

ENERGY SAVING ANALYSIS

Customer:

天主教石鐘山紀念小學

FILM Mode

WINDOW FILM (Spec.)

		Panorama	
		Slate 40	Slate 30
Performance Results	(%)		
Solar Energy	Transmittance	34	23
	Absorptance	43	48
	Reflectance	23	30
Visible Light	Transmittance	44	30
	Reflectance (Ex/Int)	18/12	24/14
UV Rejected		>99	>99
Shading Coefficient		0.54	0.43
U-value		1.02	1.04
Total Solar Energy Rejected		53	63
Thickness		2Mil	2Mil
Tensile Strength (kg/cmSq)		2000	2000

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)	5,308	5,308
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)		198	241
KWH CHARGE	每度收費	HK\$ 1.1	HK\$ 1.1
DAILY SAVINGS (\$), Small Unit		\$ 217	\$ 265
Total Monthly Savings with Film	每月節省電費	\$ 6,522	\$ 7,951
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\$26,090	HK\$31,806
PRICE (Standard)	per Sq Ft		
Discounted Price		HKD 30.0	HKD 30.0
Cost		HK\$159,240	HK\$159,240
Simple Payback Period (Yr)	回本期 (年)	6.1	5.0
Warranty (Yr)	保用 (年)	10	10
Performance results were generated with LBNL Window 5.2 using 1/8" (3mm) clear glass and have been measured, calculated and reported in accordance with ASTM, ASHRAE and AIMCAL standards. Bekaert Specialty Films, LLC is a participating member of AIMCAL and the IWFA. Performance results are subject to variations within industry standards and should be used for comparative purposes only.		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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