

**PRIVA-LITE®**

**ON  
OFF**

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.

Switchable glass for modular partitioning and PRIVACY management

**PRIVACY  
TRANSPARENCY  
COMMUNICATION**

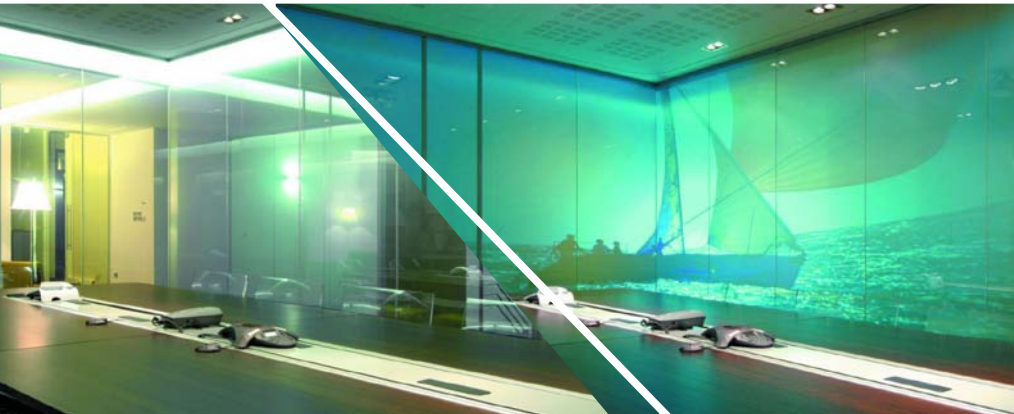
 **GLASSOLUTIONS**  
SAINT-GOBAIN

# PRIVA-LITE®

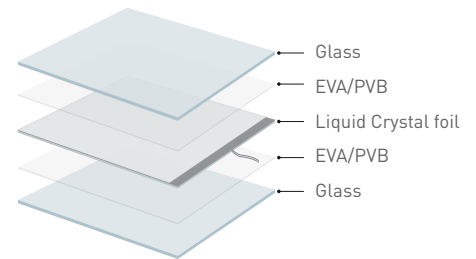
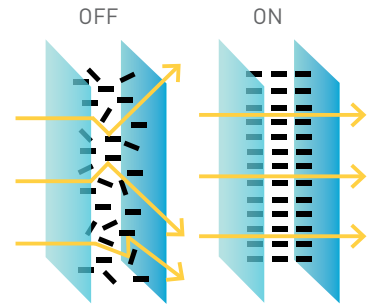
## MODULAR AND ACTIVE ARCHITECTURE



## DYNAMIC SUPPORT FOR COMMUNICATION



## INTIMACY AND CONFIDENTIALITY CONTROL





# PRIVA-LITE® FEATURES

## TECHNOLOGICAL PRINCIPLE

### SIZE

#### PRIVA-LITE CLASSIC:

1000x3000mm (1000x3750mm on request)

Minimum size: 200x300mm

Less on request.

#### For PRIVA-LITE XL:

1500x3000mm (1800x3500mm on request)

Minimum size: 200x300mm

Less on request.

### THICKNESS

Standard: 12mm

Others: from 8 to 33mm

### 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

For PRIVA-LITE CLASSIC:

5 types of transformers are available able to supply between 3m<sup>2</sup> to 20m<sup>2</sup> of PRIVA-LITE with one unit.

CE certificates relate to all. UL certificate on demand.

For PRIVA-LITE XL:

2 types of transformers are available to supply up to 5,5m<sup>2</sup> of PRIVA-LITE with one unit.

CE certificates relate to all. UL certificate on demand.

