E Krypton Clear
U-Value	.28	.27	.26	.22	.18
R-Factor	3.57	3.70	3.85	4.55	5.56
VL	48%	49%	44%	34%	34%
SHGC	.21	.21	.23	.16	.16
Energy Star	NC, SC, S	All	All	All	All

*Values are based on a double hung window with selected glass option and no grids; actual values may vary based on window configuration. Super V-Seal ES window is available in double hung only and includes foam fill. ■ indicates products that have been designated as one of the Most Efficient ENERGY STAR certified products in 2016.

Cardinal LoE³-366® Glass

Super V-Seal 366 Series increases its efficiency by incorporating Cardinal LoE³-366 - the ultimate performance glass.

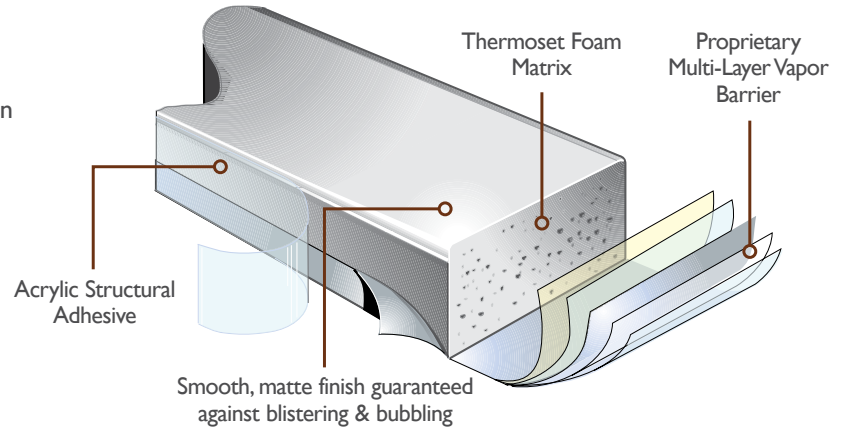
- ENERGY STAR® compliant in every zone
- Ideal balance of solar control and high visibility
- The ultimate performance glass with energy savings throughout the year
- Neat® glass harnesses the sun’s UV rays to loosen dirt so water can rinse it way
- Three layers of silver provide energy efficiency and decreased heat gain, all while resisting interior fading



Super Spacer®

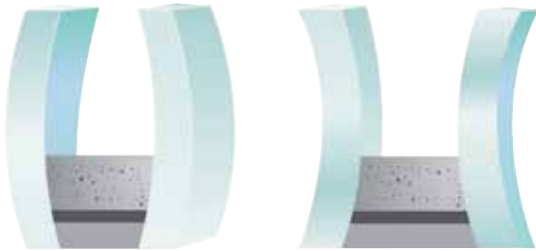
“Thermal efficiency through no presence of conductive metals” is the Super Spacer® hallmark. The edge of the insulating glass unit is the most vulnerable to heat and cooling loss, condensation and frosting. Super Spacer’s NO-Metal formula blocks the heat escape path and provides one of the best thermal 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
- Enhanced 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



“Thermal efficiency through no presence of conductive metals” is the Super Spacer® hallmark.

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.



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.

 Vista Window Company	
PANORAMA SERIES Vinyl (VY) • Triple Glazed Low-E Krypton Gas • Super Spacer Double Hung Window	
ENERGY PERFORMANCE RATINGS	
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient
0.18	0.16
ADDITIONAL PERFORMANCE RATINGS	
Visible Transmittance	—
0.34	
<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>	
 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 igasintthere.com .	
<small>This sticker to be removed by homeowner only.</small>	
ID#: 69491	
Go to WWW.VISTAWINDOWCO.COM to register your Warranty.	

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.



Two Super V-Seal products have been designated as one of the Most Efficient ENERGY STAR certified products in 2016; see chart for details.



Super V-Seal Insulated Glass System



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