

PRODUCT DECLARATION

EUROPEAN OAK MULTIPLANK

1 TECHNICAL PRODUCT SPECIFICATION

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|-------------------------------|---|
| Product name: | European oak engineered flooring |
| Total thickness: | 16, 21, or 24 mm |
| Wood specie wear layer: | European oak (<i>Quercus petraea</i>) |
| Thickness wear layer: | 4 or 6 mm |
| Base material: | birch exterior (WBP) plywood |
| Thickness base material: | 12, 15, or 18 mm |
| Moisture content: | 6 - 8 % |
| Standard widths: | 100, 140, 180, 220, 260, 300, and 380 mm |
| Standard lengths 100-260 mm: | min 80% long (1800 - 2400 mm), max 20% short (1000 - 1200 mm) |
| Standard lengths 300 mm: | min 80% long (1800 - 3000 mm), max 20% short (1000 - 1500 mm) |
| Standard lengths 380 mm: | 2600 - 5000 mm XXL lengths (min 50% 3800-5000 mm) |
| Tongue and groove: | tongued and grooved on four sides |
| Surface: | all open defects filled with putty and sanded |
| Janka hardness: | 6280 N |
| Heat transfer coefficient: | 0.17 (λ) W/mk |
| Thermal resistance (R-value): | 16 mm: 0.094 m ² K/W, 21 mm: 0.123 K/W, 24 mm: 0.141 K/W |
| Reaction to fire: | 16 mm: Dfl-s1, 21/24 mm Cfl-s1 |
| Product weight: | 16 mm: 11 kg, 21 mm: 14 kg, 24 mm: 16 kg/m ² |

2 GRADES



Select



Natural



Character



R&Q Select*

100 - 220 mm

Select: allowed - sound pin knots up to 1 cm, very light colour changes.

Natural: allowed - sound knots max. 3 cm, knotholes max. 1.5 cm, light colour changes.

Character: allowed - sound knots without restrictions, knotholes max. 4 cm, heartwood, occasional cracks with a length up to the width of the board, bark pockets up to 10 cm, medium colour variation.

R&Q Select: allowed - sound pin knots up to 1 cm, straight grain only, light colour changes, mirror flakes occur.

260-380 mm

Select: allowed - sound pin knots up to 1.5 cm, very light colour changes.

Natural: allowed - sound knots max. 4 cm, knotholes max. 2 cm, light colour changes.

Character: allowed - sound knots without restrictions, knotholes max. 4 cm, heartwood, occasional cracks with a length up to the width of the board, bark pockets up to 10 cm, medium colour variation.

General grade remarks

Sapwood or discoloration due to early stages of brown rot is not allowed in any of the grades.

Select, Natural and Character grade contain a mix of flat sawn and straight grain. Moon rings allowed.

3 CE - CONFORMITY

UAB NEDlit International CE conformity to EN 13489,
"Wood flooring – Multi-layer parquet elements"

Dimensional characteristics and limit deviations:

Permitted deviation of width: $\pm 0,2$ mm

Lipping* (between elements): $\leq 0,2$ mm

Squareness deviation: $\leq 0,2$ mm over the width

Cupping: 0,2% over the width

Spring: $\leq 0,1\%$ of the length



UAB NEDlit International

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EN 14342:2005+A1

Two-layer, single strip oak parquet flooring with tongue and groove, not pre-finished

| | |
|---|-----------------------|
| Reaction to fire, linked with: | C _{fl} -S1 |
| a minimum mean density of: | 650 kg/m ³ |
| a minimum overall thickness of: | 14 mm |
| a minimum thickness of the top layer of at least: | 5 mm |
| Reaction to fire of all other oak engineered flooring | D _{fl} -S1 |
| Emission of (release) formaldehyde | E1 |
| Emission of pentachlorophenol | < 5 ppm |
| Breaking strength | NPD* |
| Slipperiness | NPD* |
| Thermal conductivity | 0,17 W/mK |
| Biological durability | Class 1 |

*NPD = No performance conducted (yet)

Bow

A certain amount of bow is common and is to be expected in any plywood based engineered floorboard. Bow to a certain degree, is not considered a defect in any wood component, and does not indicate a faulty product nor does it affect the 'quality' of the finished floor. In general, WOODlife tolerates (both positive and negative) a bow of max 8 mm per running meter of flooring, being the distance between the board and the subfloor. This to be measured in the middle of the board when placed flat on the ground.

