

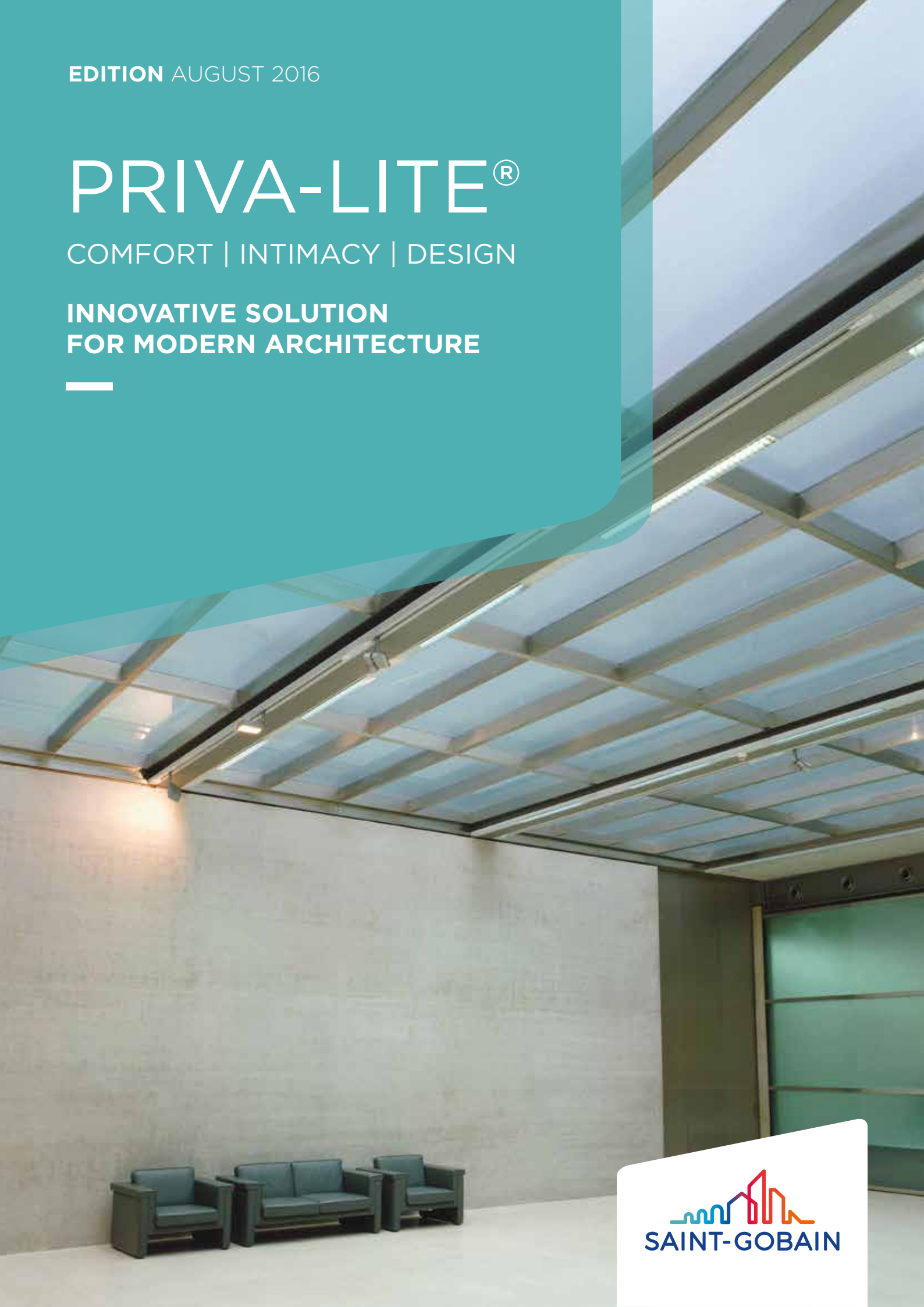
EDITION AUGUST 2016

# PRIVA-LITE®

COMFORT | INTIMACY | DESIGN

**INNOVATIVE SOLUTION  
FOR MODERN ARCHITECTURE**

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SAINT-GOBAIN

# PRIVA-LITE®

COMFORT | INTIMACY | DESIGN

## PRIVA-LITE®

Modern and sophisticated solutions for architecture.



## PRIVA-LITE®

Comfort of privacy, light, acoustics and safety.



## PRIVA-LITE®

Support for communication with back projection possibility (OFF mode)



ON

OFF



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## DESCRIPTION

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.

**Light transmission is almost identical in the transparent and translucent states.**

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 application 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.





# PRIVA-LITE®

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## ADVANTAGES

- Quality and warranty of Saint-Gobain.
- Over 20 years of experience.
- EPD Certificate.
- Compatibility with EN 356 standard.
- Intimacy, privacy and comfort.
- „Wow” effect.
- High level of transparency - ‚haze level’ is tested for every single glass panel.
- Best quality on the market for back projection application.
- Instant and silent change of states between ON and OFF positions.
- Low power consumption.
- Easy and safe installation.
- High light transmission.
- Protection against harmful UV radiation.
- Lots of possibilities to enlarge room space, gives a unique nature.



