

## Site

Private Residence

## Location

Tucson, Arizona

## Window Film

SpectraSelect VS61 SR CDF

## Product Series

Spectrally-Selective Series



## SITUATION

Summer in Tucson brings brilliant sunshine throughout most days and temperatures that can soar at midday into the 100s °F. Cool evenings and clear vistas make for ideal living conditions. Yet thirty years ago, the homes were not designed to take advantage of the outdoor environment: rooms were many but small, restricting views.

The Weisels found a perfect site to create their ideal home: a classic South Western residence set in the midst of a spacious mature desert garden. The only drawback was that the interior room design did not enable them to truly invite the outdoors to be part of their day to day living.

An architect soon put this to rights, by gutting interior walls and creating a series of spacious rooms and areas that provide unimpeded panoramic views of the striking mountains, exotic cacti and other flora that are the mark of an expertly designed desert garden. The goal of bringing the garden in focus throughout the house was achieved, but there was a downside. The large glass windows continued to bring in the day-long sunshine with its heat and harmful ultraviolet rays.

## SOLUTION

To overcome these impediments (and to help reduce air conditioning bills), the Weisels had a new ultra performance spectrally selective window film installed.

Vista™ by LLumar® VS61-SpectraSelect rejects 42% of the sun's heat from entering the house yet allows 61% of visible light to shine through the windows. The film also blocks more than 99 percent of ultraviolet rays to help protect against premature fading. It also helps reduce solar heat absorptance while allowing visible light to shine through.

## RESULT

The Weisels can now fully enjoy their magnificent home with all around mountain and garden views in cool comfort and with the knowledge that their energy bills are constrained.





## Performance Data

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorbance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter U-value	Shading Coefficient	% Ultraviolet Ray Protection (wavelengths 280-380nm)	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio (LSG)	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
Clear Glass	83	8	9	90	8	8	1.03	1.00	29	0.84	0.86	14	1.05	-	-	-
Spectrally-Selective Series																
SpectraSelect VS61 SR CDF	44	31	25	61	23	22	0.93	0.58	>99	0.64	0.50	50	1.22	42	11	32

## EASTMAN

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The solar performance data reported for LLumar architectural window films was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement as measured on single pane, 1/8 inch (3 mm), clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties. \*Films do not eliminate fading—they reduce it. UV rays and heat are contributing factors to fading but other factors exist. For further information see [LLumar.com/download-library](http://LLumar.com/download-library). ©2004, revised 2016 Eastman Chemical Company. VISTA™, the VISTA® logo, LLumar®, the LLumar® logo and Enerlogic® are trademarks of Eastman Chemical Company or one of its wholly owned subsidiaries. As used herein, ® denotes registered trademark status in the U.S. only. (11/16) SP1139