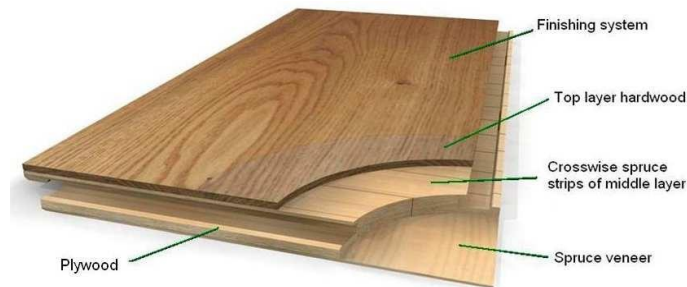


TECHNICAL SPECIFICATION: LUGANO

PRODUCT DESCRIPTION: Multilayer Parquet Elements **LUGANO**



1. MATERIAL (Components and specification)

Multilayer parquet elements: top layer – hand distressed oak, middle layer – crosswise spruce strips, bottom layer – spruce veneer.

| | |
|--------------------|------------------------------|
| Pattern of surface | 1-row full plank |
| Finishing | Finished with rubbed ECO oil |

Connection:  + 4sbV (hand-made bevel on every side)

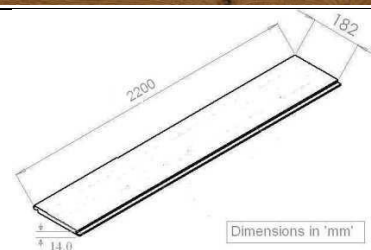
2. DIMENSIONS:

Dimensions of ready product:

| | | |
|-----------------------|--------------|------------|
| - length | 2200 mm | +/- 1,0 mm |
| - width | 182 mm | +/- 0,2 mm |
| - thickness | 14 mm | +/- 0,2 mm |
| - top layer thickness | 3,0 - 3,5 mm | |

| | |
|--------------------------------|---------------------------------|
| Packet: | Pallet: |
| 8 boards = 3,20 m ² | 40 packets = 128 m ² |

- Up to 2% of the material in delivery can be shorter for 30 mm.



3. Top layer characteristic

| | |
|-----------------------------|--|
| Appearance: | Oak wood with clearly marked structure by surface planning, brushing and characteristic for oak sapwood and knots, worm holes may also occur. Irregular, hand-made bevel on the long and short side makes the floor more unique. The oak floor characterizes with large changeability of tints. Natural wood discoloration in time period - slight changing color under UV (sun light). There are noticeable color differences between boards. |
| Hardness: | Hard wood |
| Dimension stability: | Fairly resistant to humidity and temperature changes in the room |
| Floor heating installation: | YES |




3.1. The characteristics of the surface layer

| | |
|------------------------------|---|
| Knots | 100% boards with healthy knots without limitations or unsound knots up to 50 mm in diameter – except pith core boards where knot is not required. Unfilled knots (brushing effect) acceptable up to 3 mm |
| Sapwood | acceptable up to 40 mm width |
| Surface cracks | acceptable |
| Core cracks | acceptable |
| Clear front cracks / Splits | acceptable up to 1/3 of the length of board and 15 mm the width |
| Bark pockets | acceptable without limitations; brushing effect - acceptable |
| Lightning shake | unacceptable |
| Slope of grain / curly grain | acceptable |
| Heart of tree | acceptable - min. 20% of the boards in a batch |
| Color variation | acceptable without limitations |
| Medullary rays | acceptable |
| Sticker marks | unacceptable |
| Biodegradation | unacceptable except red heartwood - up to 20% board's surface (dispersed) - max 10% boards in the delivery and worm holes |

According to EN 13489, 3% of the strips in a batch may be from other classes

Filled knots, cracks and splits (in particular surface brushed and / or antiqued) can be characterized by dents and recesses because of the technological process.

4. Distressing and moisture features

| | |
|---|--|
| Surface planing - YES | Beveled edges – YES on the long and short edge; irregular, delicate |
|  |  |
| Brushed – YES | Hand-crafted insect holes – NO Rubbing / bumping - NO |
|  | |
| Moisture content [%] | 7 +/- 2 |

4.1. Physical and chemical properties

| | |
|------------------------------|-----------|
| Reaction to fire | Dfl – s1 |
| Emission of formaldehyde | E1 |
| Content of pentachlorophenol | NPD |
| Thermal conductivity | 0,12 W/mK |
| Biological durability | Class 1 |

5. Product marking: CE