



SLOVENSKI STANDARD
oSIST prEN 13489:2014
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Lesene in parketne talne obloge - Večslojni parketni elementi

Wood and parquet flooring - Multi-layer parquet elements

Holzfußböden und Parkett - Mehrschichtparkettelemente

Planchers et parquets en bois - Éléments de parquet contrecollé

Ta slovenski standard je istoveten z: prEN 13489

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Wood and parquet flooring - Multi-layer parquet elements

Planchers et parquets en bois - Éléments de parquet
contrecollé

Holzfußböden und Parkett - Mehrschichtparkettelemente

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (prEN 13489:2014) has been prepared by Technical Committee CEN/TC 175 “Round and sawn timber”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13489:2002.

In comparison with the previous edition, the following changes have been modified:

- the annex C Typical types and patterns has been added
- the annex D Moisture content has been added;
- some precisions have been added.

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Introduction

This European Standard is one of a series of standards about wood flooring and wood panelling and cladding.

This standard specifies the characteristics of multi-layer parquet. It is based upon current dimensional standards used in the industry and other characteristics together with functions which have been verified by test.

A large amount of knowledge exists about multi-layer parquet and values for product characteristics are attested by long use and experience. It is therefore not necessary to have test results. For new products technical data will have to be verified by testing.

The appearance of the parquet floor is mainly influenced by species, classification and the pattern.

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1 Scope

This European Standard specifies the characteristics of multi-layer parquet elements for internal use as flooring.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1310:1997, *Round and sawn timber - Method of measurement of features*.

EN 1311, *Round and sawn timber - Method of measurement of biological degrade*.

EN 1534, *Wood and parquet flooring - Determination of resistance to indentation (Brinell) - Test method*.

EN 13183-1, *Moisture content of a piece of sawn timber - Part 1: Determination by oven dry method*.

EN 13488, *Wood flooring – Mosaic parquet elements*.

EN 13647, *Wood and parquet flooring and wood panelling and cladding - Measurement of geometrical characteristics*.

EN 13756, *Wood flooring – Terminology*.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13756 and the following apply.

3.1

cup

curvature of an element across the width of the face

[SOURCE: EN 13756]

3.2

spring

lengthwise curvature of an element normal to the edge

[SOURCE: EN 13756]

Note 1 to entry: It should be measured with zero bow.

3.3

multi-layer parquet

element of laminated construction consisting of a top layer of solid wood and additional layer(s) of wood, or wood-based materials, glued together

[SOURCE: EN 13756, 2.4]

3.4

strip

smallest single item forming the top layer of each element.

prEN 13489:2014 (E)**3.5****element**

smallest individual piece or the smallest piece as delivered prior to installation

[SOURCE: EN 13756]

3.6**lipping**

difference in height between the faces of two adjacent and assembled elements when laid on a flat surface

[SOURCE: EN 13756]

4 Specific product requirements**4.1 Wood species**

A list of the most commonly used species for parquet as described in this standard is given in Annex A.

4.2 Finishing

The surface treatment used and any artificial change of the natural wood colour shall be stated in the product description.

NOTE The product is usually delivered with a factory applied surface coating which allows the product to be taken into use immediately after installation.

4.3 Appearance**4.3.1 General rules**

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Tables 1 to 4 define the classification relating to appearance rules for the face and for the non-visible parts (back and edges) of an element of the most commonly used species for multi-layer parquet as defined in this standard.

Features shall be measured according to EN 1310 (knots assessed according to the general method of 4.1 in EN 1310:1997). Biodeterioration is measured according to EN 1311.

A classification with three appearance classes is specified, designated ○, △ and □.

A classification named « Free class » is based on the principles laid out in Annex B.

The material used for the top layer shall be selected hardwood or softwood, fresh and sound without rot, fungus, mould or insect damage. There will be variations from strip to strip, but the total impression of the installed floor shall show a homogeneous character of each classification.

To allow for unavoidable classification differences, 3 % of the strips in a batch may be from other classes. Any additional strips from other classes are allowed as long as the general impression of the floor is not disturbed.

Multi-layer parquet with a mosaic-like pattern shall be classified according to EN 13488.

4.3.2 Classification rules for species

4.3.2.1 Rules for the most commonly used species

4.3.2.1.1 *Quercus* spp. (oak)

Rules for oak are given in Table 1.

