SmartGlass International™

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UNIVERSITY OF CAMBRIDGE

A new research study has been published by the Department of Engineering at the University of Cambridge titled "Smart Building Envelopes".

The research conducted in this study has concluded that Suspended Particle Device (SPD) smart glass used in windows was significantly more energy efficient than regular clear float glass.

One of the study's main findings is that solar gain was reduced by as much as 90% through SPD smart glass compared to regular float glass.

The study looks into the development and performance of new smart technology that helps to reduce excessive energy loads in buildings. With a marked trend in modern architecture using glass to create buildings accentuated by light and space, the significant findings of this study have broad implications.

While looking at the various smart glass devices, the study focused on the performance of electrotropic switchable technology, and more specifically on SPD smart glass.

The investigation primarily focused on the associated reduction in energy cooling required to maintain a user comfortable room environment.

Real–world testing of the windows was carried out in an office within Cambridge University. SPD windows were installed over the existing single glazing and the room environment was measured over a month. At the same time measurements were also taken in the identical adjacent office with regular single glazing, which acted as a reference to the performance of the SPD windows.

Conditions measured were room temperature, solar heat temperature, and user comfort. This aspect of the investigation was designed to give accurate knowledge into the real-world performance of the SPD glazing, and whether it would be a suitable technology to be used in everyday situations.

One firm conclusion from the study's author, Mark Beevor from the University of Cambridge's Department of Engineering is: "That 'smart' switchable glazing technology has shown that it offers a realistic and promising alternative to conventional glazing and will help improve the energy efficiency of buildings today."

The full version of this research paper is now available for download on our website:
www.smartglassinternational.com

Patient Safety 2011

SmartGlass International will be at the Patient Safety Conference in the Queen Elizabeth centre in London on Tuesday 8th February 2011

Patient Safety 2011 is the UK's premier forum for a national discussion of the challenges in delivering safe and effective care for the 16 million people admitted to NHS hospitals each year.

Over 350 delegates from across the health sector will attend examining topics such as infection control, managing clinical negligence, drug safety and detecting malnutrition.

Expert speakers will be present on the day including Sir David Nicholson, Chief Executive of the NHS.

If you are attending Patient Safety 2011, please visit our exhibition stand (No. 10) where we will demonstrate a live hospital simulation using LC SmartGlass.

What's New...

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