



BSI Standards Publication

## Wood-flooring and parquet — Multi-layer parquet elements

---

## National foreword

This British Standard is the UK implementation of EN 13489:2023. It supersedes BS EN 13489:2017, which is withdrawn.

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 committee manager.

### Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2023  
Published by BSI Standards Limited 2023

ISBN 978 0 539 18938 4

ICS 79.080

### Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2023.

### Amendments/corrigenda issued since publication

| Date | Text affected |
|------|---------------|
|------|---------------|

---

EUROPEAN STANDARD

**EN 13489**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2023

ICS 79.080

Supersedes EN 13489:2017

English Version

**Wood-flooring and parquet - Multi-layer parquet elements**Planchers en bois et parquets - Eléments de parquet  
contrecolléHolzfußböden und Parkett -  
Mehrschichtparkettelemente

This European Standard was approved by CEN on 21 May 2023.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

| <b>Contents</b>  |  | Page      |
|--|--|-----------|
| <b>European foreword</b> .....   |  | <b>3</b>  |
| <b>Introduction</b> .....  |  | <b>4</b>  |
| <b>1</b>   | <b>Scope</b> .....   | <b>5</b>  |
| <b>2</b>   | <b>Normative references</b> .....  | <b>5</b>  |
| <b>3</b>   | <b>Terms and definitions</b> .....   | <b>5</b>  |
| <b>4</b>   | <b>Requirements</b> .....  | <b>6</b>  |
| <b>4.1</b>   | <b>Technical requirements</b> .....  | <b>6</b>  |
| <b>4.1.1</b>   | <b>General</b> .....   | <b>6</b>  |
| <b>4.1.2</b>   | <b>Moisture content</b> .....  | <b>6</b>  |
| <b>4.1.3</b>   | <b>Dimensional characteristics and limit deviations</b> .....  | <b>6</b>  |
| <b>4.1.4</b>   | <b>Hardness</b> .....  | <b>7</b>  |
| <b>4.1.5</b>   | <b>Finishing</b> .....   | <b>7</b>  |
| <b>4.1.6</b>   | <b>Bonding quality for products under dry indoor conditions and for underfloor heating systems</b> ..... | <b>8</b>  |
| <b>4.1.7</b>   | <b>Product specific requirements</b> .....   | <b>8</b>  |
| <b>4.2</b>   | <b>Requirements for wood species</b> .....   | <b>8</b>  |
| <b>4.2.1</b>   | <b>Introduction</b> .....  | <b>8</b>  |
| <b>4.2.2</b>   | <b>General rules</b> .....   | <b>8</b>  |
| <b>4.2.3</b>   | <b>Classification rules for species</b> .....  | <b>8</b>  |
| <b>4.2.4</b>   | <b>Natural colours</b> .....   | <b>13</b> |
| <b>4.2.5</b>   | <b>Classification</b> .....  | <b>13</b> |
| <b>5</b>   | <b>Measures to extend the life span</b> .....  | <b>13</b> |
| <b>6</b>   | <b>Labelling</b> .....   | <b>14</b> |
| <b>Annex A (normative) Principles for the classification of the free class</b> ..... |  | <b>15</b> |
| <b>Bibliography</b> .....  |  | <b>17</b> |

## European foreword

This document (EN 13489:2023) 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 January 2024, and conflicting national standards shall be withdrawn at the latest by January 2024.

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 13489:2017.

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

- a complete revision of EN 13489 has been done, especially:
  - a) update to revised terminology standard EN 13756;
  - b) update to revised standard for geometrical characteristics according to EN 13647;
  - c) update to revised Brinell hardness standard EN 1534;
- a reference to test methods for surface finishes (chemical resistance/abrasion/elasticity) according to EN 13696 and EN 13442 has been included;
- a reference to a test method and min. requirement for top layer bonding according to EN 17456 has been included.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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.

## **Introduction**

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

This document specifies the characteristics of multi-layer parquet. It is based upon current dimensional standards used in the industry and other characteristics together with functions that have been verified by test.

A large amount of knowledge exists about multi-layer 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.

## 1 Scope

This document specifies the characteristics, requirements and test methods of multi-layer parquet elements for internal use as flooring.

## 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 1309-3, *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 13442, *Wood and parquet flooring and wood panelling and cladding - Determination of the resistance to chemical agents*

EN 13647, *Wood flooring and wood panelling and cladding - Determination of geometrical characteristics*

EN 13696, *Wood flooring - Test methods to determine elasticity and resistance to wear and impact resistance*

EN 13756, *Wood flooring and parquet - Terminology*

EN 17456, *Wood flooring and parquet - Determination of top layer delamination of multilayer elements - Test method*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13756 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

#### **multi-layer parquet**

wood flooring system of laminated construction with a solid wood top layer of at least 2,5 mm thickness and additional layer(s) as a core/backing constituted of wood based and/or lignified material of more or equal to 75 % in mass

Note 1 to entry: 2-layer and 3-layer parquet are specific variants of multilayer parquet. 2-layer parquet consists of top layer and core layer made of solid wood, wood based panels or combinations of them. Additionally, a veneer or a secondary wood based panel is applied as backing in 3-layer parquet.

[SOURCE: EN 13756:2018, 4.2.1.6, modified – adding Note 1 to entry]