

# GLASSILED PARTITIONS

Glassiled-Partitions is a laminated glass with embedded Light Emitting Diodes (LEDs) (RGB or monocolour). The LEDs are powered through a high-performance invisible conductive coating.

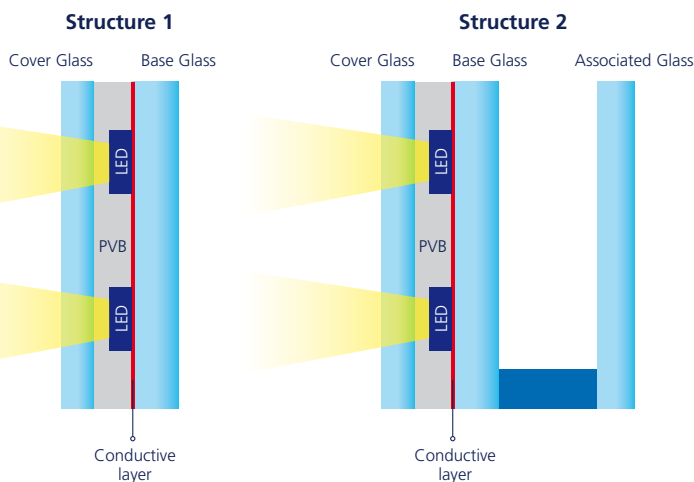
Two different structures are possible:

## Monolithic Glassiled

is a laminated glass comprising a base glass, a conductive coating and a cover glass.

## Double structure

is a monolithic Glassiled assembled with an associated glass.



## Benefits :

### Everything is flat and simple

Light floats on the glass without any visible wiring. LEDs are integrated into the partition itself. Enjoy the full transparency and elegance of the glass.

### Create your light effect on partitions

Light can be dispersed on the glass in many possible ways. Architects and designers may use different patterns, LED colours (monocolour or RGB) and glasses from our vast range to create exclusive sources of light.

### A range of designs created by AGC

Let yourself be inspired by AGC's designs: decorate your space while optimising your investment and reducing delivery time.

### Instant atmosphere

Glassiled-Partitions can be dimmed and can instantly change colours. It creates a range of different effects, from the very subtle to the most brilliant.

### Communicate!

Imagine colour codes for your workspace, unusual effects for special celebrations, luminous signage and guidance, etc. Glassiled-Partitions contributes significantly to brand and image enhancement.

### Low thermal dissipation

Glassiled-Partitions generates a low thermal dissipation compared to other light sources. It has no sensitivity to vibrations and is suited for transport applications.



### Quick and easy to install

Glassiled-Partitions is an easy-to-install product. This leads to significant time savings. It has a non-scratchable and easy-to-clean surface.

### Production excellence

A fully automated line houses all phases of the production process under one roof.



GLASS TYPE AND THICKNESS		3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
BASE GLASS	Planibel Clear						
	Matelux clear						
	Planibel Clearvision						
COVER GLASS	Planibel (clear & colour)						
	Matelux (clear & colour)						
	Planibel Clearvision						
	Imagin Satinbel, Crepi						
	Imagin Screen						
	Stratobel						
Associated glass (Structure 2)		Almost all AGC decorative glasses (With usual safety restrictions when tempered or laminated glass is mandatory)					
PVB thickness <sup>(1)</sup>		Monocolor LED : 1,5 mm PVB			RGB LED : 3 mm PVB		
Dimensions		MIN = 200 x 600 mm			MAX = 1500 x 2700 mm		
Edge finishing		Lamination of arised edge glass with PVB (tolerance between Cover and Base glass ± 1 mm) - Option 1 : Lamination of grinded/polished edge glass with PVB (tolerance ± 1 mm) - Option 2 : Flat grinded/polished edge glass after lamination (only for straight edge, not tempered, not cable output edge)					
Glass finishing		On request : special mono or bi-component silkscreen printing					
LEDs							
Type		Standard low power LED (decorative and signalling applications)					
Intensity / LED <sup>(2)</sup> (for 4 mm clear glass and function of LED colour)		10 to 600 mcd/LED					
		Monocolor (cool white 6200 K, warm white 3000 K, red, green, blue)			RGB		
MAX number of non-overlapping circuits		3			1		
MAX different LED color / Glass		3			-		
MAX number of LEDs		200 LED / m²			100 LED / m²		
MIN Distance between LEDs		15 mm			50 mm		
MIN Distance between LED and glass edge		30 mm			50 mm		
ELECTRICAL PARTS							
Power supply		- Basic power supply: On/Off - Advanced power supply : dimming and interface to external controler - On request : remote control, synchronization, special effects, animation					
Electrical properties		Between 12 VDC to 160 VDC, depend on product size, number of LEDs, LED type and arrangement					
Electrical contact		<b>LED Monocolor:</b> - 1 bus bar along 1 edge of the glass, 12 mm wide at 10 mm from edge - 2 bus bar along 2 edge of the glass, 6 mm wide at 10 mm from edge <b>LED RGB :</b> - 2 bus bar along 2 longest edge of the glass, 2 x 18 mm wide at 10 mm from edge Connecting cable: 1 or 2 cable out of the glass, 3 m long with polarized plug					
USE							
Restrictions		- All conditions applicable to AGC laminated glass (Stratobel) are valid - Internal use only - MAX ambience operating temperature (with LEDs ON): 35 °C - MAX temperature (with LEDs OFF): same than standard AGC laminated glass					
CERTIFICATION							
Laminated Glass Standards Electrical Safety Standards Electromagnetic Compatibility Standards		Compliance to EN 14449 Compliance to EN 60598-2-1 Protection: Class II Compliance to EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547				 	

In all cases, the AGC technical team will review the LEDs arrangement and validate the feasibility. Other glasses or coating types, specific glass shapes, different electrical connections can also be evaluated by the technical team.

(1) As all laminated glass products Glassiled can have small air bubbles close to the edge of the glass or near electrical connectors. In specified thermal conditions for Glassiled, these bubbles are stable and can not cause delamination.

(2) The LED light intensity and flux decrease slowly over time. This is inherent to the LED technology. The life time of the current LED technology guarantees 50.000 hours at more than 50% of the initial light flux. This value is typical statistical value and large variations can exist especially but not only in function of conditions of use. The light intensity and flux generated by LEDs in one Glassiled can vary from LED to LED. A small colour variation from LED to LED is also possible and acceptable.

