

Fibreboards - Specifications - Part 5: Requirements for dry process boards (MDF)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 622-5:2006 sisaldab Euroopa standardi EN 622-5:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.08.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 622-5:2006 consists of the English text of the European standard EN 622-5:2006.</p> <p>This document is endorsed on 30.08.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the requirements for dry process boards (MDF) as defined in EN 316. The values listed in this European Standard relate to product properties but they are not characteristic values to be used in design calculations¹).</p>	<p>Scope:</p> <p>This European Standard specifies the requirements for dry process boards (MDF) as defined in EN 316. The values listed in this European Standard relate to product properties but they are not characteristic values to be used in design calculations¹).</p>
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Võtmesõnad:

English Version

**Fibreboards - Specifications - Part 5: Requirements for dry
process boards (MDF)**

Panneaux de fibres - Exigences - Partie 5: Exigences pour
panneaux obtenus par procédé à sec (MDF)

Faserplatten - Anforderungen - Teil 5: Anforderungen an
Platten nach dem Trockenverfahren (MDF)

This European Standard was approved by CEN on 24 May 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 622-5:2006) 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

This document supersedes EN 622-5:1997.

This standard is one of a series specifying requirements for fibreboards. The other parts of this series are listed in Clause 2 and in the bibliography.

The following modification has been made:

- New panel types light MDF (L-MDF, L-MDF.H), ultra light MDF (UL-MDF) and boards for use in rigid underlays in roofing and walls (MDF.RWH) have been included.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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 United Kingdom.

1 Scope

This European Standard specifies the requirements for dry process boards (MDF) as defined in EN 316.

The values listed in this European Standard relate to product properties but they are not characteristic values to be used in design calculations¹⁾.

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 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 320, *Fibreboards - Determination of resistance to axial withdrawal of screws*

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

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 382-1, *Fibreboards - Determination of surface absorption - Part 1: Test method for dry process fibreboards*

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

EN 1087-1:1995, *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 13271, *Timber fasteners - Characteristic load-carrying capacities and slip-moduli for connector joints*

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

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

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

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

3 Terms and definitions

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

3.1

dry conditions

conditions corresponding to service class 1 of EN 1995-1-1 which is characterized 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. Boards of this type are suitable for use only in hazard class 1 of EN 335-3

3.2

humid conditions

conditions corresponding to service class 2 of EN 1995-1-1 which is characterized 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 % only for a few weeks per year. Boards of this type are suitable for use in hazard classes 1 and 2 of EN 335-3

3.3

general purpose use

use in non load-bearing applications not otherwise specified

3.4

non load-bearing use

use in non load-bearing conditions, e.g. as part of a building or construction

3.5

load-bearing use

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".

3.6

load duration class

class characterized by the effect of a constant load acting for a certain period of time in the life of the structure

NOTE 1 The load duration classes are defined in EN 1995-1-1, see Table 1.

Table 1 — Load duration category

Load duration class	Order of accumulated duration of characteristic load
Permanent	More than 10 years
Long-term	6 months to 10 years
Medium-term	1 week to 6 months
Short-term	Less than one week
Instantaneous	

NOTE 2 Examples of load-duration assignment are given in Table 2. Since climatic loads (snow, wind) vary between countries, the assignment of load-duration classes may be specified in the national Annex.