



Hambleside Danelaw Ltd
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Insulated GRP rooflight with automatic internal lighting control system launched by Hambleside Danelaw

Queen's Award winner Hambleside Danelaw is launching at Ecobuild 2009 the new Insulator Lighting Control System that can reduce the need for artificial lighting inside a building by as much as 50%.

The lighting control system, which is contained within an in-plane GRP Insulator rooflight, will automatically control artificial lighting through dimming or switching off according to the amount of measured natural daylight entering the building through the rooflight.

As well as benefiting from significant savings in energy costs, end-users will see their staff enjoy a very pleasant working environment in the diffuse natural daylight that is spread by the unique transparent honeycomb core of the Insulator rooflight range.

Designed in partnership with Setsquare Ltd and a market first, Hambleside's Insulator Lighting Control System is ideal for a typical industrial, warehouse or retail unit.

Lighting automatically controlled by an in-built sensor

Each Insulator Lighting Control System unit monitors continually the light level in its part of the building through an in-built sensor. The measurements of light are relayed to the hard wired control panel of the artificial lighting, usually sited at ground level.

The building occupier decides on the level of light required for the activities within the building. This can be achieved through full artificial lighting, full natural daylighting or a controlled combination of both via the data received from the sensors. Zoning is possible, light settings are adjustable and manual override is available.

An important additional benefit of this dimming system is that it significantly extends the operating life of the artificial lighting components.

Robin Jeffery, Hambleside Danelaw's vice chairman, said: "The financial and workforce productivity benefits of controlling the reduction of artificial light when ambient light increases are far too important to ignore. The highly innovative Insulator Lighting Control System offers an effortless way of slashing power consumption when clients are looking to cut costs."

The new lighting control in-plane rooflight panels are installed in the usual way by the roofing contractor without the need for special fixings or specialist electrical work. The complete unit is maintenance free and requires no switching. It is also a sustainable solution as virtually all of the components can either be recycled at end of life or composted.

The system can be used in tandem with Hambleside's new micro-generating photovoltaic Insulator Photovolt rooflights, providing power and control in a very cost-effective package.

Visitors will be able to interact with both new products on Hambleside Danelaw's stand (**no.2375**) at Ecobuild at Earls Court, London on 3-5 March 2009.

Rooflights from the Insulator range have been installed on major distribution sheds used by the likes of Tesco, Sainsbury and B&Q as well as in high profile projects such as the Gorilla Kingdom at London Zoo and the British Museum.

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Notes to editors

1. About the Insulator Lighting Control System

Use: The product has daylight sensors which work with the honeycomb light enhancement system of the rooflight to monitor available daylight and automatically dim the artificial lighting resulting in reduced power consumption.

Specification: The unique Insulator properties of the transparent honeycomb core, an integral part of this light control system, provide enhanced levels of natural daylight as well as superior insulation. Each rooflight has an embedded sensor unit and transmitter and is powered by four photovoltaic cells also contained within the rooflight. This light control system may be suitable for ECAs under the Carbon Trust ETL listing.

Thermal Efficiency: Elemental U-Value from 0.8W/m²K to 1.2W/m²K depending upon core specification.

Insulation Methods: Cellulose acetate honeycomb core available in depths of 40mm or 80mm.

Photocell and transmitter:

- Transmitter range 300 metres
- IP54 rated
- EMC compliant
- ROHS compliant
- European RF compliant

Controller and Receiver:

- IP54 rated
- EMC and LVD compliant
- ROHS compliant
- Maximum and minimum levels set by controller with linear dim rate between the two points
- Able to dim to minimum setting and switch off analog, DSI and DALI ballasts
- Able to switch to relay to control Ventralux system
- Manual override
- Addressable
- Data LED indicating data link active or system malfunction
- Multiple controllers access photocell assembly
- Controllers may be linked

- Controller mounted at low level with external hard wired receiver module

Maintenance: Access to the transmitter and photo cell within the rooflight is available through a panel within the liner panel of the rooflight.

Sustainability: GRP is recyclable at end of its service life. The Cellulose acetate honeycomb core assembly may be composted at end of service life. PV Cells are recyclable at end of their service life. The electronic components are recyclable at end of service life.

2. About Hambleside Danelaw Ltd

Details about Hambleside Danelaw, which won the Queen's Award for Enterprise: Innovation in 2006 for the Insulator GRP rooflight, and the company's roofing product range are available at:

www.hambleside-danelaw.co.uk. Hambleside Danelaw (**stand no. 2375**) is launching four new products at Ecobuild in London on 3-5 March 2009 (www.ecobuild.co.uk).