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CCS F01



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

**GB 45246-2025**

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**Norm of energy consumption per unit production of main  
wood-based panel products**

人造板类主要产品单位产品能源消耗限额

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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 for standardization documents" Drafting is required. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Standardization Administration. Energy consumption limits per unit of main wood-based panel products

### 1 Scope

GB 45246-2025 is the Chinese national standard on norm of energy consumption per unit production of main wood-based panel products, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 24 January 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 February 2026. Classification: ICS 27.010, CCS F01. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the energy consumption per unit product (hereinafter referred to as energy consumption) limit level, technical requirements, statistics and Scope and calculation method. This document is applicable to the production enterprises of medium density fiberboard, high density fiberboard, ordinary plywood and ordinary particleboard produced by wood materials Calculate and evaluate energy consumption, as well as control energy consumption of new construction and renovation and expansion projects.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 2589 General rules for comprehensive energy consumption calculation GB/T 4897 Particleboard

GB/T 9846 Ordinary plywood

GB/T 11718 Medium Density Fiberboard

GB/T 12723 General rules for the compilation of energy consumption limits per unit product

GB 17167 General rules for the allocation and management of energy metering instruments in energy-consuming units

GB/T 31765 High-density fiberboard

## 3 Terms and definitions

Terms and For the purposes of this document, the definitions apply.

## 4 Energy consumption limit levels

The unit product energy consumption limit levels of major wood-based panel products are shown in Table 1, among which Level 1 has the lowest energy consumption. Table

1 Unit energy consumption limit levels for major wood-based panel products The unit is kilograms of standard coal per cubic meter Indicator name Fiberboard unit products Comprehensive energy consumption Ordinary plywood units Comprehensive energy consumption of products Medium Density Fiberboard High-density fiberboard Full process a Front-end process Back-end process Energy consumption limit level Level 1  $\leq 118$   $\leq 200$   $\leq 170$   $\leq 110$   $\leq$

60 Level 2  $\leq 130$   $\leq 230$   $\leq 197$   $\leq 130$   $\leq$

67 Level 3  $\leq 180$   $\leq 260$   $\leq 223$   $\leq 150$   $\leq 73$