

# OPTIMIZE YOUR THERMAL COMFORT AND SAVE ENERGY

SOLAR FILMS SILVER 385/370/345 XC



# DISCOVER OUR LATEST INNOVATION IN DURABILITY FOR EXTERIOR FILMS

## SILVER EXTERIOR, COMBINING HIGH SOLAR REFLECTIVITY AND EXCEPTIONAL ENERGY PERFORMANCE.

In a context where solar energy management is becoming essential for indoor comfort and the energy performance of buildings, the Silver Exterior range stands out as a highly efficient solution. Designed to address the challenges of overheating, glare and

energy consumption, these reflective adhesive films combine cutting-edge technology, durability in outdoor installation and controlled comfort.

### The key advantages of our Silver Exterior range:

1

#### THERMAL COMFORT

Our solar film technology allows you to perfectly control the thermal comfort of your interior spaces, optimising both solar protection and energy efficiency.

2

#### ENERGY

Reduce air conditioning consumption

Thanks to its technical performance, the Silver Exterior range ensures immediate energy efficiency by rejecting up to 85% of solar energy.

3

#### ECOLOGY

Reduce carbon emissions

By reducing air conditioning use, the Silver Exterior range not only saves energy but also significantly reduces ecological impact, with a lifespan of up to 12 years\*.

4

#### AESTHETICS

Vary the visual appearances with three tint options

From pronounced mirror effect for maximum daytime privacy, to subtly transparent films with low metallization, this range adapts to all your needs.



# WHAT IS THE SILVER EXTERIOR RANGE?

The Silver Exterior range comprises reflective adhesive films designed for application on exterior façades. Thanks to their high solar reflectivity, they effectively limit solar heat gain, reduce glare and optimise the building's energy performance. Their

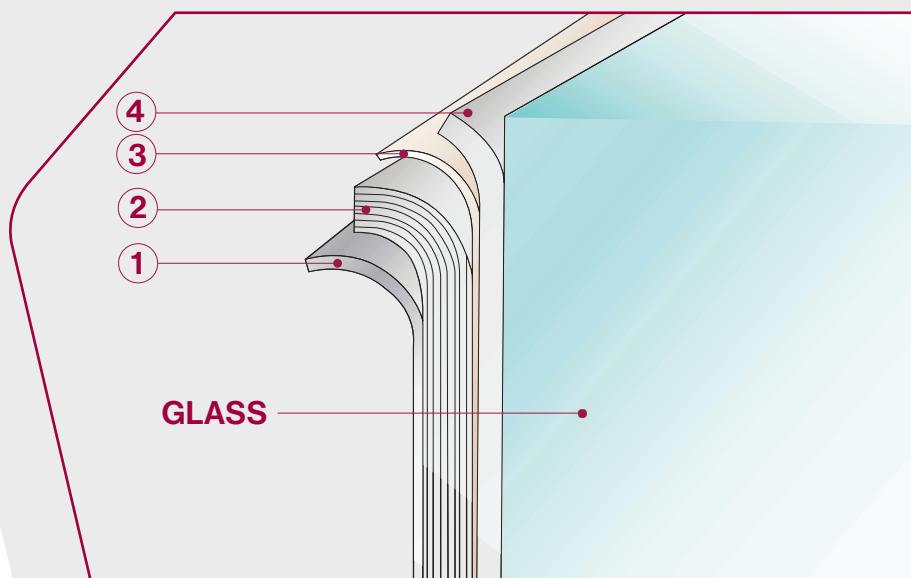
mirror-like appearance also provides light control and privacy during the day, while maintaining light transmission levels suitable for indoor comfort.

## Film structure & composition

- Thickness: 75 microns
- Film structure: Multi-layer PET



- 1 Scratch-resistant layer: provides increased durability and makes cleaning windows easier
- 2 High-quality optical multi-layer PET laminate with metal particles that reject infrared radiation
- 3 Pressure-sensitive adhesive, polymerising with the glass within 15 days
- 4 Adhesive protection liner: to be discarded after installation



From the inside...



Transparent

Tinted

**SILVER 345 XC**

**SILVER 370 XC**

**SILVER 385 XC**

Very bright, it maintains a natural ambience without reflection.

An intermediate tint that offers a good balance between light comfort and privacy.

An intermediate tint that offers a good balance between light comfort and privacy.

From the outside:



Neutral

Mirror

**SILVER 345 XC**

**SILVER 370 XC**

**SILVER 385 XC**

Its nearly invisible appearance preserves the original look of the building.

Its moderate mirror effect adds a contemporary touch while remaining discreet.

Its sleek mirrored look gives it an elegant reflective effect for a modern façade.



