

Solar Screen

SOLAR 50 C

Solar Control
Thermal Insulation - Interior

Description

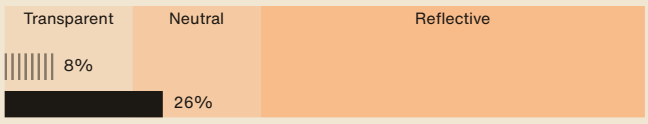
Solar 50 C thermal insulation film keeps out the cold in winter and the heat in summer. Given the energy savings it brings in terms of both heating and cooling, it pays for itself very quickly.

Certified B Corporation

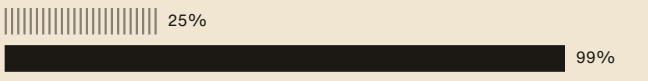
Visible Light Transmission (%)



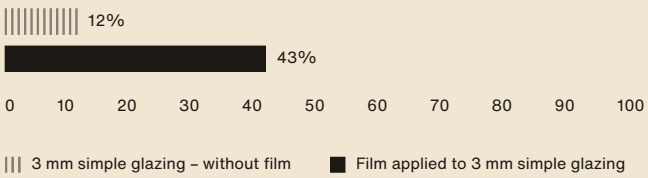
Visible Light Reflection - External (%)



UV Rejection (%)



Total Solar Energy Rejected (%)



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Characteristics

Warranty
Up to 6 years

Fire Resistance Rating
M1

Storage in recommended conditions
3 years

REACH / RoHS
Compliant

Widths Available
152 cm

Installation Type
Interior

Color From the Outside
Silver

Length
30.5 m

Product Carbon Footprint (LCA)
1.34 kgCO2e/m²

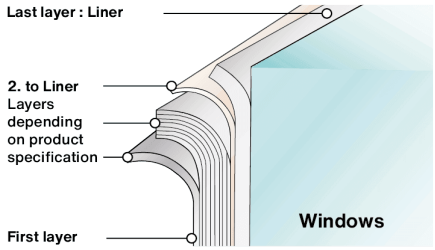
Construction

1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
2 High optical quality polyester, with an IR-blocking metallic particle coating
3 Bonding adhesive
4 High optical quality polyester
5 PS adhesive, polymerizes with glass within 15 days
6 Protection PET release liner, disposable after installation

Composition
PET

Thickness
40 µm

Details



Energy and environmental benefits[01]

Energy savings
6.1 kWh/m²/year

Carbon footprint reduction
1.9 kgCO2/m²

Financial savings
1 euros/m²/year

Access our energy savings calculator

Optical and solar properties

	Single 3mm		Double Low-E	
Pane type	No film	With Film	No film	With Film
UV Rejection (%)	25	99	40	99
Visible Light Transmission (%)	**91**	**60**	**82**	**54**
Visible Light Reflection - External (%)	8	26	11	20
Visible Light Reflection - Internal (%)	8	25	12	19
Solar Energy Reflection (%)	5	38	28	27
Solar Energy Absorption (%)	8	25	12	39
Solar Energy Transmission (%)	87	37	60	34
Total Solar Energy Rejected (%)	**12**	**43**	**35**	**38**
Glare Reduction (%)	-	34	-	34
Shading Coefficient	-	0.65	-	0.71
g-value	**0.88**	**0.57**	**0.65**	**0.62**
U-value (W/m².°C)	5.8	5.3	1.1	1.1
Heat Loss Reduction (Winter) (%)	-	9	-	N/A
Emissivity (-)	0.84	0.3	0.05	0.3

Application advice[02]

Vertical situation and for a standard glazed surface

Clear Single Pane	✓
Tinted Single Pane	✓
Reflective Tinted Single Pane	✓
Clear Double Pane	✓
Tinted Double Pane	!
Reflective Tinted Double Pane	✓
Gas-Filled Double Pane - Low E	!
Stadip Ext. Clear Double Pane	✓
Stadip Int. Clear Double Pane	!

✓ Yes × Not recommended ! Caution

Installation and Maintenance Advise

Use Slide On (600-FO2) or Film On (600-F0355) diluted at 2 cL/L of water for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film. It is essential to apply our sealing varnish (ref. 600-3950) to the edges of the film after installation to prevent oxidation of the metal alloys.

Access the installation and maintenance advice video

01 Values based on a study carried out on an air-conditioned building located in Luxembourg, with a film applied on a low-E double glazing, facing East. The heating months considered are from October to March, and the cooling months from April to September. We consider an electric heating system of the heat pump type, with a production efficiency of 3.5 and an electric cooling system with an efficiency of 3. For more information, visit our online tool.

02 Advice based on glazed surface area up to 2.5 m², please contact us for any confirmation or thermal shock analysis.
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