

# SURFACE COLLECTION

GLOW | Specifier Guide



# SURFACE COLLECTION

## GLOW | Panel Information

### DESCRIPTION

GLOW panels consist of a PureCore® premium quality medium density fiberboard (MDF) substrate with a co-extruded polymer high-gloss acrylic top layer.

### APPLICATIONS

GLOW panels are suitable for interior vertical surfaces such as wall panels, fixtures, displays, cabinet doors and drawer fronts and components. GLOW panels are ideal for any writable surface.

### COLOR OPTIONS



Pure White



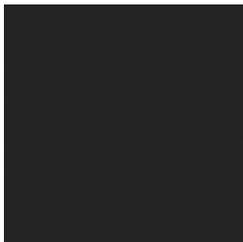
Cream



Beige



Grey



Dark Grey



Metallic Grey



Metallic Silver



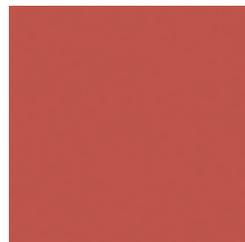
Black



Fly Yellow



Orange



Red



Corsa Red

### PANEL SPECIFICATIONS

GLOW panels are available in standard sizing of 4'x8' or cut to size.

### LAMINATION

GLOW panels are polyurethane (PUR) laminated in a Class 100 (ISO5) cleanroom, a manufacturing process uniquely suited for the lamination of high-gloss materials to achieve spectacular results.

# SURFACE COLLECTION

## GLOW | User Guide

### DESCRIPTION

The surface of the GLOW panel is covered with a protective film, which should stay on during processing and installation. After removal of the film, the surface is ready for daily use. No additional polishing is necessary.

Best results for machining GLOW panels will be achieved by using high speed, very sharp carbide tools and moderate feed rates.

A GLOW laminated panel may react to severe changes in humidity and temperature. A curvature of up to 2 mm/1000 mm may occur in some extreme environmental conditions.

Excessive curvature can be minimized by avoiding long narrow panels and by ensuring adequate hinging and fixing support is provided.

### CARE AND HANDLING

GLOW panels should be stored horizontally and must be well supported at all times.

- > Leave protective film in place until the project is complete.
- > Do not store panels outside.
- > Avoid sliding the panels on the outer face surface to protect the film.

### CLEANING

Best results will be achieved using wet micro-fiber cloths or chamois with non-abrasive soap or detergent.

- > Do not use brushes, scourers or scrapers at any time.
- > Do not clean GLOW panels in direct sunlight.

### SCRATCH RESISTANCE

GLOW panels high-gloss surface is scratch resistant, but not "scratch proof". Please take precautions to protect the surface until the product has been properly installed.

### PROCESSING

GLOW panels can be sawn, drilled or router cut. Use very sharp carbide tools and moderate feed rates

Ensure masking film is cut cleanly.

Adjust the process so there are no masking strands at the edge to complicate the edgebanding process.

Refer to GLOW Machining Guide for detailed information.

### INSTALLATION

- > Adequate fixing should be provided at no greater than 500 mm centers.
- > Soelberg Industries recommends an air gap of 6 mm adjacent to ovens and other heat sources.
- > When attaching decorative hardware, be careful to not over tighten as this can distort the surface.

### HINGE RECOMMENDATIONS

Be sure to test hinge drilling on a test piece to ensure proper depth and back set.

Up to 800 mm	2 hinges
800 to 1300 mm	3 hinges
1300 to 1800 mm	4 hinges
1800 to 2100 mm	5 hinges
2100 to 2440 mm	6 hinges

# SURFACE COLLECTION

## GLOW | Machining Guide

### ROUTING

- > Router cut using a feed rate of 10 to 15 meter/minute with a spindle speed of 15 - 20,000 rpm.
- > Diamond or solid carbide compression cutters will deliver the best cut finish.

### PROTECTIVE FILM

GLOW panels are supplied with a protective film which should not be removed until the product is installed and the project is complete. Ensure finished items with masking film are not stored in direct sunlight as the masking film could be affected and could be difficult to remove.

