

ENERGY SAVING ANALYSIS

Customer:

聖公會日修小學

FILM Mode

WINDOW FILM (Spec.)

		SI35	DGR15
Performance Results	(%)		
Solar Energy	Transmittance	28	18
	Absorptance	33	45
	Reflectance	39	37
Visible Light	Transmittance	37	15
	Reflectance (Ex/Int)	36	36
UV Rejected		97	97
Shading Coefficient		0.43	0.38
U-value		0.98	0.89
Total Solar Energy Rejected		63	70
Thickness		1.5Mil	1.5Mil
Tensile Strength (kg/cmSq)			

Calculation on the Energy saving

INPUT WITHOUT FILM

Clear Glass - existing

Area of Glass (in square feet)	玻璃窗面積 (平方公尺)	7,307	7,307
Temperature Outdoor - Degree C	室外溫度 Degree C	30	30
Temperature Indoor - Degree C	室內溫度 Degree C	25	25
SAVINGS FOR SMALL UNIT (TONS)		332	359
KWH CHARGE	每度收費	HK\$ 1.1	HK\$ 1.1
DAILY SAVINGS (\$), Small Unit		\$ 365	\$ 395
Total Monthly Savings with Film	每月節省電費	\$ 10,946	\$ 11,840
Annual Saving (110 days of year using air-con)	每年節省電費 (每年以 120 日用冷氣 計算)	HK\$43,784	HK\$47,361
PRICE (Standard)	per Sq Ft		
Discounted Price		HKD 20.0	HKD 20.0
Cost		HK\$146,140	HK\$146,140
Simple Payback Period (Yr)	回本期 (年)	3.3	3.1

Performance results were obtained by the installatoion on the inside surface of 1/8" (3mm) thick clear glass and are subject to variations within industry standards.

FORMULA:

Heat Gain:Q (BTU/Hr)= AREA OF GLASS X [(Shading Coefficient X Solar Load) + (U-Factor X Temperature,O - Temperature,I)]

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