PRODUCT DECLARATION
DUTCH ELM MULTIPLANK

1 TECHNICAL PRODUCT SPECIFICATION

Product name:	Dutch elm engineered flooring
Total thickness:	16/19 mm
Wood specie wear layer:	Dutch elm (Ulmus hollandica)
Thickness wear layer:	4 mm
Base material:	birch exterior (WBP) plywood
Thickness base material:	12 or 15 mm
Moisture content:	6 - 8 %
Widths:	180, 220, and 300 mm
Standard lengths 100-260 mm:	min 80% long (1800 - 3000 mm), max 20% short (1000 - 1500 mm)
Tongue and groove:	tongued and grooved on four sides
Surface:	all open defects filled with putty and sanded
Janka hardness:	5000 N
Heat transfer coefficient:	0.17 (λ) W/mk
Thermal resistance (R-value):	16 mm; 0.094 m² K/W, 19 mm; 0.11 m² K/W
Reaction to fire:	Dfl-s1
Product weight:	16 mm: 11 kg/ m², 19 mm: 13 kg/ m²

2 GRADE

Dutch elm is a rare wood species. It is therefore supplied in a random width and in a mix grade only (Mill Run). The grading is a mix of Select, Natural, and some Character. All grades may contain larger colour variations and traces of sapwood, as this is typical for elm.

Description

Healthy knots unlimited in size, knot holes max 4 cm (filled), (end) cracks up to 30 cm, lively colour variation, heart & sapwood allowed, ingrown bark up to 10 cm long.
Healthy knots may have cracks.



Mill Run

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:	±0,2 mm
Lipping* (between elements):	≤0,2 mm
Squareness deviation:	0,2% over the width
Cupping:	0,2% over the width
Spring:	≤0,1% of the length

UAB NEDlit International 10	
EN 14342:2005+A1 Two-layer, single strip elm 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 elm top layer of at least:	5 mm
Reaction to fire of all other elm 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 Dutch elm used is salvaged from canals, streets and parks in the Netherlands.
- → 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.

Green building

WOODlife's multiplanks have an Excellent rating according to BREAAM. 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/m³	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	-

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.

5 INSTALLATION & MAINTENANCE

Installation

- → We recommend taking 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 is recommended, screw down or floating installation is possible.
- → Always take local installation standards into account.
- → Dutch Elm is suited 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 80% 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:	Dry cleaning
Periodic cleaning:	Saicos Wash Care (parquet friendly soap for mopping)
Maintenance at regular use:	Saicos Wax Care (maintenance oil), 1 or 2 times per year
Maintenance at intensive & commercial use:	Saicos Wax Care (maintenance oil), 3 or 4 times per year

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

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