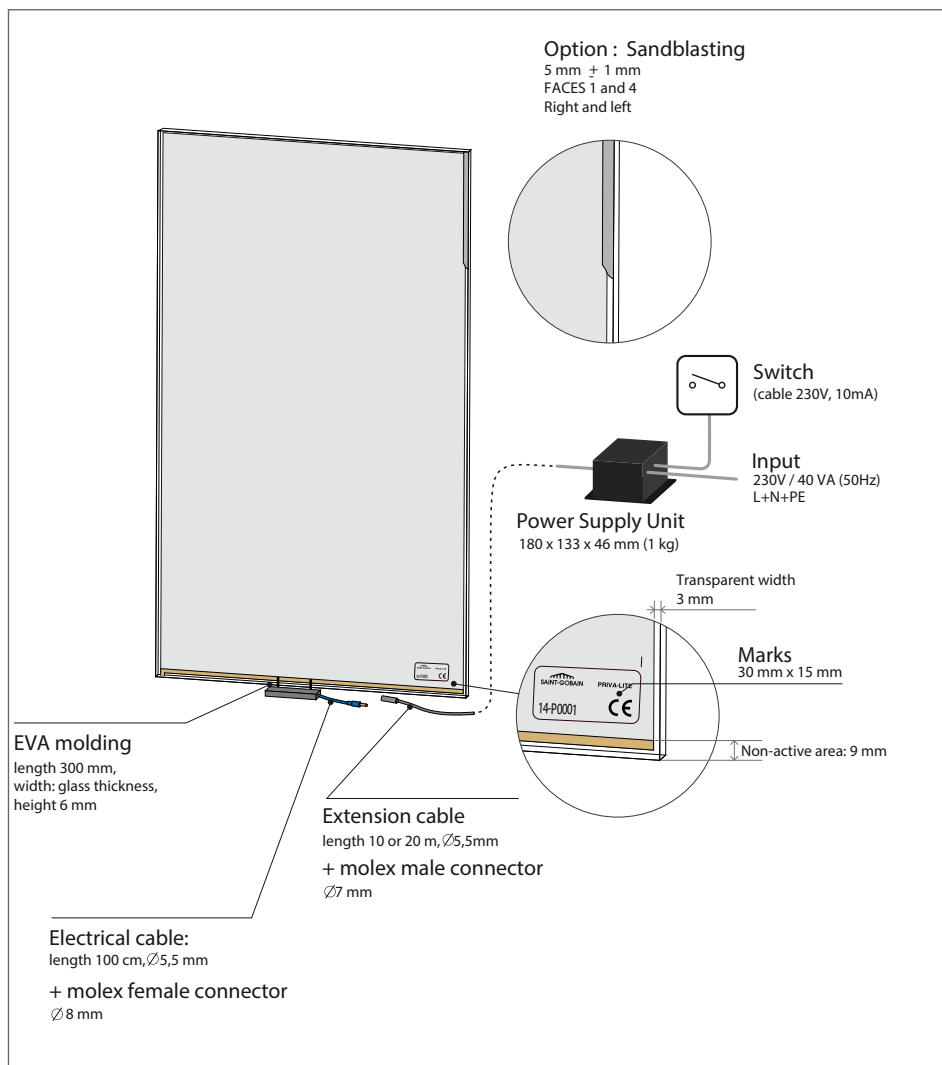
PRIVA-LITE® is an active glass which, under the effect of an electric current, switches from translucent to transparent with no alteration of light transmission for Priva-Lite Classic only)

Two layers of extra clear glass encapsulate a liquid crystal (LC) film inserted between EVA or PVB 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. Due to voltage applica-

tion liquid crystals orient themselves toward the same direction. Priva-lite Classic is powered by 100 Volts AC, and Priva-Lite XL by 65 Volts AC. The LC Film (Translucent in OFF state) then 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.



## PERFORMANCES

Single glazing PRIVA-LITE® 55.4 (12 mm)

	Priva-lite Classic		Priva-lite XL	
	ON	OFF	ON	OFF
Light transmission*	77 %	76 %	77 %	50%
Light reflection*	19 %	18 %	19 %	18 %
Haze (level of blur)*	7.5 %	90 %	7.5 %	99 %
Solar factor*	63 %	64 %	63 %	64 %
Ug (W/m²K)	5.6 to 5.8	5.6 to 5.8	5.6 to 5.8	5.6 to 5.8
Rw (C; Ctr)	38 [-2;-3] dB	38 [-2;-3] dB	37 [-1;-2] / 38 [-1;-3] dB**	37 [-1;-2] / 38 [-1;-3] dB**

\* The spectrophotometric data are given with a tolerance of +- 2%

\*\* Standard /Acoustic

## Clause of particular technical specifications

Glazing product with controlled opalescence can be made transparent by applying a 100V AC electrical current for Priva-lite Classic and 65 AC electrical current for Priva-lite XL with both a haze level of 7,5% in its transparent

state and 90% in its translucent state. No change in light transmission between the transparent and translucent states for Priva-Lite Classic.

