
**Wood-based panels — Dry-process
fibreboard —**

**Part 1:
Classifications**

Panneaux à base de bois — Panneaux de fibres obtenus par procédé à sec —

Partie 1: Classifications



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Foreword

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ISO 16895-1 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*, Subcommittee SC 1, *Fibre boards*.

ISO 16895 consists of the following parts under the general title *Wood-based panels — Dry-process fibreboard*:

- *Part 1: Classifications*
- *Part 2: Requirements*

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Wood-based panels — Dry-process fibreboard —

Part 1: Classifications

1 Scope

This part of ISO 16895 specifies a classification matrix, related mandatory tests and thickness ranges for ultra-low-, low-, medium-, and high-density dry process fibreboard.

NOTE 1 Requirements for mandatory test properties are specified in ISO 16895-2^[1].

NOTE 2 Fibreboards are broadly divided into two groups based on the manufacturing process, namely the dry process group and the wet process group (see Clause 3). Wet process fibreboards lie outside the scope of this part of ISO 16895.

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.

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 12460-1, *Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the 1-cubic-metre chamber method*

ISO 16572, *Timber structures — Wood-based panels — Test methods for structural properties*

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 16987, *Wood-based panels — Determination of moisture resistance under cyclic test conditions*

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

ISO 17064, *Wood-based panels — Fibreboard, particleboard and oriented strand board (OSB) — Vocabulary*

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

ISO 27528, *Wood-based panels — Determination of resistance to axial withdrawal of screws*

3 Terms and definitions

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

3.1
dry process fibreboard
fibreboard with a forming line moisture content, as a mass fraction, of less than or equal to 20 % and whose primary bonding results from applied adhesives or resins

3.2
wet process fibreboard
fibreboard with a forming line moisture content, as a mass fraction, of greater than 20 % and whose primary bonding results from felting of fibres and their inherent adhesive properties

4 Symbols and abbreviated terms

D	dry conditions
DIY	do-it-yourself
E	exterior conditions
EXT	exterior
F	fungi retardant
FN	furniture
FR	fire retardant
GP	general purpose
H	humid conditions
HDF	high-density fibreboard
HMR	highly moisture resistant
I	insect retardant
LB	load bearing
LDF	low-density fibreboard
M	high humid conditions
MDF	medium-density fibreboard
MR	moisture resistant
REG	regular
UDF	ultra-low-density fibreboard
δ	thickness