

4walls[®]

DIGITAL WINDOW FILM INSTALLATION INSTRUCTIONS

(For Polyester & Polycarbonate Window Films)

NOTE TO INSTALLER BEFORE YOU BEGIN:

- **OPEN** and thoroughly inspect the product for defects.
- **CONFIRM** that this is the correct product for this installation.
- **VERIFY** that the dimensions of the product correspond to those of the installation space.
- **CHECK** the alignment of the pattern across panels prior to hanging.
- **ASSESS** walls for bowing, sagging or uneven surfaces as these may cause misalignment.
- **STOP** immediately and contact 4walls if any discrepancy is discovered.

- This is a custom made product and therefore its installation requires a higher attention to detail than installation of standard wallcovering.
- We strongly recommend laying out all mural panels prior to installation. This will help determine the best starting point and help detect any problems that may arise during installation.
- All seams are designed to be double-cut. Please take care when matching the pattern at a seam to accommodate this feature.
- Custom murals are shipped with unprinted selvage around all edges that requires trimming during installation.
- These instructions are designed as reference only. They should never be used as a substitute for an experienced film installer.

INSTALLATION DIAGRAM

An Installation Diagram illustrating the appropriate sequence of panel installation is included with the finished goods. The wallcovering must be installed in strict accordance with this diagram.

If the Installation Diagram is missing, stop and contact 4walls immediately to receive a replacement document.

EQUIPMENT

- Tape Measure
- Squeegee
- Edge guide tool
- Trimming knife
- Pressure sensitive tape
- Razor scraper
- Paper towel (a lint free towel is best)
- Application Solution in Spray Container
(Purchase a ready-made application solution or create your own wetting solution by adding 5 drops (a 1 second bottle squeeze) of very mild detergent (baby shampoo or dish detergent such as "Joy") into a 32oz spray bottle filled with water. NOTE: Do not use hand soap with lotion or aloe.

COMPLETELY CLEAN WINDOW

1. Place absorbent cloth on floor under the windows to collect excessive window solution.
2. Wash window with solution and squeegee.
3. Wet window with solution and scrape entire surface with razor scraper to remove any dirt particles.
4. Wash and squeegee again.
5. Wipe edges carefully with paper towel.
6. Make sure that all loose dirt is removed.
7. Cleaning the window completely and thoroughly is the single most important step.

FILM PREPARATION

1. Take the film out of the box.
2. Measure window glass from inside the frame.
3. Film width will be 1 - 2" wider than window.
4. Soak window thoroughly with solution.
5. Have assistant hold cut film, or place film against solution soaked window with release liner facing the installer. The solution on a window will hold film in place (with SR coated polyester film do not use wet window to hold film).

RELEASE LINER REMOVAL

NOTE: Polycarbonate film has release liners on both sides of the film; Polyester film only has a liner on the adhesive side.

The films are coated with pressure sensitive adhesive which must be kept clean. The adhesive is protected with a release liner and during application the release liner must be removed. Protect the film and exposed adhesive during the entire installation procedure. Do not let it touch anything but the glass on which it is to be installed.

1. Apply pressure sensitive tape on one side of an upper corner of the film. Place a second piece of tape on same corner on the reverse side of film (see Figure A)
2. Be careful not to let exposed tacky surfaces of the tape touch each other.
3. Holding one piece of tape in each hand, pull the pieces of tape apart to separate the release liner from film.
4. As you pull the liner off the film, begin to spray the adhesive surface with solution, completely soaking exposed adhesive. Continue pulling down on clear release sheet while spraying solution on adhesive. Solution will neutralize adhesive, preventing it from sticking to anything. Once initial removal of liner begins, try to pull it down evenly across the film (see Figure B). Discard release liner safely if using a scratch resistant WINCOS film. If not keep release liner for use as a mask during squeegee process.
5. With adhesive surface completely exposed, spray one final time with solution to insure that 100% of adhesive is wet.

