



CASE STUDY: International airport protects passengers with safety film

Building

Incheon International Airport

Location

Incheon, South Korea

Window Film

SCL SR PS4 & SCL ER PS4

Type

Safety Film



SITUATION

At nearly 6 million square feet, Incheon International Airport's 46-gate terminal is South Korea's largest building. The Passenger Terminal Building incorporates a design that pays tribute to traditional Korean architecture. The building contains many glass balustrades. Even though the balustrades were made of tempered glass, airport authorities worried that glass breakage caused by baggage carts could harm passengers.

SOLUTION

The airport authority selected a nearly clear interior and exterior LLumar safety window film SCLSRPS4 and SCLERPS4 to cover the balustrades and the curtain wall of the transportation center. The film holds glass fragments in place in the event of accidental breakage providing an invisible layer of protection that does not alter the architectural design.

RESULT

The airport authority was very pleased with the installation. There have been no injuries or accidents caused by glass breakage. LLumar safety films are working to protect airport employees, passengers and property. The authorities also mentioned they were very impressed with LLumar's capabilities in terms of technical information provided by the distributor as well as product quality and installation.

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 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	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 PS4/ SCL ER PS4	81	9	10	89	10	10	1.03	0.97	95	0.84	0.84	16	1.06	3	0	1

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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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