

Site

Peri Executive Center

Location

Walnut Creek, California

Window Film

Luminance V28

Mirage V38

Product Series

Dual-Reflective Series



SITUATION

The intensity of the California sun is always a challenge for builders and designers when it comes to determining the type and treatment of glass installed in a building. The problem is, when mistakes are made, it's the property manager's responsibility to correct it, which is exactly what happened to David Parsons at the Peri Executive Center in Walnut Creek, California. "Because our windows were not properly treated, there were big fluctuations in the building's temperature depending on where the sun was shining during the day, and our energy costs were going through the roof", said Parsons. "And, as if this weren't enough, the reflection from the windows during the night was so intense that our tenants couldn't enjoy the view, which was one of our big selling points in soliciting tenants."

SOLUTION

To solve the problem, David Parsons called his local Vista™ by LLumar® dealer who installed a total of 30,000 square feet at the site in just six weeks. And because the sunlight was consistently more intense on one side of the building, a complete energy analysis determined that it would be more efficient to use Vista™ by LLumar® Luminance V28 and Mirage V38.

RESULT

"The benefits were immediate," said Parsons. "We were able to equalize the building's micro-climates, and the view at night was preserved. The film has given the building an improved and more uniform exterior appearance. There is a dramatic decrease in utility costs (approximately 12-15 percent) and more balance between hot and cold spots within tenants' suites. We received a 10 year limited warranty and though two types of Vista Window Film were used, they match perfectly."

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 Reflected	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	-	-	-
Dual-Reflective Series																
Luminance V28 SR CDF	23	33	44	30	33	21	1.01	0.41	>99	0.77	0.36	64	0.83	58	3	67
Mirage V38 SR CDF	30	26	44	39	26	17	1.01	0.49	>99	0.78	0.43	57	0.91	50	3	57

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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. © 2008, 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. (06/16) SP1096