



# Solar Screen


## SILVER 470 C


Safety  
Security - Combination


### Description

Silver 470 C films are highly effective at reducing solar heat gain, whilst at the same time continuing to allow most natural light to pass through. Solar glare is greatly diminished and its one-way mirror aspect guarantees privacy from prying eyes, whilst affording a modern feel to the exterior of a building. A highly resilient film, it helps to secure your windows by ensuring that the glass does not shatter in the event of an impact or explosion. Complies with European Standard EN 12600.

### Certifications

 **REACH / RoHS**  
Compliant











 **EN 12600**  
2B2

 **Fire Resistance Rating**  
M1





View test videos on  
the safety film

## Characteristics

-  **Warranty**  
10 years
-  **Fire Resistance Rating**  
M1
-  **Storage in recommended conditions**  
3 years
-  **REACH / RoHS**  
Compliant
-  **EN 12600**  
2B2
-  **Widths Available**  
122 cm, 152 cm
-  **Installation Type**  
Interior
-  **Color From the Outside**  
Silver Medium
-  **Length**  
30.5 m
-  **Product Carbon Footprint (LCA)**  
2.52 kgCO<sub>2</sub>e/m<sup>2</sup>

## Mechanical Properties

-  **Tensile force at break**  
28 kg/cm
-  **Elongation at break**  
125%

## 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
<b>Visible Light Transmission (%)</b>	<b>91</b>	<b>30</b>	<b>82</b>	<b>28</b>
Visible Light Reflection - External (%)	8	44	11	43
Visible Light Reflection - Internal (%)	8	44	12	43
Solar Energy Reflection (%)	5	43	28	38
Solar Energy Absorption (%)	8	35	12	47
Solar Energy Transmission (%)	87	22	60	14
<b>Total Solar Energy Rejected (%)</b>	<b>12</b>	<b>68</b>	<b>35</b>	<b>50</b>
Glare Reduction (%)	-	68	-	66
Shading Coefficient	-	0.36	-	0.75
<b>g-value</b>	<b>0.88</b>	<b>0.32</b>	<b>0.65</b>	<b>0.49</b>
U-value (W/m <sup>2</sup> .°C)	5.8	5.1	1.1	1.1

## Construction

- 1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- 2 High optical quality polyester, with an IR-blocking metallic particle coating
- 3 Bonding adhesive
- 4 High optical quality polyester
- 5 Reinforced PS adhesive to accompany the elasticity of the film in case of impact, polymerizes with glass within 30 days
- 6 Protection PET release liner, disposable after installation

-  **Composition**  
PET
-  **Thickness**  
125 µm

## Application advice<sup>01</sup>

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

Safety film with reinforced PS adhesive, requiring a suitable application solution : Slide On (600-F02) or Film On (600-F0355) diluted at 2 cL/L of water, and a suitable safety squeegee (150-054 / 150-055 / 150-056). Do not clean for at least one month or apply stickers/adhesives to the film.



Download the installation and maintenance advice

<sup>01</sup> Advice based on glazed surface area up to 2.5 m<sup>2</sup>, 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.