

CASE STUDY: Clear, reliable protection from forced entry

Building

Mindpower Incorporated

Location

Atlanta, Georgia, USA

Window Film

SCL SR PS8 (Clear)

Type

Protective Film



SITUATION

Mindpower Incorporated, an agency located in a newly renovated section of downtown Atlanta, was exposed to a higher threat of crime. As new businesses moved into the area, many installed steel burglar bars across their street-level windows to help prevent break-ins and loss of property.

SOLUTION

Seeking an alternative to bars or shutters, Mindpower consulted a LLumar dealer who recommended installing LLumar protective film. Constructed with multiple layers of strong, clear polyester film bonded together with a unique adhesive, LLumar helps hold glass in place in the event of forcible entry, securing the building's integrity.

RESULT

LLumar was quickly installed with minimal disruption to the business. Because LLumar does not impair the optical clarity of the glass, the offices of Mindpower remain bright, but are now protected without the visual intrusion of unsightly bars.

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	0	0	0
Clear Series	Clear safety films can be applied over tinted glass to improve aesthetics, solar performance and glare. These thicker films meet the most stringent standards for burglary resistance, blast mitigation, wind-borne debris, and basic safety glazing.															
SCL SR PS8 (Clear)	78	9	13	88	11	11	1.03	0.94	99	0.84	0.82	18	1.07	6	0	2

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
SCL SR PS8 (Clear)	0.008	Clear	Multi	31,071	32,000	266	254	>100%	>2720(>6)	156

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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 (3mm), clear glass. All values averaged from routinely accumulated quality control data.

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