Solar Screen

NICKEL 80 XC

Solar Control

Neutral - Exterior

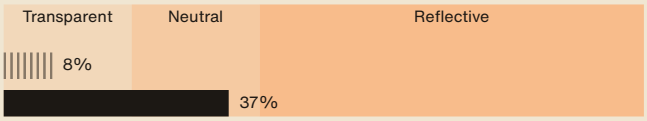
Description

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.

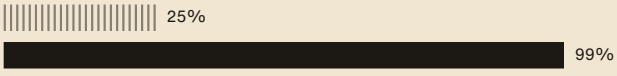
Certified B Corporation

Visible Light Transmission (%)

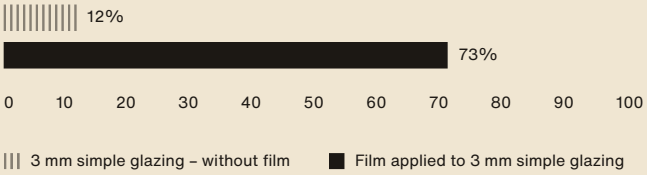
Visible Light Reflection - External (%)



UV Rejection (%)



Total Solar Energy Rejected (%)



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Characteristics

Warranty
Up to 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)
1.23 kgCO2e/m²

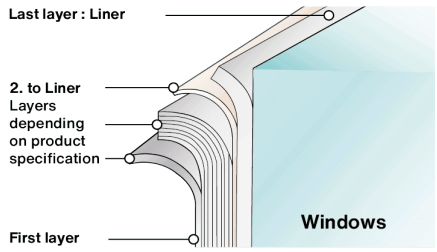
Construction

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 benefits[01]

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

	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**	**20**	**82**	**18**
Visible Light Reflection - External (%)	8	37	11	37
Visible Light Reflection - Internal (%)	8	16	12	36
Solar Energy Reflection (%)	5	41	28	42
Solar Energy Absorption (%)	8	43	12	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	-	0.17
g-value	**0.88**	**0.27**	**0.65**	**0.15**
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

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.
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