



SLOVENSKI STANDARD

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Nadomešča:

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Lesene talne obloge - Masivni tanki parket

Wood flooring - Solid lamparquet products

Holzfußböden - Massivholz-Lamparkettprodukte

Plancher en bois - Produits de lamparquet massif

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ICS:

79.080

Polizdelki iz lesa

Semi-manufactures of timber

SIST EN 13227:2018

en,fr,de

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EUROPEAN STANDARD

EN 13227

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2017

ICS 79.080

Supersedes EN 13227:2002

English Version

Wood flooring - Solid lamparquet products

Plancher en bois - Planchettes massives

Holzfußböden - Massivholz-Lamparkettprodukte

This European Standard was approved by CEN on 16 July 2017.

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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 13227:2017) 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of an identical text or by endorsement, at the latest by May 2018, and conflicting national standards shall be withdrawn at the latest by May 2018.

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 13227:2002.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 13227:2017 (E)**Introduction**

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

This European Standard specifies the characteristics of solid lamparquet products including solid large lamparquet products. 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 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 European Standard specifies the characteristics of solid lamparquet products for internal use as flooring. It applies to elements. This European Standard does not apply to panels made from elements, for which EN 13810-1 applies.

This European Standard covers products without surface treatment.

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 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 moisture 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 flooring - 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 13647:2011, *Wood flooring and wood panelling and cladding - Determination of geometrical characteristics*

EN 13756:2002, *Wood flooring - Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given 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 EN 13756:2002 and the following apply.

EN 13227:2017 (E)**3.1****lamparquet element**

parquet element of small dimensions having flat edges

[SOURCE: EN 13756:2002]

3.2**large lamparquet element**

element defined by the relevant dimensional limits

Note 1 to entry: These limits are given in Table 7.

3.3**parquet tapis**

large lamparquet to be laid by gluing and/or nailing

3.4**maxi lamparquet element**

element defined by the relevant dimensional limits

Note 1 to entry: These limits are given in Table 7.

3.5**composite element lamparquet**

preassembled lamparquet element arranged in a geometric pattern

4 Symbols and abbreviations

For the purposes of this document the following symbols and abbreviations apply.

- L* length of the face of the element
- b* width of the face of the element
- t* thickness between the face and the back of the element
- a* slope of the lip.

5 Specific product requirements**5.1 Wood species**

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

5.2 Finishing

The product can be delivered with a factory applied surface coating which allows the product to be taken into use immediately after installation. The surface treatment used and any artificial change of the natural wood colour shall be stated in the product description.

5.3 Appearance

5.3.1 General rules

Tables 1 to 6 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 European Standard.

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

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

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

The face shall include all the visible surface of the element. It shall therefore extend to the chamfering ¹⁾, 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.

5.3.2 Rules for the most commonly used species

5.3.2.1 Quercus spp. (oak)

Rules for oak are given in Table 1.

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1) The chamfering is visible when elements are assembled.

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

Face of the element			
Features	Class		
	○	Δ	□
Sound sapwood	Not permitted	Permitted ^a	Slight traces permitted
Knots Sound and intergrown $b < 70$ mm $b \geq 70$ mm Unsound knots	Permitted if: diameter ≤ 2 mm diameter ≤ 3 mm Not permitted	Permitted if: diameter ≤ 5 mm diameter ≤ 10 mm diameter ≤ 3 mm	Permitted if: diameter ≤ 15 mm diameter ≤ 30 mm diameter ≤ 10 mm
Checks	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 wood flooring.
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 ^b	
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 up to 50 % of the thickness.			
^a For large and maxi lamparquet elements, sound sapwood not exceeding 15 % of the face is permitted.			
^b Brown oak.			

5.3.2.2 *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 $b < 70$ mm $b \geq 70$ mm Unsound knots	Permitted if: diameter ≤ 2 mm diameter ≤ 3 mm Not permitted	Permitted if: diameter ≤ 5 mm diameter ≤ 10 mm diameter ≤ 3 mm	Permitted if: diameter ≤ 15 mm diameter ≤ 30 mm diameter ≤ 10 mm
Checks	Not permitted	Not permitted	Not permitted
Bark pockets	Not permitted	Not permitted	Not permitted
Lightning shake	Not permitted	Not permitted	Not permitted
Slope of grain	Permitted, no limit	Permitted, no limit	Permitted, no limit
Colour variation	Slight variation permitted. Slight traces of natural discoloration (mineral lines) permitted.	Permitted	Permitted
Stick marks	Not permitted	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.			

5.3.2.3 *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 Sound and intergrown $b < 70$ mm $b \geq 70$ mm Unsound knots	Permitted if: diameter ≤ 2 mm diameter ≤ 3 mm Not permitted	Permitted if: diameter ≤ 5 mm diameter ≤ 10 mm diameter ≤ 3 mm	Permitted if: diameter ≤ 15 mm diameter ≤ 30 mm diameter ≤ 10 mm
Checks	Not permitted	Not permitted	Not permitted
Bark pockets	Not permitted	Not permitted	Not permitted
Lightning shake	Not permitted	Not permitted	Not permitted
Slope of grain	Permitted, no limit	Permitted, no limit	Permitted, no limit
Biodeterioration	Not permitted	Not permitted	Not permitted, except blue stain and black holes
Colour variation	Slight variation permitted ^a . Slight traces of natural discoloration permitted.	Permitted	Permitted
Red heart	Not permitted	Permitted	Permitted
Stick marks	Not permitted	Permitted	Permitted
Medullary ray	Permitted	Permitted	Permitted
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.			

5.3.2.4 *Betula* spp. (birch)

Rules for birch are given in Table 4.