

CASE STUDY: Education center prepares for the unexpected

Building

Prem Center
International Education

Location

Chaingmai, Thailand

Window Film

SCL SR PS7 (Clear)

Type

Safety and Security Film



SITUATION

Prem Center International Education is situated in Chaingmai province, north of the capital city of Bangkok. With the increasing frequency of terrorist bombings taking place in Thailand, the owner's of the Prem Center, Mae Lok Co. Ltd., wanted to offer a safe environment to the students and lecturers studying and working at the education center.

SOLUTION

The exclusive LLumar® distributor in Thailand proposed installing LLumar SCLSRPS7 (175 microns) safety and security film to all of the exterior glazing in the center. LLumar safety and security film enhances protection because it helps hold shattered glass together in the event of a bomb blast or explosion. Whether by accident or act of terrorist, explosions can be devastating. LLumar helps protect against severe injuries caused by flying glass debris.

RESULT

Education management commented, "be vigilant and not complacent. Always prepare for the unexpected." LLumar will help to give management, as well as those studying and working at the center an added sense of security.

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	-	-	-
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 PS7 (Clear)	82	8	10	89	9	9	1.06	0.98	94	0.90	0.85	15	1.05	1	-2	1

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 PS7	0.007	Clear	Single	31,050	32,000	230	211	>100%	>2720(>6)	145