



Solar  Screen

## NEUTRAL 440 C

Safety  
Security - Combination

### Description

Neutral 440 C films are highly effective at reducing solar heat gain, whilst at the same time continuing to allow some natural light transmission. They help noticeably reduce solar glare, their tinted aspect helping convey a touch of colour and customization to the external aspect of a building. Designed to act as a security film, it provides protection by holding shattered glass in place in the event of an impact.

### Certifications



**REACH / RoHS**  
Compliant



**EN 12600**  
2B2



**Fire Resistance Rating**  
M1



View test videos on  
the safety film

## Characteristics

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

## Construction

- Scratch-resistant hard coating providing surface protection, durability, and ease of cleaning
- High optical quality polyester
- Bonding adhesive
- 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**  
125 µm

## 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>63</b>   | <b>82</b>    | <b>57</b>   |
| Visible Light Reflection - External (%) | 8           | 11          | 11           | 16          |
| Visible Light Reflection - Internal (%) | 8           | 10          | 12           | 16          |
| Solar Energy Reflection (%)             | 5           | 7           | 28           | 23          |
| Solar Energy Absorption (%)             | 8           | 31          | 12           | 35          |
| Solar Energy Transmission (%)           | 87          | 62          | 60           | 42          |
| <b>Total Solar Energy Rejected (%)</b>  | <b>12</b>   | <b>37</b>   | <b>35</b>    | <b>40</b>   |
| Glare Reduction (%)                     | -           | 38          | -            | 31          |
| Shading Coefficient                     | -           | 0.80        | -            | 1.0         |
| <b>g-value</b>                          | <b>0.88</b> | <b>0.70</b> | <b>0.65</b>  | <b>0.65</b> |
| U-value (W/m <sup>2</sup> .°C)          | 5.8         | 5.8         | 1.1          | 1.1         |

## 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.  
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