INTERNATIONAL STANDARD

ISO 16895-1

First edition 2008-03-15

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

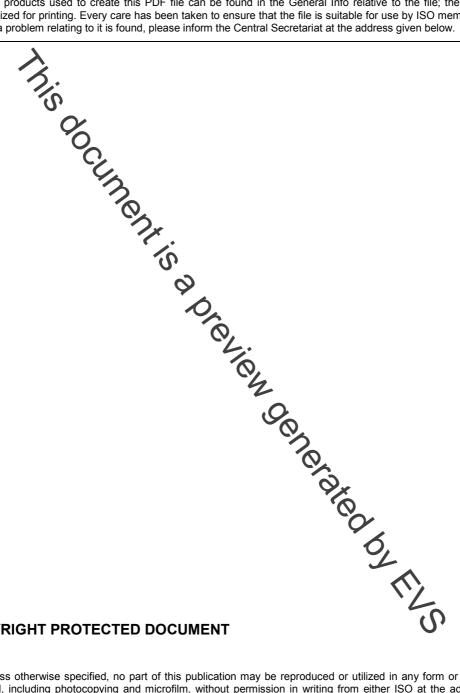


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Published in Switzerland

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 wided 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 in spensable 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 and 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 formal dehyde 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 pending 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

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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 tine 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

Symbols and abbreviated terms

D dry conditions

DIY do-it-yourself

Ε exterior conditions

EXT exterior

F fungi retardant

FΝ furniture

FR fire retardant

GP general purpose

Н humid conditions

HDF high-density fibreboard

HMR highly moisture resistant

1 insect retardant

LB load bearing

LDF low-density fibreboard

high humid conditions Μ

MDF medium-density fibreboard

MR moisture resistant

REG regular

UDF ultra-low-density fibreboard

thickness

Sa Dreview Generated by the