4 ENVIRONMENT

Production

- The European oak used is harvested from controlled European forests throughout the Baltic's and the Ukraine, largely from FSC® - certified forests.
- The floorboards are produced according to EN 13489.
- The floorboards are cold pressed, using an EPI-adhesive produced by Dynea, Norway: Prefere 6170 with hardener Prefere 6670. The adhesive is 100% formaldehyde-free.

Finishing

The floorboards are finished using low-emission natural oils, hardwax oils and water-based lacquers produced by Saicos Colour, Germany.



Optionally all our floorboards can be treated with a fire-retardant system provided by Rubio Monocoat; the Flamaway system. We are one of the few European holders of a Bfl-s1 grading in engineered oak flooring according to the European fire classes (Euroclasses), which are described in norm EN-13501-1. A copy of our European fire rating certificate can be downloaded on our website.

Green building

WOODlife's multiplanks have an Excellent rating according to BREAAAM. The approval implies that the products have passed tests for all major European regulations on the presence of VOC's and Formaldehyde in wooden flooring. Our flooring does not contain any solvents, isocyanides, formaldehyde, Creosote, Arsenic or Chrome.

Formaldehyde

The below table shows the strictest Formaldehyde norms, their limit values and test results on WOODlife multiplanks, according to test methods which are prescribed for the corresponding norms. Test reports are available upon request.

| Formaldehyde classification | Country label | Limit value in µg/m ³ | WOODlife multiplank |
|-------------------------------------|---------------|----------------------------------|---------------------|
| E1 | Europe | 150 | - |
| AgBB | Germany | 120 | 4.3 |
| Belgian regulation on VOC emissions | Belgium | 100 | 4.3 |
| CARB Phase 2 | US/CA | 60 | - |
| Blue Angel (Blaue Engel) | Germany | 60 | 4.3 |
| M1 | Finland | 50 | 5.4 |
| A+ | France | 10 | 4.3 |
| California CDPH | US/CA | 9 | - |
| LEED4 | US/CA | 9 | - |



Responsible sourcing

Of course, we can also supply our flooring FSC®-certified.

A copy of our FSC-certificate can be downloaded on our website.

FSC License code: FSC-C092624

CoC Certificate Registration Code: NC-COC-029615-HK



The mark of
responsible forestry
FSC® C092624

Wood waste

WOODlife does not waste any wood. Leftovers are used to produce skirting and home decorations. The remainder as well as all our saw dust is used as fuel wood to heat the entire factory including drying kilns.

4 INSTALLATION & MAINTENANCE

Installation

- We recommend to take app 7-8% saw waste for regular flooring and 12-14% for pattern flooring into account when calculating the amount needed.
- Storage in the room at least 48 hours before installation. Packs are to be kept closed.
- During installation, humidity should be between 35% and 70%, temperature between 18 ° to 24 ° Celsius.
- Installation method: glue down or screw down is recommended, floating installation is possible.
- Always take local installation standards into account.
- Boards up to max 300 mm wide are suitable for under floor heating.
- All oiled WOODlife floors are finished with natural oils and have been fully cured at the factory. Unlike oxidative oiled floors, our floors are fully hardened upon arrival and can therefore be used in any space, without any restrictions.

Also see the following documentation:

WOODlife Flooring – installation guidelines.

WOODlife Flooring – underfloor heating.

Care & maintenance

After installation, relative humidity levels in the rooms should be kept between 30% and 70% at all times. Please be aware to place humidifiers/vaporizers during the wintertime if needed. Ventilate the spaces on a regular basis. Our floors require regular maintenance; frequency strongly depends on type of use. A rough guideline:

Daily cleaning:

Periodic cleaning:

Maintenance at regular use:

Maintenance at intensive & commercial use:

Dry cleaning

Saicos Wash Care (parquet friendly soap for mopping)

Saicos Wax Care (maintenance oil), 1 or 2 times per year

Saicos Wax Care (maintenance oil), 3 or 4 times per year

Also see the following documentation: WOODlife Flooring – maintenance guide.

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