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DigitalDaylight® Visual Security

SOLAR ENERGY REJECTION

Over

75%

DAYLIGHT ILLUMINATION

Over

2000 Lux

ENERGY SAVINGS

Approx

25%

AVERAGE PAYBACK

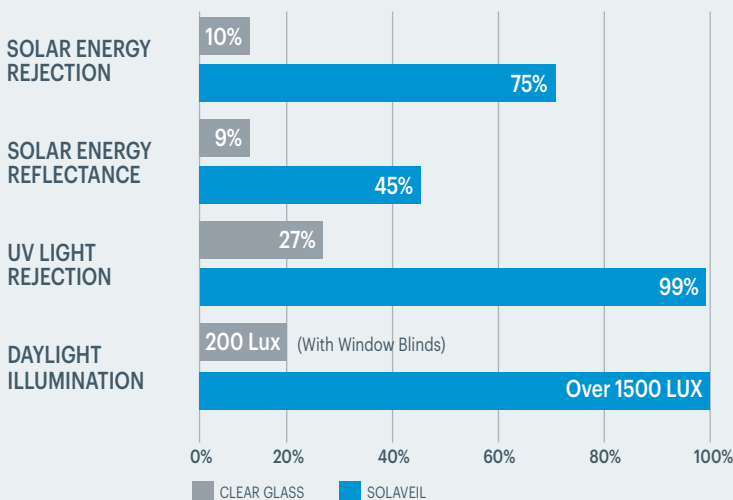
Under

4 Years

DigitalDaylight® Visual Security is designed to prevent shattered glass from causing harm to occupants, providing protection against: terrorist bomb threats, explosions, storm damage, heavy impact, theft and sophisticated visual intrusion.

DigitalDaylight® Visual Security reduces the risk of personal injury from flying glass and building collateral damage. Business assets and vital documents are protected and business downtime reduced.

DigitalDaylight® Visual Security provides protection against visual intrusion 24/7 and benefits from all the daylight management features provided by SolaVeil Dynamic Daylight to reduce energy consumption and carbon emissions.



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.

DigitalDaylight® SECURITY

DDS

Clear Glass

Solar Energy

% Transmitted	25	90
% Rejected	75	10
% Reflected	44	9
% Absorbed	31	9
% UV Light Rejected	99	27
% Total Solar Energy Rejected (TSER)	69	10

Visible light

% Transmitted	41	91
% External Reflected	25	10
% Internal Reflected	34	10

Performance Indicators

Solar Factor g (SHGC)	0.32	0.90
Shading Coefficient	0.36	1.03
Solar Selectivity Index (VLT/SC)	1.13	0.88
Solar Gain Environmental (Se)	0.29	0.82
Light To Solar Heat Gain Factor	1.29	1.01
Emissivity (ξ)	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

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	200 Microns
Peel Strength	985 g/cm
Tensile Strength	2,110 kg/cm
Break Strength	43 kg/cm
ASTM D4830 Puncture Test	64 kg

Digital Daylight Ltd

13 Pretoria Road
Cambridge, CB4 1HD
Registered in England – 09355769

TELEPHONE

+44 (0) 7850747814
info@digitaldaylight.co.uk
www.digitaldaylight.co.uk



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