



# GLASSILED WALL-CLADDING

Glassiled-Wall-Cladding is an opaque glass with embedded monocolour or RGB **light-emitting diodes** (LEDs). The LEDs are powered through a high-performance invisible conductive coating.

The product comprises a clear base glass, a conductive coating and a toughened enamelled opaque cover glass.

## Benefits :

### • Light without obstruction

Light floats on the glass without any visible wiring on the surface. LEDs are integrated into the wall-cladding itself.

### • Decorate and liven up your walls

With Glassiled-Wall-Cladding you can combine the colours of enamelled glass with LED colours to produce an elegant and dynamic effect.

### • Choice of colour

Take advantage of the AGC range of enamelled glasses and give free rein to your creativity.

### • Shock-resistant and safe

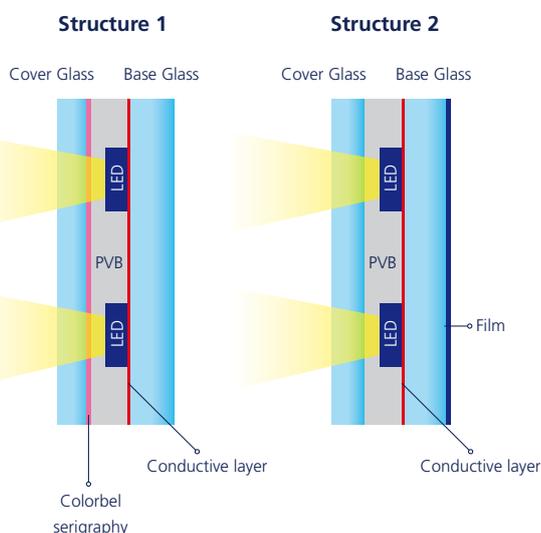
The cover glass is resistant to mechanical and thermal shocks, making it ideal for kitchen splashbacks. The laminated glass ensures people's safety.

### • Easy to install

Glassiled-Wall-Cladding 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	6 mm		LED Off
BASE GLASS	Planibel Clear					
COVER GLASS	Planibel Color					Visible
	Matelux (clear & colour)					Milky
	Colorbel - sandblasted holes (1 side)					Visible
	Colorbel - sandblasted holes (2 sides)					Milky dot
PVB thickness <sup>(1)</sup>	Monocolor LED : 1,5 mm PVB					
Standard dimensions	MIN = 200 x 600 mm			MAX = 1500 x 2700 mm		
Edge finishing	4 free edges with cable coming out in 1 corner - Option 1 : Cover glass with grinded/polished edge, Base glass 5 mm shorter all around - Option 2 : Lamination of grinded/polished edge glass with PVB (tolerance $\pm$ 1 mm) - Option 3 : Flat grinded/polished edge glass after lamination (not possible for Colorbel and tempered glass) - Option 4 : Anodised aluminium rail on 4 sides (U profile 30 mm wide)					
Glass finishing	On request: mono or bi-component silkscreen printing / black non transparent film (opacification)					
<b>LEDs</b>						
Type	Standard low power LED (decorative and signalling applications)					
Intensity / LED <sup>(2)</sup> <small>(pour 4 mm verre clair et fonction de la couleur des LED)</small>	10 to 600 mcd/LED					
	Monocolor <small>(cool white 6200 K, warm white 3000 K, red, green, blue)</small>			RGB		
MAX number of non-overlapping circuits	3			1		
MAX different LED color / Glass	3			-		
MAX number of LEDs	200 LED / m <sup>2</sup>			100 LED / m <sup>2</sup>		
MIN Distance between LEDs	15 mm			50 mm		
MIN Distance between LED and glass edge	30 mm			50 mm		
<b>ELECTRICAL PARTS</b>						
Power supply	- Basic power supply: On/Off , SELV - Advanced power supply : dimming and interface to external controler					
Electrical properties	Between 12 VDC to 160 VDC, depend on product size, number of LEDs, LED type and arrangement					
Connecting cable	1 cable out of the glass at one corner, 3 m long with polarized plug					
Non contact switch (Option)	Thin (4 mm) electronic module with dimmer + non contact sensitive switch ON/OFF to control LED					
<b>USE</b>						
Restrictions	- All conditions applicable to AGC laminated glass (Stratobel) are valid - Internal use only - MAX ambiance operating temperature (with LEDs ON): 35 °C - MAX temperature (with LEDs OFF): same than standard AGC laminated glass					
<b>CERTIFICATION</b>						
Laminated Glass Standards Electrical Safety Standards Electromagnetic Compatibility Standards	Compliance to 14449 Compliance to EN 60598-2-1 Protection: Class II / IPx4 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.

