

SVENSK STANDARD

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Trägolv – Egenskaper, utvärdering av överensstämmelse och märkning

Wood flooring – Characteristics, evaluation of conformity and marking



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Denna standard ersätter SS-EN 14342:2005+A1:2008, utgåva 1.

The European Standard EN 14342:2013 has the status of a Swedish Standard. This document contains the official version of EN 14342:2013.

This standard supersedes the Swedish Standard SS-EN 14342:2005+A1:2008, edition 1.

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EUROPEAN STANDARD

EN 14342

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2013

ICS 79.080; 97.150

Supersedes EN 14342:2005+A1:2008

English Version

Wood flooring - Characteristics, evaluation of conformity and marking

Planchers en bois - Caractéristiques, évaluation de conformité et marquage

Holzfussböden - Eigenschaften, Bewertung der Konformität und Kennzeichnung

This European Standard was approved by CEN on 8 May 2013.

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.

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

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Foreword

This document (EN 14342:2013) 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of an identical text or by endorsement, at the latest by January 2014, and conflicting national standards shall be withdrawn at the latest by January 2014.

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 14342:2005+A1:2008.

In comparison with the previous edition, the entire document has been revised.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

SS-EN 14342:2013 (E)**1 Scope**

This European Standard defines and specifies the relevant characteristics and requirements of flat surface wood flooring products and parquets as well as the appropriate test methods for determination of their suitability for use as internal flooring, including fully enclosed public transport premises.

The European Standards for specific wood flooring products and parquets to which this European Standard relates, and which provide product definitions and requirements for dimensional tolerances, include the following:

- solid parquet elements with tongues and grooves (EN 13226);
- solid lamparquet products (EN 13227);
- solid wood overlay elements including blocks with an interlocking system (EN 13228);
- mosaic parquet elements (EN 13488);
- multi-layer parquet elements (EN 13489);
- solid pre-assembled hardwood board (EN 13629);
- solid softwood floor boards (EN 13990);
- wood veneer floor coverings (EN 14354);
- solid wood parquet — vertical finger, wide finger and module brick (EN 14761).

This European Standard may also apply to other wood flooring products and parquets than those standards above. However, it does not specify any requirements for dimensional limits of tolerances of such products.

This European Standard provides also for the evaluation of conformity and the requirements for marking the wood flooring products and parquets.

This European Standard covers wood flooring products and parquets which may or may not be treated to improve their reaction to fire performance or their durability against biological agents.

This European Standard does not apply to:

- wood flooring products and parquets specifically manufactured for enhanced tactile and recognition;
- bamboo flooring products;
- laminate flooring products;
- product made with plants such as aloe or cork or coconut.

This European Standard covers wood flooring products and parquets with or without paint, varnish, lacquer, wax or oil.

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 335, *Durability of wood and wood-based products — Use classes: definitions, application to solid wood and wood-based products*

EN 350-1, *Durability of wood and wood-based products — Natural durability of solid wood — Part 1: Guide to the principles of testing and the classification of the natural durability of wood*

EN 350-2, *Durability of wood and wood-based products — Natural durability of solid wood — Part 2: Guide to natural durability and treatability of selected wood species of importance in Europe*

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

EN 599-2, *Durability of wood and wood-based products — Performance of preventive wood preservatives as determined by biological tests — Part 2: Classification and labelling*

EN 717-1, *Wood based panels— Determination of formaldehyde release — Part 1: Formaldehyde emission by the chamber method*

EN 717-2, *Wood based panels — Determination of formaldehyde release — Part 2: Formaldehyde release by the gas analysis method*

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

EN 1533, *Wood flooring — Determination of bending strength under static load — Test methods*

EN 12664, *Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Dry and moist products of medium and low thermal resistance*

EN 13226, *Wood flooring — Solid parquet elements with grooves and/or tongues*

EN 13227, *Wood flooring — Solid lamparquet products*

EN 13228, *Wood flooring — Solid wood overlay flooring elements including blocks with an interlocking system*

EN 13488, *Wood flooring — Mosaic parquet elements*

EN 13489, *Wood flooring — Multi-layer parquet elements*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13629, *Wood flooring — Solid individual and pre-assembled hardwood boards*

EN 13756, *Wood flooring — Terminology*

EN 13986, *Wood-based panels for use in construction — Characteristics, evaluation of conformity and marking*

EN 13990, *Wood flooring — Solid softwood floor boards*

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EN 14354, *Wood-based panels — Wood veneer floor covering*

EN 14761, *Wood flooring — Solid wood parquet — Vertical finger, wide finger and module brick*

CEN/TR 14823, *Durability of wood and wood-based products — Quantitative determination of pentachlorophenol in wood — Gas chromatographic method*

CEN/TS 15676, *Wood flooring — Slip resistance — Pendulum test*

EN ISO 9239-1, *Reaction to fire tests for floorings — Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1)*

EN ISO 10456, *Building materials and products — Hygrothermal properties — Tabulated design values and procedures for determining declared and design thermal values (ISO 10456)*

3 Terms and definitions

For the purpose of this document the terms and definitions given in EN 13756, EN 844-9 and those in the specific product standards (i.e. EN 13226, EN 13227, EN 13228, EN 13488, EN 13489, EN 13990, EN 13629, EN 14354 and EN 14761) apply.