ON



OFF



## APPLICATION

- Internal partition.
- Sliding, pivotal and framed door.
- Shop window.
- Back projection screen.
- Glass floor.
- Mobile pre-framed partitions.
- Facade.
- Double/ triple glazing (ask for more details).

ON

OFF



ON

OFF



## COMPOSITION

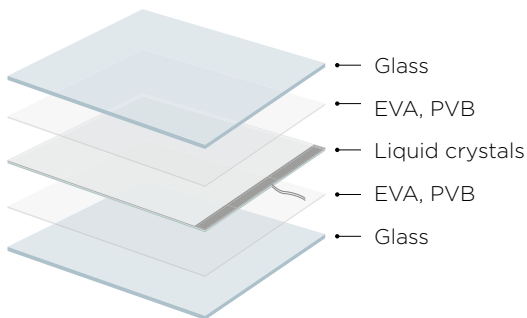
Standard 55.4 (12 mm thickness) laminated glass, available as double/ triple glazing.

Can be composed of glass that is tempered, coloured, screen-printed, bent.

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, CONTRA-FLAM) and combined with panels from the range of product GLASSOLUTIONS: LEDinGLASS, E-GLAS, TEXGLASS.

## 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 centre of the electrodes' side.



## POWER SUPPLY

### For PRIVA-LITE® CLASSIC:

- QG6 power supply unit is able to supply 6 m2 of glass.
- Input 100-230V AC, output 100V AC.

### For PRIVA-LITE® XL:

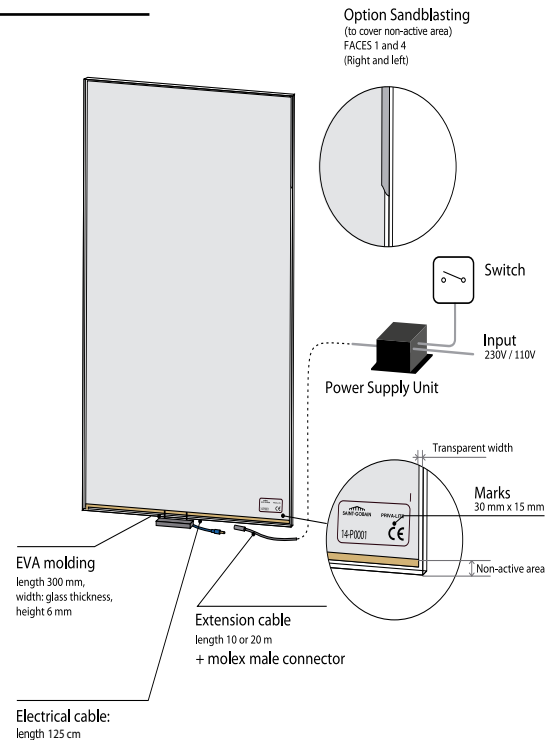
- PSU XL power supply unit is able to supply 6,37 m2 of glass.
- Input 230V AC, output 65V AC.

**All power supply units have CE certificates.**

## SHAPES

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

## Diagram based on a standard assembly as simple glass panel



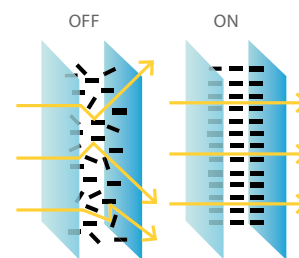
## CURVED GLASS

PRIVA-LITE® CLASSIC is available as a bent glass.

Min. radius 2000 mm, max. glass dimension 1000 x 3000, deflection ≤ 60 mm.

PRIVA-LITE® XL is available as a bent glass.

Min. radius 2000 mm, max. glass dimension 1500 x 3000, deflection ≤ 60 mm.



## SIZE

### For PRIVA-LITE® CLASSIC:

- Max. 1000 x 3750 mm
- Min. 200 x 300 mm

### For PRIVA-LITE® XL:

- Max. 1820 x 3500 mm
- Min. 200 x 300 mm

## THICKNESS

- Standar: 12 mm (55.4)
- Other: from 8 to 33 mm

	PRIVA-LITE® CLASSIC		PRIVA-LITE® XL	
	ON	OFF	ON	OFF
<b>Light transmission*</b>	77%	76%	77%	50%
<b>Light reflection*</b>	19%	18%	19%	18%
<b>Haze (level of blur)*</b>	5,7%	90%	6,0%	99%
<b>Solar Factor*</b>	63%	64%	63%	64%
<b>Ug (W/m2K)</b>	5,6 to 5,8	5,6 to 5,8	5,6 to 5,8	5,6 to 5,8
<b>Rw (C;Ctr)</b>	38 (-2;-3) dB		37 (-1;-2) dB	
<b>Working conditions</b>	-20 to 60°C		-10 to 70°C	

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

	PRIVA-LITE® CLASSIC	PRIVA-LITE® XL
<b>Operating voltage</b>	100 V (50 Hz)	65 V (50 Hz - 60 Hz)
<b>Power</b>	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>>
<b>IP</b>	IP X7	
<b>Security to shock</b>	PRIVA-LITE 55.4 is equivalent to a laminated glass (EN 12600, Level 1B1)	
<b>Protection class</b>	PRIVA-LITE 55.4 - P5A; PRIVA-LITE 66.8 - P6B	
<b>Electrical classification</b>	Class I (Class II under conditions) (EN 60439)	
<b>Standards and certification</b>	CE, DOP, EPD certificates available on request	

No change in light transmission between the transparent and translucent states for PRIVA-LITE® CLASSIC.



