



Just imagine...

...being able to switch a glass unit from **clear** to **opaque** to control light and solar heat gain!

## Be in control... Get **Smart-Tint**<sup>TM</sup>

Smart-Tint double glazed units can be switched from clear to opaque to control privacy, solar heat gain and glare. This switchable glass unit may be used in both windows and roofs and has a variety of uses replacing out dated mechanical shades and blinds with modern technology.

Complex roof shapes make roof blinds expensive and hard to fit but with Smart-Tint shapes are easy. Until now switchable glass units were only available on long lead times with thick heavy laminates and prices around the £800-£900/m<sup>2</sup> mark. Roof-Maker Ltd are now manufacturing these super high performance glass units in their Leicester factory for supply to the UK glass market at far more affordable prices.

The units are manufactured with 4mm toughened inner and outer panes not 10mm or 12mm panes which make Smart-Tint very cost effective and also far more easy to handle, giving architects more freedom to use this technology in standard 24mm and 28mm rebates and still achieve good U-values.



**Smart-Tint**<sup>TM</sup>  
- Switchable smart glass technology -

Smart-Tint units are the next generation in architectural glass.



Smart-Tint glass units are the next generation in architectural glass. The ultimate in privacy and glare control whilst still providing healthy light.

The glass units are powered by a small transformer and switch very fast in under a second giving real wow factor. When switched **on** in the clear state, the view is uninterrupted {unlike blinds} with a stylish and modern finish which can be used in doors, roof lights and windows of any shape.

**Switching response time from clear to opaque is less than 1 second.**

**Maximum size of unit is 1200mm x 3000mm in either 16, 20, 24 or 28mm unit thickness**

**No moving parts, no cluttered blinds, no shapes problems**

**Switching performance is rigorously tested and good for 300,000 switches, guaranteed for 10 years.**

- Affordable switchable glass in double glazing 16, 20, 24 or 28mm units.
- All units pre-wired for easy snap together cables on site.
- Available with or without self cleaning glass on outer pane.
- 10m2 powered by 65V transformer power pack supplied
- Manufactured in house using structural warm edge spacer
- Suitable for roof glazing and windows as well as internal privacy screens.
- 100% UV protection to prevent fading and bleaching from the sun.



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## Smart-Tint units replace the clutter of mechanical blinds!



**ON**



**OFF**

Perfect for glass conservatory roofing with complex shapes, opening loft windows and a variety of lantern roof lights where privacy and glare control is required without the clutter of roof blinds.

Smart-Tint units are manufactured with an intelligent high grade functional film inside the unit which can adjust light under electric current to switch between clear and opaque.

In the clear state the haze is less than 10% allowing good passive solar heat gain, good light transmission of 70% and clear visibility.

When a 65 Volt power supply is applied to the unit via a range of control switches the glass may be switched to opaque for privacy and scattered light for glare control.

In addition to this the infrared solar heat transmission is reduced blocking the sun's heat and reducing solar heat gain. Damaging UV radiation is cut by 99% in the clear and 100% in the opaque state preventing bleaching to furniture and flooring.

Rigid polymer centre pane sandwiched between structural spacer bars.



Super Low E soft coat on surface three of 4mm glass.

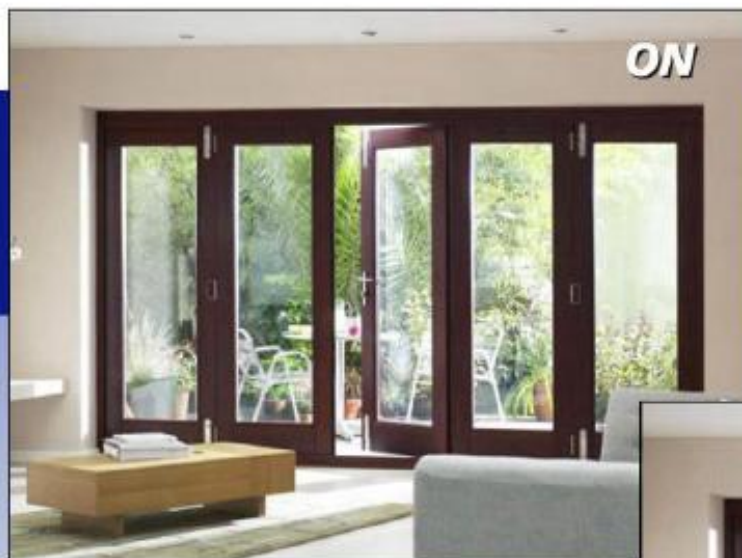
Structural warm edge spacer bar backed with 2-part sealant.

## Technical Specification:

	CLEAR {ON}	OPAQUE {OFF}
VISIBLE LIGHT	70%	55%
UV >400nm TRANS	1%	0%
IR >700nm TRANS	50%	5%
INTERNAL HAZE	8%	90%
POWER CONS	3.5W/m <sup>2</sup>	0
U-VALUE	1.2 W/m <sup>2</sup> K	1.2 W/m <sup>2</sup> K
WEIGHT	25Kg/m <sup>2</sup>	25Kg/m <sup>2</sup>



The switchable centre film in the unit makes Smart-Tint into a triple glazed unit without the extra weight of 4mm glass, this makes Smart-Tint a very effective acoustic unit with an RTA of 37dB much better than laminate glass.

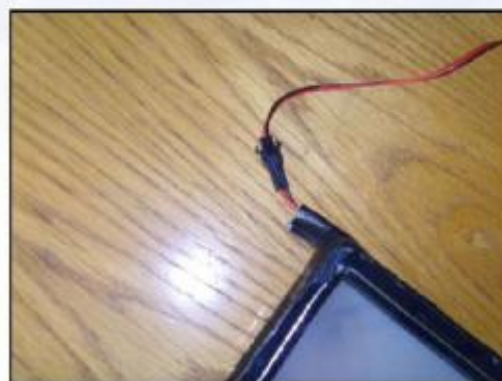


**Latest Technology!**  
**Clean lines!**  
**Instant wow factor!**

**Dynamic control of daylight provides architects with a breakthrough in design solutions.**

The positive impact that daylight has on a buildings occupants has been well documented and so has the negative impact of wasted energy, unwanted solar heat and uncomfortable glare.

With Smart-Tint units you no longer have these problems as you control glare and solar heat without sacrificing light.



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Contact us today for further information or a quotation on  
Telephone: 0800 505 3384



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