FILM APPLICATION

1. Hold film at uppermost corners being careful not to allow film to touch floor or any other surface, place film on window with adhesive side against glass (see Figure C).
2. The application solution acts as a lubricant making the window surface slippery. You can now slide the film so that one edge of film is 1 - 2mm from one side of window (see Figure D). Lift film if necessary to remove large wrinkles or bubbles. (For ease of installation the edge you select should be the one you favor, i.e. right side for right-handed people, left side for left-handed people. If fitted correctly this edge will not have to be trimmed. Other edges of the film should overlap top, bottom, and opposite edge of window.)
3. Spray the surface side of the film facing you with solution. This acts as a lubricant for the squeegee.
4. Beginning at the center of window, squeegee once to right side of window (see Figure E). Going back to the center, squeegee across to left hand edge of the window, then squeegee the window in straight, smooth strokes working from center out to the edges of the window until all excess application solution has been squeegeed out from under the film and film is lying flat. Note: the squeegee will not float across a dry surface, so re-lubricate with application solution as needed. Please be aware that film can be scratched if a hard squeegee is used.

FILM TRIMMING

1. Butt the edge guide tool against window frame, perpendicular to glass (see Figure F).
2. With trimming knife and new sharp blade, trim excess film using edge guide tool to provide a narrow straight line border. Trim the bottom and side before top, so that trimmed film will not get in your way.
3. Start trimming operation from corner but do not finish cutting into corner.
4. Remove and discard all film scraps.

FINAL SQUEEGEE

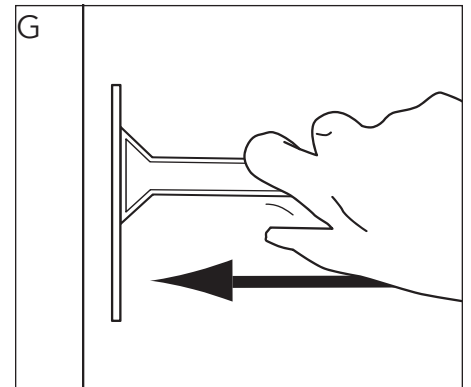
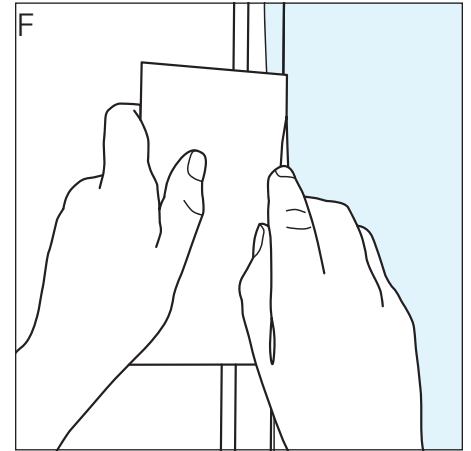
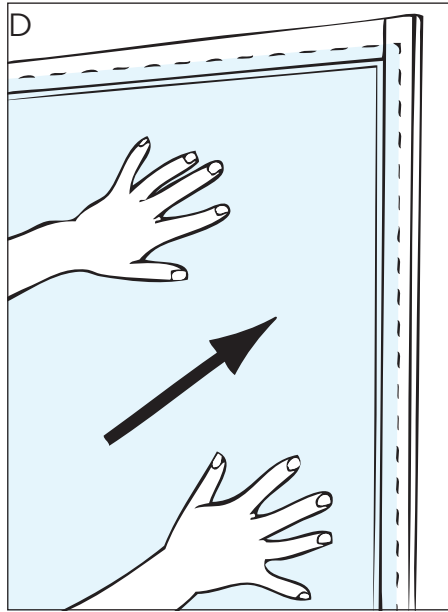
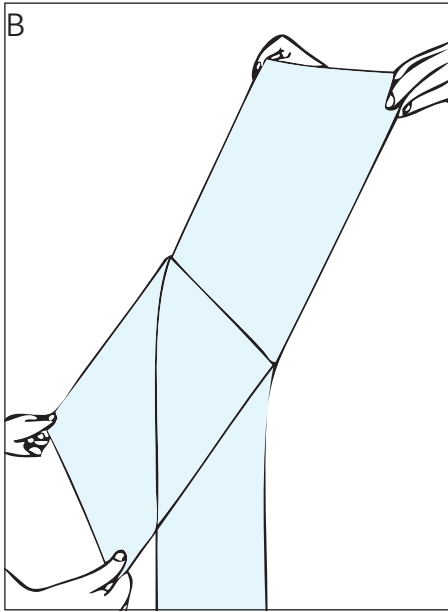
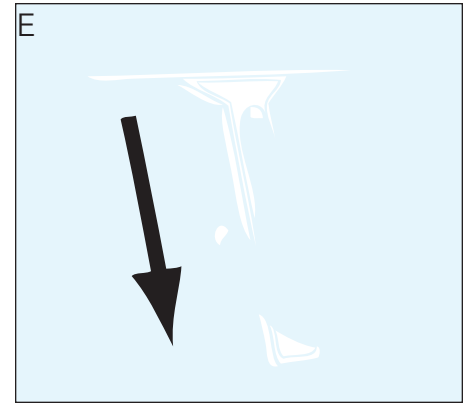
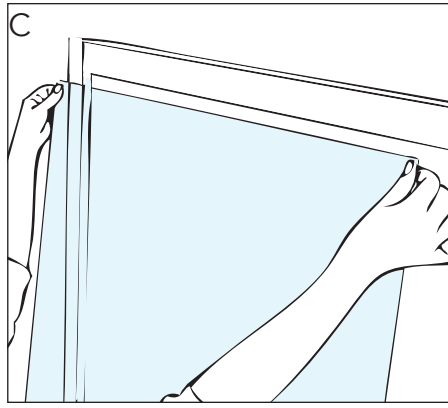
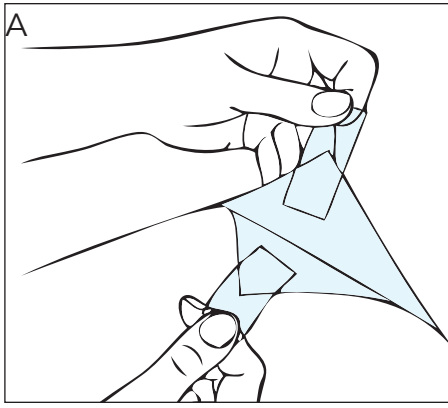
Once film is completely trimmed, spray the surface once more with application solution. Repeat squeegee operation as described above (see Figure G). Finally, using a wad of paper towels, gently wipe around edges of film to completely remove all excess water. This prevents the application solution from re-entering between the glass and film. When applying the application solution on the film surface squeegee within 2 minutes. A soft squeegee is necessary to prevent smudging of the ink and scratching of film. A piece of the release liner can be used as a mask over the film when applying the film to glass to prevent scratching of film and ink. 4walls scratch resistant films are highly recommended to prevent scratching of clear non imaged areas during installation.

