
Wood-based panels — Wet process fibreboard

*Panneaux à base de bois — Panneau de fibres obtenu par procédé
humide*



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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Classifications, designation and coding	2
5.1 General	2
5.1.1 Classification matrices	2
5.1.2 Structural grades	3
5.2 Softboards	3
5.3 Hardboards	3
6 Mandatory tests relating to each grade	4
6.1 General	4
6.2 Softboards	4
6.3 Hardboards	4
6.4 Supplementary properties	4
7 Thickness ranges	5
7.1 Specification values	5
7.2 Softboards	5
7.3 Hardboards	5
8 Expression of specification limits and general requirements	5
8.1 Expression of specification limits	5
8.2 Lower specification limits	6
8.3 Upper specification limits	6
8.4 Density variation, dimension and moisture content requirements	6
9 Requirements for softboards	7
9.1 Requirements for general purpose softboard for use in dry conditions	7
9.2 Requirements for general purpose softboard for use in humid conditions	7
9.3 Requirements for general purpose softboard for use in high-humidity conditions	7
9.4 Requirements for general purpose softboard for use in exterior conditions	7
9.5 Requirements for load-bearing softboard for use in dry conditions	8
9.6 Requirements for load-bearing softboard for use in humid conditions	8
10 Requirements for hardboards	8
10.1 Requirements for general purpose hardboard for use in dry conditions	8
10.2 Requirements for general purpose hardboard for use in humid conditions	9
10.3 Requirements for general purpose hardboard for use in high-humidity conditions	9
10.4 Requirements for general purpose hardboard for use in exterior conditions	9
10.5 Requirements for load-bearing hardboard for use in dry conditions	10
10.6 Requirements for load-bearing hardboard for use in humid conditions	10
Annex A (normative) Calculation of 5-percentile and 95-percentile values	12
Bibliography	14

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 89, *Wood-based panels*, Subcommittee SC 01, *Fibre boards*.

This first edition cancels and replaces ISO 27769-1:2009 and ISO 27769-2:2009, which have been technically revised.

Wood-based panels — Wet process fibreboard

1 Scope

This document provides a classification matrix and related mandatory tests for two types of wet process fibreboard made from wood: softboards and hardboards and specifies the relevant manufacturing property requirements.

NOTE 1 Wet process fibreboards are divided into three types: softboards, medium boards and hardboards. This document is not applicable to medium boards.

NOTE 2 Fibreboards are broadly divided into two groups based on the manufacturing process, namely the dry-process group and the wet process group. This document is not applicable to dry-process fibreboards (see ISO 16895).

NOTE 3 The values listed in this document relate to product properties used to classify fibreboards into one of the different types. The values are not characteristic values to be used for design purposes. When fibreboard is classified as load-bearing and nominated for structural applications, characteristic strength and stiffness values are established based upon testing in accordance with ISO 16572 or equivalent ASTM or EN Standards. Alternatively, for specific load-bearing applications (e.g. walls, roofs, floors and I-joist webs), the load-bearing fibreboard would meet the specific performance requirements for that intended application.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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

ISO 9426, *Wood-based panels — Determination of dimensions of panels*

ISO 9427, *Wood-based panels — Determination of density*

ISO 16978, *Wood-based panels — Determination of modulus of elasticity in bending and of bending strength*

ISO 16979, *Wood-based panels — Determination of moisture content*

ISO 16981, *Wood-based panels — Determination of surface soundness*

ISO 16983, *Wood-based panels — Determination of swelling in thickness after immersion in water*

ISO 16984, *Wood-based panels — Determination of tensile strength perpendicular to the plane of the panel*

ISO 16985, *Wood-based panels — Determination of dimensional changes associated with changes in relative humidity*

ISO 16998, *Wood-based panels — Determination of moisture resistance — Boil test*

ISO 20585, *Wood-based panels — Determination of wet bending strength after immersion in water at 70 °C or 100 °C (boiling temperature)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 17064 and the following apply.