

**PIENAAR ENERGY (PTY) LTD**

# **Self-heating solar glass**



## Self-heating solar glass



### Self-heating solar glass hits highest power and optical efficiency

These devices use semitransparent fluorescent glass that absorbs part of the sunlight, emits light, and directs it to solar cells placed on the edges for power generation.

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## Solar control glass , SunGuard glass products , Guardian Glass

The special properties of solar control glass let natural daylight in, while reflecting a high proportion of the sun's heat. The indoor space remains bright but cooler compared to uncoated glass.



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### Solar Glazing: Energy-Efficient Glass with Revolutionary Benefits

Learn how this innovative glass technology can save on energy costs, provide superior insulation, and protect from UV rays, all while generating renewable energy.

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## Energy-saving glass 'self-adapts' to heating and cooling demand

Scientists have developed a material that, when coated on a glass window panel, can effectively self-adapt to heat or cool rooms across different climate zones in the world, helping to cut

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## NTU News Release\_Self-adaptive glass\_v nal

During summer, the glass suppresses solar heating (near infrared light), while boosting radiative cooling (long-wave infrared) - a natural phenomenon where heat emits through surfaces towards the cold universe - to cool ...

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## Invented Energy-Saving Glass That 'Self-Adapts' To Heating And Cooling

During summer, the glass suppresses solar heating (near infrared light), while boosting radiative cooling (long-wave infrared) - a natural phenomenon where heat emits through surfaces towards

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**Buy Solar Control Glass , Eco-Friendly & Energy-Efficient ,**



## Ipswich Glass

Elevate your building's efficiency with our high-quality solar control glass designed for heat reflection and UV protection. Perfect for both residential and commercial applications, our solar glass helps reduce energy ...

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## Heat Insulation Solar Glass, photovoltaic glass, solar glass, BIPV

HISG (Heat Insulation Solar Glass) features a hollow interlayer design that effectively blocks the conduction of hot and cold air, significantly reducing air conditioning energy consumption.

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## Solar Control Glass

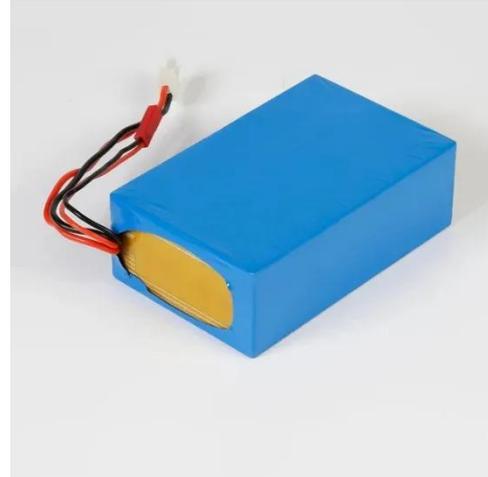
The Pilkington Activ(TM) Range of products combines both self-cleaning and solar control properties, helping to keep the glass cleaner and clearer. The ideal glass solution for conservatories and orangeries.

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## Award: InVert Self-Shading Windows Flip Energy Efficiency On Its Head

TBM Designs, co-founded by thermobimetal innovator Doris Sung, is tucking a self-powered, kinetic solution within insulated glass units to reduce solar heat gain and glare into buildings.

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