## PRIVA-LITE® IMPLEMENTATION

### APPLICATIONS

Interior and exterior applications : partition wall, door, window, shop front, security glazing, glass floor, projection screen ...

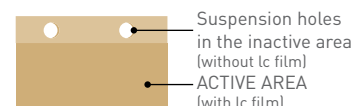
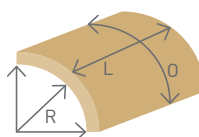
### CUSTOMISATION OF THE GLAZING

#### COMPOSITION

Standard 55.4 (12 mm thickness) laminated glass. Can be composed of glass that is tempered, coloured, screen-printed, bended ... Can also be used as the inner sheet of a double-glazing with all of the products from the range of glazing from SAINT-GOBAIN (Ultra N, Cool Lite, Antelio, Stadip protect, Stadip Silence, Contraflam...) and combined with panels from the range of product GLASSOLUTIONS

#### SHAPES

All of the standard shapes, except complete circles as well as shapes with angles inferior to 30°. The panes can be curved, screen-printed or be sand-blasted.



L : Maximum Length / Height: 3000 mm  
O : maximum Girth: 1000 mm  
R : minimum Radius: 2000 mm



## INSTALLATION

### TYPE OF FRAME

- Fixed, opening or sliding frame
- Possible to hang (suspension holes in zone without LC film)
- Use only untreated hardwood support blocks (packers)
- Only the Multisil silicone (provided by GLASSOLUTIONS) may come into contact with the glass edges.
- Any material in contact with the edges of the glass must be checked by GLASSOLUTIONS for compatibility

### MAIN PRECAUTIONS FOR USE AND IMPLEMENTATION

- Intended exposure of the glazing to temperatures exceeding +60°C or below -20°C will require a specific analysis
- Prevent all pressure on the surface of the panel, over the molding and the cables
- The power supply unit can be located remotely, but must remain accessible (maintenance)
- Priva-lite can be simply controlled by a standard switch. A waterproof resistant switch and a remote control are proposed by Glassolutions.
- The installation has to respect the current electrical regulations and must be performed by an electrician

To guarantee the quality and durability of the installation, it is strongly recommended to entrust the installation to a trained GLASSOLUTIONS installer.

## TECHNICAL DATA

	Priva-lite Classic	Priva-lite XL
Operating voltage	100 volts (50 Hz)	65 VAC (50Hz-60Hz)
Power	7 W/m <sup>2</sup> when «ON» 0 W/m <sup>2</sup> when «OFF»	5 W/m <sup>2</sup> when «ON» 0 W/m <sup>2</sup> 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 under conditions) (EN 60439)	
Standards and certification	CE certification; DoP and UL certification on demand	