4 Requirement for wood flooring products and parquets**4.1 Dimensional characteristics**

Dimensional characteristics of a wood flooring product and parquet shall be in line with those defined in the relevant specific product standard.

NOTE The equilibrium moisture content and resulting dimensional changes of wood flooring product and parquet are dependent on ambient temperature and relative humidity of the site at the time of installation and on the in-service conditions throughout the service life of the floor.

4.2 Reaction to fire

The reaction to fire performance of a wood flooring product and parquet, whether treated or not, shall be classified in accordance with EN 13501-1, after being tested in accordance with the test standards given therein and the relevant reaction to fire class declared.

When tested, the product shall be mounted and fixed in accordance with the same mounting and fixing conditions used for obtaining the classification of products without the need of testing (i.e. in accordance with EN ISO 9239-1, on a substrate of at least Class D –s2, d0 (or Class A2 –s1, d0 when glued to substrate) and with minimum density of 400 kg/m³ or with an air gap underneath. For parquet products with 14 mm thickness or more and for veneered floor coverings in applications without air gap, an interlayer of at least class E and with minimum thickness of 3 mm may be included).

In case the product meets the requirements given in Table 1¹⁾ it may be classified without the need for further testing (CWFT) in one of the appropriate classes shown therein. In this case, the relevant reaction to fire class shall be declared (together with the corresponding mean density of the product, the overall thickness of the product as well as the end-use conditions).

1) This table is the same as Table 1 in Commission Decision 2006/213/EC of 2006-03-06 (see OJEU L79 of 2006-03-16).

Table 1 —Classes of reaction to fire performance for wood flooring

| Product ^{a, g} | Product detail ^d | Minimum mean density ^e (kg/m ³) | Minimum overall thickness (mm) | End-use condition | Class ^c for floorings |
|---|--|--|--------------------------------|------------------------------------|----------------------------------|
| Wood flooring and parquet | Solid flooring of oak or beech with surface coating | Beech: 680 Oak: 650 | 8 | Glued to substrate ^f | C _{fl} - s1 |
| | Solid flooring of oak, beech or spruce and with surface coating | Beech: 680 Oak: 650 Spruce: 450 | 20 | With or without air gap underneath | |
| | Solid wood flooring with surface coating and not specified above | 390 | 8 | Without air gap underneath | D _{fl} - s1 |
| | | 390 | 20 | With or without air gap underneath | |
| | Solid wood flooring and parquet not specified above ⁱ | 400 | 6 | All | E _{fl} |
| Wood parquet | Multilayer parquet with a top layer of oak of at least 5 mm thickness and with surface coating | 650 (top layer) | 10 | Glued to substrate ^f | C _{fl} - s1 |
| | | | 14 ^b | With or without air gap underneath | |
| | Multilayer parquet with surface coating and not specified above | 500 | 8 | Glued to substrate | D _{fl} - s1 |
| | | | 10 | Without air gap underneath | |
| | | | 14 ^b | With or without air gap underneath | |
| | Solid wood (one layer) parquet of walnut ⁱ | 650 | 8 | Glued to substrate ^j | D _{fl} -s1 |
| | Solid (one layer) parquet of oak, maple and ash ⁱ | Ash:650 Maple: 650 Oak: 720 | 8 | Glued to substrate ^j | D _{fl} -s1 |
| Multilayer parquet with oak top layer, at least 3,5 mm ⁱ | 550 | 15 ^h | Without air gap underneath | D _{fl} -s1 | |
| Wood flooring | Solid wood flooring of pine and spruce ⁱ | Pine: 480 Spruce: 400 | 14 | Without air gap underneath | D _{fl} -s1 |
| | Solid flooring of beech, oak, pine or spruce ⁱ | Beech: 700 Oak: 700 Pine: 430 Spruce: 400 | 20 | With or without air gap underneath | D _{fl} -s1 |
| Veneered floor covering | Veneered floor covering with surface coating | 800 | 6 ^b | Without air gap underneath | D _{fl} - s1 |
| <p>^a Mounted in accordance with EN ISO 9239-1, on a substrate of at least Class D - s2, d0 and with minimum density of 400 kg/m³ or with an air gap underneath.</p> <p>^b An interlayer of at least Class E and with maximum thickness 3 mm may be included in applications without an air gap, for parquet products with 14 mm thickness or more and for veneered floor coverings.</p> <p>^c Class as provided for in Commission Decision 2000/147/EC Annex Table 2.</p> | | | | | |