ALPI

ALPIlignum /

Product Code
16.01

Type
ALPI Radiant Black

Collection Wood
Wood+

Texture
Quartered

Dimensions
11"x 99"

ALPIlignum Radiant /

ALPIlignum Radiant is a multilaminar wood veneer with decorative pinstripes in clear polycarbonate.

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 2500 mm width 300 mm - 420 mm
Ayous based veneer	length 2500 mm width 300 mm - 420 mm
Basswood based veneer	length 2500 mm width 300 mm - 420 mm
Veneer nominal thickness	0.6 - 0.8 mm

ALPIlignum Radiant /

Formaldehyde emissions /

The formaldehyde emission of ALPIlignum Radiant is category E1 according to the test requirements UNI EN 717-1:2004.
Upon request, ALPI supplies two types of ALPIlignum Radiant with formaldehyde emissions that are lower than the E1 standard.
NBE – ALPIlignum Radiant emits a fraction of the formaldehyde emissions allowed by the E1 standard.
ZeroF – ALPIlignum Radiant is devoid of added formaldehyde.
However, it is impossible to guarantee the absolute absence of formaldehyde, because traces of it are naturally present in wood.

Lightfastness /

ALPIlignum Radiant is an uncoated 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 Radiant that can reach values above 4 in grey scale (UNI EN 15187:2007) 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 Radiant depend on the chemical composition of the finish used and the type of substrate the veneer is affixed to. ALPI suggests making precautionary tests based on the planned use in order to optimize performance.

Colour and grain /

Being a natural wood product, the color of ALPIlignum Radiant 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 Radiant 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 20° Celsius.

Precautions /

Absolutely avoid contact, even temporary contact, with water and other liquids. Absolutely avoid condensation and dripping on the surface of the product. ALPIlignum Radiant must be stored flat, at least 20 centimeters from the ground, and protected from direct and indirect light.

ALPIlignum Radiant /

Backing /

ALPIlignum Radiant can be affixed to polymethyl methacrylate (PMMA), polycarbonate, copolyester (PETG), polyvinyl chloride (PVC), polyester (PET) and glass. Increased attention is due if the rear of the panel is visible. Using opaline, fumé, colored or textured surfaces can help. The veneer can be affixed to other materials, which must be tested and evaluated beforehand.

Cutting /

ALPIlignum Radiant can be trimmed with a professional veneer guillotine with a single bevelled blade that cuts downward orthogonally to produce a clean cut. High-power laser cutting is another option for straight, crisp results. Alternatively, the veneer can be cut using a hand-held blade and a metal set square. When cutting lengthwise along the grain, ALPI recommends slicing down the centre of a wood section to obviate any deviation or divergence of the polycarbonate stripes.

Joining veneer sheets /

Edges can be spliced together manually with tape to form a wider piece. Tape is applied to the outward facing side, and removed after the veneering process. Alternatively, automatic seaming systems can be used.

Veneering /

ALPIlignum Radiant can be affixed to the above-mentioned plastics using polyurethane hot-melt adhesive. For optimal aesthetic results, once the veneer is affixed to the substrate, the panel is placed under a cold press to improve even spreading of the glue. Solvent-based acrylic glue or double-sided tape are recommended only if the rear of the panel will not be visible. When gluing to glass, the use of EVA (ethylene vinyl acetate) glue under vacuum press is advised. Other types of adhesive and other types of substrates must be tested before use.

Sanding /

ALPIlignum Radiant being a composite material made of wood and plastic, the sanding process must use the proper type of belt and the proper speed. This will avoid overheating the plastic stripes, causing them to become wavy, and prevent too much wood being worn away. ALPI recommends reducing the speed of the sanding belt by 20% to 30% compared to the standard sanding speed for all-wood veneer. Abrasive paper with grit size 150–180 is appropriate.

Finishing /

ALPIlignum Radiant can be coated with two-component acrylic finish, two-component polyurethane finish, ultraviolet-cured acrylic finish, and water-based finish– all in various degrees of shine. ALPI recommends testing other types of finish before proceeding.

Helpful tips /

To avoid alignment defects, it is possible in the joining phase to insert a section of ALPIlignum between two sections of ALPIlignum Radiant. This makes misalignment of the parallel stripes less visible. When installing the panels of ALPIlignum Radiant, it is possible to use profiles of wood, aluminium or other materials as connectors between the panels for pleasing aesthetic results.
Heat generated by back-lighting could cause panels of ALPIlignum Radiant to warp. Light-emitting diodes are recommended, as is ventilation that allows heat to dissipate.