# Designtex

## Technical Data Sheet: Casper Cloaking Film

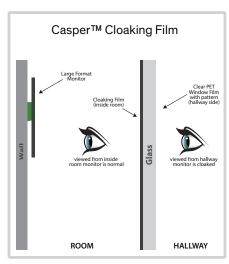
| Applications  |  |
|---|--|
| Supported   | Horizontally mounted LED displays over 40" diag size |
| Supported after field verification or not currently supported | LED monitors smaller than 40".                       |
| Not currently supported                                       | Surface Hubs and collaborative touch screen devices  |
| Not currently supported                                       | OLED displays. Laptops, tablets, and smart phones.   |
| Not supported   | Projection displays. Displays mounted behind glass.  |
| Not supported (discontinued technology)                       | Plasma displays. Passive 3D displays. CRT displays.  |
| Physical specifications                                       |  |
| Roll WxL  | 56 inches x 100 feet                                 |
| Film thickness  | 5 mil  |
| Film chemistry  | Triacetate   |
| Adhesive Thickness  | 1 mil  |
| Adhesion to glass   | 1.3lbs/ sq in  |
| Adhesive chemistry  | Acrylic  |
| Lightfastness   | Grade 5  |
| UV Transmission   | 1%   |
| Infrared Transmission   | 92%  |
| Solar energy - transmitted                                    | 66%  |
| Solar energy - reflected                                      | 7%   |
| Solar energy - rejected                                       | 29%  |
| Solar energy - absorbed                                       | 27%  |
| Visible light - transmitted                                   | 41%  |
| Visible light - reflected                                     | 6%   |
| Visible light - glare reduction                               | 54%  |
| Flammability  |  |
| E84   | Class A  |
| Cleaning  | Mater based/Calvert (MC)                             |
| Cleaning Chemical Resistance                                  | Water-based/Solvent (WS)                             |
|   |  |
| Expo White Board Cleaner                                      | Pass   |
| 70% Isopropyl Alcohol   | Pass   |
| 91% Isopropyl Alcohol   | Pass   |
| Fantastik   | Pass   |
| 409   | Pass   |
| Goo Gone Gel  | Pass   |
| Goof Off ( note does remove Black Sharpie )                   | Pass   |
| Zep heavy duty citrus Cleaner                                 | Pass   |
| Woolite Oxy   | Pass   |
| 3M HB Quaternary  | Pass   |
| Hydrogen Peroxide   | Pass   |
| Virex 256   | Pass   |
| Envy  | Pass   |
| Bleach 10:1   | Pass   |
| Oxivir<br>Installation  | Pass   |
| Directional pattern   | Apply vertically; cannot be railroaded               |
| Small scale install (less the 54.5" width)                    | Wet application                                      |
| Full window install (wider than 54.5")                        | Wet application Wet application with seam            |
| Installation surface temp                                     | 60°F-90°F  |
| Humidity range  | 30% - 60%  |
| Chemistry / Compliance  | 0070   |
| VOCs  | Cal 0135 Pass  |
| Prop 65   | Prop 65 compliant                                    |
| <u> </u>  | 1              |

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## Technical Data Sheet: Casper Graphic Film

| Physical specifications                     |                          |
|---|--------------------------|
| Roll WxL                                    | 60 inches x 100 feet     |
| Film thickness                              | 2 mil                    |
| Film chemistry                              | PET                      |
| Adhesive Thickness                          | 1 mil                    |
| Adhesion to glass                           | .5 lbs/ sq in            |
| Adhesive chemistry                          | Acrylic                  |
| Lightfastness                               | Grade 5                  |
| Flammability                                |                          |
| E84   | Class A                  |
| Cleaning                                    |                          |
| Cleaning                                    | Water-based/Solvent (WS) |
| Chemical Resistance                         |                          |
| Expo White Board Cleaner                    | Pass                     |
| 70% Isopropyl Alcohol                       | Pass                     |
| 91% Isopropyl Alcohol                       | Pass                     |
| Fantastik                                   | Pass                     |
| 409   | Pass                     |
| Goo Gone Gel                                | Pass                     |
| Goof Off ( note does remove Black Sharpie ) | Pass                     |
| Zep heavy duty citrus Cleaner               | Pass                     |
| Woolite Oxy                                 | Pass                     |
| 3M HB Quaternary                            | Pass                     |
| Hydrogen Peroxide                           | Pass                     |
| Virex 256                                   | Pass                     |
| Envy  | Pass                     |
| Bleach 10:1                                 | Pass                     |
| Oxivir                                      | Pass                     |
| Installation                                |                          |
| Directional pattern                         | Apply horizontally       |
| Installation                                | Wet application          |
| Installation surface temp                   | 60°F-90°F                |
| Humidity range                              | 30% - 60%                |
| Chemistry / Compliance                      |                          |
| VOCs  | Cal 0135 Pass            |
| Prop 65                                     | Prop 65 compliant        |



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### Casper® Cloaking Technology Film

### Install Guidelines. NOV 8, 2017

Cloaking Technology Film renders wall-mounted and other large LED displays in conference rooms, huddle rooms, and other glass fronted rooms *opaque* when viewed from outside the room. Most large, wall-mounted displays can be cloaked with the exception of: 3D displays, Microsoft Surface Hubs, Barco video walls, OLED displays, plasma screens, direct-view LED video walls, and projection video.

