

Solar Control Window Film Albeedo
IRA2J700

Apply Horizontally
Interior Surface

(Published in March 2017)



Albeedo™

Installation Manual

- * This is the standard installation manual for our solar control window film IRA2J700 known as Albeedo. The film is to be applied horizontally to the inside surface of a window.
- * Please refer to this manual when you install the film on a window.

Installation procedure

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| 1. Preparation | 5. Film application and temporary squeegee |
| 2. Plastic drop cloth for protection | 6. Film edge trimming |
| 3. Cleaning the window glass | 7. Final squeegee work |
| 4. Measuring the window glass and cutting the film to size | 8. Finishing work |
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1. Preparation

This film must only be applied to the interior surface of the window glass. Before starting installation, check that the conditions of the window glass, sash, and caulking are suitable for film installation.

Prepare the following installation tools in advance.

Metal scraper / Rubber wiper / Squeegee / Plastic squeegee / Paper towel / Plastic drop cloth / Tape measure / Application solution (Water and neutral detergent) / Pump sprayer / Masking tape / Edge guide tool (or Set square) / Cutter knife / Tool belt / Plastic bag

Preparing the application solution

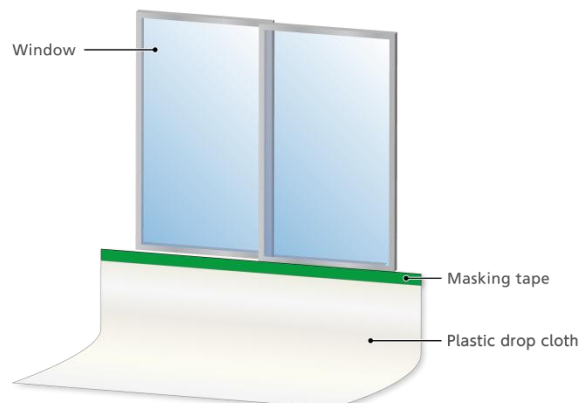
Add 1 to 3 milliliters of neutral detergent to 1 liter of water (concentration: 0.1 to 0.3%). Spray the application solution on both the glass surface and the sticky side of the film to ensure the entire film bonds uniformly with the glass.

- A room temperature of 5 to 35°C is recommended for installing the window film. Particularly in winter, conduct the installation work in an environment where the temperature is 5°C or higher to avoid insufficient evaporation of remaining water or accidental misalignment of the film after installation.
- It is recommended to perform installation during hours without direct sunlight. Direct sunlight quickly dries the application solution and causes the generation of air bubbles in it.

2. Plastic drop cloth for protection

Place a plastic drop cloth on the area where water may drip or splash during installation work.

* Move fixtures, documents and the like to a safe distance.

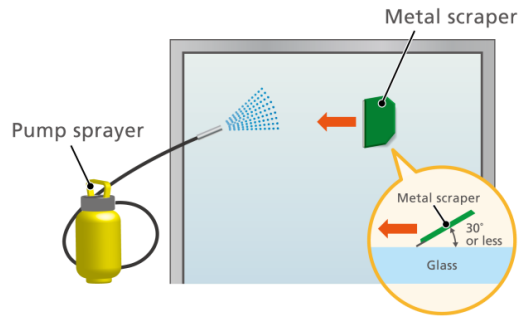


3. Cleaning the window glass

Spray the application solution over the entire surface of the glass. Using a metal scraper, remove solid particles from the surface of the glass.

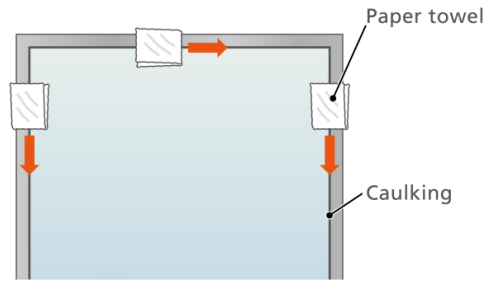
Hold the scraper at an angle of 30 degrees or less against the glass surface to avoid scratching it.