Table 1 — Classification for *Quercus* spp. (oak)

Face of the element			
Features	Class		
	O	Δ	□
Sound sapwood	Not permitted	Permitted up to 50 % of the face, if distributed	All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the parquet flooring.
Knots ^a Sound and intergrown Unsound knots	Permitted if: diameter ≤ 3 mm diameter ≤ 1 mm if not grouped together ^b	Permitted if: diameter ≤ 8 mm diameter ≤ 2 mm	
Checks	Not permitted	Permitted up to 20 mm in length per strip	
Bark pockets	Not permitted	Not permitted	
Lightning shake	Not permitted	Not permitted	
Slope of grain	Permitted, no limit	Permitted, no limit	
Colour variation	Slight variation permitted	Permitted	
Medullary ray	Permitted	Permitted	
Biodeterioration	Not permitted	Not permitted	Not permitted, except blue stain and black holes.
Non-visible parts			
All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the parquet flooring.			
^a Cracks in knots and knot holes greater than 3 mm shall be filled. ^b Knots are grouped together if the distance separating them, measured from edge to edge, does not exceed 30 mm.			

4.3.2.1.2 *Fraxinus excelsior* (European ash), *Fagus sylvatica* (European beech), *Betula* spp. (birch) and *Acer* spp. (maple)

Rules for European ash, European beech, birch and maple are given in Table 2.

Table 2 — Classification for *Fraxinus excelsior* (European ash), *Fagus sylvatica* (European beech), *Betula* spp. (birch) and *Acer* spp. (maple)

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not applicable	Not applicable	Not applicable
Knots ^a Sound and intergrown Unsound knots	Permitted if: diameter ≤ 3 mm diameter ≤ 1 mm if not grouped together ^b	Permitted if: diameter ≤ 8 mm ^c diameter ≤ 2 mm ^c	All features permitted without limit to size or quantity if these do not impair the strength or wearing quality of the parquet flooring.
Checks	Not permitted	Permitted up to 20 mm in length per strip	
Bark pockets	Not permitted	Not permitted	
Lightning shake	Not permitted	Not permitted	
Slope of grain	Permitted, no limit	Permitted, no limit	
Colour variation	Slight variation permitted ^d . Slight traces of natural discoloration permitted	Permitted	
Red heart and black heart ^e	Not permitted	Permitted up to 50 % of the face, if distributed	
Stick marks	Not permitted	Permitted	
Medullary ray	Permitted	Permitted	
Biodeterioration	Not permitted	Not permitted	Not permitted, except blue stain and black holes
Non-visible parts			
All features permitted without limit to size or quantity if these do not impair the strength or wearing quality of the parquet flooring.			
^a Cracks in knots and knot holes shall be filled. ^b Knots are grouped together if the distance separating them, measured from edge to edge, does not exceed 30 mm. ^c No limitation in <i>Betula</i> spp. (birch). ^d Permitted for steamed beech. ^e Brown heart for birch and maple			

4.3.2.1.3 *Larix* spp. (larch), *Pinus sylvestris* (redwood; Scots pine) and *Picea* spp. (spruce)

Rules for larch, redwood; Scots pine and spruce are given in Table 3.

Table 3 — Classification for *Larix* spp. (larch), *Pinus sylvestris* (redwood; Scots pine) and *Picea* spp. (spruce)

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Permitted	Permitted	All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the parquet flooring.
Knots ^a Sound and intergrown Unsound knots	Permitted if: diameter ≤ 12 mm diameter ≤ 5 mm if not grouped together ^b	Permitted if: diameter ≤ 25 mm diameter ≤ 15 mm	
Checks	Not permitted	Permitted up to 40 mm in length per strip	
Bark pockets	Not permitted	Not permitted	
Lightning shake	Not permitted	Not permitted	
Slope of grain	Permitted, no limit	Permitted, no limit	
Colour variation	Slight variation permitted	Permitted	
Resin pockets	Not permitted	Permitted 2 mm in width Permitted 25 mm in length	
Biodeterioration	Not permitted	Not permitted	
Non-visible parts			
All features permitted without any limitation as to size or quantity if these do not impair the strength or wearing quality of the parquet flooring.			
^a Cracks in knots and knot holes shall be filled.			
^b Knots are grouped together if the distance separating them, measured from edge to edge, does not exceed 30 mm.			