



SLOVENSKI STANDARD
SIST EN 13488:2003

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Wood flooring - Mosaic parquet elements

Wood flooring - Mosaic parquet elements

Holzfußböden - Mozaikparkettelemente

Planchers en bois - Eléments de parquet mosaïque

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ICS:

79.080

Polizdelki iz lesa

Semi-manufactures of timber

SIST EN 13488:2003

en

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ICS 79.080

English version

Wood flooring - Mosaic parquet elements

Planchers et parquets en bois - Eléments de parquet
mosaïque

Holzfußböden - Mozaikparkettelemente

This European Standard was approved by CEN on 4 November 2002.

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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 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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Foreword

This document (EN 13488:2002) 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of an identical text or by endorsement, at the latest by June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

In this European Standard the annexes A and B are informative. Annex C is normative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

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

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

A large amount of knowledge exists about mosaic 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 appearance classes, dimensions and other characteristics of solid wood mosaic parquet fingers, component squares, mosaic parquet laying units and mosaic parquet panels, finished or unfinished, for internal use as flooring.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard, only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 844-1:1995, *Round and sawn timber – Terminology – Part 1: General terms common to round timber and sawn timber.*

EN 844-3:1995, *Round and sawn timber – Terminology – Part 3: General terms relating to sawn timber.*

EN 844-4:1997, *Round and sawn timber – Terminology – Part 4: Terms relating to structure content.*

EN 844-6:1997, *Round and sawn timber – Terminology – Part 6: Terms relating to dimensions of sawn timber.*

EN 844-7:1997, *Round and sawn timber – Terminology – Part 7: Terms relating to anatomical structure of timber.*

EN 844-9:1997, *Round and sawn timber – Terminology – Part 9: Terms relating to features of sawn timber.*

EN 844-10:1998, *Round and sawn timber – Terminology – Part 10: Terms relating to stain and fungal attack.*

EN 844-11:1998, *Round and sawn timber – Terminology – Part 11: Terms relating to degrade by insects.*

EN 844-12:2000, *Round and sawn timber – Terminology – Part 12: Additional terms and general index.*

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

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

EN 13756:2002, *Wood flooring – Terminology.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions in EN 844-1:1995, EN 844-3:1995, EN 844-4:1997, EN 844-6:1997, EN 844-7:1997, EN 844-9:1997, EN 844-10:1998, EN 844-11:1998, EN 844-12:2000 and in EN 13756:2002 and the following apply.

3.1

mosaic parquet finger

element of solid sawn wood of small dimensions and rectangular shape, having flat edges

[EN 13756:2002]

3.2

component square

mosaic parquet fingers of same dimensions, assembled edge to edge to form a square

NOTE The size of the square is equal to the length of the mosaic parquet fingers.

3.3

mosaic parquet laying unit

pre-assembled laying unit made up from mosaic parquet fingers which are assembled in a certain way in order to form a repeatable pattern, for example squares or other designs

3.4

mosaic parquet panel

pre-assembled laying unit made up from component squares of the same dimensions placed edge to edge, laid in a chequered pattern

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4 Specific product requirements

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4.1 Wood species and patterns

Species shall be specified.

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

Unless otherwise agreed, mosaic parquet panels shall be assembled from component squares as shown in Figure 1. Some other patterns are shown in Annex B.

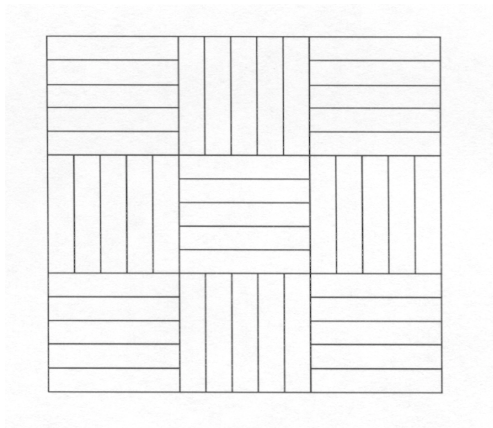


Figure 1 — Mosaic parquet panel with component squares

4.2 Appearance

4.2.1 General rules

Tables 1 to 3 define the classification relating to appearance rules for the face and for the non-visible parts (back and edges) of a mosaic parquet finger of the most commonly used species for mosaic 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 ○, Δ and □.