Cleaning is complete when grit can no longer be seen and the scraper moves smoothly.



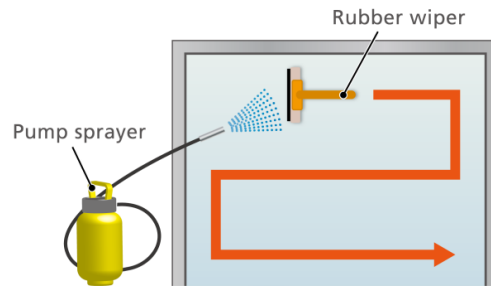
* For tempered glass, heat reflective glass, or fire protection and fireproof glass, use a paper towel instead of a metal scraper to wipe it.

Wipe dirt and stains off the edges of the glass, sash, and caulking using a paper towel.



* Do not use a towel or tissue paper that tends to leave fibers.

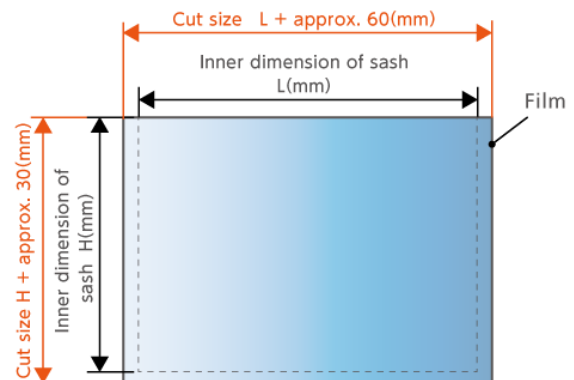
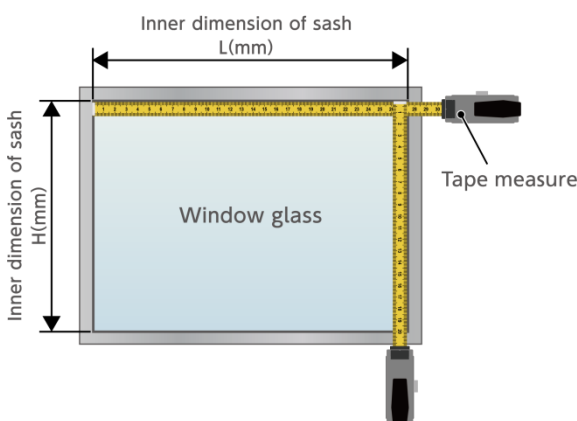
Spray the application solution over the entire surface of the glass again, and then wipe the dirt off using a rubber wiper.



4. Measuring the window glass and cutting the film to size

Measure the size of the glass onto which the film is to be applied. This film is to be applied horizontally. Cut the film approximately 30 mm wider than the inner dimensions of the sash.

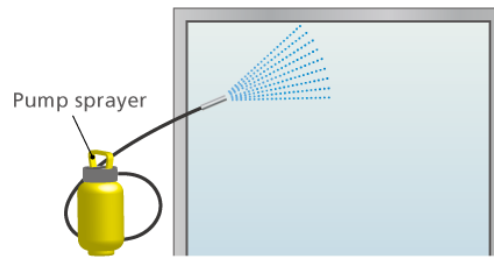
If the glass is larger than the film, splice this film with additional pieces of film. (Refer to 7. Final squeegee work)



5. Film application and temporary squeegee

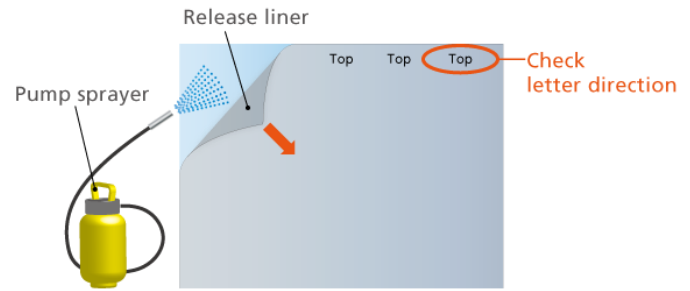
Spray a generous amount of the application solution over the entire surface of the glass again.

