CASE STUDY: Hudson River Retreat

Site
Hudson River Designer Show House

Location
Upper Nyack, New York

Window Film
Crystal Elegance V58 SR CDF

Product Series
Neutral Series

SITUATION

Show houses are the phenomena of interior designers and architects. Created by concerned citizens for worthy charitable causes, they allow people to see real rooms decorated by the finest interior designers. Most visitors believe they get their best decorating ideas from show house tours and use what they see to achieve the "look" they themselves seek.

The Hudson River Designer Show House, a European style stone villa, sits on a lofty crest above the Hudson River in Upper Nyack, a residential community some forty miles from Manhattan. The show house offers spectacular views of the Hudson, twin manmade waterfalls and mature foliage used by landscapers to mirror surrounding properties that date back to the turn of the last century.

Despite the installation of expensive high performance windows, the sun's glare restricted the panoramic views and made the interior uncomfortable. Moreover, the sun's harmful ultraviolet rays which came through the specialty glass were a source of fading and damage to the precious furnishings that illustrated the interior designers' skills.

SOLUTION

The chairman of the show house project and interior designers quickly addressed the issue by engaging the services of a local solar control window film expert, who identified the problems and recommended the installation of Vista™ by LLumar® (formerly UVShield®) Crystal Elegance V58 solar control window film for the windows. The film was carefully chosen to address the specific problems of each designer's room. The cavernous glass rotunda living room was the responsibility of interior designer Ho Sang Shin, whose works of Asian aesthetic simplicity have appeared in most design magazines and have been featured by the Cooper Hewitt museum and at Christie's auction house. Ms. Shin combined contemporary upholstery with Asian antiques whose dark accents were particularly vulnerable to the ravaging effect of the sun's ultraviolet rays. Crystal Elegance film was installed on the windows and blocks more than 99 percent of ultraviolet rays, helping protect against premature fading.*

For the main dining room by Charles Pavarini III, a designer frequently featured in House Beautiful, Southern Accents, and "The New York Times", built upon the house's open architecture with 20th Century furnishings and finishes. While the room is most elegant and provides extraordinary views, without Crystal Elegance on the windows the sun's glare created an unacceptable ambiance. One could not see comfortably out of or within the room! The solar control window film reduced the sun's glare by 33% thereby allowing occupants to fully enjoy the room's unique properties.

Kaja Gam, a color conceptualist and interior designer to socialites such as Betsy Von Furstenberg and Eileen Guggenheim, worked wonders on the Game Room. Ms. Gam employed high intensity colors to reflect the free wheeling nature of a room meant for fun and exercise. The dramatic cavalcade of colors was particularly vulnerable to the fading effects of ultraviolet light. Here again Vista provided the solution by blocking more than 99 percent of ultraviolet rays.

RESULT

Nearly a thousand square feet of window film was used tactically throughout the show house to ensure the unique furnishings that were exposed to sunlight were protected.

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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	–	–	–
Neutral Series																
Crystal Elegance V58 SR CDF	55	10	35	60	11	9	1.07	0.76	>99	0.90	0.66	34	0.91	23	-3	33

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. (11/16) SP1132