CLEANING & MAINTENANCE

- The film can be cleaned periodically using a soap and water solution.
- We recommend wetting a soft cloth with solution and then cleaning the window rather than directly spraying solution on the surface.
- Never use harsh chemicals or cleaning agents such as Windex to clean the film surface.
- The chemicals used in many window cleaning agents can attack the film's adhesive causing delamination from the window.

Additional Care For Polycarbonate Film Only

- Compatible Cleaners and Detergents: Formula 4091, Joy2, Palmolive4, Naphtha VM&P Grade, Isopropyl Alcohol
- To Minimize Fine or Hairline Scratches: Mirror Glaze Clear Plastic Polish, Cleaner & Detailer by Meguiars (800-347-5700 or Meguiars.com), Novus Plastics Polish #1, #2 (by Novus Inc. 800-NOVUS60 or noscratch.com), Plexus Plastic Cleaner and Polish (by BTI Chemical Co. PlexusPlasticCleaner.com)
- To Remove Masking Adhesive and Glazing Compound: Apply Naphtha VM&P grade, Kerosene or Isopropyl Alcohol with clean soft cloth. Wash immediately with soap and lukewarm water and rinse with thoroughly with clean water.
- To Remove Graffiti: Naphtha VM&P grade, Isopropyl Alcohol or Butyl Cellosolve removes paint, marker ink. (Do not use in direct sunlight).
- Isopropyl Alcohol, Naphtha VM&P grade or Kerosene will help lift stickers and other adhesive backed labels. Wash immediately with soap and lukewarm water and rinse with thoroughly with clean water.



WARRANTY

4walls warrants its finished product to be free of defects in material and workmanship for a period of one year from date that finished product is received by customer, and will replace any material found to be defective. Please inspect all goods immediately upon receipt. 4walls is not responsible for labor charges, improper installation, installation of incorrect goods (those not approved or confirmed by the customer), removal of goods, or problems arising from defects in the construction, surface, or preparation of the wall.

Manufactured by

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QUESTIONS?

If you are unclear about any of these instructions, require further assistance, or have any questions regarding the installation of our product, please contact 4walls prior to beginning installation.