



SPECTRADOME PRIVAGLASS LCD GLASS SYSTEM INSTALLATION OPTIONS

The SPECTRADOME PRIVAGLASS LCD glass system is a worldwide patent based on a specific nano technologies application.

Although system is compatible with almost every type of installation, the SPECTRADOME PRIVAGLASS is definitely a super hi-tech product and must be treated accordingly, by avoiding possible any damaging during everyday's usage.

Besides, LCD properties require some additional precautions, if we consider the LCD SPECTRADOME PRIVAGLASS panel to be completely different than an ordinary glass or window.

If you are thinking about installing our system in your premises, you are very likely due to obtain incredible results both from a practical and aesthetical standpoint, however, we strongly recommend you to carefully consider the following:

- if compared to ordinary glass, SPECTRADOME PRIVAGLASS LCD panel transparency is inferior. Should any direct light sources pointing to LCD panels are present within the room or area where the LCD system is installed, you must take into consideration that light penetration rate of liquid crystals is lower than glass molecules: as a consequence, transparency shall be lower and light refraction increased. In order to optimize installation, it is strongly recommended that ambient lights do not point or flood light directly towards LCD panels. Additionally, turning off any kind of glass-integrated ambient light and setting up installation so that the PRIVAGLASS LCD system is in OFF state whenever ambient lights are ON (and vice-versa) is highly recommended;
- if compared to ordinary glass, SPECTRADOME PRIVAGLASS LCD panels show higher reflection rates, therefore, if installation is going to take place either in front of or near walls, light reflection shall be even higher than the one you would get if the very same installation would take place using ordinary transparent glass;
- default condition of liquid crystals inside the PRIVAGLASS panels is opaque when the panel is OFF. Whenever there is no need to look through the PRIVAGLASS LCD panel, system should be turned off at all times. Should the system be left on (transparent) for extended time periods (weeks or months), owing to polarized LCD properties, the whole system will require a given amount of time before returning to idle/default state;
- installation is non-removable. Removal attempt on any already installed LCD panel shall result in irreversible damaging as well as immediate warranty termination;
- owing to the many possible customizations, the valuable support of qualified personnel is more than recommended to supervise installation procedures and operations: we will be glad to provide all the needed information and support to any professionals near you;
- once LCD panels have been ordered and cut, they cannot be modified in any ways: all sales and orders are final after payment, therefore, once again we would like to draw your attention to the fact that supervision from a qualified professional is essential for ideal installation.



INSTALLATION OPTIONS

Depending on door/window frame type, three different installation options are feasible:

1) inner window pane installation



This kind of installation is suitable for doors and windows with frames just like the one shown in the aside picture (double window pane without LCD panel installed), where no space exists between actual glass surface and frame edges. If this is your case, the only possible installation is of an "exposed" type: the LCD panel is laid down onto the inner glass surface, then its perimeter is sealed next to the window frame edges (as indicated by the two yellow arrows in the aside picture). Although minimal, inner sealing stays visible after installation is completed.

2) integrated inner window pane installation



This kind of installation is ideal if your window/door frame is identical or similar to the one shown in the aside picture (double window pane with frame well along the window frame perimeter). Integrated installation means that LCD panel borders disappear into the perimetral window frame well and get sealed along with the window pane once the whole glass is inserted into the door/window frame. The aside picture was taken by using an IR camera that clearly shows the thick silica sealing (0,5 cm thick, just in the middle between the yellow arrows in the picture)

which totally and firmly secures both window pane and LCD panel into position. The LCD panel borders plunge into the frame perimetral well and disappear to the eyesight. Considering the higher complexity and cost of the door/window frames used, we cannot help to make you notice this is probably the most expensive installation option, as well as the one allowing the best aesthetic results.



3) sandwich installation

This third option is probably the most sophisticated and complex of all. In this kind of installation, the LCD panel is laid just in the middle between two glass panes and the whole set gets subsequently inserted inside a door or window frame.

We recommend this option in very special cases only, as it requires the whole LCD panel installation to be performed live during glass pane manufacturing as well as the overall glass measures to be perfectly compatible with the door/window pane that will be used to hold the glass fitted with the LCD panel.

The main advantage of a sandwich-like installation is the best possible protection of the LCD panel, as it does not stay exposed on the inner side of the door/window pane.

To request a quote as well as if you have questions or need any additional information regarding our PRIVAGLASS LCD system, you are welcome to contact us by

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