

PRODUCT CARD

Engineered hardwood floors

The company **WINDOOR Paweł Redestowicz** establishes the following technical requirements applicable in the production and supply of multi-layer floor boards from natural wood on a base of plywood, for indoor installation on glue: raw, oiled or lacquered with a thickness from 9 mm to 20 mm. For use in residential and public buildings for laying floors indoors by gluing to the base.

This Product Card contains requirements for multilayer floorboards to be glued to the base, which are in accordance with PN-EN 13489: 2017-11. Multi-layer floor elements. (*Multi-layer parquet elements, to be glued to substrate* (acc. PN-EN 13489: 2017))

The quality classes have been defined as free classes, in accordance with the requirements of PN-EN 13226:

1. AB Class and RUSTIC Class.

The requirements for AB Class and RUSTIC Class are contained in table 1.

Table 1 - Classes for oak and ash

Feature	AB Class	RUSTIK Class	COUNTRY Class
Description	A board with a natural colour, without variation,	Slight colour variation permitted	Acceptable natural colour variation without restrictions, medullary ray allowed, sapwood permitted
Sound sapwood	not permitted	permitted	Trace permitted
Sound and intergrown knots Unsound knots	Sound knots up to 15mm	Sound knots up to 45 mm, falling out to 20 mm supplemented with knots	Sound knots up to 65mm, falling out with knots supplemented with knots,
Cracks	Not permitted	Permitted up to 100 mm in length	Permitted up to 150 mm in length
Bark pockets	Not permitted	Not permitted	Permitted
Lightning shake	Not permitted	Not permitted	Permitted
Slope of grain	Permitted, no limit	Permitted, no limit	Permitted, no limit
Colour variation	Slight variation permitted	Permitted	Permitted without restrictions
Medullary ray	Permitted	Permitted	Permitted
Biodeterioration	Not permitted	Not permitted	Not permitted except blue stain and black holes

When delivering AB or RUSTIC Class products separately, only a maximum of 5% of the shipment may not meet the requirements for a given class, but must meet the requirements of the nearest lower class (i.e. RUSTIC and COUNTRY), where any defects are supplemented with a wood-coloured putty. Noncompliance with the class description is allowed only for one feature.

2. COUNTRY Class

The COUNTRY Class includes floor boards that do not meet RUSTIC requirements. They must meet the requirements for their final use - as floor boards.

Humidity

On delivery, the moisture content of the floor boards must be within $7\% \pm 2\%$. A maximum of 5% of the delivery moisture content may vary up to 3%. Differences in product humidity must be approved by the parties to the Sales Agreement. As a result of changes in humidity, the humidity of the wood may change, which may affect the dimensions of the finished product at the time of delivery. The thickness and width can increase or decrease by 0.25% for each 1% increase or decrease in wood moisture. Floor boards should be acclimatized - to do this, packets of boards should be stored at the floor assembly site 2-4 days before installation. This applies especially to floors installed in winter. Do not unpack boards that have been cooled during transport from the factory packaging immediately after delivery to the installation site to avoid condensation on the surface of the boards.

Price calculation

Price floorboards are usually determined by m^2 (square meter), particularly for the rmt (running meter). To calculate the area of m^2 , always consider the width of the floorboard without the tongue.

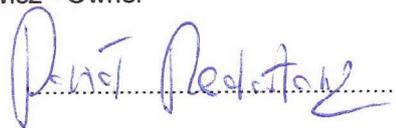
Disadvantages of products

All possible errors regarding the classification as well as deviations in the scope of humidity of the floorboards from the above mentioned standard are considered visible defects. The decisive moment to assess the quality and humidity is the moment of handing over the goods to the recipient. The manufacturer cannot provide warranty for defects (mainly changes in humidity) that arose during further storage and movement of the goods. Any defects can only be advertised for products that have not been treated (e.g. shortened, after surface changes, after assembly, etc.)

Approved by: Paweł Redestowicz - Owner

Radom, 04 .04.2019r.

(place and date of issue)



(name, surname and position signature of the authorized person)

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