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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Particleboards - Specifications

Panneaux de particules - Exigences

Spanplatten - Anforderungen

This European Standard was approved by CEN on 23 July 2010.

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 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 Management Centre has the same status as the official versions.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Classifications.....	5
5 General requirements for all board types	6
6 Requirement values.....	7
7 Requirements for general purpose boards for use in dry conditions (Type P1)	8
8 Requirements for boards for interior fitments (including furniture) for use in dry conditions (Type P2)	8
9 Requirements for non load-bearing boards for use in humid conditions (Type P3).....	9
9.1 General.....	9
9.2 Mechanical and swelling properties	9
9.3 Moisture resistance	9
10 Requirements for load-bearing boards for use in dry conditions (Type P4).....	10
11 Requirements for load-bearing boards for use in humid conditions (Type P5)	10
11.1 General.....	10
11.2 Mechanical and swelling properties	11
11.3 Moisture resistance	11
12 Requirements for heavy duty load-bearing boards for use in dry conditions (Type P6).....	12
13 Requirements for heavy duty load-bearing boards for use in humid conditions (Type P7).....	13
13.1 General.....	13
13.2 Mechanical and swelling properties	13
13.3 Moisture resistance	14
14 Supplementary properties	14
15 Verification of compliance	15
15.1 General.....	15
15.2 External control.....	15
15.3 Factory production control.....	15
16 Marking	16
16.1 Boards marketed within the European Economic Area for construction applications.....	16
16.2 Other Boards	16
Annex A (normative) Voluntary colour coding system for particleboards	17
Bibliography	18

Foreword

This document (EN 312:2010) 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 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

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 312:2003.

Compared to EN 312:2003, the following main modifications have been made:

- a) New thickness ranges included;
- b) Certain values for bending strength, modulus of elasticity and thickness swelling modified.

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the requirements for flat-pressed or calendar-pressed unfaced particleboards as defined in EN 309.

NOTE 1 This standard is called up in EN 13986 for construction applications. Products specified in this standard are referred to in EN 13986 as resin-bonded particleboards.

The values listed in this standard relate to product properties, but they are not characteristic values to be used in design calculations.

NOTE 2 Such characteristic values (e.g. for use in design calculation in EN 1995-1-1) are given either in EN 12369-1 or derived by testing according to EN 789, EN 1058 and ENV 1156.

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

NOTE 3 Particleboards in accordance with this standard may be referred to as P1 to P7-boards. Boards of type P4 to P7 are intended for use in design and construction of load-bearing or stiffening building elements, e.g. walls, flooring, roofing and I-beams (see EN 1995-1-1 and/or performance standards).

This standard does not apply to extruded particleboards and flaxboards, which are standardised in EN 14755 and EN 15197 respectively.

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*

EN 309:2005, *Particleboards — Definition and classification*

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

EN 311, *Wood-based panels — Surface soundness — Test method*

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

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

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 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: Quality control in the factory*

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

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

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

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

EN 13986:2004, *Wood-based panels for use in construction — Characteristics, evaluation of conformity and marking*

ISO 3340, *Fibre building boards — Determination of sand content*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13986:2004 and EN 309:2005 and the following apply.

3.1

dry conditions

conditions corresponding to service class 1 of EN 1995-1-1:2004 which is characterised by a moisture content in the material corresponding to a temperature of 20 °C and a relative humidity of the surrounding air only exceeding 65 % for a few weeks per year

3.2

humid conditions

conditions corresponding to service class 2 of EN 1995-1-1:2004 which is characterised by a moisture content in the material corresponding to a temperature of 20 °C and a relative humidity of the surrounding air only exceeding 85 % for a few weeks per year

3.3

general purpose

all non-load bearing applications, e.g. furniture and fitments

3.4

load-bearing

use in a load-bearing construction, i.e. an organized assembly of connected parts designed to provide mechanical resistance and stability to the works

NOTE Also referred to as "structural use".

4 Classifications

Seven types of boards are classified and are distinguished as follows: