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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 41715-2022

Oriented strand board

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

drafted.

This document is revised and adopted ISO 16894.2009 "Definition, Classification and Specification of Wood-based Oriented Strand Board".

Compared with ISO 16894.2009, this document has many adjustments in structure, and the comparison list of structure number changes between the two documents

See Appendix A.

The technical differences between this document and ISO 16894.2009 and their reasons are as follows.

--- Replace ISO 9426, ISO 9427, ISO 12460-1, ISO 16572,

ISO 16978, ISO 16979, ISO 16983, ISO 16984, ISO 16987, ISO 16998 (see Chapter 7), no relevant documents

There is a consistent correspondence. It is more suitable for my country's national conditions and is convenient for practical operation.

--- Replace ISO 17064.2004 with GB/T 18259-2018, and add the definition of fine surface oriented strand board (F-OSB)

(see Chapter 3). Because GB/T 18259-2018 includes ISO 17064.2004 terms, and there are already fine surface orientations in China

Particleboard products, but not covered by ISO 16894.2009.

--- Increased the classification of "by surface raw material thickness" and "by whether the surface is sanded" (see Chapter 4). Because this document adds a fine surface

Oriented strand board product variety, so it is necessary to increase product classification

accordingly.

--- Increased the requirements for the classification of three types of fine-surface particleboards and their physical and mechanical properties (see 6.3.2.5~6.3.2.7). because this article

Pieces increase the variety of fine surface oriented strand board products, so it is necessary to increase the performance requirements of the corresponding products accordingly.

--- Increased the requirements for product specifications and dimensions (see 6.1.1) to facilitate production and market circulation.

--- Increased the requirements for product appearance quality (see 6.2). Because the appearance quality of the product affects its surface decoration effect and performance, it is

The corresponding provisions are made in the document.

--- Changed the density deviation within the board (see 6.3.1). suitable for my country's national conditions.

--- Changed the 24h water absorption thickness expansion rate of non-load-bearing OSB in dry state (see Table 4). suitable for my country's national conditions.

--- Changed the internal bond strength of heavy-duty oriented strand board in wet state after boiling test (see Table 7). suitable for my country's national conditions.

---Indoor oriented strand board products increase the requirements for the emission level of volatile organic compounds (VOCs) (see Chapter 5, Chapter 6

chapter). At present, this content is stipulated in the latest standards of all wood-based panels and their products in China, based on the health of the end user.

Considering, this document makes the requirements for the VOCs emission level for indoor oriented strand board products.

--- Increased inspection methods, inspection rules, packaging, transportation and storage (see Chapter 7, Chapter 8, 9.2, 9.3). suitable for my country's national conditions.

--- Deleted Appendix C. suitable for my country's national conditions.

The following editorial changes have been made to this document.

--- Removed 4 notes from Chapter 1.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the classification, specification limits, requirements, inspection methods, inspection rules, marking, packaging, transportation and storage of OSB.

This document applies to oriented strand board.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012 Counting Sampling Inspection Procedures Part 1.Lot-by-Lot Inspection Sampling Retrieved by Acceptance Quality Limit (AQL)

Plan (ISO 2859-1.1999, IDT)

GB/T 17657-2013 Test methods for physical and chemical properties of wood-based panels and veneer wood-based panels

GB/T 18259-2018 Terms for wood-based panels and their surface decoration

GB 18580 Limits of formaldehyde emission in wood-based panels and their products of interior decoration materials

GB/T 19367-2009 Dimensional determination of wood-based panels (ISO 9426.2003, MOD)

GB/T 29899-2013 Test method for release of volatile organic compounds in wood-based panels and their products Small release chamber method

LY/T 3230-2020 Classification of volatile organic compounds released by wood-based panels and their products

3 Terms and Definitions

The terms and definitions defined in GB/T 18259-2018 and the following terms and definitions apply to this document.

3.1

After the adhesive is applied to the narrow, long and thin flat shavings, they are arranged and formed in the same layer in the same direction, and then the particleboard is formed by hot pressing.

[Source. GB/T 18259-2018, definition 3.3.22]

3.2

Oriented strand board produced with fine shavings or fibers as the surface material.

3.3

major axis

The direction with the larger flexural strength value in the two directions of the length and width of the sheet.

3.4

minoraxis

The direction with the smaller flexural strength value in the two directions of the length and width of the sheet.

3.5

Oriented strand board for applications without special load-bearing requirements.