

Solar Screen

Description

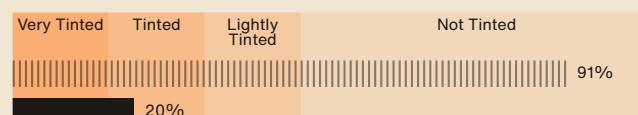
Nickel 80 XC films are highly effective at reducing solar heat gain, whilst at the same time continuing to allow some natural light transmission. They help noticeably reduce solar glare, conveying a touch of colour and customization to the external aspect of a building.

NICKEL 80 XC

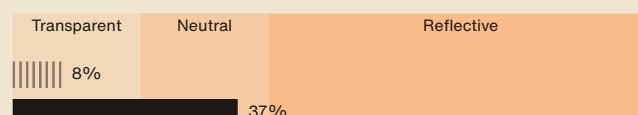
Solar Control

Neutral - Exterior

Visible Light Transmission (%)



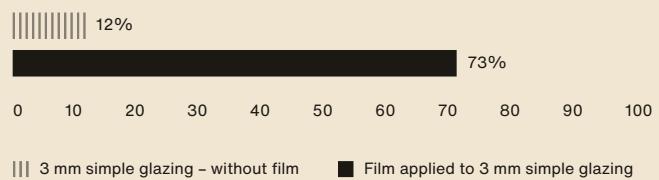
Visible Light Reflection - External (%)



UV Rejection (%)



Total Solar Energy Rejected (%)



Characteristics

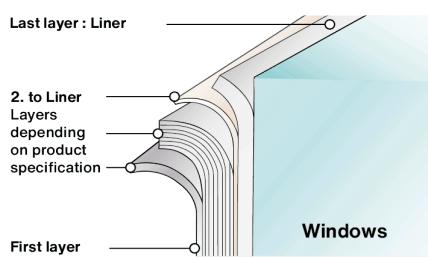
Warranty	4 years
Fire Resistance Rating	M1
Storage in recommended conditions	3 years
REACH / RoHS	Compliant
Widths Available	122 cm, 152 cm, 183 cm
Installation Type	Exterior
Color From the Outside	Grey
Length	30.5 m
Product Carbon Footprint (LCA)	0.93 kgCO ₂ e/m ²

Construction

- 1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- 2 High optical quality dyed 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** 60 µm

Details



Energy and environmental benefits⁰¹

 **Energy savings**
102.1 kWh/m²/year

 **Carbon footprint reduction**
32.3 kgCO₂/m²

 **Financial savings**
23 euros/m²/year



Access our energy savings calculator

Optical and solar properties

Pane type	No film	With Film	No film	With Film
UV Rejection (%)	25	99	40	99
Visible Light Transmission (%)	91	20	82	18
Visible Light Reflection - External (%)	8	37	11	37
Visible Light Reflection - Internal (%)	8	16	12	36
Solar Energy Reflection (%)	5	41	12	42
Solar Energy Absorption (%)	8	43	28	47
Solar Energy Transmission (%)	87	16	60	12
Total Solar Energy Rejected (%)	12	73	35	85
Infrared Rejection (780 - 2500 nm) (%)	16	80	16	87
Glare Reduction (%)	-	78	-	76
Shading Coefficient	-	0.3	-	0.23
g-value	0.88	0.27	0.65	0.15
U-value (W/m ² .°C)	5.8	5.8	1.1	1.1

Application advice⁰²

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 Advice

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.



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. The data in this information sheet is not contractual, SOLAR SCREEN reserves the right to modify the composition of its products at any time. Please refer to our warranties and general sales conditions.