## WARRANTY

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





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## INSTALLATION

PRIVA-LITE may be installed either as interior glass, or as a façade as isolated glass. You may install PRIVA-LITE either in 4 side profiles, or butt joined, for continuous glass wall effect.

Doors, windows, walls, may be equipped with PRIVA-LITE.

Full systems ready to install are also proposed, like sliding doors, pivotal doors (ask your Saint-Gobain Glassolutions dealer for details).

SGGS provides the adapted silicone and glass tape for conform installations.

PRIVA-LITE is easy to install by any professional glazier; detailed install guide and professional support are provided.

Electric installing is very simple (of course to be done observing the electric installation rules, at the install location).

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## TRANSFORMER AND CONTROL

Specific plug and play transformers and cables are provided with each PRIVA-LITE. Transformer may be installed in separate rooms, up to 20meters away from the glass. PRIVA-LITE may be easily controlled with standard wall switch, we propose also compatible radio-controlled wall switches or remote controls.



ON

OFF



**PRIVA-LITE® COLOR**

Glass laminated with colour films  
(12 colours available).

# Assortment

**PRIVA-LITE® TEXGLASS**

Glass laminated with fabrics

**PRODUCTS AND SYSTEMS  
PRIVA-LITE®**

**PRIVA-LITE® PRE-FRAMED**

DIY set – consists of glass, frame and electrical accessories.

**PRIVA-LITE® DOOR SYSTEM**

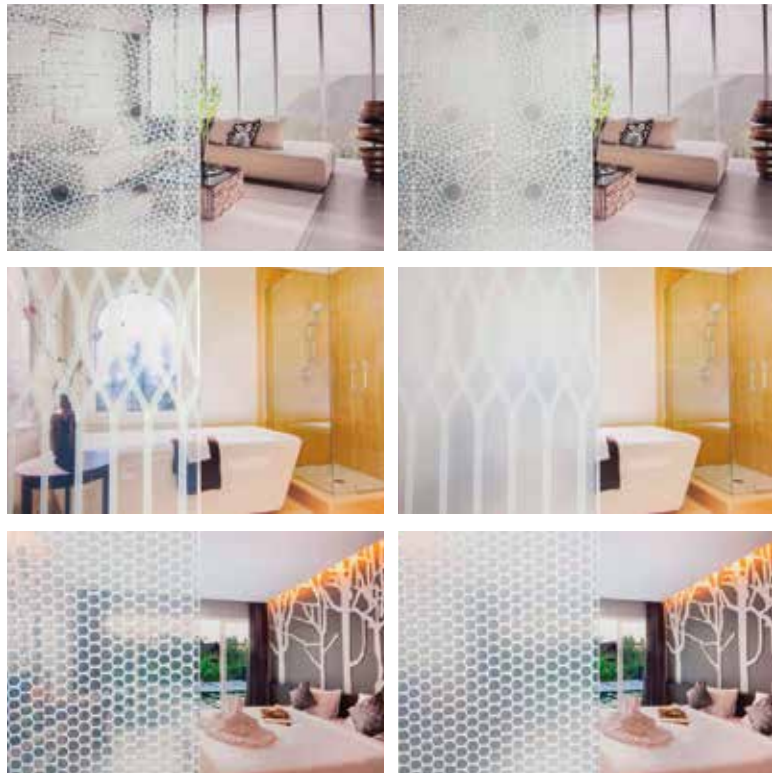
System of complete, ready to install sliding or pivotal doors.

**PRIVA-LITE® PICTURE IT**

Glass with digital printing.

**PRIVA-LITE®**

As double/triple glazing with specific glass: CONTRAFLAM, SUPERCONTRYX or EGLAS (please contact us for more details).



**PRIVA-LITE® SLIDING DOOR SYSTEM**

System to slide manually.

# References

ON



Partition and door system

ON



OFF





OFF



Interactive floor



ON



OFF





**SAINT-GOBAIN Group is the largest processor, distributor and installer of glass and glazing systems in Europe.**

Based on its experience and potential for innovations, Saint-Gobain - the world leader on the construction-related markets - creates, produces and distributes construction materials, offering innovative solutions meeting the key challenges of our times. We are constantly working to improve established glass and glazing products while at the same time delivering genuine innovations that enable architects and designers to rethink how they use glass.

**CONTACT:**

For this and more innovative solutions, please contact:

**[pl.glassolutions@saint-gobain.com](mailto:pl.glassolutions@saint-gobain.com)**  
or visit:

[www.privalite.com](http://www.privalite.com)  
[www.glassolutions.pl](http://www.glassolutions.pl)  
[www.saint-gobain-glass.pl](http://www.saint-gobain-glass.pl)