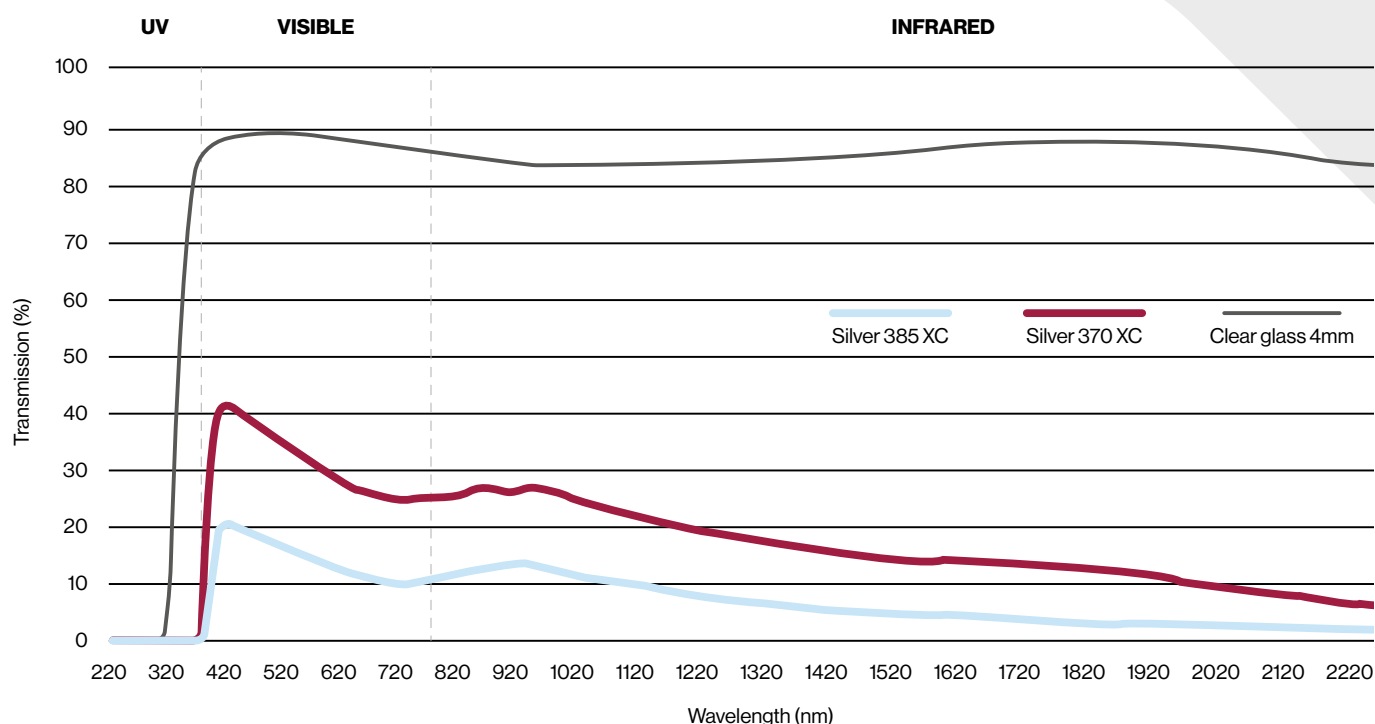
		Silver 385 XC		Silver 370 XC		Silver 345 XC	
		Single glazing (4 mm)	Low-emissivity double glazing (4/20/#4)	Single glazing (4 mm)	Low-emissivity double glazing (4/20/#4)	Single glazing (4 mm)	Low-emissivity double glazing (4/20/#4)
Solar Energy	Solar Energy Absorption (%)	18	20	28	25	32	35
	Solar Energy Reflection (%)	72	72	50	50	30	24
	Solar Energy Transmission (%)	10	8	22	25	38	41
	<b>Total Solar Energy Rejected (%)</b>	<b>85</b>	<b>90</b>	<b>70</b>	<b>78</b>	<b>56</b>	<b>62</b>
	<b>G Value (SHGC)</b>	<b>0,15</b>	<b>0,11</b>	<b>0,30</b>	<b>0,23</b>	<b>0,45</b>	<b>0,40</b>
	Infrared Rejection 780–2500 nm (%)	91	97	79	88	59	78
	Shading Coefficient (%)	0,17	0,17	0,34	0,37	0,52	0,63
Visible light (%)	<b>Visible Light Transmission (%)</b>	<b>14</b>	<b>13</b>	<b>30</b>	<b>28</b>	<b>55</b>	<b>50</b>
	Visible Light Reflexion (Ext.) (%)	72	72	50	50	22	22
	Visible Light Reflexion (Int.) (%)	69	69	47	47	20	20
	Glare Reduction (%)	85	84	67	66	40	39
Thermal Energy	U-value (EN 673)	5,8	2,5	5,8	2,5	5,8	2,5
UV	UV transmission	<1	<1	<1	<1	<1	<1
	UVA/UVB Rejection (%)	99	99	99	99	99	99

## Technical performance

The adjacent table presents the technical performance of our Silver Exterior range.

By rejecting more than 60% of solar energy, these films significantly reduce solar heat, improving indoor comfort and reducing air conditioning costs. The low g-value of the Silver Exterior range indicates better energy efficiency, and its 97% rejection of near-infrared rays guarantees optimal protection against solar heat. These characteristics make it a cutting-edge solution for solar protection and energy efficiency in buildings.