* The shortage of the application solution causes the film sticking to the glass surface and causes adhesive spots.

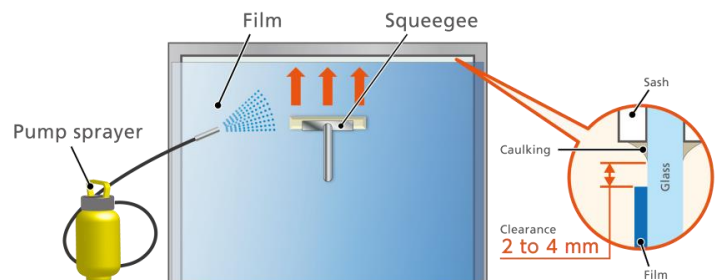


As you pull the release liner off the film, spray the adhesive surface with the application solution.

* The film has a top and a bottom side. "Top" is printed on release liner, and the mark indicates the top side.



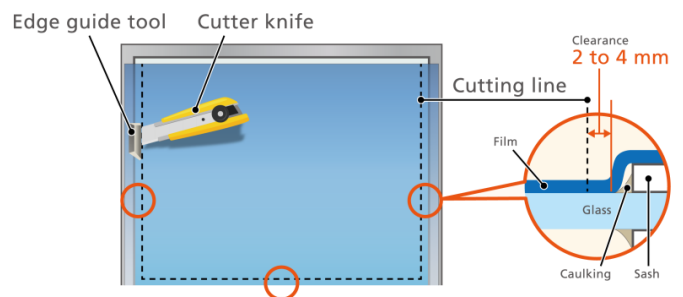
Apply the film onto the glass, and then spray the application solution over the entire (hard-coated) surface of the film. While checking the clearance between the top side of film and the caulking, position the film, and then use a squeegee to place the film against the glass so that the film cannot move or make wrinkles.



6. Film edge trimming

Put the edge guide tool (or set square) against the glass at a right angle. Trim the film edge by moving a cutter knife together with the edge guide tool. Be sure to have a 2- to 4- mm clearance between the film and the caulking.

* Be careful not to scratch the glass surface.



7. Final squeegee work

[Process of removing excess water]

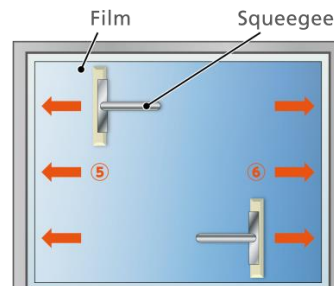
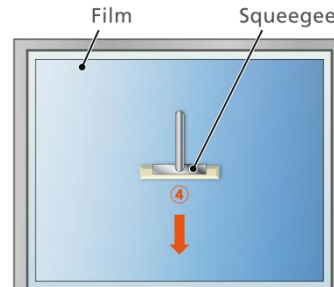
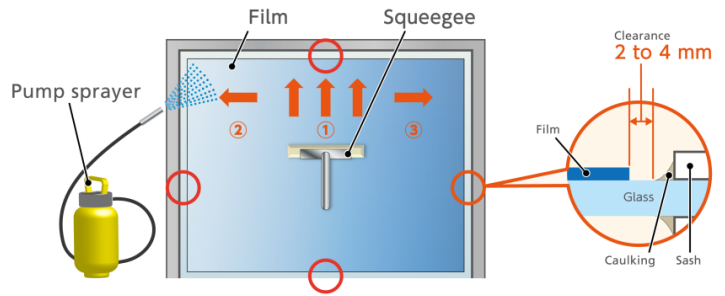
Spray the application solution over the entire surface of the film. Push excess water out as shown in the diagram on the right.

Repeat steps ① to ⑥ three times.

* Use a hard rubber-type squeegee.