#### **Installation Guidelines:**

Casper Cloaking film is installed in a similar way to window films however it does have some differences:

- CORRECT ORIENTATION IS ESSENTIAL. Casper Cloaking must be installed in a vertical orientation for LED displays 40" or larger due to its unique cloaking technology. EXCEPTION! In some cases a horizontal install can cloak smaller monitors or computer monitors! Check orientation before estimating and installing. An Orientation Validation card is now also available
- 2. For "Vertical installations" The length edge of the film must be installed exactly parallel to the vertical window frame using the vertical window frame as a guide. It is best if the monitor is switched on to verify film orientation
- 3. Casper Cloaking film must be installed on the side of the glass closest to the display monitor.
- 4. Clean **thoroughly** the glass surface and spray the surface with mounting solution
- Cut the Casper Cloaking film to be installed on a hard surface such as glass. Cutting with a film handler
  may result in jagged edges. Oversize the film and make final trims once installed. Use a new, sharp,
  blade point for every cut
- 6. Remove the adhesive side release liner and spray the film liberally with the mounting solution. Place on the wet glass and position the film. Re-wet the surface of the film so the squeegee will easily slide on the film.

#### **Squeegee Procedure**

- 7. **First** an initial light squeegee to hold the film in position.
- 8. **Second** Finish Trim all edges of the film a maximum of 1/16" from the edge of the frame to enable mounting solution removal.
- 9. Third-Rewet the surface of the film and give a Final One Time HARD PRESSURE Squeegee to fix the film onto the glass. This must be a Systematic squeegee pattern, overlapping 50% over the previous squeegee line. Position the squeegee at a 45% angle, pushing the mounting solution away from the area just squeegeed and remove all of the mounting solution. DO NOT SQUEEGEE AGAIN except for bumping out the edges with a moisture absorbing soft towel Recommended a BLUE MAX squeegee or similar.

- 10. Bump out all edges with a paper towel over the squeegee to completely remove any remaining water.

  Make sure all the edges are clean and there is no remaining mounting solution
- 11. Because this film is unlike a window film some fingering may appear shortly after installation. Should this occur then continue to press out the finger with a single push with a hard squeegee with soft paper towel over the blade towards the edge of the film until all moisture is removed from the edge. Make sure that there are no tiny particles under the film along all edges as this would create a weak spot allowing for fingering.
- 12. Continue to monitor the installed film for any signs of curling or fingering and immediately press these
- 13. **MOUNTING SOLUTION**: Install Casper Cloaking film with clean water and Joy/Ajax or similar as a mounting solution. Film-On is not recommended
- 14. When trimming excess film be careful not to pinch or fold the film back tightly as this may damage the film. **IMPORTANT**: Trim all edges using a metal trim guide and a new blade point. This will help reduce any rough trimming edges or rough hand cuts. This film is difficult to hand trim no matter how good a trimmer you may be! Use a trimming guide!
- 15. Casper Cloaking film has a Permanent Pressure Sensitive adhesive system.
- 16. **SEAMS:** A 1/16" parallel gap is recommended when seaming films.

#### **Precautions:**

- 1. Test a small sample of the film prior to installation (recommend at the time of quoting/estimating) to make sure the film is appropriate and works for the particular monitor that is needing cloaking.
- 2. Be careful not to bend at sharp angles or kink the film when handling or installing –be extra careful when trimming in corners.
- 3. Smudges can appear in the adhesive if the film is hard squeegeed after the adhesive has begun to set up. If this does occur the film can be carefully peeled back off the glass, resprayed and re-squeegeed.

#### Note!

- WATCH AND WORK THE FILM AFTER INSTALLATION. Continue to monitor the installed film for any signs of curling or fingering and immediately press these out. This means that the installation may take a bit longer than a normal window film installation.
- California roll type installation is not recommended
- It is recommended that the film be cut slightly oversized and then trimmed to size after fitting to the glass. Thereafter make the final trim cuts and edge bumping.





## Casper™ Cloaking Technology

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## FILM CLEANING INSTRUCTIONS

The following are washing and maintenance instructions for all your **Casper**<sub>TM</sub> Cloaking and Architectural Graphic Layer Films. Post these instructions where employees and/or maintenance personnel can read them since failure to follow them will irrevocably void your warranty.

DO NOT CLEAN UNTIL THIRTY (30) DAYS AFTER THE INSTALLATION DATE. This will ensure proper care of the adhesive and edge seal used to bond the film to the glass surface.

Recommended cleaner is SimGlas® Window Film Cleaner and microfiber cloth. https://www.decorativefilm.com/accessories-simglas-cleaner

DO NOT USE BRISTLE BRUSHES OR ANY OTHER MATERIAL THAT MIGHT SCRATCH THE SURFACE. CAUTON! DO NOT USE AMMONIA OR VINEGAR OR ANY PRODUCTS CONTAINING AMMONIA OR VINEGAR TO CLEAN THE FILM. Some paper towels are coarse enough to scratch the Film. Repeated use of improper cleaning implements and/or solutions will damage the appearance of the Film.

## **GENERAL GUIDELINES**

DO NOT USE ANY ADHESIVE TAPES, LABELS, OR SIGNAGE ON THE SURFACES TO WHICH THE FILM HAS BEEN APPLIED.

Under normal conditions, film will dry within 30 days.

Normal viewing conditions: View treated windows from a distance of six feet at angles of up to 45 degrees. Since a particle-free application is possible only under sterile conditions, there may be small amounts of dust or grit caught between the film and glass.

For help on specific questions relating to a Casper Film Product, contact our Technical Service team:



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