



Solar  Screen

NS 50 dB29

Safety

Specialty - Anti High Frequency

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



View test videos on
the safety film

Characteristics



-  **Warranty**
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)**
1.26 kgCO₂e/m²

Construction

- Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- High optical quality dyed polyester with an IR-blocking metallic particle coating
- Bonding adhesive
- High optical quality polyester
- PS adhesive, polymerizes with glass within 15 days
- Protection PET release liner, disposable after installation

-  **Composition**
PET
-  **Thickness**
55 µm

Mechanical Properties

-  **Tensile strength at break**
N/A
-  **Elongation at break**
N/A

Optical and solar properties

Pane type	Single 3mm		Double Low-E	
	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	12	40
Solar Energy Absorption (%)	8	25	28	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/m ² .°C)	5.8	4.9	1.1	1.1

Application advice⁰¹

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. 0771) 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.