



SLOVENSKI STANDARD
oSIST prEN 13226:2023
01-julij-2023

Lesene talne obloge - Masivne parketne deščice s peresom in/ali utorom

Wood flooring - Solid parquet elements with grooves and/or tongues

Holzfußböden - Massivholz-Parkettstäbe mit Nut und/oder Feder

Planchers en bois - Éléments de parquet massif avec rainures et/ou languettes

Ta slovenski standard je istoveten z: prEN 13226

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ICS:

79.080	Polizdelki iz lesa	Semi-manufactures of timber
97.150	Talne obloge	Floor coverings

oSIST prEN 13226:2023

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 13226

May 2023

ICS

Will supersede EN 13226:2009

English Version

Wood flooring - Solid parquet elements with grooves and/or tongues

Planchers en bois - Eléments de parquet massif avec
rainures et/ou languettes

Holzfußböden - Massivholz-Parkettstäbe mit Nut
und/oder Feder

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 175.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European Foreword

This document (prEN 13226:2023) 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 supersedes EN 13226:2009.

The main changes compared to the previous edition are listed below:

- New limit deviations for nominal width of the element (5.4.3.1);
- New value for cup (5.4.3.3);
- New value for spring (5.4.3.5);
- Modifications regarding the marking (Clause 6).

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prEN 13226:2023

Introduction

This document is one of a series of standards concerning wood flooring and wood panelling and cladding.

This document specifies the characteristics of solid parquet elements. It is based upon current dimensional standards within the industry and other characteristics together with functions which have been verified by test.

A large amount of knowledge exists about solid parquet elements 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 be verified by testing.

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

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1 Scope

This document specifies the characteristics of solid parquet elements with grooves and/or tongues for internal use as flooring. This document is not applicable to panels made from elements for which a separate standard is in course of preparation.

This document covers elements with or without surface treatment.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 844:2019, *Round and sawn timber - Terminology*

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

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

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

EN 13183-2, *Moisture content of a piece of sawn timber - Part 2: Estimation by electrical resistance method*

EN 13756:2018, *Wood flooring and parquet - Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 844:2019 and EN 13756:2018 and the following apply.

3.1

left-handed strip

element having the end tongue on the left when viewed on the face with the edge tongue directed towards the observer

[SOURCE: EN 13756:2018]

3.2

right-handed strip

element having the end tongue on the right when viewed on the face with the edge tongue directed towards the observer

[SOURCE: EN 13756:2018]

3.3

thickness above the groove

thickness between the face and any discontinuity such as a change in the profile (excluding chamfering), a groove/glue pocket or a glue line (excluding the glue line of finger-joints)

[SOURCE: EN 13756:2018]

4 Symbols and abbreviations

L	Length of the face of the element;
b	Width of the face of the element;
b_1	Depth of the groove;
b_2	Width of the tongue;
b_3	Undercut;
t	Thickness between the face and the back of the element;
t_1	Thickness above the groove;
t_2	Width of the groove;
t_3	Thickness of the tongue;
t_4	Thickness of the part below the tongue;
t_5	Depth of optional glue pocket;
a	Slope of the upper lip;
α	Arrow tail;
β	Slope of the under lip.

5 Specific product requirements

5.1 Wood species

A list of the most commonly used species for parquet elements are described in EN 13556. For nomenclature of wood species used in Europe see EN 13556.

5.2 Appearance

5.2.1 General rules

Tables 1 to 9 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 solid wood flooring as defined in this document.

Features shall be measured according to EN 1309-3 (knots assessed according to the general method of 5.1 in EN 1309-3) Biodeterioration is measured according to EN 1309-3.

A classification with three appearance classes is specified, designated \circ , Δ and \square .

A classification named "Free class" is based on the principles laid out in Annex A.

The face shall include all the visible surface of the element. It shall therefore extend to the chamfering¹ if any.

The face shall be free from shake and the wood shall be sound.

Any continuous glue joint which allows renovation without significantly changing the appearance or the functional characteristics is acceptable.

¹ The chamfering is visible when elements are assembled.

In order to allow unavoidable differences in the sorting classes, 3 % of the elements in one adjacent areas may come from other sorting classes. All additional elements from other sorting classes are permitted as long as the overall image of the floor is not affected.

NOTE To obtain a homogenous impression of the installed floor the elements are supposed to be sorted before installation.

5.2.2 Rules for the most commonly used species

5.2.2.1 *Quercus* spp. (oak)

Rules for oak are given in Table 1.

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

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not permitted	Permitted	Permitted
Knots Sound and intergrown	Permitted if: diameter ≤ 8 mm	Permitted if: diameter ≤ 10 mm	All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the wood flooring.
Unsound knots	diameter ≤ 1 mm	diameter ≤ 5 mm	
Checks	Not permitted	Permitted up to 15 mm in length	
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 ^a	
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 wood flooring.			
Sound sapwood is permitted from the back up to the upper part of the tongue without taking into account the limits set for the face.			
^a Brown oak.			

5.2.2.2 *Fraxinus excelsior* (European ash) and *Acer* spp. (maple)

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

Table 2 — Classification for *Fraxinus excelsior* (European ash) and *Acer* spp. (maple)

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not applicable	Not applicable	Not applicable
Knots	Permitted if: diameter ≤ 2 mm	Permitted if: diameter ≤ 10 mm	All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the wood flooring.
Sound and intergrown	diameter ≤ 2 mm	diameter ≤ 10 mm	
Unsound knots	diameter ≤ 1 mm	diameter ≤ 5 mm	
Checks	Not permitted	Permitted up to 15 mm in length	
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. Slight traces of natural discoloration and mineral lines permitted.	Permitted	
Stick marks	Not 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 wood flooring.			

5.2.2.3 *Fagus sylvatica* (European beech)

Rules for European beech are given in Table 3.

Table 3 — Classification for *Fagus sylvatica* (European beech)

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not applicable	Not applicable	Not applicable
Knots	Permitted if:	Permitted if:	All features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the wood flooring.
Sound and intergrown	diameter ≤ 2 mm	diameter ≤ 10 mm	
Unsound knots	diameter ≤ 1 mm	diameter ≤ 5 mm	
Checks	Not permitted	Permitted up to 15 mm in length	
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 ^a . Slight traces of natural discoloration permitted.	Permitted	
Red heart	Not permitted	Permitted	
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 the wearing quality of the wood flooring.			
^a Permitted for steamed beech.			