

## SanLaser

### BASE PANEL

This product line is developed specifically for *die-making* application.

Core plywood is a full-birch panel, composed (unless specific demand) with a cross-grain veneer layup. Also interior veneers are sorted with specific criteria to make a uniform cut during laser engraving. The surface veneers might contain wood plugs or minimal putty reparations on the surface.

### OVERLAY

Base panels can be offered as RAW, VARNISHED or FILMED

### THICKNESSES TOLERANCE

The thickness tolerances of San Giorgio is more stringent than the European requirements (standard EN 315) . For specific customer needs San Giorgio tolerances can customized upon request.

NOMINAL THICKNESS	NUMBER OF VENEER PLYS	THICKNESS TOLERANCE		TARGET
		Min. [mm]	Max. [mm]	
[mm]	[pcs]			[mm]
6,5	5	6,4	6,7	6,5
9	7	8,7	9,0	8,9
12	9	11,6	12,0	11,8
15	11	14,6	15,0	14,8
18	13	17,6	18,0	17,8
20,5	15	20,1	20,5	20,3
21	15	20,6	21,0	20,8
22	16	21,6	22,0	21,8

\*. THICKNESS MIGHT SLIGHTLY CHANGE DEPENDING ON TRANSPORT AND STORAGE CONDITION. THE REPORTED VALUES ARE MEASURED IN SAN GIORGIO

### SIZE TOLERANCES

Measured in accordance with standard EN 324, the plywood size and squareness tolerances meet EN 315 requirements. For specific customer needs San Giorgio tolerances can reduced upon request.

LENGTH / WIDTH	TOLERANCE
< 1000 mm	± 1 mm
1000 – 2000 mm	± 2 mm
> 2000 mm	± 3 mm
Squareness	± 0.1% or ± 1mm/m
Edge straightness	± 0.1% or ± 1mm/m

GOOD  
TO  
KNOW



### **BONDING CLASSES**

San Giorgio has developed a Modern Gluing System focusing on die-making needs, in order to guarantee good stability and lowest emission for the workers' safety during the laser-cut. SanLaser uses an Interior glue (not suitable for external applications). The gluing meets the requirements of the following international standards: EN 314-2/Class 1

### **SPECIFIC WEIGHT / DENSITY**

The Density of San Giorgio plywood (750kg/m<sup>3</sup>). SanLaser is around 6% more dense compared to normal birch plywood.

This gives a great hardness and durability to the plywood

### **FORMALDEHYDE EMISSIONS**

Determined according to EN 717-2 and 717-1 the formaldehyde emitted by San Giorgio panels falls far below the Class E1 and E05

The formaldehyde emission of San Giorgio's plywood with INT glue is in average 0,035 ppm and with EXT glue is in average 0,02 ppm therefore all San Giorgio Plywood meets the stricter parameters world wide as ULEF - TSCA title VI - CARB P2 Compliant