

ALPIlignum /

16.01

Collection Wood

Wood+

Product

ALPI Radiant Black

Texture

Quartered

Size

2500x320 mm

ALPIkord /

Size

NA

Wax

NA

Groove

NA

Light Gloss

NA

Bright Gloss

NA

ALPIrobur /

Size

NA

Soft

NA

Matt

NA

Pore

NA

Brushed

NA

ALPIlignum Radiant /

ALPIlignum Radiant is a wood veneer with plastic and wood interlayers.

Standard Dimensions and Structure /

Poplar based Wood	length 2500 mm width 320 mm and 620 mm
Ayous based Wood	length 2500 mm width 320 mm and 620 mm
Bass based Wood	length 2500 mm width 320 mm and 620 mm
Veneer Nominal Thickness	0.6 - 0.8 mm
Board Nominal Thickness	min 3 mm - max 300 mm
ALPIlignum pattern	Quartered

Transparent Lines /

Transparent Line Width	0.25 mm - 0.375 mm - 0.5 mm
Minimum Spacing Transparent Line	4 mm

ALPIignum Radiant /

Formaldehyde Emission /

In compliance with E1 (analyzed according to EN 717).

On request ALPI can supply ALPIignum Radiant with two levels of formaldehyde emissions below the E1 standard:

BE - ALPIignum Radiant with a formaldehyde emission level equal to a fraction of the E1 standard.

ZeroF - ALPIignum Radiant without added formaldehyde. It is in any event impossible to guarantee a complete absence of formaldehyde in ALPIignum Radiant wood veneers as formaldehyde is a naturally occurring substance in wood.

Light Fastness /

ALPIignum Radiant is not a finished product and therefore its resistance to light in part depends on the cycle and chemical nature of the finish. On demand, ALPI can supply a version of ALPIignum Radiant which, if varnished with an appropriate varnishing cycle, can achieve values of > 3 on the grey scale(EN438-2/27). The buyer is advised that discoloring may occur. It is recommended that the buyer perform advance tests depending upon the particular purpose and intended use in order to optimize results.

Mechanical Specifications /

The mechanical characteristics of ALPIignum Radiant depend on the cycle and chemical nature of the finish and type of backing. It is recommended that the buyer perform advance tests depending upon the particular purpose and intended use in order to optimize results.

Colour and Structure /

Being a natural wood product, the reference color of ALPIignum Radiant may vary. It is recommended that before use the buyer check both the color and the grain of the delivered product against the product ordered.

Storage /

ALPIignum Radiant is mainly made of wood and its moisture content may be subject to variation depending on the storage and work environment. It is therefore advisable to maintain humidity in a range of between 40% and 70% (RH) and a reference ambient temperature of 20°C.

Warnings /

Avoid - even temporarily - any contact with water and other liquids. Avoid any moisture on the product surface. The product must be stored on a flat surface at least 200 mm to the ground. ALPIignum Radiant must be shielded from direct and indirect light.

ALPIlignum Radiant /

Backing /

ALPIlignum Radiant may be applied to the following backing: Polymethyl methacrylate (PMMA), Polycarbonate, Co-Polyester (PETG), Polyvinylchloride, (PVC), Polyester (PET) and Glass. Greater attention is required if the rear of the panel has a aesthetical function: in such cases, it is advisable to use opal, smoked, coloured or textured backing. The product may be applied on other types of backing. We suggest anyway to carry out some previous test.

Cutting /

ALPIlignum Radiant may be trimmed using a professional cutter machine with a simple bevelling blade to ensure a cut that is orthogonal to the plane. Another option is to cut using a high-powered laser to guarantee accurate rectilinear results. A further alternative is to cut using the assistance of a hand blade with metal reference squaring. In any event, it is advisable to undertake the cut along the centre line of the wooden section in order to minimize processing tolerances.

Splicing Multiple Sheets /

The seaming process may be undertaken manually with the assistance of masking tape, which should always be applied on the face-up side, and then subsequently be removed after the plating process. Automatic seaming systems may be used as an alternative.

Veneering /

ALPIlignum Radiant may be glued to plastic backing using hot melt polyurethane glue. For aesthetically-optimal gluing, it is advisable that after calendering ALPIlignum Radiant to the backing, the sheet be placed under a cold press to ensure that the glue is spread as evenly as possible. Glueing with solvent based acrylic glues and double-sided foam tape are advisable only if the back of the sheet is not exposed. For glueing on glass, it is advisable to adopt a vacuum glueing process using EVA-based glue. Different types of glueing and backing must be tested in advance on a case-by-case basis.

Sanding /

ALPIlignum is a composite material and the sanding step has to be operated to avoid excessive development of heat, on the decorative surface. To optimize the process, it is advisable to reduce 20% - 30% the speed of Sand-Paper Belt and selecting an appropriate Sand-Paper Grit Index (150-180 grit).

Varnishing /

ALPIlignum Radiant may be varnished using two-pack acrylic cycles of various glosses, or two-pack polyurethane cycles of various glosses, and ultra-violet drying acrylic cycles of various glosses. It may also be varnished using water-based cycles of various glosses. Different types of varnishing must be tested on a case-by-case basis.

Practical Advice /

To avoid possible alignment anomalies, during seaming it is possible to insert a section of ALPIlignum between the two portions of ALPIlignum Radiant to be seamed in order to make the coupling gap less visible. When assembling the ALPIlignum Radiant panels, it is possible to use sections of wood as a joint between the panels, or alternative materials such as aluminium. Heat generated by sources of backlighting may be detrimental to the flatness of ALPIlignum Radiant panels; it is advisable to use LED based lighting. Appropriate ventilation is recommended for heat dissipation.

Please contact ALPI's technical office for any further clarification. This technical data sheet supersedes and replaces any previous version. The information and recommendations herein have been compiled from the current information held by ALPI and may be our best knowledge updated to perform the higher results of the applications.