

Installation Guidelines

for Security films



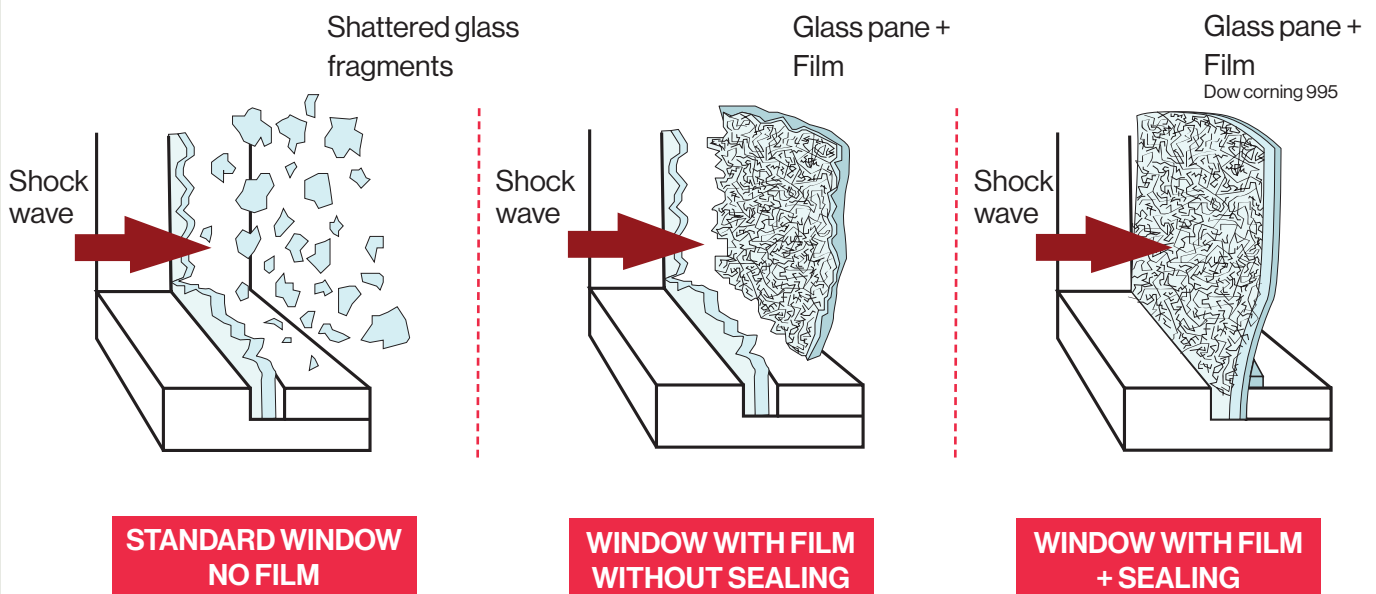
Why using a security film ?

To meet your security and protection requirements, choose our **Solar Screen security films**.

Their main purpose is to reinforce the strength of your glass and windows, making them more resistant to impact, intrusion attempts and adverse weather conditions.

The application of security film can significantly improve security and privacy while reducing the risk of injury, making it a suitable solution for a variety of situations, whether residential, commercial or industrial.

The choice of security film installation depends on the specific security and convenience requirements of each situation.



When security film applied to a pane of glass is subjected to a force, such as an impact, the film adheres firmly to the glass and its function is to hold the glass together and prevent it from breaking into potentially dangerous fragments.

The security film is specifically designed to absorb some of the energy from the impact, thereby reducing potential damage to the glass.

This makes the glass more resistant to impact and attempted break-in. By making windows more resistant to breakage and intrusion, security film can deter intruders and help improve the overall security of a building or property.

Important Information

The fundamental structure of a security film is based on two key elements: the **adhesive mass**, which provides a strong bond to the glass, and **the thickness of the film**, which enables it to resist impact for enhanced security performance.

We have made a specific installation guide because these two elements are two parameters that are different from classical window films.

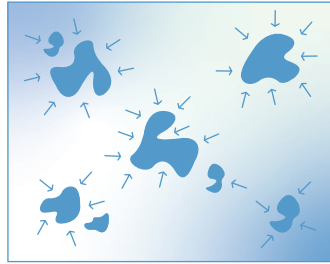
There are no bubbles immediately after installation, so why do they only become apparent on the next day?

