

# MULTI-LAYER PARQUET ELEMENTS

## 2 LAYERS

GENERAL INFORMATION	
MERCHANDISE CATEGORY	Prefinished, natural, varnished wood flooring (see attached transport document)
TIMBER SPECIES	European Oak (Quercus robur-Quercus petraea)
UNIT OF MEASUREMENT	Square Metre (SQM)
HARDNESS	From medium to high
DIMENSIONAL STABILITY	From medium to high
OXIDATION	From medium to low

### DESCRIPTION:

Prefinished wood flooring with two layers.

### FORMAT:

- a) Thickness: 10- 14/15 – 18 – 20/21 mm
  - b) Width:142/152/192/242 mm
  - c) Length: 1175-1750-2050-2350 mm (see attached transport document)
  - d) Thickness: lamella (before manufacturing) 3.3 - 4 - 6 mm (nominal)
- The wood flooring is available also with herringbone (90° or 45°) and with Hungarian-pattern (30/60°).  
The dimension changes slightly from the regular pattern:  
Length: from 100 to 1200 mm  
Width: 100 – 120 – 152 – 192 mm

Appearance class: Free class pursuant to the UNI EN 13489-2018 A/B, Character, Rustic, KR, A/B Alburno, Mix Grade; allowed limits are listed in the following table (all characteristics are allowed without restrictions on size and quantity, provided that they do not reduce the product's wear resistance and durability over time).

CHARACTERISTICS	CLASSES (FREE CLASS)					
	A/B	K Character	R/SR Rustico	KR	A/B Alburno*	Mix Grade
Sapwood	Slight presence	Medium presence	Allowed	70% R +30% K	Up to 50% of the element	R+K with no reference %
Knots (intergrown, unsound, filled)	Slight presence	Medium presence	Present	70% R +30% K	Slight presence	R+K with no reference %
Yellow stain	Allowed	Allowed	Allowed	70% R +30% K	Allowed	R+K with no reference %
Checks	Slight presence	Allowed	Allowed	70% R +30% K	Slight presence	R+K with no reference %
Bark pocket	Not present	Not present	Slight presence	70% R +30% K	present	R+K with no reference %
Lightning shake	Allowed	Allowed	Allowed	70% R +30% K	Allowed	R+K with no reference %
Curly grain	Allowed	Allowed	Allowed	70% R +30% K	Allowed	≤ 16,5 %
Slope of grain	≤ 16,5 %	≤ 16,5 %	≤ 16,5 %	≤ 16,5 %	≤ 16,5 %	R+K with no reference %
Heartwood	Slight presence	Medium presence	Allowed	70% R +30% K	Slight presence	R+K with no reference %
Colour variations (including black and red heart, etc.)	Slight presence	Medium presence	Allowed	70% R +30% K	Allowed	R+K with no reference %
Stick marks	Slight presence	Slight presence	Slight presence	70% R +30% K	Allowed	R+K with no reference %
Medullary ray / silver figure	Allowed	Allowed	Allowed	70% R +30% K	Allowed	R+K with no reference %
Biodeterioration	Possible presence	Slight presence	Slight presence	70% R +30% K	Possible presence	R+K with no reference %

Pursuant to the UNI EN 13489 -2018 standard and EN 1309-3:2018. Values are valid also for finished products: natural, varnished, slightly brushed, bevelled on four sides. In all classes it is possible to find a slight presence of bore holes (without insects) and of shearing/ slicing and / or chipping, which do not compromise the quality of the product.

ESSENTIAL FEATURES	PERFORMANCE
Density:	700-760 kg/m <sup>3</sup>
Reaction to fire*:	Cfl-S1 (EN 13501-1)
Formaldehyde emission:	Class E1 (EN 717 - 1)
Pentachlorophenol emission:	≤ 5 ppm
Breaking strength:	NSP
Slipperiness:	NSP
Biological durability:	CLASS 2
Heat resistance	0,088 m <sup>2</sup> k / W (thickness 15 mm)

\*Only for floor with coating

**STORAGE:**

The wood flooring must be stored in a dry place, in rooms not subject to moisture and condensation; try to store it in its original, intact packaging, protected from the light. Altered environmental conditions could compromise the product. Parquet packages must be placed on wood pallets and not in contact with the floor.

