



Exterior

Interior

# Solar Screen

## CLARITY 245 XC

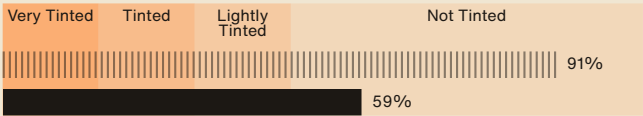
Solar Control  
Transparent - Exterior

### Description

Clarity 245 XC allows a generous amount of natural light to pass through while effectively controlling solar heat gain. Its transparent appearance preserves the building’s original look and ensures a bright, comfortable interior, making it an excellent choice for high-quality exterior applications where light and aesthetics are a priority.



### Visible Light Transmission (%)



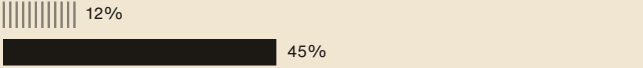
### Visible Light Reflection - External (%)



### UV Rejection (%)












### Total Solar Energy Rejected (%)



0 10 20 30 40 50 60 70 80 90 100

||| 3 mm simple glazing - without film ■ Film applied to 3 mm simple glazing

## Characteristics

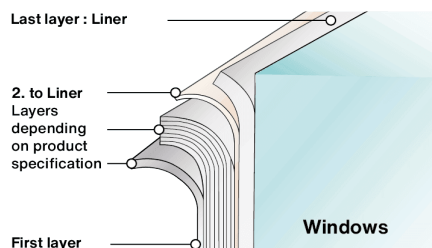
-  **Warranty**  
10 years
-  **Fire Resistance Rating**  
M1
-  **Storage in recommended conditions**  
3 years
-  **REACH / RoHS**  
Compliant
-  **Widths Available**  
122 cm, 152 cm, 183 cm
-  **Installation Type**  
Exterior
-  **Color From the Outside**  
Neutral
-  **Length**  
30.5 m
-  **Product Carbon Footprint (LCA)**  
1.16 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, with an IR-blocking metallic particle coating
- Bonding adhesive
- High optical quality polyester
- PS adhesive, polymerizes with glass within 15 days
- Protection PET release liner, disposable after installation

-  **Composition**  
PET
-  **Thickness**  
65 µm

## Details



## Energy and environmental benefits<sup>01</sup>

-  **Energy savings**  
61.2 kWh/m<sup>2</sup>/year
-  **Carbon footprint reduction**  
19.4 kgCO<sub>2</sub>/m<sup>2</sup>
-  **Financial savings**  
14 euros/m<sup>2</sup>/year



Access our energy savings calculator

## 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>59</b>  | <b>82</b>    | <b>53</b>   |
| Visible Light Reflection - External (%) | 8           | 17         | 11           | 14          |
| Visible Light Reflection - Internal (%) | 8           | 17         | 12           | 14          |
| Solar Energy Reflection (%)             | 5           | 25         | 12           | 30          |
| Solar Energy Absorption (%)             | 8           | 32         | 28           | 39          |
| Solar Energy Transmission (%)           | 87          | 43         | 60           | 31          |
| <b>Total Solar Energy Rejected (%)</b>  | <b>12</b>   | <b>45</b>  | <b>35</b>    | <b>63</b>   |
| Infrared Rejection (780 - 2500 nm) (%)  | 16          | 60         | 16           | 78          |
| Glare Reduction (%)                     | -           | 39         | -            | 33          |
| Shading Coefficient                     | -           | 0.58       | -            | 0.57        |
| <b>g-value</b>                          | <b>0.88</b> | <b>0.5</b> | <b>0.65</b>  | <b>0.37</b> |
| U-value (W/m <sup>2</sup> .°C)          | 5.8         | 5.1        | 1.1          | 1.1         |

## Application advice<sup>02</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

Use Slide On (600-FO2) or Film On (600-F0355) diluted at 2 cL/L of water for installation and cleaning. Do not clean for one month after installation or apply stickers/adhesives on the film. For external installations, apply silicone to the film perimeter to prevent oxidation. Please refer to the notice "New Warranty for External Films".



Access the installation and maintenance advice video

<sup>01</sup> Values based on a study carried out on an air-conditioned building located in Luxembourg, with a film applied on a low-E double glazing, facing East. The heating months considered are from October to March, and the cooling months from April to September. We consider an electric heating system of the heat pump type, with a production efficiency of 3.5 and an electric cooling system with an efficiency of 3. For more information, visit our online tool.

<sup>02</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.