evaya

The table below demonstrates that the use of a light coloured External Venetian Blind will reduce the heat passage through glass by 85% compared to utilising no shading at all.

Please Note : The amount of decrease in the internal temperature of the space cannot be unambiguously determined by calculation. This value can only be ascertained by measuring the internal temperature before and after installation of shading equipment.

How does the S co-efficient affect a six square metre window facing the sun for four hours per day?

The dollar values provided are based on approximate costs of electrical power per kW and values will vary according to the supply type.

Glazing Type	S	Shading Method	S
Single glazing	1.0	Internal blinds, slats 45 - light	0.56
Double Glazing	0.90	Internal blinds, slats 45 - mid	0.65
Single Dethermal Glazing	0.70	Internal blinds, slats 45 - dark	0.75
Internal Standard Glazing	0.60	External Blinds, slats 45 -light	0.15
Reflective Single Glazing	0.70	External Blinds, slats 45 - bright	0.13
Reflective Single Glazing, superior quality	0.24	External Awnings, inner space ventilated	0.30
External Reflective Glazing	0.60	Internal Blinds, inter space ventilation	0.50
Double Reflective Glazing, superior quality	0.30	Reflective Curtains - light external reflective layer	0.60
Coloured Glazing - Light	0.80	Reflective Curtains - dark external reflective layer	0.70
Coloured Glazing - Dark	0.70	Cotton Drapery – artificial fibre	0.80
Reflective foil- Dark	0.25		
Reflective foil - Light	0.42		
Glass with wire insert	0.80		

Single Glazing				S_n	Glazing 6m2 x 700W/m2 x 4 hours
1.0	x		=	1.0	16.80 kW of solar gain $3.35 AUD of air con @ 70% efficiency
Single Glazing	External Blinds, slats 45 Bright			S_n	Glazing 6m2 x 700W/m2 x 4 hours
1.0	x	0.13	=	0.13	2.184 kW of solar gain $0.50 of air con @ 70% efficiency
Single Glazing	External Blinds, slats 45 Bright	Artificial Drapery		S_n	Glazing 6m2 x 700W/m2 x 4 hours
1.0	x	0.13	x	0.8	0.104	1.75 kW of solar gain $0.33 of air con @ 70% efficiency