

ENERGY SAVING ANALYSIS

Customer:	慈幼英文學校	FILM Model
WINDOW FILM (Spec.)	In Door Film	Panorama
Performance Results	(%)	Sterling 60
Total Solar Energy Rejected		44
Thickness		2Mil
Tensile Strength (kg/cmSq)		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)	4,000
WITHOUT FILM		
Heat Gain (Btu's /hour/SqFt) =		176
Total Daily Solar Load (5hrs per days)=		3,520,000
AC Tonnage Required, Daily =		293

INPUT WITH FILM

Heat Gain (Btu's /hour/SqFt) =		105
Total Daily Solar Load (5hrs per days) =		2,100,000
AC Tonnage Required, Daily =		175
Savings in AC Tonnage =		118
Full-Load Efficiency (kW/Ton), Small Unit		0.80

SAVINGS FOR SMALL UNIT (TONS)		95
KWH CHARGE	每度收費	HK\$ 1.1
DAILY SAVINGS (\$), Small Unit		\$ 104
Number of Days in 1 month		30
Total Monthly Savings with Film	每月節省電費	\$ 3,124

Annual Saving (120 days of year using air-con)	每年節省電費 (每年以 120日用冷氣計算)	HK\$12,496
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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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Without Film



Install Film

