



## Solar Screen

# CLEAR 12 C

## Safety

## Security - Protection

### Description

Clear12 C films help secure your windows by ensuring that the glass does not shatter, remaining transparent and retaining its overall integrity in the event of an impact, explosion or fire. Ideally suited to covering large glazed expanses, it complies with European Standard EN 12600.

### Certifications

-  **REACH / RoHS**  
Compliant
-  **EN 12600**  
1B1
-  **EN 356**  
P2A
-  **Fire Resistance Rating**  
M1



View test videos on  
the safety film

### Characteristics

 <b>Warranty</b>	10 years
 <b>Fire Resistance Rating</b>	M1
 <b>Storage in recommended conditions</b>	3 years
 <b>REACH / RoHS</b>	Compliant
 <b>EN 12600</b>	1B1
 <b>EN 356</b>	P2A
 <b>Widths Available</b>	122 cm, 152 cm, 183 cm
 <b>Installation Type</b>	Interior
 <b>Color From the Outside</b>	Transparent
 <b>Length</b>	30.5 m
 <b>Product Carbon Footprint (LCA)</b>	2.3 kgCO <sub>2</sub> e/m <sup>2</sup>

### Construction

- 1 Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- 2 100 µm high optical quality polyester
- 3 Bonding adhesive
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- 6 100 µm high optical quality polyester
- 7 Reinforced PS adhesive to accompany the elasticity of the film in case of impact, polymerizes with glass within 30 days
- 8 Protection PET release liner, disposable after installation

 **Composition** PET  **Thickness** 310 µm

### Mechanical Properties

 <b>Tensile strength at break</b>	195 MPa
 <b>Elongation at break</b>	125%

### Optical and solar properties

Pane type	No film	With Film	No film	With Film
<b>Visible Light Transmission (%)</b>	<b>91</b>	<b>82</b>	<b>82</b>	<b>74</b>
Visible Light Reflection - External (%)	8	12	11	16
Visible Light Reflection - Internal (%)	8	12	12	16
Solar Energy Reflection (%)	5	10	12	24
Solar Energy Absorption (%)	8	9	28	23
Solar Energy Transmission (%)	87	81	60	53
<b>Total Solar Energy Rejected (%)</b>	<b>12</b>	<b>20</b>	<b>35</b>	<b>35</b>
Glare Reduction (%)	-	16	-	10
Shading Coefficient	-	0.90	-	1.0
<b>g-value</b>	<b>0.88</b>	<b>0.80</b>	<b>0.65</b>	<b>0.65</b>
U-value (W/m <sup>2</sup> °C)	5.8	5.7	1.1	1.1

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

Vertical situation and for a standard glazed surface

<b>Clear Single Pane</b>	✓
<b>Tinted Single Pane</b>	✓
<b>Reflective Tinted Single Pane</b>	✓
<b>Clear Double Pane</b>	✓
<b>Tinted Double Pane</b>	✓
<b>Reflective Tinted Double Pane</b>	✓
<b>Gas-Filled Double Pane - Low E</b>	✓
<b>Stadip Ext. Clear Double Pane</b>	✓
<b>Stadip Int. Clear Double Pane</b>	✓

✓ 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.

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