ALPI

ALPIlignum /

Product Code
18.46

Type
ALPI Japanese Cedar

Collection Designer

Design
Kengo Kuma

Texture
Design

Dimensions
24"x 124"



ALPIlignum /

ALPIlignum is a decorative veneer made of reconstituted wood.
In line with the sustainable approach at ALPI and the company's constant striving for excellence in the use of natural resources, ALPI veneer is made with wood from responsibly managed forests certified by FSC® (FSC-C084497).

FSC
www.fsc.org
FSC® C084497
The mark of responsible forestry

Standard dimensions /

Poplar based veneer	length 87”-99”; width from 24” to 28”
Obeche based veneer	length 87”-99”-110”-124”; width 14”, from 24” to 30”
Basswood based veneer	length 99”-124”; width 14”, from 24” to 30”

Special sizes available on request.

Nominal thickness available /

Thickness	from 0,42 mm to 2,8 mm

Not all products are available in all thicknesses.

Variations in size /

Width	-0 / +1”
Thickness	complies with standard ISO 18775 < 1,5 mm : +/- 0,05 mm; > 1,5 mm : +/- 4%

Wood Density /

28-56 lb/ft^3 (measured according to ISO 9427). Density depends on each product.

ALPIlignum /

Formaldehyde emissions /

Measured according to the standard UNI EN 717-1:2004, the formaldehyde emission of ALPIlignum complies with EU REACH Regulation E05 under EU 2023/1464.
It is impossible to guarantee the absolute absence of formaldehyde, because traces of it are naturally present in wood.

Lightfastness /

ALPIlignum is an unfinished product whose lightfastness depends on the chemical composition of the final finish and how it is applied. Upon request, ALPI supplies a type of ALPIlignum that can reach values above 4 in grey scale (UNI EN 15187:2024) if suitably finished. Customers must be aware that exposure to light can make the veneer fade or change color. ALPI suggests making precautionary tests based on the planned use in order to optimize performance.

Mechanical characteristics /

The mechanical characteristics of ALPIlignum depend on the chemical composition of the finish and the type of substrate used.
ALPI suggests making precautionary tests based on the planned use in order to optimize performance.

Color and grain /

Being a natural wood product, the color of ALPIlignum may vary slightly from the reference color. ALPI suggests verifying the color and grain of the veneer before use.

Storing /

The moisture content of ALPIlignum varies in accordance with the humidity of the space where it is stored and processed. ALPI suggests maintaining relative humidity levels between 40% and 70%, with a reference ambient temperature of 68° Fahrenheit.

Precautions /

Absolutely avoid contact, even temporary contact, with water and other liquids. Absolutely avoid condensation and dripping on the surface of the product. ALPIlignum must be stored flat, at least 8” from the ground, and protected from direct and indirect light.

ALPIlignum /

Veneering /

Gluing with urea adhesives

ALPIlignum can be glued with urea adhesive to all wood-based surfaces. Other types of surfaces must be tested and evaluated beforehand. The amount of glue per square foot depends on the material and thickness of the surface, on the structure and thickness of the veneer, and on press pressure. Generally, no more than 14 grams of glue per square foot is advised, combined with pressure between 21.7 and 72.5 psi. Veneering temperatures are between 185° and 248° Fahrenheit. Glue may be mixed with the proper extenders to modify the viscosity. This can reduce the effect of bleed-through (the occurrence of glue seeping through the pores of the wood and showing up on the face of the panel). Adding pigment to the glue in a color similar to the veneer is advisable. ALPIlignum made of basswood must be glued with at least 11-13 grams of urea adhesive per square foot.

Gluing with PVA adhesives

ALPIlignum veneer can be glued with PVA adhesive to all wood-based surfaces. Other types of surfaces must be tested and evaluated beforehand. Being thermoplastic, this type of adhesive must be applied in a precise quantity according to the veneer, the type of substrate it is affixed to, and the type of press in order to avoid bleed-through that is difficult to eliminate by sanding. In general, use between 8 grams and 10 grams of glue per square foot, with pressure between 21 and 50 psi. Veneering temperatures are between 86° and 158° Fahrenheit. Adding pigment to the glue in a color similar to the veneer is advisable. ALPI suggests making tests before use.

Gluing with hot-melt adhesives

ALPIlignum can be glued using hot-melt adhesives such as polyolefin, EVA (ethylene vinyl acetate), and reactive polyurethane. Hot-melt adhesive is mainly used on small surfaces such as edges, with the help of automatic systems with a mechanical clamp. Other methods of veneering must be verified by preliminary testing. ALPI recommends following the instructions of the adhesive manufacturer.

Sanding /

After gluing it to the desired substrate, ALPIlignum must be sanded with abrasive paper to eliminate imperfections and glue that has seeped through the pores. Sandpaper with grit grades 120–150–180 can be used singularly or in sequence, by hand or by electric sander. Grit grades 100 or 220/240 should only be used to obtain special effects.

Finishing /

Like all other wood, ALPIlignum requires finishing to protect and preserve it from chemical and physical deterioration given by light and heat, and from mechanical damage such as scratches and dents.
ALPIlignum can be finished using all methods and types of products that are recommended for wood. Special attention is needed when using water-based finish, because of the hygroscopic nature of wood veneer.
ALPI suggests using products with high wetting capacity, yellowing resistance, and high protection from ultraviolet rays.
Any water-based finish used must remain stable in moderately acid pH (4–6) conditions, such as products specifically formulated for acidic broad-leaved (hardwood) types of wood. ALPI recommends following the instructions of the finish manufacturer and conducting preliminary tests before proceeding.

For all additional clarifications, please contact the technical support office at ALPI. This data sheet replaces and annuls any older information. The information and recommendations contained in this data sheet are based on current knowledge at ALPI and could be modified in the future in accordance with new findings, evaluations or production systems. This advice does not constitute a warranty, either express or implied, and it does not modify our standard warranty for any product.
Users should carry out their own assessment of the product to satisfy themselves that it is suitable for their requirements.