

**ACE *DIY***  
***Window Protection***  
***Self-Installation Kit***



**ACE *DIY***  
***Installation***  
***Instructions***

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## **ACE/Security Laminates**

### ***Do-it-yourself***

### ***Installation Instructions***

This manual is intended to be used in conjunction with the instructional CD enclosed with this ACE/Security Laminates self installation kit. It is recommended that you watch the CD in its entirety before beginning the installation process.

### ***Before You Begin***

Ensure you have all the necessary tools ready before beginning installation.

# Glass Protection Self-Installation Kit

## **Tools Included:**

**1** Spray Bottle

**2** Slip Agent

## **Tools not included:**

**3** Razor (for cleaning the window)

**4** Window Squeegee

**5** Blue Max Power squeegee

**6** Bumping tool (5 way tool) Utility knife

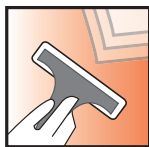
Measuring tape / ruler

Lint free paper towels

(blue shop towels are recommended)

Distilled / filtered water





## ***Pre-Installation Site preparation***

- 1.** Do not install our products on windows that are damaged (cracked, scratched), etched, textured or frosted. If the window already has solar film applied, this must be removed before installation of ACE products.
- 2.** Check the size of the window. If the window is larger than 3-4 feet (1-1.25 metres), it is recommended to install the film with a second person to help you hold the sheet of film when you are preparing to remove the release liner.
- 3.** Ensure you have a clean environment to work in. Minimize dust as much as possible by blocking your air vents and turning off any ceiling fans in the room that can circulate dust in the air. In addition, turning down your thermostat ensures that your furnace fan will not come on during installation.

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4. Avoid installing the film on windows that are in direct sunlight or are hot due to reflected sunlight. This can lead to water spots that are visible in the final installation.
5. Generally, you will need approximately 3 feet (1 metre) of space in front of the window to install the laminate. In addition, all blinds and window treatments should be removed before installation of the film.
6. Since you will be spraying the window with slip solution (a mix of distilled water and slip agent) it is recommended to use a drop cloth under the window to protect furniture and floors. Turn off and unplug any electrical devices in the proximity of the window to avoid damaging the equipment.
7. Ensure you have all the necessary tools ready before beginning installation.



## ***Slip Solution***

The correct mix ratio of slip solution is important to ensure proper installation of the film. The slip solution is a mixture of distilled or filtered water and slip agent. It is important not to use tap water since it can contain certain minerals and salts that can affect the final appearance of the laminate.

### ***Mixture Instructions:***

Add half a capful of the slip agent into the spray bottle and fill the with distilled/filtered water.

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## *Cutting the Film*

- 1.** Accurate window measurements are essential for a correct ACE/Security Laminates installation.
- 2.** It is necessary to leave a gap of 1/16" - 1/8" (1.5mm - 3mm) around the perimeter of the window. This small gap allows the film to expand in hotter temperatures. This small gap does not affect the integrity of the film. If you install the film flush to the window frame or rubber gasket, the film may not lay flat on the glass (referred to as a finger).
- 3.** Measure the glass surface of the window. If the window has rubber gaskets, measure from one gasket to the other. If the window does not have rubber gaskets, measure from where the window meets the frame. Subtract 1/8" (3mm) from both the width and height measurements to allow for the gap on all four sides.





4. Place the film on a large flat surface with the release liner facing down (located on the inside curl of the film). Protect the cutting surface by using a piece of commercial carpeting or cardboard. Using a utility knife and a straight edge/ruler cut the film to the measured size.

## *Cleaning the Window*

1. Remove any tint, decals, signs, and stickers that are on the window to be laminated. The film must be applied directly to the bare glass surface.
2. Spray the glass thoroughly with the slip solution. Proceed by cleaning the window with the razor. Be careful not to jam the blade into the window gasket. Start at the top and work your way to the bottom.
3. Spray the window again and squeegee from the top of the window to the bottom.



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4. Wipe the frame with a lint free towel to remove the excess slip solution. There is no need to wipe the glass...it is already clean...wiping the glass at this time can introduce dust and lint onto the window.

### ***Film Application***

1. Wet the glass thoroughly with the slip solution.
2. Spray the release liner and your fingers to reduce static electricity.
3. It is important not to touch the adhesive with dry fingers once the release liner has been removed. This will result in finger prints that will be visible when installed.
4. Begin peeling the release liner from the film. Spray the exposed adhesive with slip solution.
5. Apply the film to the glass and position it so that it is centred on the glass with equal gaps on all edges.





6. Spray the surface of the newly installed film once it is positioned on the glass. This reduces the friction between the laminate and the power squeegee.
  
7. Use the Blue Max power squeegee to start to push the water out from behind the film. Use light strokes and work from the top to the bottom.
  
8. Use the Blue Max power squeegee again, this time applying more pressure to the glass surface in order to remove excess water from behind the film and glass surfaces.

