

Unique daylight
management technology
that optimises the use
of natural resources
to deliver energy and
carbon savings

SolaVeil® Cool Natural Energy

Solar Cooling

Solar Protection

Solar Illumination

Carbon Reduction

Energy Efficiency

Cost Savings

Anti Bacterial

Security & Safety

Improved Wellbeing

Carbon Reduction and Energy Efficient Solutions

Each SolaVeil building energy solution is customised to individual building requirements: managing, controlling and exploiting natural daylight entering buildings in order to enhance visual amenity and lighting conditions whilst significantly reducing energy consumption and carbon emissions.

Supported by the Carbon Trust, SolaVeil performance has been independently tested by Cardiff University and LUX TSi in accordance with UKAS standards.

SolaVeil also provides a low embedded carbon solution in compliance with Part L 2A Building Regulation Criterion 3 thereby limiting the effects of solar heat gain in the summer.

SolaVeil key features include:



Significantly reduces solar heat gain, eliminates harmful UV, diffuses and optimises use of natural daylight

- » For a cooler brighter workplace
- » Solar cooling, protection and daylight illumination
- » Reduces energy costs
- » Improves wellbeing
- » Improves working environment



Combines daylight technology with impact and blast performance for a perfect security solution

- » Where security is paramount
- » Protects against heavy impact and visual intrusion
- » Protects against explosion
- » Theft preventative
- » Safer working environment



Enhanced to provide anti bacterial protection that is easier to clean and enables a healthier environment

- » Perfect for hospitals
- » Speeds healing and patient recovery
- » 99% e-coli protection
- » 99% MRSA protection
- » Cleaner environment

SolaVeil® meets the global need to reduce Energy Consumption & Carbon Emissions

Whether a public institution, large corporation or small business, there is a global need to reduce Energy Consumption and Carbon Emissions due to increasing energy costs and the imposition of legislative requirements, such as the Carbon Reduction Commitment (CRC) tax.

As every building is different, our technicians carry out a detailed survey of each building in order to provide an energy performance report outlining how the individual requirements and operational objectives of each building can be met through the customised application of SolaVeil.

“Reduction in solar heat gain reduces cooling and artificial lighting needs, resulting in improved occupant comfort levels through stabilised internal temperatures. SolaVeil also transforms windows into luminaires evenly distributing cool natural daylight deep into a building helping to improve wellbeing, productivity and learning.”

BRIAN HUGHES
INVENTOR OF SOLAVEIL

SolaVeil® optimises and controls natural daylight, a free and abundant energy resource

SolaVeil is the only cleantech company that delivers immediate Energy and Carbon Savings whilst also achieving the following features and benefits within one technology:

SOLAR ENERGY REJECTION

Over
75%

DAYLIGHT ILLUMINATION

Lux
1500

ENERGY SAVINGS

Approx
25%

AVERAGE PAYBACK

Under
4 Years

FEATURES

- 75% rejection of solar energy
- 1500 Lux of daylight illumination
- 99% protection from harmful UV light
- 99% protection against major bacterias
- Reduces emissivity and improves U value
- Diffuses and optimises daylight

RESULTS

- 30% reduction to cooling energy costs
- 20% reduction to artificial lighting costs
- Cost effective and easy to install
- Average payback typically under 4 Years

All subject to site survey. Figures may vary depending on specific building environmental requirements.

BENEFITS

- Reduces air conditioning and heating costs
- Reduces artificial lighting energy requirements
- Improves wellbeing, productivity and learning
- Cleaner working and healing environments
- Retains artificial light, reducing light pollution
- Enables optimisation of lighting control systems

WARRANTIES

- Customised solution for every building
- Professionally surveyed and installed
- UKAS accredited
- 10 year warranty

SolaVeil® Daylight Management Arrays control solar heat gain and provide illumination

Historically, built environments have been concerned predominantly with solar shading. Using its unique daylight management technology, SolaVeil delivers solar control to provide both solar shading and illumination thereby enabling buildings to benefit from improved living and working environments that are cooler, cleaner, brighter and healthier.

Due to its unobtrusive nature, the application of SolaVeil to buildings, including listed buildings, has also been widely accepted in the United Kingdom by planning authorities and English Heritage.

“These days, I don’t have to put the lights on and I have only put the air conditioning on a couple of times this year. And, I must admit, since Solaveil has been installed I feel like my office is a healthier environment to work in.”