**INSTALLATION CONDITIONS:**

**Installation has to be done by qualified and properly trained personnel (UNI EN 11556:2014), in compliance with the norm UNI 11368-1 on gluing installation and UNI 11368-2 on floating installation.**

Before installation, make sure that, in the building site, all windows and door frames have been installed (panes included) and that the plaster on the walls is dry. In addition, the first coat of paint should have already been applied on the walls and are dry. Install the material in suitable rooms with a subfloor moisture not exceeding 2% by weight for normal or quick-drying cement-based screeds, 1.7% for heated screeds, and 0.2% for anhydrite screeds. Moisture must be checked immediately before installation using a carbide hygrometer. In compliance with the UNI 11371-2017 standard on screeds for wood flooring installation, the relative humidity of the environment must be no lower than 45% and no higher than 60%, with a room temperature of about 20°C and completely dried plaster on the walls.

Declaration of the screed installer on the application of the certified vapour barrier, in compliance with the UNI 11371-2017 standard, is required.

Underfloor heating: after the standard acclimation period (about 15 days), cooling and heating must be started up gradually to avoid thermal stress and condensation, which generate evaporation from below and can thus cause cupping in the installed planks or strips due to the anisotropic nature of the wood. In order to avoid the development of condensation on pipes or in areas close to cellars, we recommend using dehumidifiers in the winter season and humidifiers in the summer season. Underfloor heating systems should be regulated by boiler thermostat (for the water circulating in the coils); the thermostat temperature must not exceed 28/30 degrees Celsius. The temperature of the screed must never exceed 27 °C as described in the “IL PARQUET - Manuale per la posa di pavimenti in legno per uso civile” handbook (published by Edilegno/Federlegno Arredo) and as defined in the UNI 11371-2017 standard.

We recommend mixing different flooring packages before installation in order to achieve a more uniform installation result (colour and wood characteristics). As for installation, we recommend employing professional installers (**UNI EN 11556:2014**), in compliance with the following standards: UNI 11368-1 on gluing installation and UNI 11368-2 on floating installation. Before installation on a subfloor with underfloor heating, make sure that the chosen product is suitable for that type of subfloor and that there is at least 3.5 cm of screed above the coils. Then follow the correct installation procedure. In particular, be sure to follow all the steps required under the UNI 11371-2017 standard when switching on the heating. Moreover, refer to the UNI 11265-2015. For further information on installation, refer to the “IL PARQUET - Manuale per la posa di pavimenti in legno per uso civile” handbook (published by Edilegno/Federlegno Arredo). In the event of defects which are clearly visible on the product, please note that no claims whatsoever shall be accepted on products that have already been installed. By using or transferring ownership of the products, the buyer automatically accepts them as they are and acknowledges that they correspond to the agreed-upon products, thereby waiving any right to assert a claim. If any defects become evident during installation, the buyer shall immediately suspend the installation process and notify the manufacturer of the aforementioned defects within eight days of their discovery through a written registered letter. Failure to do so will void the warranty, pursuant to the UNI 11265-2015 standard. During installation, avoid the use of rubber hammers and adhesive tape in general, as they damage the surface finish. We recommend using specific tools for tapping the wood.

**MAINTENANCE INSTRUCTIONS:**

**Inevitably, signs due to clomping, dents, marks from objects or accidental situations that might change the flooring appearance, will be visible over time.**

For daily cleaning use a vacuum cleaner or broom with soft bristles to remove dust, a well-wrung floor cloth and neutral, non-foaming detergents specifically designed for wood floors. If the floor has been varnished, we recommend treating it periodically with a suitable product for the maintenance of varnished wood floors, but only after careful cleaning. The use of carpets and/or furniture on the floor may create areas where exposure to light is not possible, meaning the wood may remain light in colour: this is because it does not oxidise naturally at the same rate as the rest of the flooring. Make sure the relative humidity in the air is between 45% and 60% and that the temperature is no lower than 10 °C, and ideally between 18 °C and 22 °C. If humidity levels drop below 45%, wooden parts may crack and split in the centre, and the top layer of solid hardwood may delaminate. Ambient humidity levels higher than 60% may cause wooden parts to warp.

