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		49 2512

Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/15

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EUROPEAN STANDARD NORME EUROPÉENNE

EN 13986:2004+A1

EUROPÄISCHE NORM

April 2015

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Supersedes EN 13986:2004

English Version

Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking

Panneaux à base de bois destinés à la construction -Caractéristiques, évaluation de conformité et marquage Holzwerkstoffe zur Verwendung im Bauwesen -Eigenschaften, Bewertung der Konformität und Kennzeichnung

This European Standard was approved by CEN on 8 July 2004 and includes Amendment 1 approved by CEN on 19 January 2015.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 13986:2004+A1:2015) has been prepared by Technical Committee CEN/TC 112 "Wood-based panels", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by January 2017.

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 includes Amendment 1, approved by CEN on 2015-01-19.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A_1 A_1 .

This document has been prepared under Mandate M/113 given to CEN by the European Commission and the European Free Trade Association, as revised by the Standing Committee on Construction on 14 May 2003 and supports essential requirements of EU Regulations.

For relationship with A Regulation (EU) No. 305/2011 (A), see the informative Annex ZA, which is an integral part of this document.

This document supersedes At EN 13986:2004 (At.

A1 Deleted text (A1

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.

1 Scope

This document defines wood-based panels for use in construction and specifies the relevant characteristics and the appropriate test methods to determine these characteristics for wood-based panels, unfaced, overlaid, veneered or coated:

- for internal use as structural components in dry conditions¹);
- for internal (or protected external) use as structural components in humid conditions²);
- for external use as structural components³);
- for internal use as non-structural components in dry conditions¹);
- for internal (or protected external) uses as non structural components in humid conditions²);
- for external use as non-structural components³);
- for use as structural floor decking on joists in dry¹) or humid²) or external³) conditions;
- for use as structural roof decking on joists in dry¹) or humid²) or external³) conditions;
- for use as structural wall sheathing on studs in dry¹) or humid²) or external³) conditions.

It provides for the evaluation of conformity and the requirements for marking these products.

This document covers wood-based panels in the form of solid wood panels, LVL⁴), plywood, OSB, particleboards (chipboards) either resin- or cement-bonded, wet process fibreboards (hardboards, medium boards, softboards) and dry process fibreboards (MDF) for use in construction. They may contain chemical agents to improve their reaction to fire and their resistance to biological attack, e.g. by fungi and insects.

This document is not intended to be applicable to wood-based panels for use in non-constructional applications.

2 Normative references

The following referenced documents are indispensable for the application 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 120, Wood based panels - Determination of formaldehyde content - Extraction method called the perforator method

¹⁾ Dry conditions are defined in 3.8.2. Boards of this type are suitable for use in biological hazard class 1 of EN 335-3.

²⁾ Humid conditions are defined in 3.8.3. Boards of this type are suitable for use in biological hazard classes 1 and 2 of EN 335-3.

³⁾ Exterior conditions are defined in 3.8.4. Boards of this type are suitable for use in biological hazard classes 1, 2, 3 and 4 of EN 335-3.

⁴⁾ A deleted text A. PrEN 14374 — Timber structures: Laminated Veneer Lumber (LVL), for use as a structural product — is being prepared by CEN/TC 124.

EN 300, Oriented Strand Boards (OSB) - Definitions, classification and specifications

EN 309, Wood particleboards - Definitions and classification

EN 310, Wood-based panels - Determination of modulus of elasticity in bending and of bending strength

EN 312, Particleboards - Specifications

EN 313-2, Plywood - Classification and terminology - Part 2: Terminology

EN 314-1, Plywood - Bonding quality - Part 1: Test methods

EN 314-2, Plywood - Bonding quality - Part 2: Requirements

EN 316, Wood fibre boards - Definition, classification and symbols

EN 317, Particleboards and fibreboards - Determination of swelling in thickness after immersion in water

EN 319, Particleboards and fibreboards - Determination of tensile strength perpendicular to the plane of the board

EN 321, Wood-based panels - Determination of moisture resistance under cyclic test conditions

EN 323, Wood-based panels - Determination of density

EN 325, Wood-based panels - Determination of dimensions of test pieces

EN 326-1, Wood-based panels - Sampling, cutting and inspection - Part 1: Sampling and cutting of test pieces and expression of test results

EN 326-2, Wood-based panels — Sampling, cutting and inspection — Part 2: Quality control in the factory

EN 335-1, Durability of wood and derived products — Definition of hazard classes of biological attack — Part 1: General

EN 335-2, Durability of wood and wood-based products — Definition of hazard classes of biological attack — Part 2: Application to solid wood

EN 335-3, Durability of wood and wood-based products — Definition of hazard classes of biological attack — Part 3: Application to wood-based panels

A EN 383, Timber Structures - Test methods - Determination of embedment strength and foundation values for dowel type fasteners

EN 594, Timber structures - Test methods - Racking strength and stiffness of timber frame wall panels 🔄

EN 596, Timber structures - Test methods - Soft body impact test of timber framed walls

EN 622-1, Fibreboards - Specifications - Part 1: General requirements

EN 622-2, Fibreboards - Specifications - Part 2: Requirements for hardboards

EN 622-3, Fibreboards - Specifications - Part 3: Requirements for medium boards

EN 622-4, Fibreboards - Specifications - Part 4: Requirements for softboards

EN 622-5 (A), Fibreboards - Specifications - Part 5: Requirements for dry process boards (MDF)

EN 633, Cement-bonded particleboards - Definition and classification

EN 634-2, Cement-bonded particleboards — Specifications — Part 2: Requirements for OPC bonded particleboards for use in dry, humid and exterior

EN 636, Plywood - Specifications

EN 717-1 (A), 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

A) EN 789 (A), Timber structures - Test methods - Determination of mechanical properties of wood based panels

EN 1058, Wood-based panels — Determination of characteristic values of mechanical properties and density

EN 1087-1, Particleboards - Determination of moisture resistance - Part 1: Boil test

EN 1156 (A), Wood-based panels - Determination of duration of load and creep factors

EN 1195, Timber structure — Test methods — Performance of structural floor decking

► EN 1995-1-1 (A), Eurocode 5 — Design of timber structures — Part 1-1: General rules and rules for buildings

A) EN 12114, Thermal performance of buildings - Air permeability of building components and building elements - Laboratory test method (A)

EN 12369-1, Wood-based panels - Characteristic values for structural design - Part 1: OSB, particleboards and fibreboards

EN 12369-2, Wood-based panels - Characteristic values for structural design - Part 2: Plywood

EN 12524, Building materials and products — Hygrothermal properties — Tabulated design values

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 12775, Solid wood panels - Classification and terminology

EN 12871, Wood-based panels — Performance, specification and requirements for load-bearing boards for use in floors, walls, and roofs

A) CEN/TR 12872 (A), Wood-based panels - Guidance on the use of load-bearing boards in floors, walls and roofs

EN 13353, Solid wood panels (SWP) — Requirements

CEN/TS 13354, Solid wood panels — Bonding quality — Test method

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

►) EN 14279 (A), Laminated Veneer Lumber (LVL) — Specifications, definitions, classification and requirements

A) EN 14755 (A), Extruded particleboards - Specifications

A) EN 15197, Wood-based panels - Flaxboards - Specifications (A)

EN ISO 354, Acoustics - Measurement of sound absorption in a reverberation room (ISO 354:2003)

EN ISO 12572:2001, Hygrothermal performance of building materials and products - Determination of water vapour transmission properties (ISO 12572:2001)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN