



SLOVENSKI STANDARD
SIST EN 13226:2025

01-februar-2025

Lesene talne obloge - Masivne parketne deščice s peresi in/ali utori

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: EN 13226:2024

ICS:

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

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en,fr,de

EUROPEAN STANDARD

EN 13226

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 79.080

Supersedes EN 13226:2009

English Version

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

Planchers en bois - Éléments de parquet massif avec
rainures et/ou languettesHolzfußböden - Massivholz-Parkettelemente mit Nut
und/oder Feder

This European Standard was approved by CEN on 16 September 2024.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 13226:2024) has been prepared by Technical Committee CEN/TC 175 “Round and sawn timber”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13226:2009.

Compared to EN 13226:2009, the following changes have been made:

- normative references updated;
- replacement of the term “strip” by “element” in Clause 3 “Terms and definitions”;
- **Annex A** (informative) “**Botanical and trade names of the most commonly used species for wood flooring (hardwood and softwood species)**” of wood is deleted and replaced by reference to the nomenclature standard EN 13556 “Round and sawn timber - Nomenclature of timbers used in Europe”;
- addition of a general rules appearance (5.2.1.);
- addition of keys for Figure 1;
- editorials modifications.

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According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 13226:2024 (E)**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 have to 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 applicable to elements of parquet panels.

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 1309-3:2018, *Round and sawn timber — Methods of measurements — Part 3: Features and biological degradations*

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.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

left-handed element

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

[SOURCE: EN 13756:2018, 4.2.1.7.11]

3.2

right-handed element

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

[SOURCE: EN 13756:2018, 4.2.1.7.10]

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)

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[SOURCE: EN 13756:2018, 7.17]

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 angle
β	Angle 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 standard.

Features shall be measured according to EN 1309-3 (knots assessed according to the general method of 5.1 in EN 1309-3:2018) 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.

¹⁾ The chamfering is visible when elements are assembled.

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

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

NOTE To obtain a homogenous appearance 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 Unsound knots	Permitted if: diameter ≤ 8 mm diameter ≤ 1 mm	Permitted if: diameter ≤ 10 mm diameter ≤ 5 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
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 Sound and intergrown Unsound knots	Permitted if: diameter ≤ 2 mm diameter ≤ 1 mm	Permitted if: diameter ≤ 10 mm diameter ≤ 5 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
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.			

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