**USEFUL INFORMATION:**

The natural phenomenon of wood anisotropy is studied in institutes for surveyors, architects, engineers, designers, etc. For years, it has also been the focus of publications, magazines and technical refresher courses for construction schools and firms scattered throughout Italy. Wood should be used in environments which meet the same comfort standards required for human beings. In fact, the UNI EN ISO 7730 standard establishes the ideal comfort conditions at an ambient temperature of about 20°C with a humidity between 50% and 55%. The recommendations of this standard also coincide with the indications reported in the analytical table “Grundlagen der Luftbefeuchtung”, Iselt / Amrdt, C.F. Muller Verlag Heidelberg (Basic principles of air humidity, Iselt / Amrdt, C.F. Muller publishing house, Heidelberg). In examining the dangers of indoor environments, this table establishes parametric thresholds beyond which viruses, bacteria and fungi colonies can develop with extreme ease:

a- 0 to 30% of RHU = **bacterial growth, viruses, increased risk of respiratory infections, allergies and asthma, excessive ozone production.**

b- 60 to 100% RHU = **development of fungi, increased chemical activity leading to attacks brought on by fine dust, allergies and asthma.**

A given dimensional change in wood is related to a given quantity of water absorbed or released by the wood. If, in our absence, wood absorbs or releases moisture, it is possible to determine the magnitude of this event even after some time by conducting dimensional stability tests

in the laboratory, in compliance with the UNI EN 1910 or UNI ISO reference standards.

**PRECAUTIONS:**

Avoid placing heavy weights on small portions of the floor. Protect the floor surface properly with heavy woollen cloths if heavy objects (furniture, etc..) need to be moved around, and place suitable felt pads under the furniture (chairs, tables, etc..). Avoid water stagnation. Do not use solvents, ammonia, alcohol, acids and/or corrosive or abrasive products on the floor. In case flooring is supposed to be used in special places, surfaces or particular climatic areas, with high temperature variations and/or high or low humidity, please contact us to verify if the material is suitable to the use.

**DISPOSAL:**

The product must be disposed of properly in accordance with applicable laws and procedures.

**INSTALLATION ON HEATED SURFACES:**

This product is suitable for installation on heated surfaces, provided that the heating system is operating correctly and that there is no leakage of water or steam (see the relevant sheets attached). Please carefully follow all steps when starting up the system, in compliance with the norm UNI 11371-2017.

**NOTES:**

The planks are intended for flat surfaces only. Any other use could compromise the product's functionality. The flooring is composed by elements that are appropriate for indoor use, such as residential environments, light commercial environments such as private offices, shops; it is not recommended to use it in environments subjected to high/heavy and frequent load. In case flooring is supposed to be used in special places, surfaces or particular climatic areas, with high temperature variations and/or high or low humidity, please contact us to verify if the material is suitable to the use.

**\*In the free class “A/B Alburno” and in the classes where sapwood is present, it is guaranteed that the material does not contain larvae, thanks to the treatments that the material receives in our establishments; we do not accept any claims for eventual future formation of xylophagous insects.**

**TECHNICAL DETAILS AND INSIGHTS:**

**Surface treatment:** the planks receive a micro-bevel work on all four sides, they may or may not be brushed, knots may or may not be filled. In addition, surface processing must consider the presence of through nodes, flaming, flat cuts of any size, cracks and / or splits on the surface of the plank, sound sapwood on the planks, presence of insect holes and possible blue stains, all this depending on the purchased quality class.

**Finish:** the items are industrially manufactured. The process includes the application of varnishes and pigments and UV drying. Over time, the colour of the wood flooring will become increasingly uniform and lighter, thus reducing contrasts between installed floorboards.

**CERTIFICATIONS:**

**FSC® certified** products may be available upon request, depending on the manufacturer's stock.

**N.B.:**

The raw product is **Indoor Air Comfort Gold** certified. The birch plywood complies with **CARB 2** and **TSCA Title VI** requirements (**EPA**). All our varnished products comply with the **UNI 11622-1** standard and are compatible for domestic use.



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