panoRama Cast 1530C, 1540C Exterior Mount Self-Adhesive Perforated Window Film

Application and Removal Recommendations

This information is based on our current knowledge and experience. It may not cover all factors relevant to each specific application, as professional skills and expertise in signage are assumed. Given the wide range of conditions that can impact application and use, we strongly recommend that customers conduct situational testing if they plan to use our products for specialized applications. This information does not constitute a legally binding warranty of specific qualities.

The self-adhesive panoRama cast perforated window film is designed for easy application and removal, with perforations that allow trapped air to escape effortlessly (air egress). This film conforms well to both flat and curved glass surfaces, making installation straightforward when following a few basic guidelines. Please review and follow the recommendations in this instruction guide for best results.

BASIC ADVICE

Printing
Self-adhesive panoRama Cast 1530C, 1540C perforated window films are printable with solvent, eco-solvent, UV curable or latex inks. It is essential that the inks are completely dry before panoRama Protect laminate or other laminate is applied. We recommend a drying time of 24 to 48 hours depending on the specific ink used. Prints should lay flat or very loosely rolled in an upright position during that time for proper and thorough degassing to occur.

Laminating
Our optically clear **panoRama Cast Laminate** is specially designed for one-way-vision films and can be applied without heat (pressure-sensitive). For best results, ensure proper laminator calibration; common lamination issues, such as tunneling and edge-curling when installed often stem from poor calibration. **Use no tension, light pressure, and a slow lamination speed**. After lamination, wait **24 hours before window application**.

Packaging and Transportation
To avoid tunneling after printing/laminating and related problems during application we recommended:
- Winding rolls with the **printed side facing out**.
- Avoiding tight winding; aim for a diameter of at least **10 inches**

Cleaning
For optimal adhesion, clean windows, gaskets, and seals with soap and water only—**avoid solvent or ammonia-based cleaners**. Pay particular attention to seals and gaskets, as dirt here can lead to edge lift over time. Rinse thoroughly, then dry with a lint-free cloth, brown industrial paper, or a squeegee, focusing on corners and edges.

Application Temperature

Ensure a minimum application temperature of **50°F (10°C)** and a maximum of **86°F (30°C)**, applicable to both the environment and the surface. For best adhesion, store the film at the application temperature for a few hours prior.

For vehicles: In freezing temperatures, wait **up to 24 hours** post-installation to allow adhesion to set, gaining full tack, before exposing to cold conditions. Be aware that windows pre-treated/coated with nano technology may pose a challenge, as these treatments may cause weak adhesion and interfere with the ability to gain full tack. Consider cleaning with acetone (use caution to avoid contact with rubber, paint, or plastic parts, as acetone may cause damage). Continental Grafix USA, Inc. assumes no responsibility for damage caused by using acetone.

APPLICATION

panoRama Cast 1530C, 1540C should be applied in **dry conditions** using the **dry application method** only. To accommodate glass expansion and contraction, leave a **3-5 mm (1/8" - 1/4") gap between the graphic and the window edge**. Avoid applying the film to window seals or frames, as this may cause detachment.

Application Steps

1. Fold back the upper edge of the liner by **8-16 cm (3"-5")**. <u>**UV Liners:**</u> It is important to ensure that both the perforated and non-perforated liners (two layers) are removed together.
2. Align the graphic, applying light pressure to secure the corners.
3. Use a hand or soft squeegee to press the film gently in place.
4. Gradually remove the liner, applying light pressure as you proceed until fully adhered.
5. Trim back any areas in contact with the gasket, leaving a **1/8 - 1/4 inch gap** from the frame or seal. ****NOTE:** Failure to trim material back from the window frame/seal may result in edge curling and will not be considered as a material failure.
6. Firmly squeegee and seal edges as advised.
7. For multi-panel installations, **butt seam panels** and seal with laminate or edge seal tape.
8. Under certain conditions (weather, application temperature and/or lack of time between printing/laminating and application), you may see the appearance of bubbles after application. The most likely cause is the escape of solvents/outgassing. Most such appearances will disappear a few days and can be considered normal. DO NOT, under any circumstances, attempt to lance these bubbles with a knife or a needle!

Edge Protection and Sealing

To prevent edge curling or lifting, especially in long-term and demanding applications:

- Use **optically clear edge seal tape**, strips of clear laminate, or liquid edge seal along all edges.
- For experienced installers, apply a laminate film after window film installation, trimming the graphic **1/2 inch from the window frame** and overlapping the laminate by at least **1/4 inch**.

CLEANING

After installation, clean windows gently with mild detergent and a soft cloth. **Avoid high-pressure sprayers and mechanical car wash brushes**, as these can lift edges and compromise the graphic.

REMOVAL

Removal is simple on glass but may require extra care if left long-term.

1. A minimum temperature of **50°F (10°C)** is recommended for easy removal.
2. Lift a corner and pull at an angle of **45° to 75°**.
3. In rare cases of residue, use a mild detergent or adhesive remover with a plastic scraper, avoiding scratches.
4. In cold weather, soften adhesive with a hair dryer or heat gun (use caution to prevent cracking glass).

**Thank you for choosing panoRama perforated window film. Visit
www.cgxusa.com for more information on warranties and technical support.**

Rev.11/24