TroWood Veneer

Physical Properties	Specification	Test Method
Substrate	Plywood made from peeled poplar veneer	
Colors & Variance	See catalogue or visit our webshop https://shop.troteclaser.com/	
Thicknesses	.12” (- .012/+ .02)	
Sheet Sizes	23.6”x11.8” (+/- .04”)	
Flatness	Max. deviation .2”*	
Surface Condition	Smooth, matte and lacquered surface	
Fabrications Properties	Laser, Saw	
Use	Interior	
Surface finishing	UV-curing water-based top coat Gloss level 9 = dull matt Density .037- .038 lb/in³ at 68°F	Gloss levels are determined according to standardized procedures; this depends on the amount applied
Wood Glue	IF20 according ÖNorm B 3008 Indoor moisture resistant (formaldehyde class E1)	Internally laser approved Formaldehyde according EN-120

* Storage/acclimatization in a flat state is required, warpage can be greater immediately after transport or if stored incorrectly

Restriction of Hazardous Substances (RoHS)/ U.L. Certification/Halogenated Materials Trotec has investigated the Restriction of Hazardous Substances (RoHS 3) directive issued by the European Union (directive 2015/863/EU). This RoHS directive prohibits the distribution of products after June 2015, which contain the following materials: lead, mercury, cadmium, hexavalent chromium, poly-brominated biphenyls and poly-brominated diphenyl ethers. The directive appears to apply to all products that operate on electrical power and contain electronic components. Trotec complies with the use and disclosure of all halogenated materials and does not incorporate poly-brominated biphenyls or poly-brominated diphenyl ethers in any of its products. Based on our audit, Trotec plastic sheet products are in compliance with this directive and do not contain any of the elements noted above or in the candidate list in accordance with the referenced directive. Our related MSDS documents may be found in the Trotec webshop (shop.troteclaser.com) at the related article and can be referenced for further information.

All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses, and that purchasers assume all risks and liability for the results of use of the products, including use in accordance with seller's recommendations, Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or by others. THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PURPOSE. PRODUCTS WILL MEET SELLER'S STANDARD SPECIFICATIONS THEREFORE, BUT THERE ARE NO OTHER WARRANTIES FOR THE PRODUCTS DESCRIBED.

Certifications: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 (Certificate can be found on the Trotec-Website)

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Frequently Asked Questions

How do I notice differences in quality when laser processing wood?
In general, wood can be processed perfectly with a laser. There are differences due to the surface texture and gluing of the panels, so there can be big differences in the quality of the suction filters in terms of stability. If the quality is poor, the glue spots can also be unsightly visible when cutting or engraving. Our wood has been developed for laser processing.
When processing wood sheets on a laser we recommend taping it down to the working table
which will give you a better laser result.

How do I use parameters in Ruby® and JobControl®?
In Ruby® and JobControl® you will find parameters optimized for quality and for speed.
"Quality" parameter sets are recommended for applications where fine detail and strong contrast is required.
"Speed" parameters are for time-efficiency orientated applications, where a reduced degree of detail in engraving is acceptable.

Can there be quality differences from panel to panel?
Wood is a living material, and each plate is unique. A continuous homogeneous surface and a uniform appearance is therefore not always possible.

What is the difference between Solid and Veneer?
The appearance of the surface is real wood in both cases. Solid wood is made from one wood throughout its entire material thickness; a cheaper alternative is veneer; the core is made of low-formaldehyde MDF.

What needs to be considered regarding formaldehyde in MDF and Plywood?
The wood products used at Trotec are all tested and approved for laser processing. In Europe, a classification according to EN120 was made, according to which all products meet the E1 (0.10 ppm) requirement for indoor use. Solid wood also naturally contains small amounts of formaldehyde, but this is harmless. Solid wood also naturally contains small amounts of formaldehyde, but this is harmless. The emission ranges between 0.002 ppm (oak) and 0.009 ppm (pine).

What should be considered when storing wood?
Wood should always be stored in the original manufacturer's containers and stored flat. If this is not possible during transport, or if the product is exposed to strong temperature and humidity fluctuations during transport, it is recommended to allow the panels to acclimate to the room climate for 48 hours. This can be supported by adding weight on to the sheets.

What does sustainable sourcing and sustainable forestry mean for Trotec?
The wood for our TroWood panels is purchased in Europe from forests that host native trees. Our partner's commitment to sustainable forest management goes beyond mere certifications; they actively engage in regular inspections and comply with ethical sourcing. This dedication ensures that the wood we source meets the highest standards of sustainability.
We carefully select partners with wood materials from nearby, well-managed forests in Europe and controlled sources. By prioritizing regional suppliers, we minimize transportation distances, reducing our carbon footprint and supporting the local economy.

Icon Legend

Laser material
This material is suitable for processing on a laser device.

Rotary material
This material is suitable for processing with mechanical engraving devices.

Reverse engraving
This material is engraved from the back using mirrored graphics. The engraved area can be infilled or backlit to enhance the contrast against the colored background.

Front engraving
This material is engraved from the front side.

Exterior use
This material is tested for UV-resistance and suitable for outdoor use.

Indoor use
This material is suitable for interior applications.

Adhesive possible
Adhesive backing can be applied on selected materials.

UV-Print-Icon
This material is especially suitable for UV/ digital printing.

Grey Icons
All symbols in grey mean that the respective application does not apply.