

## SGG PLANILAQUE® EVOLUTION

This document contains important instructions and information regarding use of SGG PLANILAQUE® EVOLUTION.



*Lacquered glass  
installation and use  
instructions*



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# General information

## 1. General information

SGG PLANILAQUE® EVOLUTION is a lacquered glass whose rich colour is a result of depositing highly resistant lacquer onto the back surface of the glass and next hardening it by exposing to high temperature.

The base glass used for production of lacquered glass is SGG PLANICLEAR with lowered iron content and SGG DIAMANT – low-iron glass, used for specific colours (SGG08 Light Blue, SGG11 Ultra White and SGG33 Soft Ecu).

SGG PLANILAQUE® EVOLUTION is available in 17 different colours.

Distinguishing features of the product:

- It matches modern interior design.
- It can be combined with all materials that are used in interiors.
- Durable finish of the surface.
- Fire and humidity resistance.

- Safety.
- Easy processing.

While using lacquered glass, several crucial rules should be observed:

- Use only indoors.
- Avoid installation of the lacquered glass in the vicinity of heat radiators (temperature over 45 °C) – excessive heating of the glass sheet may result in damage to the coating or glass breaking.
- Avoid scratching the lacquer coating. Take into account mechanical impact, e.g. mounting in doors or furniture fronts.
- Avoid constant exposure to moisture (bathrooms are not classified as places with constant exposure to moisture). However, if it cannot be avoided, e.g. installations in

gym or fitness rooms, riding halls, swimming pools, spa rooms, saunas and neighbouring rooms, or similar rooms in which extreme air humidity or corrosive vapours are present, we recommend the SGG PLANILAQUE STADIP laminated glass. It provides not only lacquer coating protection, but also safety of use – in case of shattering, glass elements remain glued to the interlayer.

# Storage

## 2. Storage

In accordance with General Sales Terms, any damages resulting from transport should be reported to the carrier. If lacquered glass or the packages are affected by moistness, e.g. due to temperature changes during transport, remove damp material immediately and dry the glass prior to further storage.

- Lacquered glass must be stored in vertical position (at an angle of up to 6 to 7 degrees). Pay attention to the box marking ("this end up" sign). In case of loose storage of the glass, thickness of a glass package should not exceed 300 mm, as

it provides proper air circulation. The glass should always face front. Never place glass with their lacquered sides facing each other.

- Store the glass only in roofed, enclosed and dry rooms with heating up to approx. 10 °C during cold periods and vented during hot weather. Do not store the glass in a direct vicinity of heat sources, corrosive materials or vapour sources (chemicals substances, solvents, fuels, acids, etc.).
- In order to prevent damage, store the lacquered glass on a vibration-

safe surface (wooden or plastic pads), standing only on the edge, not on the corner.

- For storage of lacquered glass, follow the FIFO rule, i.e. old supplies are to be used first.

# Processing

## 3. Processing

- SGG PLANILAQUE® EVOLUTION lacquered glass can be cut into any geometric and irregular shape. It can be drilled and subject to edge processing (oblique cutting, beveling and sanding). The glass can also undergo sand-blasting, engraving or screen-printing.
- For lacquered glass processing, avoid scratching of the lacquered surface and do not use aggressive acid solutions, strong bases or abrasive materials. Residues of the agents used during processing and cleaning must be removed from the finished product. In addition, take care of cleanness at glass handling stations while cutting and processing.
- SGG PLANILAQUE® EVOLUTION lacquered glass can not be toughened.

# Installation

## 4. Installation

### Selection of the fixing system

Selection of the glass fixing system depends on applicable requirements, i.e. the purpose of the glass, the surface on which the glass will be installed, glass thickness and the impact of ambient conditions. Regarding all installations, in particular on ceilings, relevant safety rules should be followed.

The most commonly used fixing methods:

- chemical bonding agents
- mechanical fixing systems
- combined (chemical/mechanical) fixing systems

Whatever the method adopted, make sure the fixing planes meet with each other precisely.

