Vineer. Spetsifikaadid

Plywood - Specifications



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NATIONAL FOREWORD

See Eesti standard EVS-EN 636:2012 sisaldab	
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ICS 79.060.10

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EUROPEAN STANDARD

NORME EUROPÉENNE

EN 636

EUROPÄISCHE NORM

September 2012

ICS 79.060.10 Supersedes EN 636:2003

English Version

Plywood - Specifications

Contreplaqué - Exigences

Sperrholz - Anforderungen

This European Standard was approved by CEN on 11 August 2012.

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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.

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

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Foreword

This document (EN 636:2012) 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of an identical text or by endorsement, at the latest by March 2013, and conflicting national standards shall be withdrawn at the latest by March 2013.

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 636:2003.

Compared to EN 636:2003, the following modifications have been made:

- a) classification system for bending strength and bending modulus completed with classes F 35 and E 35;
- b) limit values in Table 2 changed;
- c) letter indicating the intended application changed from "G" to "NS";
- d) marking of formaldehyde release revised in accordance with EN 13986;

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, Croratia, 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 European Standard specifies the requirements for plywood, as defined in EN 313-2, for both general purpose use (non-structural application) and structural application in dry, humid or exterior conditions. It also gives a classification system based on the bending properties.

- NOTE 1 This European Standard is referenced in EN 13986 for construction applications.
- NOTE 2 For additional guidance on application, information is provided in CEN/TS 1099.

The values listed under Clause 4 relate only to product properties; they are not 'characteristic values' and are not to be used in design calculations.

NOTE 3 Characteristic values (i.e. for use in design calculation according to EN 1995-1-1) are given either in EN 12369-2 which is based on the classification system given in this standard or by the manufacturer based on testing according to EN 789, EN 1058 and ENV 1156.

Additional information on supplementary properties for certain applications is also given.

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

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

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

EN 315, Plywood — Tolerances for dimensions

EN 318, Wood-based panels — Determination of dimensional changes associated with changes in relative humidity

EN 322, Wood-based panels — Determination of moisture content

EN 323, Wood-based panels — Determination of density

EN 324-1, Wood-based panels — Determination of dimensions of boards — Part 1: Determination of thickness, width and length

EN 324-2, Wood-based panels — Determination of dimensions of boards — Part 2: Determination of squareness and edge straightness

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: Initial type testing and factory production control

EN 326-3, Wood based panels — Sampling, cutting and inspection — Part 3: Inspection of an isolated lot of panels

EN 335-3:1995, Durability of wood and wood-based products — Definition of hazard classes of biological attack —Part 3: Application to wood-based panels

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 635-1, Plywood — Classification by surface appearance — Part 1: General

EN 635-2, Plywood — Classification by surface appearance — Part 2: Hardwood

EN 635-3, Plywood — Classification by surface appearance — Part 3: Softwood

CEN/TS 635-4, Plywood — Classification by surface appearance — Part 4: Parameters of ability for finishing, Guideline

EN 635-5, Plywood — Classification by surface appearance — Part 5: Methods for measuring and expressing characteristics and defects

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 789, Timber structures — Test methods — Determination of mechanical properties of wood based panels

EN 1058, Wood-based panels — Determination of characteristic 5-percentile values and characteristic mean values

ENV 1156, Wood-based panels — Determination of duration load and creep factors

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

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

EN 13446, Wood-based panels — Determination of withdrawal capacity of fasteners

EN 13810-1, Wood-based panels — Floating floors — Part 1: Performance specifications and requirements

CEN/TS 13810-2, Wood-based panels — Floating floors — Part 2: Test methods

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

EN 14272, Plywood — Calculation method for some mechanical properties

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

plywood for use in dry conditions

plywood to be used in conditions characterised by a moisture content in the material corresponding to a temperature of 20 $^{\circ}$ C and a relative humidity of the surrounding air only exceeding 65 % for a few weeks per year

Note 1 to entry: These conditions correspond with Service Class 1 according to EN 1995-1-1.