abode window films®

EXTERNAL SolarCool

EXTERIOR Solar Control

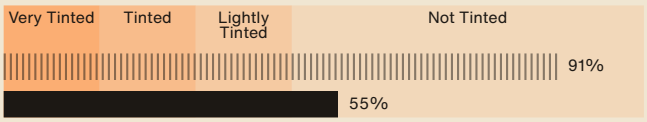
Description

SolarCool External Heat Rejection Window Film is engineered to reflect solar heat and glare before it passes through the glass, making it one of the most effective solutions for reducing heat gain and improving occupant comfort. It is particularly well suited to laminated glazing and modern glass systems with specialist coatings, where the installation of traditional internal window films may not be recommended due to the glass's unique thermal properties.

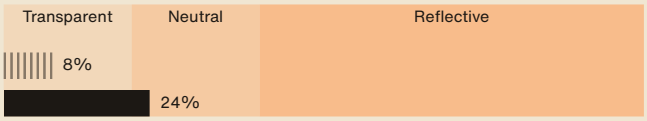
External SolarCool window film is highly effective at reducing solar heat gain while still allowing natural light to pass through the glazing. It delivers excellent glare reduction of up to 40%, helping to create a more comfortable indoor environment without significantly impacting daylight levels.

Certified B Corporation

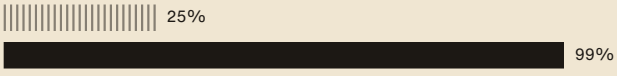
Visible Light Transmission (%)



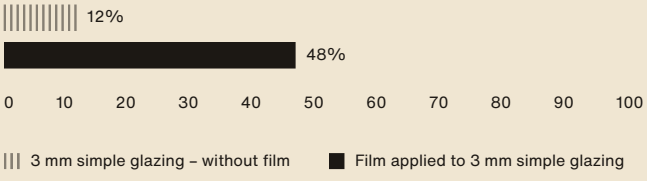
Visible Light Reflection - External (%)



UV Rejection (%)



Total Solar Energy Rejected (%)



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Characteristics

Warranty
10 years

Fire Resistance Rating
M1

Storage in recommended conditions
3 years

REACH / RoHS
Compliant

Widths Available
122 cm, 152 cm, 183 cm

Installation Type
Exterior

Color From the Outside
Neutral

Length
30.5 m

Product Carbon Footprint (LCA)
1.4 kgCO2e/m²

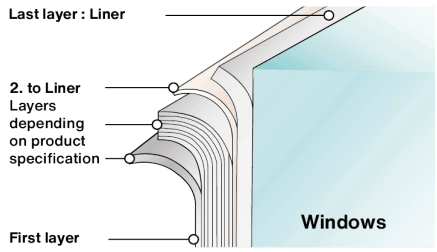
Construction

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
65 µm

Details



Energy and environmental benefits[01]

Energy savings
61.2 kWh/m²/year

Carbon footprint reduction
19.4 kgCO2/m²

Financial savings
14 euros/m²/year

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**	**55**	**82**	**50**
Visible Light Reflection - External (%)	8	24	11	25
Visible Light Reflection - Internal (%)	8	23	12	24
Solar Energy Reflection (%)	5	25	28	30
Solar Energy Absorption (%)	8	29	12	37
Solar Energy Transmission (%)	87	45	60	33
Total Solar Energy Rejected (%)	**12**	**48**	**35**	**62**
Infrared Rejection (780 - 2500 nm) (%)	16	65	16	73
Glare Reduction (%)	-	40	-	39
Shading Coefficient	-	0.59	-	0.43
g-value	**0.88**	**0.52**	**0.65**	**0.38**
U-value (W/m².°C)	5.8	5.8	1.1	1.1

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

You can easily make your own installation fluid at home. Mix 1 liter of water with about 8 drops of baby shampoo or a mild, clear dish soap for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film.

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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