

BS EN 13629:2012



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Wood flooring — Solid individual and pre-assembled hardwood boards

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee B/543, Round and sawn timber.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13629

April 2012

ICS 79.080

Supersedes EN 13629:2002

English Version

Wood flooring - Solid individual and pre-assembled hardwood boards

Plancher en bois - Lame à plancher massive individuelle ou pré-assemblée en bois feuillus

Holzfußböden - Massive Laubholzdielen und zusammengesetzte massive Laubholzdielen-Elemente

This European Standard was approved by CEN on 9 March 2012.

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Foreword

This document (EN 13629:2012) 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of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

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

This document supersedes EN 13629:2002.

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1 Scope

This European Standard specifies the characteristics of individual hardwood boards and pre-assembled hardwood boards with grooves and/or tongues for internal use as flooring. This document covers hardwood boards with or without surface coating.

This European Standard does not cover solid parquet elements. (See Annex C).

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 351-1, *Durability of wood and wood-based products — Preservative-treated solid wood — Part 1: Classification of preservative penetration and retention*

EN 460, *Durability of wood and wood-based products — Natural durability of solid wood — Guide to the durability requirements for wood to be used in hazard classes*

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, *Wood flooring and wood panelling and cladding — Determination of geometrical characteristics*

EN 13756:2002, *Wood flooring — Terminology*

EN 14298, *Sawn timber - Assessment of drying quality*

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, EN 13756:2002 and the following apply.

3.1

Solid individual hardwood board

wide and generally long solid (single layer) hardwood element which has parallel sides, is machined to a regular thickness and profile(s) with profiled edges and ends and is capable of being assembled with other analogous elements (See Figure 1)

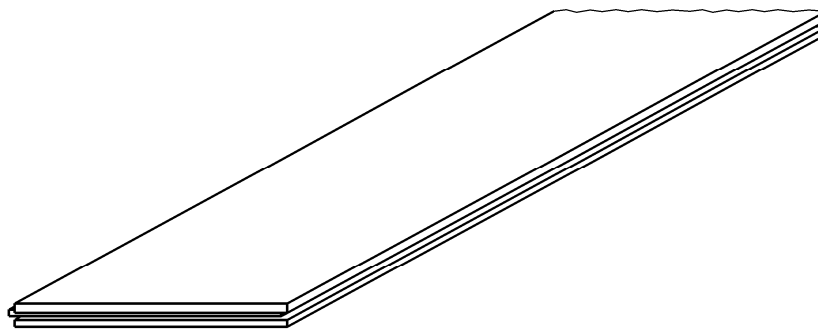


Figure 1 — Individual hardwood board

3.2

Solid pre-assembled hardwood board

wide and generally long solid (single-layer) hardwood element, pre-assembled from several strips in length and width by dovetailing, edge gluing and end jointing which has parallel sides, is machined to a regular thickness and profile(s) with profiled edges and ends, and is capable of being assembled with other analogous elements (see Figure 2)

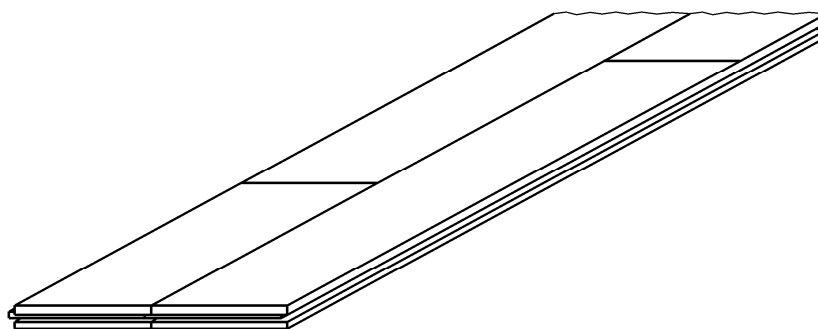


Figure 2 – Solid pre-assembled hardwood board

3.3

strip

smallest single item forming the pre-assembled board

3.4

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 dove-tail joints)

4 Specific product requirements

4.1 Wood species

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

4.2 Finishing

The product may 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.

4.3 Appearance

4.3.1 General rules

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 solid wood flooring 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). Bio deterioration, permitted only for certain appearance classes (see table 1 to 4) is measured according to EN 1311.

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

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

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

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

4.3.2 Classification

The class shall be specified.

The decorative appearance of each species will vary with class.

NOTE It should be noted that some classes allow many natural characteristics. This fact should be taken into account when specifying decorative appearance.

4.3.3 Rules for the most commonly used species

4.3.3.1 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	Permitted up to 10 % of the face, if distributed	Permitted up to 50 % of the face, if distributed	All possible features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the wood flooring.
Knots ^a	Permitted if:	Permitted if:	
Sound and intergrown	diameter ≤ 15 mm	diameter ≤ 35 mm	
Unsound	diameter ≤ 5 mm	diameter ≤ 25 mm	
Checks	Not permitted	Permitted up to 50 mm in length per strip	
Bark pockets	Not permitted	Not permitted	
Lightning shake	Not permitted	Permitted	
Slope of grain	Permitted, no limit	Permitted, no limit	Not permitted, except blue stain and black holes
Colour variation	Permitted	Permitted	
Medullary ray	Permitted	Permitted	
Biodeterioration	Not permitted	Not permitted	
Non-visible parts			
All possible features permitted without limit to size or quantity if these do not impair the strength or the wearing quality of the wood flooring.			
^a Cracks in knots and knot holes shall be filled (repaired by sealing with filler).			