

### Solar Control

Clear glass is ideal for admitting light and keeping out the weather, but is neither an effective barrier to solar energy, nor a good thermal insulator.

Buildings need to provide a comfortable environment for their occupants, keeping them cool in summer, warm in winter, whilst at the same time making the building an 'efficient performer' in the use of energy for heating, cooling and lighting.

Please feel free to use our guide when selecting solar control glass:

	Light		Solar Radiant Heat				Shading Coefficient			U Value (W/m <sup>2</sup> K)
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance	Short Wavelength	Long Wavelength	Total	
<b>Clear Glass</b>										
4mm	0.90	0.08	0.82	0.07	0.11	0.85	0.94	0.04	0.98	5.8
6mm	0.89	0.08	0.79	0.07	0.14	0.82	0.91	0.03	0.94	5.7
10mm	0.87	0.08	0.72	0.07	0.21	0.78	0.83	0.07	0.90	5.6
<b>Green Solar control</b>										
4mm	0.78	0.07	0.58	0.05	0.37	0.68	0.67	0.11	0.78	5.8
6mm	0.72	0.06	0.46	0.05	0.49	0.59	0.53	0.14	0.67	5.7
<b>Bronze Solar Control</b>										
4mm	0.61	0.06	0.58	0.06	0.36	0.67	0.67	0.10	0.77	5.8
6mm	0.50	0.05	0.46	0.05	0.49	0.59	0.53	0.14	0.67	5.7
<b>Grey Solar Control</b>										
4mm	0.55	0.05	0.55	0.05	0.40	0.65	0.63	0.12	0.75	5.8
6mm	0.42	0.05	0.42	0.05	0.53	0.56	0.48	0.16	0.64	5.7