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

The face shall include all the visible surface of the element.

The face shall be free of bore holes and the wood shall be sound. Growth rings as well as medullary rays are permitted.

4.2.2 Rules for the most commonly used species

4.2.2.1 *Quercus* spp. (oak) and tropical hardwoods

Rules for oak and tropical hardwoods are given in Table 1.

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

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not 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	Permitted if: diameter ≤ 2 mm	Permitted if: diameter ≤ 2 mm	
Sound Black knots	diameter ≤ 1 mm	diameter ≤ 1 mm	
Checks	Not permitted	Not permitted	
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	
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 Brown oak.			

4.2.3 *Fagus sylvatica* (European beech) and *Fraxinus excelsior* (European ash)

Rules for European beech and European ash are as given in Table 1, with specific requirements for European beech in Table 2 and European ash in Table 3.

Table 2 — Specific classification for *Fagus sylvatica* (European beech)

Face of the element			
Features	Class		
	○	△	□
Sound sapwood	Not applicable	Not applicable	Not applicable
Sound red heart	Not permitted	Permitted	Permitted

Table 3 — Specific classification for *Fraxinus excelsior* (European ash)

Face of the element			
Features	Class		
	○	△	□
Sound sapwood	Not applicable	Not applicable	Not applicable
Sound blackheart	Not permitted	Permitted	Permitted

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4.2.4 Free class

The free class covers any species which may be used for parquet and for which hardness HB has a minimum mean value of 10 N/mm². Hardness shall be measured according to EN 1534. The free class covers any classification which the producer wishes to offer or which is requested by the buyer. The proportions or limits of features shall be specifically indicated in the producer's literature/data sheets, in conformity with Annex C and stated according to Table C.1.

NOTE 10 N/mm²: approximately 1 kgf/mm²

4.2.5 Natural colours

Timber colours are mainly dependent on the wood species.

NOTE All timber varies in colour when exposed to light over a period of time.

4.3 Moisture content

The moisture content of unfinished mosaic parquet fingers shall be between 7 % and 11 % for all wood species at the time of the first delivery. It shall be between 6 % and 10 % for finished mosaic parquet fingers.

The moisture content shall be measured with an electric moisture meter in accordance with EN 13183-2. In case of dispute, the moisture content shall be determined by oven-drying test pieces taken from the centre of elements in accordance with EN 13183-1.

4.4 Geometrical characteristics

4.4.1 General

All dimensions are given at a reference moisture content of 9 % except dimensions for chestnut and maritime pine which are given at a reference moisture content of 10 %.

Unless there is evidence to the contrary, it shall be assumed that the thickness and width of a piece of timber increase by 0,25 % for every 1 % of moisture content above the reference moisture content, and decrease by 0,25 % for every 1 % of moisture content below the reference moisture content.

The methods of measurement of geometrical characteristics are given in EN 13647.

4.4.2 Mosaic parquet finger

4.4.2.1 Unfinished mosaic parquet finger

The dimensions of an unfinished mosaic parquet finger shall be as shown in Table 4.

Table 4 — Dimensions

Dimensions in millimetres

Thickness	Width	Length ^a
8	≤ 35	115 to 165
^a For specific patterns, the length can be < 115 mm (for example see Figure B.4).		

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The dimensions given refer to Figure 2. [9dd796b53883/sist-en-13488-2003](https://standards.iteh.ai/catalog/standards/sist/035b5c58-ce2f-4c68-8eb3-9dd796b53883/sist-en-13488-2003)