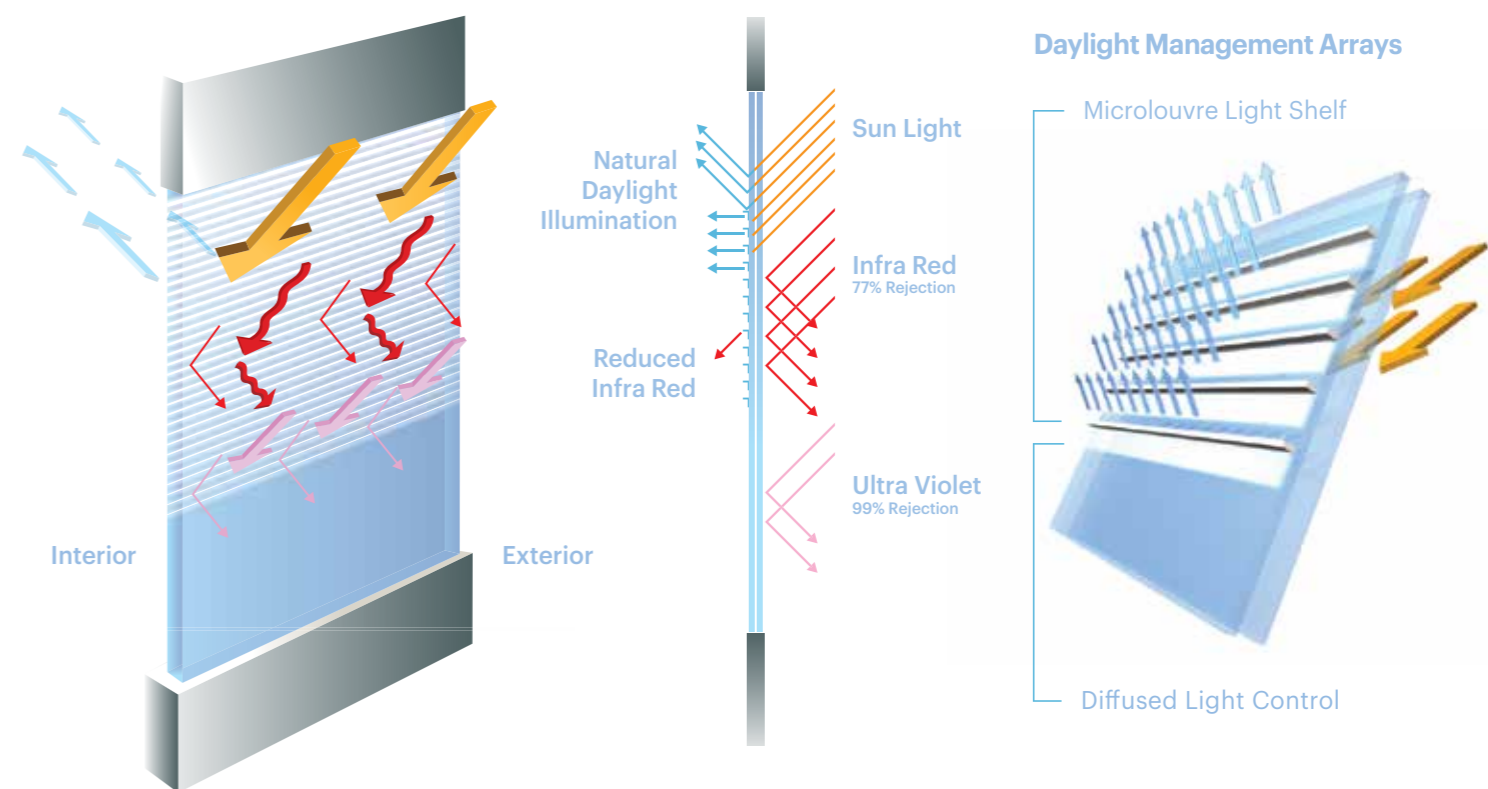
PROFESSOR JOHN MILES
HEAD OF INSTITUTE OF COMPUTATIONAL ENGINEERING,
CARDIFF UNIVERSITY

“We have been looking at the results since SolaVeil was installed and are so impressed with the savings and benefits, we have requested that it is installed throughout the whole school.”

SUE BRATTLE
HEAD OF SCHOOL, LOOSE SCHOOL

SolaVeil® Technology is applied to glazing via a digitally enhanced flexible substrate

SolaVeil uses a digital-on-demand manufacturing process to provide a bespoke engineered solution composed of a series of 3D daylight management arrays, the amount and height of which are positioned to meet the energy needs of each building and its occupants.



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Supported by