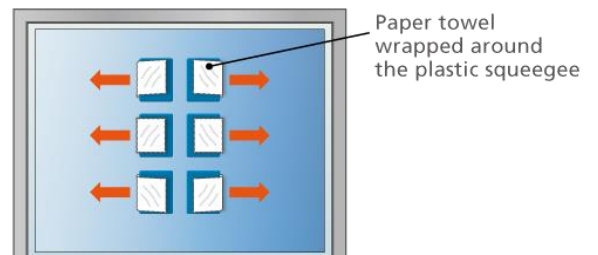
When using a squeegee, be sure to move it in the vertical and the horizontal directions to remove water.

* Never move the squeegee in radial direction nor back and forth because these moves do not remove excess water completely.



Wrap a paper towel around a plastic squeegee. Use this squeegee to remove all excess water remaining between the glass and the film.

In order to prevent causing an edge of the film lift, tightly press the edge to remove water completely.

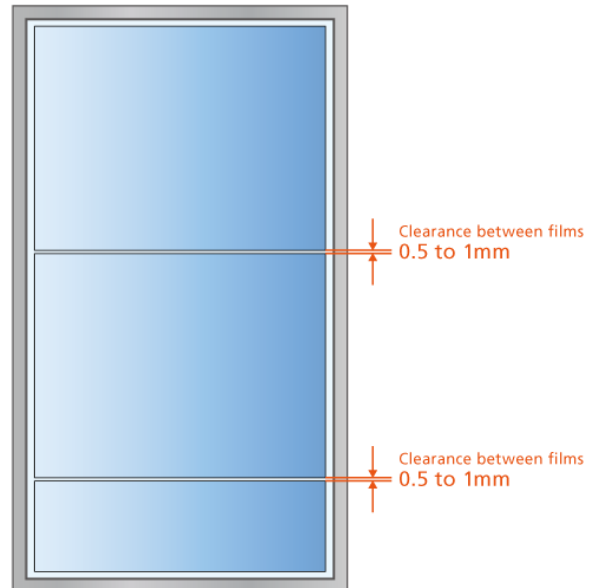


[How to splice films]

If the height of the glass is greater than the width of the film, splice this film with additional pieces. Start applying the film at the top of the window. Leave a margin of 0.5 to 1 mm between films to avoid overlapping.

After that, repeat steps 4 to 7.

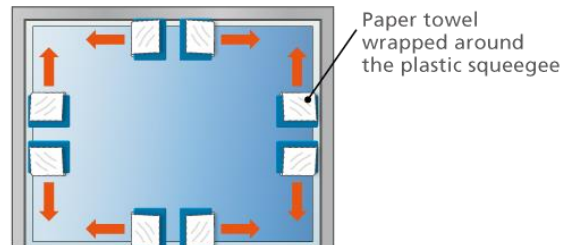
* This film has a multilayer structure. When splicing films, do not let film edges hit each other repeatedly.



8. Finishing work

Wrap a paper towel around a plastic squeegee. Use the squeegee to wipe the area around the film edges to completely remove all excess water.

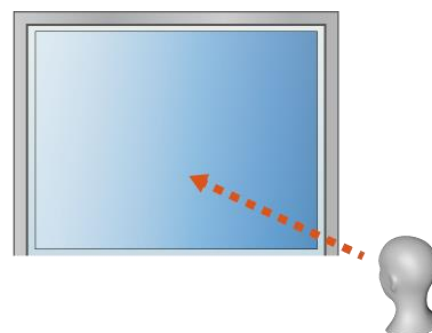
* This film has a multilayer structure. Note that scratching an edge of the film may cause delamination.



9. Cleaning and inspection

Visually check if there are any foreign materials trapped in between the film and the glass. If there are, carefully peel off the film from the corner while spraying the application solution over the glass surface. Remove the materials and spray the adhesive surface with the application solution again. Then, replace the film and go back to the procedure 7. Final squeegee work.

Check the corners of the film to ensure that the film is bonded tightly with the glass. If it is not, press the film against the glass again with squeegee.



This completes the installation.

- Curing period

- Some time after installation of the film, small water blisters may appear between the film and the glass. This is not abnormal because they disappear as water evaporates. The curing time until water blisters disappear is usually about a month. In winter or in places where condensation is likely, it may take about two months.

- Do not touch the film during the curing period.

