

Fibreboards — Specifications —

Part 2. Requirements for hardboards

The European Standard EN 622-2 : 1997 has the status of a
British Standard

ICS 79.060.20

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National foreword

This British Standard is the English language version of EN 622-2 : 1997.

The UK participation in its preparation was entrusted to Technical Committee B/541, Wood based panels, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

BS EN 622-1, BS EN 622-2, BS EN 622-3, BS EN 622-4 and BS EN 622-5 together supersede BS 1142 : 1989, (with the exception of appendix C, Common uses of fibre building boards in the construction industry, and appendix D, Recommendations for transportation, storage and conditioning of fibre building boards). BS 1142 will be withdrawn in accordance with CEN procedures within six months of the completion of the full package of European Standards covering fibreboards and related test methods. These standards are:

EN 310	EN 322	EN 622-1
EN 316	EN 323	EN 622-2
EN 317	EN 324-1	EN 622-3
EN 318	EN 324-2	EN 622-4
EN 319	EN 325	EN 622-5
EN 320	EN 382-1	
EN 321	EN 382-2	

The material in appendices C and D of BS 1142 : 1989, together with corresponding material giving recommendations for storage, handling, selection and application of particleboard, OSB and cement-bonded particleboards, will be revised and re-issued in a new British Standard, at present in preparation.

The values for dimensional tolerances and other properties given in this standard are in most cases determined and expressed using different methods of test and statistical procedures to those used to derive the values in BS 1142. Care should therefore be taken in drawing inferences on quality by a simple comparison of the numerical values in the two standards.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled 'International Standards Correspondence Index', or by using the 'Find' facility of the BSI Standards Electronic Catalogue.

NOTE. The three unnumbered publications listed at the end of annex D are currently in preparation and are now available as European Prestandards prEN 12869-2, prEN 12870-2 and prEN 12871-2 respectively.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 10, an inside back cover and a back cover.

Amendments issued since publication

Amd. No.	Date	Text affected

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 October 1997

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ISBN 0 580 28607 X

ICS 79.060.20

Descriptors: Wooden boards, fibreboards, insulating boards, characteristics, specifications, environments, humidity, conformity tests, marking

English version

Fibreboards — Specifications — Part 2: Requirements for hardboards

Panneaux de fibres — Exigences —
Partie 2: Exigences pour panneaux durs

Faserplatten — Anforderungen —
Teil 2: Anforderungen an harte Platten

This European Standard was approved by CEN on 1997-04-21. 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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 112, Wood-based panels, the Secretariat of which is held by DIN.

This standard is one of a series specifying requirements for fibreboards. The other parts of this series are listed in clause 2 and annex D.

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 December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This European Standard specifies the requirements for hardboards as defined in EN 316.

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

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

EN 310 : 1993	<i>Wood-based panels — Determination of modulus of elasticity in bending and of bending strength</i>
EN 316	<i>Wood fibreboards — Definition, classification, and symbols</i>
EN 317	<i>Particleboards and Fibreboards — Determination of swelling in thickness after immersion in water</i>
EN 318	<i>Fibreboards — Determination of dimensional changes associated with changes in relative humidity</i>
EN 319	<i>Particleboards and Fibreboards — Determination of tensile strength perpendicular to the plane of the board</i>
EN 326-1	<i>Wood-based panels — Sampling, cutting and inspection — Part 1: Sampling and cutting of test pieces and expression of test results</i>
EN 382-2	<i>Fibreboards — Determination of surface absorption — Part 2: Test method for hardboards</i>
EN 622-1	<i>Fibreboards — Specifications — Part 1: General requirements</i>
EN 1087-1 : 1995	<i>Particleboards — Moisture resistance — Part 1: Boil test</i>
ISO 3340	<i>Fibre building boards — Determination of sand content</i>

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 dry conditions

Conditions (defined in terms of service class 1 of ENV 1995-1-1 for load-bearing boards) characterized by a moisture content in the material corresponding to a temperature of 20 °C and a relative humidity of the surrounding air exceeding 65 % only 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 (defined in terms of service class 2 of ENV 1995-1-1 for load-bearing boards) characterized by a moisture content in the material corresponding to a temperature of 20 °C and a relative humidity of the surrounding air 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 exterior conditions

Imply exposure to weathering conditions or to liquid water or to water vapour in a damp but ventilated location. Boards of this type are suitable for use in hazard classes 1, 2 and 3 of EN 335-3.

3.4 general purpose use

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

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. Also referred to as 'structure'.

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