

## **Panel composition & Overlay**

SanPlastSide is a full-birch plywood panel overlaid with a colored overlay. SanPlast is available in a wide range of colors and surfaces. The combination of technical properties with perfect plywood surface makes SanPlast an excellent product for various applications.

## **Basic panel**

The base plywood of "SanPlast" is "SanBirch", which is bonded with a weather and boil-resistant phenolic resin adhesive. Designed and tailor made to serve as demanding applications, the panels can be ordered with specially oriented veneer structures, which provide an even higher strength properties

## **Surface**

The panel is overlaid with colored, 0,2 mm thick lightly structured (miniburl) polypropylene overlay. On customer request, the overlay can be supplied with special additives to make it resistant against the sunlight (UV).

The overlay can be bonded to plywood with class 2 resistant glue or class 1 resistant glue ( acc. to norm EN 314-2 )depending on customer request. The product is developed for indoor application.

## **Surface properties**

The surface of the overlay is slightly structured to improve wear and scratch resistance. Overlay is elastic, tough and does not crack. It is also moisture resistant and provides hygienic surface. The PPL overlay is safe to use and it is free of chlorine, halogens, formaldehyde and heavy metals.

The surface is easy to clean with water and normal detergents. Strong acids, alkalis and e.g. acetone may cause visual changes on the surface.

SanPlast plywood products have very high surface quality and the surface is susceptible to scratches due to its softer appearance, extra caution has to be practiced in handling and storing the panels to prevent damage. Extreme moisture penetration may cause visible changes on the appearance of the product

Technical properties of surface

- Color stability 6-7 according to DIN 54404
- Color change  $\Delta E < 1$  according to ISO 4892-2 (600 h) - in case of UV resistant coating
- Crack resistance EN13696 no cracks
- Impact resistance Class IC3 according to EN438-2 \* Abrasion resistance is tested according to EN 438-2 / DIN53799

### Thicknesses, structures and thickness tolerances

The thickness tolerances fulfil the requirements of standard EN 315 and is in part more stringent than the official requirements.

#### Thicknesses, structures and thickness tolerances of the panels.

Nominal Thickness (mm)	Number of plies (pcs)	Thickness tolerance		Weight (kg/m <sup>2</sup> )
		min. (mm)	max. (mm)	
6.5	5	6.1	6.9	4.4
9	7	8.8	9.5	6.1
12	9	11.5	12.5	8.2
15	11	14.3	15.3	10.2
18	13	17.1	18.1	12.2
21	15	20.0	20.9	14.3
24	17	22.9	23.7	16.3
27	19	25.2	26.8	18.4
30	21	28.1	29.9	20.4

### Bonding class of Plywood

Our plywood panels are bonded with a weather and boil- resistant phenolic resin adhesive (WBP, BFU, AW, exterior). The gluing of the plywood meets the requirements of the following international standards: EN 314-2 /Class 3 (exterior) •

### Formaldehyde Emissions

Determined according to EN 717-2, the formaldehyde emitted by San Giorgio panels falls far below the Class E1 requirement of  $\leq 3,5 \text{ mg}/(\text{m}^2 \cdot \text{h})$ . The formaldehyde emission of San Giorgio's plywood is approximately  $0,2 \text{ mg}/(\text{m}^2 \cdot \text{h})$ .

## Panel strength properties

Moisture content 12%. The values are EN 789 values.

Thickness (mm)	Mean Modulus of Elasticity (N/mm <sup>2</sup> )		Characteristic Bending Strength (N/mm <sup>2</sup> )	
	II	I	II	I
9	11395	6105	31.9	32.1
12	10719	6781	30.0	33.2
15	10316	7184	28.9	33.8
18	10048	7452	28.1	34.1
21	9858	7642	27.6	34.3
24	9717	7783	27.2	34.4
27	9607	7893	26.9	34.5
30	9519	7981	26.7	34.6

## Size tolerances

Measured in accordance with standard EN 324, the plywood size and squareness tolerances meet EN 315 requirements.

### Panel tolerances

Length / width	Tolerance
< 1000 mm	±1mm
1000-2000 mm	±2mm
> 2000 mm	±3mm
Squareness	±0.1% or ±1mm/m
Edge straightness	±0.1% or ±1mm/m