

SolaVeil[®] Daylight

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

SolaVeil[®] Daylight

SOLAR ENERGY REJECTION

Over
75%

DAYLIGHT ILLUMINATION

Over
1500 Lux

ENERGY SAVINGS

Approx
25%

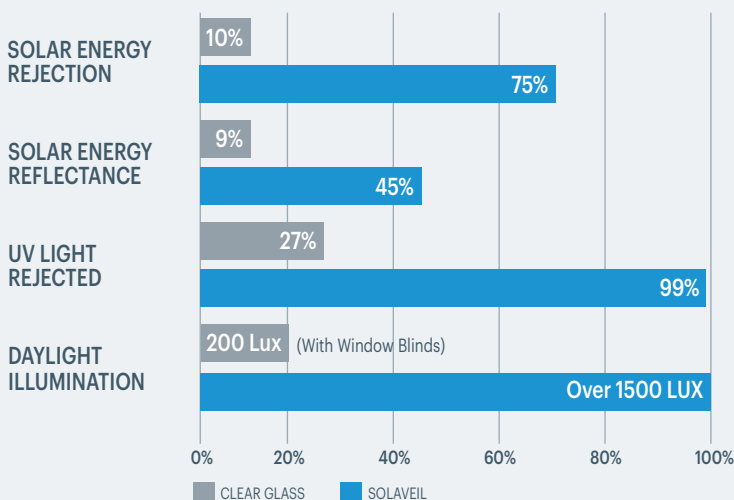
AVERAGE PAYBACK

Under
4 Years

SolaVeil Daylight enables commercial buildings to maximise their use of cool natural daylight, a free energy resource, whilst significantly reducing energy consumption and carbon emissions.

A customised solution adaptable in composition and design to meet the specific requirements of each building, SolaVeil Daylight is a digitally enhanced substrate comprised of a series of three dimensional micro light shelves that is applied internally to glazing to manage and control daylight.

With enhanced heat gain rejection, daylight diffusion and improved internal illumination, SolaVeil Daylight delivers energy savings in relation to air-conditioning and artificial lighting whilst improving the working environment.



NOTE

- SolaVeil Daylight is manufactured and distributed under license by Daylight Business Solutions Limited (DBS). DBS's warranty is set out in its Terms and Conditions of Sale and should be reviewed prior to purchasing any SolaVeil product.
- SolaVeil performance has been independently tested by Lux TSI and Cardiff University in accordance with UKAS standards employing specific test procedures and standards BS EN 410.
- The test results and projections detailed in this document provide data for the benchmark SolaVeil configuration for a typical window design, which may vary subject to survey and the specific environmental factors of each building.
- The test result data do not constitute a recommendation for endorsement of or certification of the product or material tested. These results are provided for informational purposes only and are neither to be considered part of the specification of the Products nor a representation or warranty that the products will conform to these results.

SOLAWEIL DAYLIGHT

Solar Energy

	SolaVeil	Clear Glass
% Transmitted	25	90
% Rejected	75	10
% Reflected	45	9
% Absorbed	30	1
% UV Light Rejected	99	27
% Total Solar Energy Rejected (TSER)	68	10

Visible light

	SolaVeil	Clear Glass
% Transmitted	42	91
% External Reflected	25	10
% Internal Reflected	34	10

Performance Indicators

	SolaVeil	Clear Glass
Solar Factor g (SHGC)	0.32	0.90
Shading Coefficient	0.36	1.03
Solar Selectivity Index (VLT/SC)	1.15	0.88
Solar Gain Environmental (Se)	0.29	0.82
Light To Solar Heat Gain Factor	1.30	1.01
Emissivity (ε)	0.79	0.79
hi W/(m2K)	7.47	7.47
he W/(m2K)	25	25
U-Factor W/m ² °K (4mm single glazed)	3.65	5.75
U-Factor W/m ² °K (4mm double glazed)	2.20	2.75

Anti Bacterial Protection

	SolaVeil	Clear Glass
Staphylococcus aureus	99.9%	0%
Escherichia coli	99.9%	0%

Payback

Embedded Carbon	Average 2 years
Return on Investment	Under 4 years

Substrate Properties

Gauge	75 Microns
Tensile Strength	2,100 kg/cm
Melting Point	260-265 °C

DAYLIGHT BUSINESS SOLUTIONS LTD

Suite 8, CBTC2 Off Parkway
Capital Business Park
Cardiff, CF3 2PX
United Kingdom

TELEPHONE

+44 (0) 2920 837 460

info@solaveil.co.uk
www.solaveil.co.uk

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