

PRIVA-LITE®

Switchable glass for modular partitioning and PRIVACY management

- PRIVACY
- TRANSPARENCY
- COMMUNICATION

V1.0

PRIVA-LITE® is a laminated glass with a liquid crystal film allowing immediate switching from translucent to transparent.

PRIVA-LITE® is a unique solution in space management by means of instantaneous control of opalescence (translucent / transparent) and dynamic (back) projection of videos and images.

- Exterior and interior applications
- Unmatched level of transparency
- All standard shapes available
- Same level of light transmission in ON and OFF states

MODULAR AND ACTIVE ARCHITECTURE



DYNAMIC SUPPORT FOR COMMUNICATION



INTIMACY AND CONFIDENTIALITY CONTROL

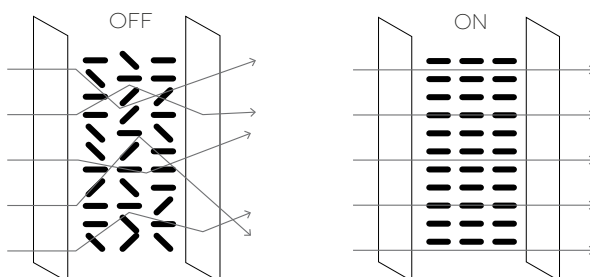


FEATURES

TECHNOLOGICAL PRINCIPLE

PRIVA-LITE® is an active glass which, under the effect of an electric current, switches from translucent to transparent with no alteration of light transmission.

Two layers of extra clear glass encapsulate a liquid crystal (LC) film inserted between EVA layers. This LC film is composed of two PET films coated with a transparent metallic deposit and laminated together by means of a very fine layer of liquid crystal gel. Under a 100 volts alternative current (50Hz), the liquid crystals orient themselves toward the same direction. The LC film – at first translucent – becomes instantaneously transparent!



In its translucent state, PRIVA-LITE® offers an ideal (back) projection screen.

DIAGRAM

Diagram based on a standard assembly as a simple glass-pane.

SIZE

Maximum size :

1000 x 3000 mm with one LC film, or 2000 x 3000 mm with two LC films located next to each other in a same pane.

Minimum size : 200 x 300 mm.

THICKNESS

Standard: 12 mm

Others: from 8 to 22 mm

CUTTING HOLES AND NOTCHES

The glazing is delivered in the required dimension. No further cutting or drilling is possible. Hole and notches are possible under specific conditions. In the event of a hanging screen, the anchor holes have to be and located in a zone without LC film.

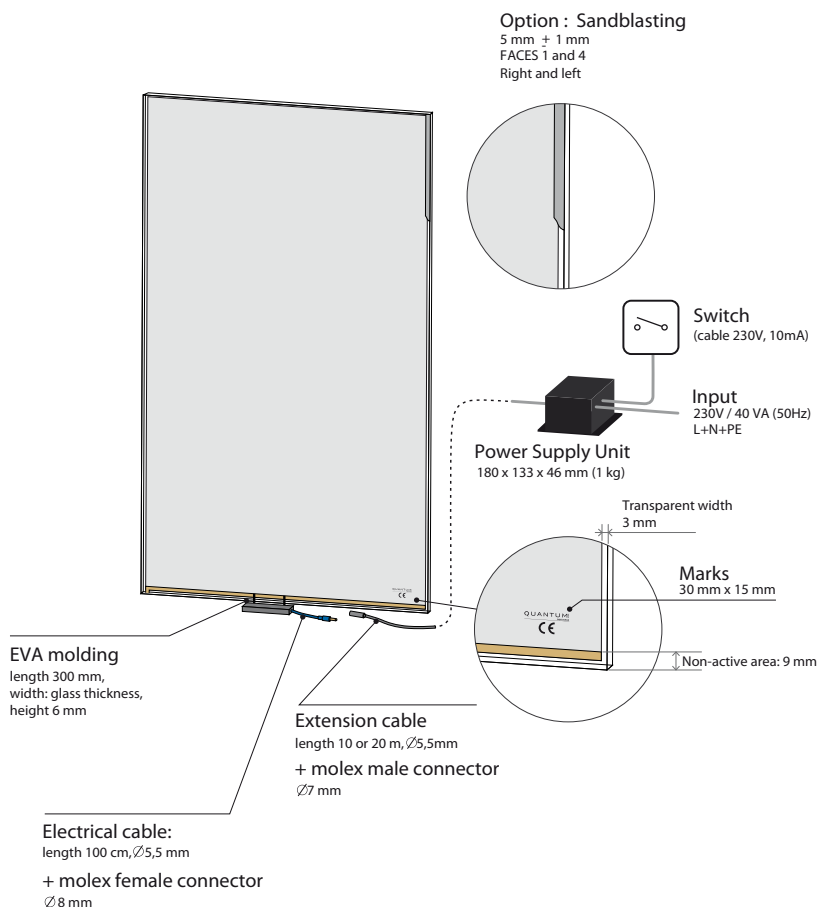
ELECTRODES AND CABLE EXIT

Depending on the size of the glass-pane, both electrodes can be positioned either on top, at the bottom, on the right or left side, with the exit of the cable at the center of the electrodes' side.

POWER SUPPLY UNIT

Standard (max 3,5m²): 240 x 190 x 95 mm, 5.5 kg

Other (max 15m²): 240 x 190 x 120 mm, 10 kg.



IMPLEMENTATION

TECHNICAL DATA

Operating voltage	100 volts (50 Hz)
Power	7 watts/m ² when «ON». 0 watts/m ² when «OFF»
IP	IP X7
Security to shock	PVL 55.4 is equivalent to a laminated glass (EN 12600, level 1B1)
Protection class	PVL 55.4 is P5A - PVL 66.8 is P6B
Electrical classification	Class I (class II available on demand)
Standards and certification	CE... - Certification list on demand

BENEFITS

A SUSTAINABLE HIGH-PERFORMANCE SOLUTION

- Reliability over time. More than 20 years of experience and best results to ageing test
- Unparalleled level of transparency
- Light transmission almost identical in the transparent and translucent states
- European production + CE certificates
- Low power consumption
- Instantaneous and silent change of state via simple command
- CE marking for protection against intruder attack
- 5 years guarantee



QUANTUM GLASS

All the hybrid glazing of QUANTUM GLASS offer optical and physical properties that change in response to low-voltage electrical current. QUANTUM GLASS is able to supply glass solutions that can become clear or translucent on demand, can act as a heating or lighting source, etc.

CONTACT

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PARTNER



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