Right after installation



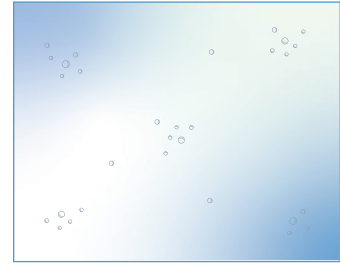
There is still 1% water (more or less 5µ of water layer under the film).

After 6 hours



Water gathers and concentrates. The result is the formation of «bubbles».

After 12 hours

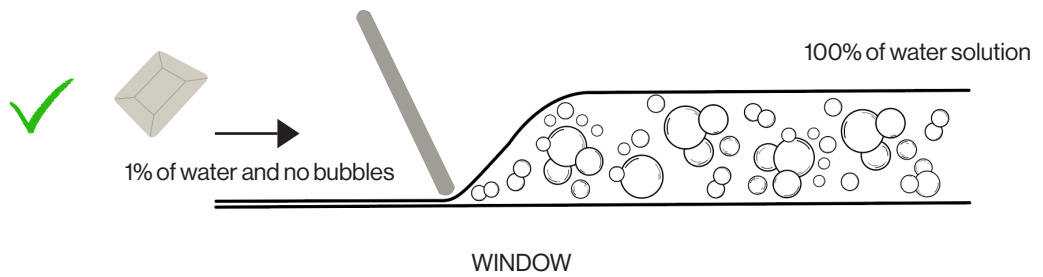


Water bubbles

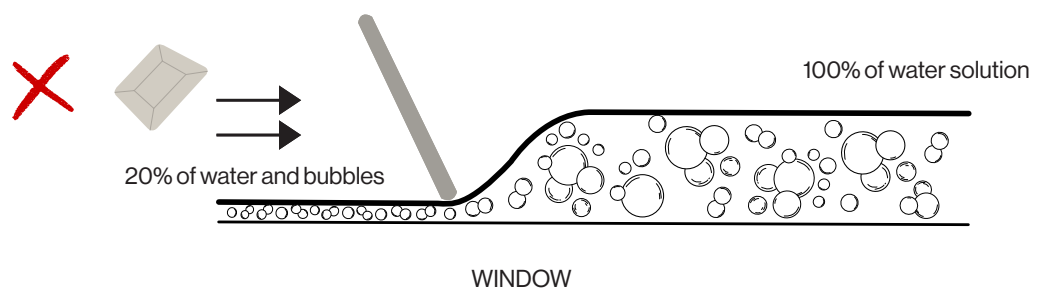
No panic ! The sun will dry it out.

In fact, a thicker film requires more work to squeegee out the water.

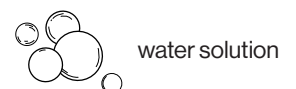
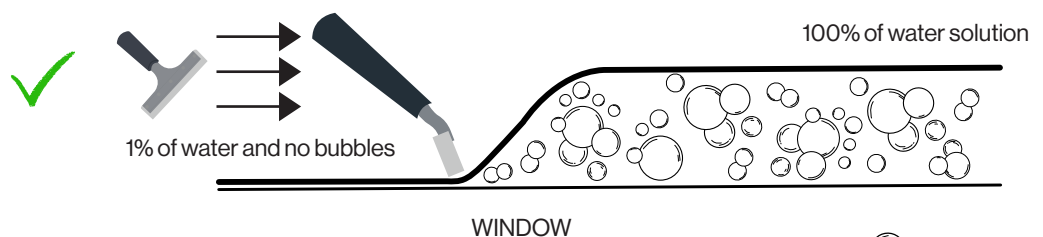
● Diagram 1: Application of a 50 µ solar film with a regular squeegee (150-015WT)



● Diagram 2: Application of a 310 µ security film using a standard squeegee (150-015WT)



● Diagram 3: Application of a 310 µ security film using a security film squeegee (150-055-B)



Cases Studies

The adhesive of the film requires a specific soap that is not too sliding, like solar control films.

