



Solar Screen

SILVER 480 C

Safety

Security - Combination

Description

Silver 480 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. Conforms to 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 |
|  | Length 30.5 m |
|  | Product Carbon Footprint (LCA) 2.21 kgCO2e/m ² |

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

Mechanical Properties

| | |
|---|---|
|  | Tensile strength at break 220 MPa |
|  | Elongation at break 125% |

Optical and solar properties

| Pane type | No film | With Film | No film | With Film |
|---|-------------|------------|-------------|-------------|
| UV Rejection (%) | 25 | 99 | 40 | 99 |
| Visible Light Transmission (%) | 91 | 18 | 82 | 17 |
| Visible Light Reflection - External (%) | 8 | 60 | 11 | 57 |
| Visible Light Reflection - Internal (%) | 8 | 58 | 12 | 57 |
| Solar Energy Reflection (%) | 5 | 56 | 12 | 44 |
| Solar Energy Absorption (%) | 8 | 33 | 28 | 49 |
| Solar Energy Transmission (%) | 87 | 11 | 60 | 7 |
| Total Solar Energy Rejected (%) | 12 | 80 | 35 | 55 |
| Glare Reduction (%) | - | 83 | - | 79 |
| Shading Coefficient | - | 0.2 | - | 0.66 |
| g-value | 0.88 | 0.2 | 0.65 | 0.43 |
| U-value (W/m ² .°C) | 5.8 | 5.1 | 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

Safety film with reinforced PS adhesive, requiring a suitable application solution : Slide On (600-FO2) 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.

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