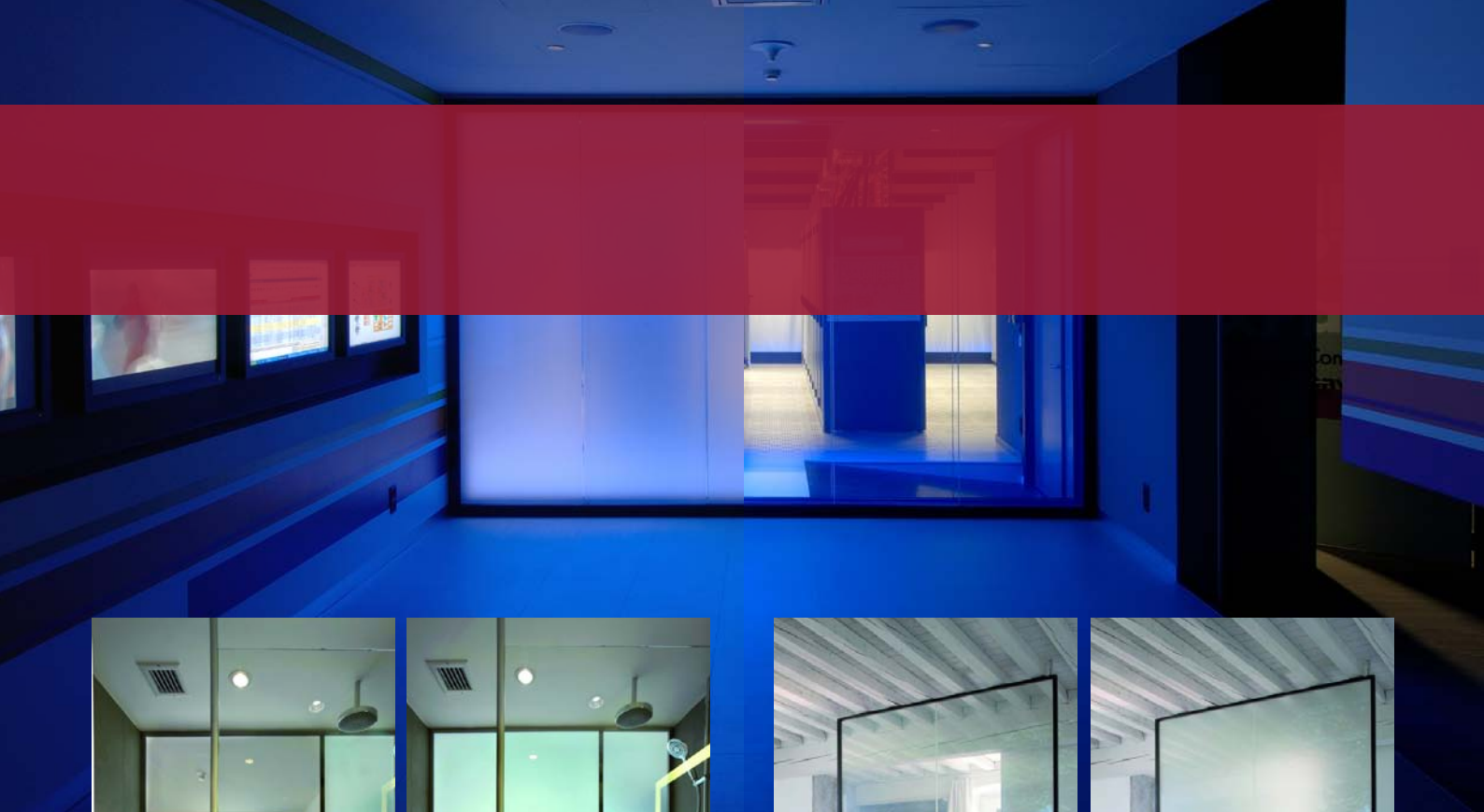
## PRIVA-LITE® BENEFITS

### 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
- 5 years guarantee

## WARRANTY

GLASSOLUTIONS gives a 5-year warranty on the functionality of the PRIVA-LITE. This guarantee is valid only if the instructions contained in our installation and maintenance guide are followed.



Novotel next rooms (Worldwide)

CLOS DU LÉTHÉ (France)

## SELECTED REFERENCES

- IMMEUBLE CHANEL - CHANEL GINZA BY PETER MARINO (TOKYO, JAPAN)
- FOUR SEASON HOTEL; RIYADH SAUDI ARABIA
- SIEM REAP INTERNATIONAL AIRPORT BY ALAIN DUPUY (CAMBODIA)
- TOUR PERRET BY THIERRY VAN DE WYNGAERT (AMIENS, FRANCE)
- HIGH SPEED TRAINS ICE (GERMANY) and VELARO (SPAIN)
- IPIC TOWER, ABU DHABI - UAE
- NOVOTEL FUJAIRAH, UAE

### GLASSOLUTIONS Saint-Gobain

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For more information see our web site :

[www.priva-lite.eu](http://www.priva-lite.eu)