

西貢崇真天主教學校（中學部）

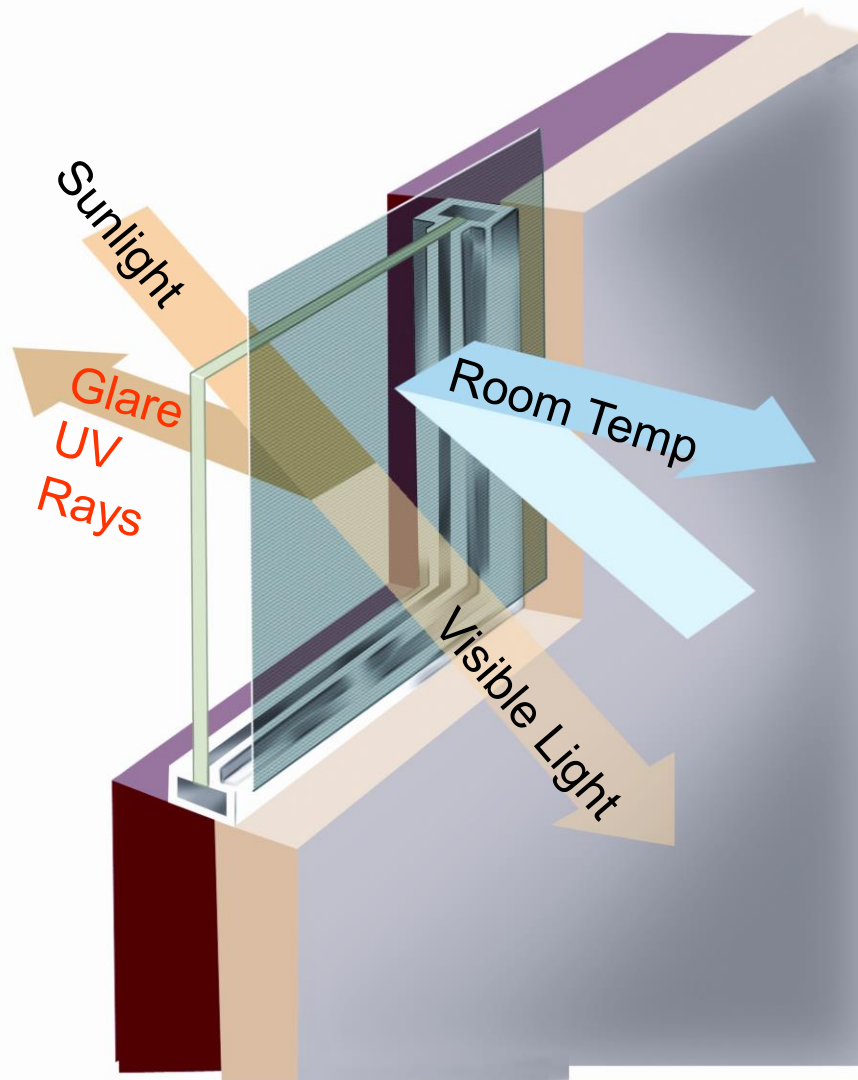
**Sai Kung Sung Tsun Catholic School  
(Secondary Section)**

**Solar Control Film**

Prepared by Suntint Ltd, 2009

Date: 12 Oct 09

# A. Solar Control Film:



# Customer's Existing Problem

Existing Clear glass have high transparency, allow most of heat (over 80%) transmitted into classroom.

Over 80% electricity cost was spending on the air-condition.

Heavy loading of air-condition electricity cost

UV rays increase the chance of Skin Cancer & finishing's fading

# Location of window



# Film Testing on Classroom

Without Film



Solar Power:  
BTU =127

Film Install



Solar Power:  
BTU =16



# Location of window (A, Classroom 1-2/F )



Location	Width"	Height"	Unit	Area (Sq)
Classroom	80	60	8	267



# Location of window (B, Main Classroom 1-2/F )



Location	Width"	Height"	Unit	Area (Sq)
Classroom	125	60	66	3,438
Corridor sides	210	60	16	1,400

# Location of window ( Special Room 1-3/F )



Location	Width"	Height"	Unit	Area (Sq)
Special Room	99	56	12	462
	72	75	12	450
	100	70	18	875
Corridor	117	15	41	500



# Location of window (Hall & 1/F )



Location	Width"	Height"	Unit	Area (Sq)
Hall	36	108	36	972
1/F	91	47	2	59

# Benefits

Reduce cooling cost **10%-15%** annually.

Reject sun's harmful **Ultraviolet (UV)** rays,  
Health Protection

Reduce Electricity Cost by rejected up to  
**80%** Solar energy

Reduce Fading by **UV** rays Blocked

Helps Keep Broken Glass In Place;  
Reduce Chances of Injury