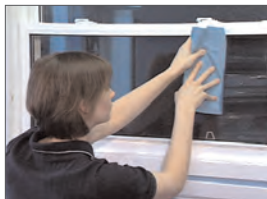


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## **Final Step - Bumping**

- 1.** Use the 5 way tool and wrap it in a lint free towel to protect both the film and absorb the excess slip solution. With firm pressure, begin fl to the left or right of the window. Push out towards the edge any remaining moisture from between the glass and film. Make sure you continue over the edge of the film to absorb the remaining moisture and prevent it from being drawn back under the film. Change the towel position frequently to ensure you don't mark the film's surface.
- 3.** Inspect the film for any areas where the film does not lay flat on the glass. This is referred to as a finger. If a finger appears, continue to use the 5 way tool wrapped in a lint free towel and apply pressure to the area towards the edge of the film.
- 4.** Wipe the excess moisture from the sill and frame.

**Your installation is complete.**





## *Maintenance and Cleaning*

Depending on the exposure to sunlight and amount of moisture left behind after bumping, the film can take between 30 - 60 days to fully cure. During this curing process, excess moisture (which can resemble small pockets of water or haziness) will disappear and the film should appear clear. If small pockets of water do form, do not pierce them as this will create an unsightly hazy appearance around the hole.

During this curing time, do not wash the window. After the curing time, windows can be washed using non-abrasive materials such as ammonia, water/alcohol and soft paper towel, cloths or squeegees.

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***Thank you for purchasing your  
ACE Self Installation Kit.***

**The ACE Self Installation Kit is sold to you under the terms and conditions of the Disclaimer and Warranty attached to this letter, which we invite you to read carefully. By accepting the delivery of your Self Installation Kit, you are bound by the terms and conditions of our Disclaimer and Warranty attached and you fully agree with all these terms and conditions. IF YOU DO NOT AGREE WITH THE TERMS AND CONDITIONS OF THE ATTACHED DISCLAIMER AND WARRANTY, YOU MUST RETURN THE PURCHASED ITEMS ALONG WITH PROOF OF PURCHASE TO THE ADDRESS BELOW WITHIN 10 DAYS OF RECEIPT FOR A FULL REFUND.**

ACE/Security Laminates Inc.  
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## Warranty

ACE/Security Laminates Do It Yourself Kit is sold under the following agreement with its customer:

Subject to the terms and conditions herein, ACE/Security Laminates will replace defective products at no cost to its original customer if damaged during shipping. In order to proceed with a warranty claim, the shipment must be marked damaged and returned in good order and in its original box to ACE/Security Laminates within TEN (10) DAYS OF THE RECEIPT OF THE PRODUCTS BY THE CUSTOMER together with the original dated sales receipt and a written explanation of the defect.

ACE/Security Laminates' obligation is limited to the replacement of the product. Returned goods that are damaged, that contain missing parts or tools and/or that are not in their original state for any reason whatsoever will not be eligible for refund.

ACE/Security Laminates will not offer any warranty after the expiry of the ten (10) days delay. All claims shall be sent to the following address:

Customer Support  
CenterACE/Security Laminates Inc.  
200 Isabella Street, Suite 500  
Ottawa, Ontario K1S 1V7

Any inquiries regarding the warranty, disclaimer or the installation of ACE/Security Laminates, should be directed at our Customer Support Centre at the address stated above, by email at [diy@usace.com](mailto:diy@usace.com) or by phone at 1-800-290-6512.

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ACE/Security Laminates does not warrant that its products are break-in resistant, bullet resistant or bomb resistant. ACE/Security Laminates assumes no liability for damages to persons or property arising as a direct or indirect result of the use or inability to use any products or instructions offered. The customer agrees to take full responsibility for any damages (including consequential and incidental damages) if incurred. No warranties are expressed or implied. There are no warranties of fitness for application for a particular purpose or merchantability applicable to the products. In no event does ACE/Security Laminates warrant the safety or the effectiveness of the products. In no event shall ACE/Security Laminates be liable or responsible for any loss or damage, direct, incidental or consequential.

ACE/Security Laminates is under the assumption that its customers are of sound mind, can read and interpret English and that the customer assumes all responsibility for purchase, safe, proper and legal use of

the products they purchase. Point of sale is Ottawa, Ontario, Canada. Any legal issues brought forth against ACE/Security Laminates will be governed by the laws of the Province of Ontario, Canada. Any legal proceedings will be held in the city of Ottawa, Ontario, Canada. This disclaimer and warranty is a legally binding contract between ACE/Security Laminates and its paying customers.

THIS WARRANTY PROVIDES CERTAIN LEGAL RIGHTS AND THERE MAY BE OTHER RIGHTS WHICH MAY VARY FROM JURISDICTION TO JURISDICTION. SOME JURISDICTIONS MAY NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS AND/OR EXCLUSIONS MAY BE INAPPLICABLE.

Any inquiries regarding the warranty, disclaimer or the installation of ACE/Security Laminates, should be directed to our Do-it-Yourself Center at the address stated above, by email at [diy@usace.com](mailto:diy@usace.com) or by phone at 1-800-290-6512.

