

Glass Information

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Glass Information

Glass Type	Light Transmission (LT)	Total Solar Energy Transmittance (g value)	Centre Pane U-value
4mm Toughened / Argon / 4mm Toughened Soft Coat Low E	80%	63%	1.1 W/m ² K
4mm Toughened Grey Tint / Argon / 4mm Toughened Soft Coat Low E	50%	49%	1.1 W/m ² K
4mm Toughened Blue Tint / Argon / 4mm Toughened Soft Coat Low E	57%	41%	1.1 W/m ² K
6mm Toughened / Argon / 6mm Toughened Soft Coat Low E	78%	61%	1.1 W/m ² K
6mm Toughened Grey Tint / Argon / 6mm Toughened Soft Coat Low E	38%	35%	1.1 W/m ² K
6mm Toughened Blue Tint / Argon / 6mm Toughened Soft Coat Low E	47%	33%	1.1 W/m ² K
6mm Toughened HP Solar Control (Neutral) / Argon / 6mm Toughened	70%	40%	1.0 W/m ² K

Light Transmission (LT) is the proportion of visible light at near normal incidence that is transmitted through the glass.

Total Solar Energy Transmittance (g-value) is the fraction of solar radiation at near normal incidence that is transferred through the glazing by all means.

U-Value is the rate of loss of heat per square meter, under steady state conditions, for a temperature difference of one Kelvin between the inner and outer environments separated by the glass.

HP Solar Control is Guardian Sunguard high selective super neutral coating that gives an excellent solar control performance and also a high light transmission.

Tint is a glass that has a coloured tint which gives excellent solar control, but has reduced light transmission.

Standard Glass Specification

(Rooflight description under 1000mmx1000mm)

Standard double glazed unit

<u>Outer Pane</u>	4mm toughened
<u>Cavity</u>	20mm argon with warm edge spacer
<u>Inner Pane</u>	4mm low E coated Toughened
<u>Light transmission</u>	80%
<u>Solar Gain</u>	0.63
<u>Centre Pane U-value</u>	1.1Wm ² K
<u>Weight</u>	21Kg
<u>Load Design</u>	Wind 1000N/m ² Snow 600 N/m ²

Standard double glazed units (laminated)

<u>Outer Pane</u>	4mm toughened
<u>Cavity</u>	20mm argon with warm edge spacer
<u>Inner Pane</u>	8.8mm low E coated Laminate
<u>Light transmission</u>	79%
<u>Solar Gain</u>	0.61
<u>Centre Pane U-value</u>	1.1Wm ² K
<u>Weight</u>	31Kg
<u>Load Design</u>	Wind 1000N/m ² Snow 600 N/m ²

Standard Glass Specification

(Rooflight description over 1000mmx1000mm)

Standard double glazed unit

<u>Outer Pane</u>	6mm toughened
<u>Cavity</u>	16mm argon with warm edge spacer
<u>Inner Pane</u>	6mm low E coated Toughened
<u>Light transmission</u>	78%
<u>Solar Gain</u>	0.63
<u>Centre Pane U-value</u>	1.1Wm ² K
<u>Weight</u>	92Kg
<u>Load Design</u>	Wind 1000N/m ² Snow 600 N/m ²

Standard double glazed units (laminated)

<u>Outer Pane</u>	6mm toughened
<u>Cavity</u>	16mm argon with warm edge spacer
<u>Inner Pane</u>	8.8mm low E coated Laminate
<u>Light transmission</u>	79%
<u>Solar Gain</u>	0.61
<u>Centre Pane U-value</u>	1.1Wm ² K
<u>Weight</u>	107Kg
<u>Load Design</u>	Wind 1000N/m ² Snow 600 N/m ²