In order for the adhesive to maintain its elasticity and adhesion at the moment of impact, it must polymerise as well as possible with its support, the glass. To achieve this, we recommend the use of **600-F0355 (only a small amount of soap)**, which does not contain greasy agents, lanolin or hand moisturisers such as those found in dishwashing detergents (Mir blue...), which should be avoided when applying security films. Lanolin is a greasing agent (found in some application fluids) which considerably reduces the performance of the film and automatically cancels its classification. Adhesion to glass is part of the strength of security films.

The application of a security film with a standard squeegee (150-015WT)



The application of a security film with a standard squeegee (150-015WT) using both hands



The application of a security film with a safety film squeegee (150-055-B), using both hands



Applying a thick security film with a normal squeegee

Application of a security film: on the left with a normal squeegee and on the right with a safety film squeegee



Good information to know

Is it normal for bubbles to appear after installation?

Water bubbles may appear 6 hours after installation, but don't worry, they will disappear depending on your exposure to the sun. On average it takes several weeks.

Can I cut the film during the installation on the glass?

No, a security film is cut on a flat table before installation.
We recommend to pre-cut the film, we have a service here at Solar screen that can pre-cut your film.

Can I put the film under glazing bead ?

If you have the opportunity, it is better to do so for better protection.
You can disassemble the frames, but please be careful, especially if they are made of aluminium, as they can be difficult to dismantle. If your frame is made of wood, it is advisable not to try to dismantle it. In such cases, we recommend the use of silicone (600-995) as an alternative solution.

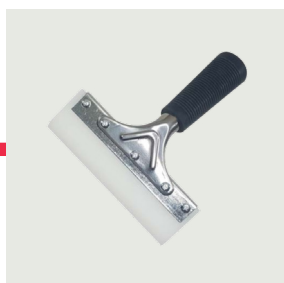
Recommended tools

For safety film (equivalent to the thickness of Clear 4 C)



600-F0355

Film-On - Slip Agent for Window Film and PPF



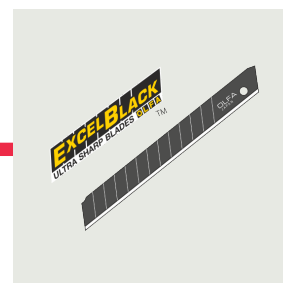
150-055-S

Power Handle - 15S
+ Shaped Squeegee
- 15 cm



150-055R-S

Squeegee Blades
(Shaped) - for Power
Handles



120-EXCELBLACK

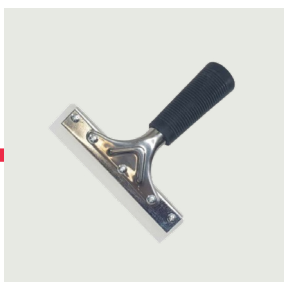
OLFA® 9 mm Black
Ultra - Sharp Snap - Off
Blades

For security films (beyond the thickness of a Clear 4C)



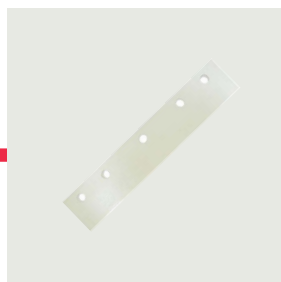
600-F0355

Film-On - Slip Agent for Window Film and PPF



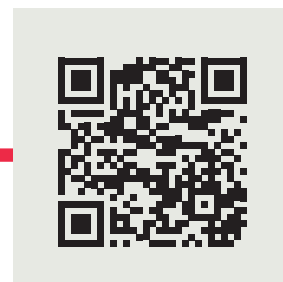
150-055-B

Power Handle - 15B
+ "Block" Squeegee
- 15 cm

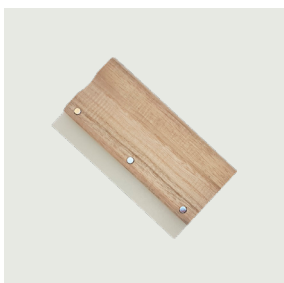


150-055-B

Squeegee Blades
(Shaped) - for Power
Handles



**CUT YOUR FILMS TO
EXACT DIMENSIONS :
2D CUT SERVICE**



150-054

Woody Grip
Squeegee - Ultimate
Tool for Safety Films



150-054R

Pressure Squeegee
for Woody Grip