

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

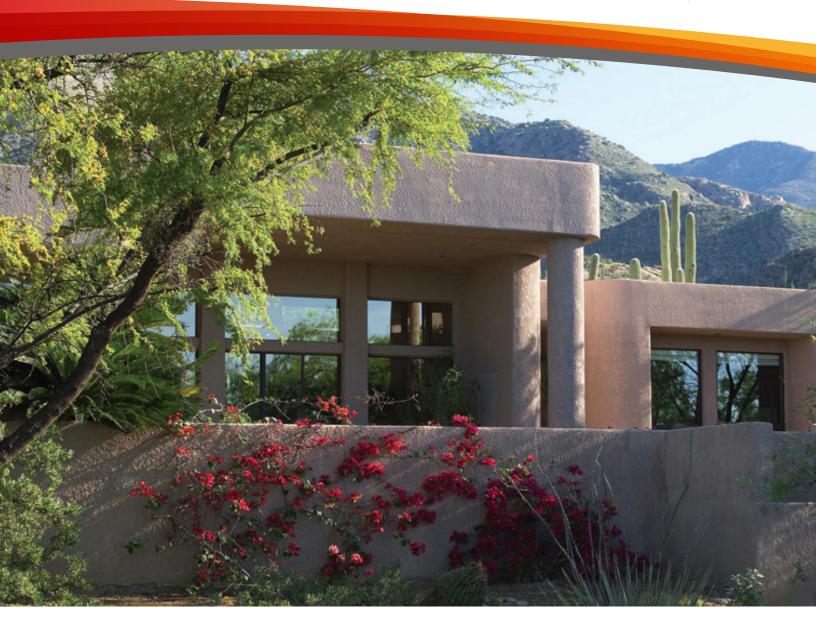
To overcome these impediments (and to help reduce air conditioning bills), the Weisels had a new ultra performance spectrally selective window film installed.

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 Absorptance	% 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

LLumar.com