### SAW CUTTING

- > Use very sharp carbide tipped or diamond blades for best results along with a bottom scoring blade.
- > Soelberg Industries recommends single sheet cutting on panel saws to avoid damage from debris between sheets.

### DRILLING

- > Drilling can be done using high speed steel or carbide tipped drills.
- > Best results will be achieved using drills with a tip angle of 110 to 130 degrees.
- > Use slow to medium speeds to avoid overheating the material.

### EDGE BANDING

Soelberg Industries recommends using laser, hot air, or PUR edgebanders for best results. EVA can also be used with good results, but it is important to maintain color integrity through proper temperature control and glue pot maintenance.

Best results will be achieved by using radius tooling to match edgebanding thickness. Scaping should be done. Be sure to produce test panels to ensure proper setup on machining stations with a matching radius scraper set with a low level of deflection.

- > Use mineral spirits sparingly if necessary to remove any glue residue.
- > On some edgebanders it may be necessary to fold the masking film back from the edge to ensure the film is clear or the glue line.

# SURFACE COLLECTION

## GLOW | Properties & Performance

GLOW panels are constructed with a Senosan AM1800TOPX-11-1 (Hardcoat) acrylic layer. The technical data below refers to this product as it is intended to be flat laminated in different substrate materials for interior furniture. Soelberg Industries uses MDF core material.

Properties	Test Method	Unit	Values
Scratch resistance	IHD-W-466 Method A		Class 1 Loss of gloss <20%
Abrasian resistance	SENO company standard QPA-25-LT	Load: 1 kg Strokes: 20 Steel wool type: 00	Class 1 No changes or scratches visible
Chemical resistance	DIN 68861/T1 Rating group 1A		No changes visible
Resistance to dry heat	DIN 68861/T7 Rating group 7D	°C	75
Resistance to wet heat	DIN 68861/T8 Rating group 8B	°C	70
Behavior to water vapor	AMK module 2		No changes visible
Top surface gloss	DIN 67530 60° glossmaster	GLE	>85
Haze	DIN 67530		<10
Color fastness, resistance to weathering (furniture indoor application)	ISO 4892-2 Total color difference after 200h Xenon test		DE* <1.7
Density	ISO 1183-1 23°C	g/cm <sup>3</sup>	≥1.07≤1.11
Burning resistance	UL 94		n.d

Test results may vary by color and design. This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be understood as guaranteeing specific properties of the products as described or their suitability for a particular application.

\* Tested on raw materials used in this product.

### SPECIAL ADVICE

The values in this document refer to the flat unformed sheets of acrylic. Because of the influence of the application technology and the core materials used, these values may differ slightly from the finished product.

These instructions for use have been developed by Senosan GmbH in good faith and using its know-how and experience as of today. We explicitly reserve the right to change or update these instructions at any time.

Further processing and use of the products and use can have various impacts on the products.

Therefore, Senosan does not guarantee or warrant for the fitness, suitability or adequacy of their products for any purpose intended by the purchaser or any third person and shall have no liability whatsoever in this respect. The purchaser has the obligation to test the products and determine if the products are fit for the intended use.

Senosan shall, neither directly or indirectly, indemnify nor hold harmless purchase or any third person in the event of any third party claims related to the infringement of intellectual property rights.

# SURFACE COLLECTION

## GLOW

### WARRANTY

Soelberg Industries warrants that for a period ten (10) years from the date of purchase, that the GLOW panels will be free from defects in material and workmanship. This Limited Warranty extends to only the original purchaser or the first retail purchaser of the GLOW panels. If during such ten (10) year period, the GLOW panels are defective in materials or workmanship, Soelberg Industries will, at its sole discretion, either repair or replace the defective portion of the GLOW panels. Labor to repair or replace the defective portion of the GLOW panels is not the responsibility of Soelberg Industries. This Limited Warranty does not cover damage resulting from or in any way attributable to improper use, storage, shipping, handling, installation or modification of the product.