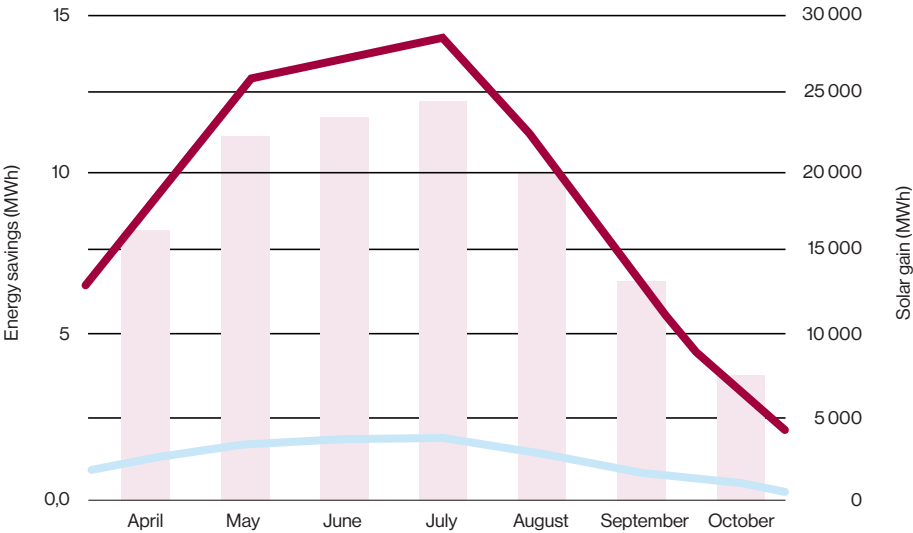
Designed to withstand the most demanding conditions, this solar film offers long-lasting performance, guaranteed for 12 years when installed vertically.



# REDUCE ENERGY CONSUMPTION IN SUMMER

The Silver Exterior range is designed to deliver outstanding energy performance, significantly lowering air conditioning costs. It efficiently dissipates heat, reducing dependence on cooling systems.

This reduction in air conditioning requirements translates into significant savings on energy bills and a smaller carbon footprint.



### Impact of a Silver 385 XC film

- Solar gain with film (MWh)
- Solar gain without film (MWh)
- Cooling demand

The solar gain before the installation of a film, shown by the red curve, drops significantly once a film is applied (blue curve). The bars indicate monthly energy savings. In this example, total annual savings would amount to 58.2 MWh for 500 m² of glazing facing northeast and northwest—approximately €13,929 at 2025 energy rates.



CALCULATE  
YOUR ENERGY  
SAVINGS WITH  
OUR SIMULATOR

#### CO2 EMITTED DURING PRODUCTION

LESS THAN 2 KG OF CO2 PER M² OF FILM

#### ANNUAL CO2 SAVINGS

UP TO 10.61 KG OF CO2 PER M² FOR SILVER 385 XC

#### CO2 EMISSIONS OFFSET

IN LESS THAN 6 MONTHS

#### LIFESPAN

MORE THAN 10 YEARS

## SIMPLIFIED CARBON FOOTPRINT FOR THE INSTALLATION OF 1 M² OF SILVER 385 XC IN FRANCE

	CO <sub>2</sub> IN KG	CONSUMPTION IN KWH
Energy saved thanks to air conditioning in summer	-12,14	-140
Additional energy for heating in winter	1,53	16
Final savings	-10,61	-124

## ENERGY SAVED THANKS TO REDUCED COOLING DEMAND:

The energy saved from reduced air conditioning is 140 kWh per m<sup>2</sup> of film installed per year, equivalent to 12.14 kgCO<sub>2</sub>e saved.

## ADDITIONAL ENERGY REQUIRED FOR HEATING:

The additional energy needed for heating is 16 kWh per m<sup>2</sup> per year, resulting in 1.53 kgCO<sub>2</sub>e emissions.

## NET CO<sub>2</sub> EMISSION SAVINGS:

The difference in CO<sub>2</sub> saved by reducing cooling vs. emitted for heating is 10.61 kgCO<sub>2</sub>e per m<sup>2</sup> per year.

Silver Exterior stands out for its ability to offset the CO<sub>2</sub> emissions generated during its production in just 6 months. With an annual saving of 10.61 kg of CO<sub>2</sub> per m<sup>2</sup>, this film contributes significantly to reducing the carbon footprint of buildings, while providing effective and durable solar protection.





# SOLAR SCREEN, YOUR EXPERT IN ADHESIVE FILMS FOR WINDOWS

At Solar Screen, we are committed to providing high-quality solutions to enhance energy efficiency, safety, and comfort in buildings. Our products, like the Silver Exterior range, meet the highest standards and deliver long-lasting performance.



## EXPERIENCE AND EXPERTISE

With nearly four decades of experience, we have gained unrivaled expertise in window adhesive films.



## STOCK CAPACITY AND AVAILABILITY

Over 100,000 rolls in stock guarantee immediate availability and fast delivery of our products.



## CONTINUOUS INNOVATION

We continuously invest in R&D to offer ever more efficient and environmentally friendly products.



## MARKET LEADER

Over 6 million m<sup>2</sup> of films sold annually reflect the trust and satisfaction of our customers.

## CONTACT US

For more information about our products and services, feel free to contact us:

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