### Installation instructions and ventilation

The following installation rules should always be observed:

- In order to ensure appropriate ventilation, the gap between the

lacquered glass and the base surface should be at least 5 mm for glass up to 1 m in height or 5 mm to 10 mm for higher glass. If the proper distance cannot be maintained, provide the best possible ventilation of the rear side by selecting the type and method of application of the fixing measure (vertical arrangement of adhesive tapes/adhesives, use of spacing brackets).

- For glass installation without ventilation of the rear side, sealing of the joint edge is recommended. It shall protect the glass rear side from being affected by external conditions. Always observe manufacturer instructions regarding the bonding time of fixing agents before sealing of glass edges.
- For multi-part glass surfaces, keep the right distance between the edges.
- For installation of glass in profiles, usage of spacers between the glass edge and the profile is recommended.
- Fixing materials should have no aggressive properties.

### 4.1 Base surface preparation

- The surface/base surface on which the lacquered glass is installed should be clean, dry, free of moisture, acids residues, bases and other aggressive agents. The base surface should be primed.
- The base surface should be even and not subject to buckling.
- The rear side of the lacquered glass should be properly prepared and degreased

Following instructions issued by assembly materials manufacturers is always recommended.

# Installation

## 4. Installation

### 4.2 Chemical fixing systems

SGG PLANILAQUE® EVOLUTION lacquered glass may be fixed using solely following chemical systems:

- a special adhesive for mirrors,
- a neutral alcohol- or oxime-based silicone (in a neutral colour),
- a dedicated double-sided adhesive tape.

Acidic adhesives are not recommended. If any doubts regarding suitability of the adhesive exist, make a test on the varnish.

Fixing materials (adhesives, silicone, tapes) should be applied evenly on the surface in parallel vertical lines.

Always exercise caution while applying silicone on SGG PLANILAQUE® EVOLUTION SATIN lacquered glass, as stains cannot be fully removed from matt surface.

Always follow instructions provided by the manufacturer of fixing materials.

### 4.3 Tested fixing materials

SAINT-GOBAIN INNOVATIVE MATERIALS, GLASS Branch has conducted

Designation	Description	Manufacturer
Fix All Crystal	All-purpose adhesive (colourless)	SODAL
UNI-FIX	Adhesive-sealant (white)	DEN BRAVEN
Mirror silicone	Cream-coloured	JKK
Grafen Hybryda 50	Hybrid adhesive	GRAFEN
Sensil - HYBRID Sealant		SENSIL
Mirror silicone	Colourless silicone	LAKMA
Tesafix 4957 PV15	Double sided mounting tape of polyethylene foam	TESA

a test of selected fixing materials. The following fixing products have been successful in terms of adhesion and have shown no discoloration during a one-time laboratory test carried out in Q2 2015.

SAINT-GOBAIN Group is not an adhesive manufacturer, and therefore it does not guarantee neutrality of the adhesive used by the Customer and holds no liability for properties of the products specified in these instructions. In case of any doubts relating to the assembly materials, perform their test in accordance with the manufacturer's instructions.

### 4.4 Mechanical fixing systems

SGG PLANILAQUE® EVOLUTION lacquered glass can be installed with the use of mechanical elements, by means of:

- screwing with wall spacing;
- special U-shaped rails;
- magnets.

# Maintenance

## 5. Maintenance

In order to remove stains appearing during daily use, chipping, droplets, etc., glass must be wiped using only a clean and soft cloth and a typical glass cleaning agent, which is neutral and contains no abrasive particles. The agents with strong acidic or basic substances cannot be used, as

they can permanently damage glass surface. Strong stains, e.g. fat, cosmetics, etc. may be removed using chamois leather once washed in lukewarm water and squeezed. Once wiped, a glass sheet should not be wet, and no droplets may be left on the edges.

To ensure durability of the coating, avoid permanent moisture deposition on the edge.

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Note! In case of use inadequate cleaning agents, the manufacturer shall not be liable for any possible damages of the glass.