

Solar Screen

NS 50 dB29

Safety

Specialty - Anti High Frenquency

Description

The specific composition of different metal alloys in the NS 50 dB29 film significantly limits the passage of waves at all frequencies and provides a certain degree of sun protection to your windows.

Certifications

REACH / RoHS
Compliant

Fire Resistance Rating
M1

ASTM D4935 (EMI)
EMI attenuation: 29.3 dB @ 1 GHz

Certified B Corporation

View test videos on the safety film

Solar Screen

NS 50 dB29

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Specialty - Anti High Frenquency

Characteristics

Warranty
Up to 10 years

Fire Resistance Rating
M1

Storage in recommended conditions
3 years

REACH / RoHS
Compliant

ASTM D4935 (EMI)
EMI attenuation: 29.3 dB @ 1 GHz

Widths Available
152 cm

Installation Type
Interior

Color From the Outside
Champagne

Length
30.5 m

Product Carbon Footprint (LCA)
1.56 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
55 µm

Mechanical Properties

Tensile force at break
N/A

Elongation at break
N/A

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**	**47**	**82**	**43**
Visible Light Reflection - External (%)	8	29	11	30
Visible Light Reflection - Internal (%)	8	28	12	29
Solar Energy Reflection (%)	5	47	28	40
Solar Energy Absorption (%)	8	25	12	41
Solar Energy Transmission (%)	87	28	60	19
Total Solar Energy Rejected (%)	**12**	**64**	**35**	**51**
Glare Reduction (%)	-	48	-	43
Shading Coefficient	-	0.41	-	0.75
g-value	**0.88**	**0.36**	**0.65**	**0.49**
U-value (W/m².°C)	5.8	4.9	1.1	1.1

Application advice[01]

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.

Download the installation and maintenance advice

01 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.