



Solar  Screen

CLEAR 12 C (NEW)

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

-  **Warranty**
10 years
-  **Fire Resistance Rating**
M1
-  **Storage in recommended conditions**
3 years
-  **REACH / RoHS**
Compliant
-  **EN 12600**
1B1
-  **EN 356**
P2A
-  **Widths Available**
122 cm, 152 cm, 183 cm
-  **Installation Type**
Interior
-  **Color From the Outside**
Transparent
-  **Length**
30.5 m
-  **Product Carbon Footprint (LCA)**
2.3 kgCO₂e/m²

Mechanical Properties

-  **Tensile strength at break**
195 MPa
-  **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	95	40	99
Visible Light Transmission (%)	91	82	82	74
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
Total Solar Energy Rejected (%)	12	20	35	35
Glare Reduction (%)	-	16	-	10
Shading Coefficient	-	0.90	-	1.0
g-value	0.88	0.80	0.65	0.65
U-value (W/m ² .°C)	5.8	5.7	1.1	1.1

Construction

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

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

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

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

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.