

About Glassworks

Glassworks is a 100 percent Australian owned glass processing operation that manufactures service and quality-oriented glass products for commercial and high-end residential clients.

Glassworks sources the best technology and machinery from around the world to provide innovative glass solutions to the Asia Pacific region. Processing capabilities include; insulated glass (EnerSave™), customised laminated glass (ArchiLam™), toughened, decorative and sustainable glass plus more.

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GLASSWORKS



Suntuitive® SRT
SOLAR RESPONSIVE DYNAMIC GLASS

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Australia's first Solar Responsive
Thermochromic (SRT) Glass,
Suntuive® is a dynamic
thermochromic technology
incorporated into a PVB interlayer
that causes the glass to adjust the
light transmission and heat gain
properties based on the intensity of
the sun. As the sun strikes the
window, it absorbs and adapts the tint
- optimising daylight and reducing
heat gain and air-conditioning loads.

Energy efficient glazing.

The unique ability to use the sun's own energy to automatically tint the window as required results in remarkable energy savings and makes it the perfect fit for sustainable building design. Suntuive combines perfectly with the best low-E glass and is able to assist with Green Star project ratings.



Suntuive in the morning - minimal tint



Suntuitive in the afternoon - full tint



Suntuitive in the evening - minimal tint

Cost & comfort benefits

Suntuitive uses the sun's energy to adjust the level of tint without the need for power. The ability to self tint also reduces the need for temperature control. The more the sun strikes the darker the tint becomes, minimising the effects of heat gain and resulting in significant savings on air-conditioning loads. As it needs to be incorporated into an Insulated Glass Unit (IGU), it also provides energy savings in winter as less heating is required to keep buildings warm.

What's more, visible light transmission can get down to 5% in the full sun, reducing glare and the need for blinds in buildings.

	Regular IGU	Suntuitive®					
	6mm clear / 12mm argon / 6mm clear	10.5mm Suntuitive lam with Clear 12mm Argon gap 6mm LoE ³ -366® clear			10.5mm Suntuitive lam with Grey 12mm Argon gap 6mm LoE ³ -366® clear		
Outside glass temp		10 °C	25 °C	65 °C	10 °C	25 °C	65 °C
Visible Light Transmission	78%	54%	50%	11%	27%	25%	6%
Solar Transmission	60%	19%	17%	5%	10%	9%	2%
SHGC	0.70	0.32	0.30	0.138	0.20	0.19	0.11
U-Value	2.5	1.32 W/m ² K	1.32 W/m ² K	1.32 W/m ² K	1.32 W/m ² K	1.32 W/m ² K	1.32 W/m ² K

This pioneering adaptive glazing film performs at its peak when incorporated in an IGU and better still when combined with the ultimate low-E glass, LoE³-366®.

Suntuitive achieves an outstanding U-Value performance, whilst providing variable solar heat gain (SHGC) and visible light transmission for shade and full sun.

Performance conditions

- _ Tilt 90 deg.
- _ NFRC 100-2010
- _ 90% Argon /10% Air

The proof is
in the figures

