

Invisible Protection for People and Property



SITUATION: The 632-room Hyatt Regency hotel in San Antonio, Texas is centered around a 16-story garden atrium rising over a cascading waterway. Given the size of the curtain wall, hotel management was concerned that its guests and property would be at risk for potential injury or damage in the event of glass breakage due to severe weather or other hazards. They needed a solution that would provide protection without compromising the aesthetics of the atrium.

SOLUTION: 17,500 square feet (1626 square meters) of N-1050 LLumar Protective Window Film was installed on the entire atrium wall. Made from durable polyester and metallized coatings bonded by a unique adhesive system, this film forms a shield across the glass, holding glass fragments in place in the event of breakage, and drastically reducing potential for damage and injury. Additionally, because the film is optically clear, it does not block the view. At the same time, it rejects 42% of solar energy, and cuts down on harsh glare. As a result, it can improve occupant comfort and provide noticeable energy savings.

RESULTS: The hotel was pleased with the non-obtrusive installation, as well as the appearance of the atrium following installation. By reducing glare, the film actually enhanced the view through the atrium, while improving comfort for hotel guests. The Director of Engineering was specifically pleased with the energy savings, which was an unexpected benefit of the installation.

Building
Hyatt Regency
 Location
San Antonio, Texas
 Film
N-1050 SR PS4 (Neutral)
 Type
Protective Film

“Reducing glare actually improved the view.”

Performance Data

% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% Visible Light Transmittance	% Visible Reflectance (Exterior)	% Visible Reflectance (Interior)	Winter Median U-Value	Shading Coefficient	% Ultraviolet Rejected	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
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Protective Series

Safety and Security products are durable films available in a variety of clear, neutral, and reflective offerings with a range of solar control options. These thicker films meet the most stringent standards for burglary resistance, blast mitigation, windborne debris, and basic safety glazing.

N-1050 SR PS4 (Neutral)	44	13	43	49	14	12	1.03	0.67	99	0.84	0.58	42	0.84	33	0	46
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Physical Properties

Film Thickness (inches)	Appearance	Film Structure	Tensile Strength (constructed)	Tensile Strength (average as reported)	Break Strength (peak load)	Break Strength (average load)	Elongation at Break	Peel Strength	Puncture Strength
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N-1050 SR PS4 (Neutral)	0.004	Light Neutral	Multi	33,884	32,000	120	119	>100%	>2720 (>6)	78
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