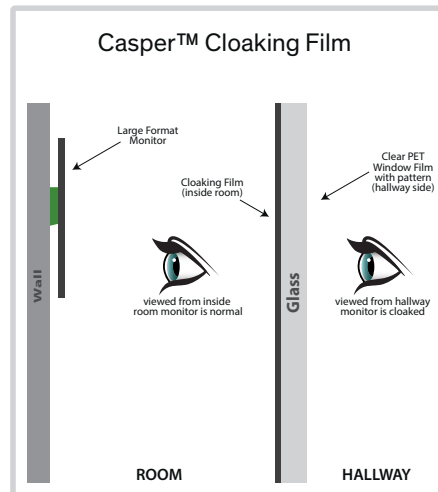


## Technical Data Sheet: Casper Cloaking Film

| <b>Applications</b>   |  |
|---|--|
| 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.  |
| <b>Physical specifications</b>                                |  |
| 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%  |
| <b>Flammability</b>   |  |
| E84   | Class A  |
| <b>Cleaning</b>   |  |
| 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   |
| <b>Installation</b>   |  |
| 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 with seam                            |
| Installation surface temp                                     | 60°F-90°F  |
| Humidity range  | 30% - 60%  |
| <b>Chemistry / Compliance</b>                                 |  |
| VOCs  | Cal 0135 Pass  |
| Prop 65   | Prop 65 compliant                                    |

## Technical Data Sheet: Casper Graphic Film

| <b>Physical specifications</b>              |                          |
|---|--------------------------|
| 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                  |
| <b>Flammability</b>                         |                          |
| E84   | Class A                  |
| <b>Cleaning</b>                             |                          |
| 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                     |
| <b>Installation</b>                         |                          |
| Directional pattern                         | Apply horizontally       |
| Installation                                | Wet application          |
| Installation surface temp                   | 60°F-90°F                |
| Humidity range                              | 30% - 60%                |
| <b>Chemistry / Compliance</b>               |                          |
| VOCs  | Cal 0135 Pass            |
| Prop 65                                     | Prop 65 compliant        |



## Casper® Cloaking Privacy Film - Installation Guidelines – Revised May 5

Cloaking 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, Barcovideo walls, OLED displays, plasma screens, and projection video.

### Installation Guidelines:

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

1. 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
2. The length edge of the film must be installed exactly parallel to the vertical window frame using the vertical window frame as a guide.
3. Casper Cloaking film must be installed on the side of the glass closest to the display monitor.
4. Casper Cloaking film has two release liners. One on the adhesive side and another on the surface of the film. The surface liner can be removed after positioning and after the initial squeegee. Then re-squeegee to fix the film to the glass. Bump out all edges with a paper towel over the squeegee to completely remove any remaining water.
5. SOLUTION: Mounting solution should have the bare minimum of dish soap (do not use Johnsons baby shampoo) Recommended is Llumar X-100 mounting solution or added alcohol
6. 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 card 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 for fingering
7. Install Casper Cloaking film with normal mounting solution (do not use baby shampoo) and squeegee very firmly with a BLUE MAX squeegee or similar.
8. When trimming excess film be careful not to pinch or fold the film back tightly as this may damage the film. Trim all edges using a metal trim guide and a new blade point. This will help reduce any rough trimming edges.
9. Casper Cloaking film has a Pressure sensitive removable adhesive system.

### 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. Make sure significant pressure is applied when squeegeeing out the wetting solution.
3. Be careful not to bend at sharp angles or kink the film when handling or installing –be extra careful when trimming in corners

## Casper™ By DESIGNTEX

### WINDOW FILM CLEANING INSTRUCTIONS

The following are washing and maintenance instructions for all your **Casper™** Cloaking and Architectural Glass Finish 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.

DO NOT USE BRISTLE BRUSHES OR ANY OTHER MATERIAL THAT MIGHT SCRATCH THE SURFACE. CAUTION! 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 reasonable weather conditions, film will dry flat, with no blisters, within 30 days, when viewed under normal viewing conditions. Normal viewing conditions are viewing treated windows from a distance of ten feet from the room side, at angles of up to 45 degrees, looking at a clear or uniformly overcast sky. 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.

Please be advised that there may be a small amount of water left behind, particularly with the thicker films. Please be patient. Within approximately 60-90 days, this water will bake out. However, in the event that you see larger blisters forming within 24 hours after the installation, please call your installation company immediately.

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



T: 888.657.5224 | F: 240.363.4818

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