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

LY/T 1530-1999

Replacing LY/T 1530-2011

**Comprehensive energy consumption of particleboard
production
(English Translation)**

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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" Drafting.

This document replaces LY/T 1530-2011 "Comprehensive Energy Consumption for Particleboard Production". Compared with LY/T 1530-2011, the main technical changes as follows.

- a) Part of the scope has been revised (see Chapter 1, Chapter 1 of the 2011 edition);
- b) Modified the variable symbols in Chinese and English in the terminology (see 3.1~3.5, 3.1~3.3 of the 2011 edition);
- c) Deleted the definition of basic energy consumption per unit output of particleboard production (see 3.3, 2011 edition of 3.3);
- d) The definition of comparable comprehensive energy consumption per unit output of

particleboard has been added (see 3.5);

e) Modified the content of the definition of auxiliary production system and auxiliary production system (see 3.8 and 3.9, 3.5.1 and 3.5.2 of the 2011 edition);

f) Modified the grading index of comparable comprehensive energy consumption per unit output of particleboard (see Chapter 4, 4.1 in the 2011 edition);

g) Deleted the content that the comprehensive energy consumption of particleboard production is equivalent to standard coal (see 4.2 in the 2011 edition);

h) The calculation principle of comprehensive energy consumption for particleboard production has been added (see 5.1);

i) Modified part of the calculation method of comprehensive energy consumption for particleboard production (see 5.2, 5.1 of the 2011 edition);

j) The calculation principles for the types and purposes of energy consumption have been deleted (see 5.1.1~5.1.3 in the 2011 edition);

k) Modified the calculation formula for the comparable comprehensive energy consumption per unit output of particleboard production (see 5.4, 5.3 of the 2011 edition);

l) Modified the content of the correction factor (see 5.5, 5.4 of the 2011 edition);

m) The heating method correction coefficient is deleted (see 5.4.4 of the 2011 edition);

n) Added thickness correction factor (see 5.5.5);

o) Modified the test content of energy consumption for particleboard production (see 6.1, 6.1~6.3 of the 2011 edition);

p) Modified energy consumption measurement requirements (see 6.2, 6.3.1~6.3.5 and 6.3.7 of the 2011 edition);

q) The measurement of energy consumption for auxiliary production and auxiliary production has been deleted (6.3.6 in the 2011 edition);

r) Deleted the principle of energy consumption recording (2011 version 6.4);

s) The principle of production recording (6.5 in the 2011 edition) has been deleted;

t) Delete the data processing method (7 of the 2011 edition);

u) Modified the energy conversion coefficient of standard coal (see Appendix A, Appendix A of the 2011 edition).

This document was proposed by the Forestry Energy Management Sub-Technical Committee of the National Energy Fundamental and Management Standardization Technical Committee (SAC/TC20/SC7) Go out and go out.

The main drafting organizations of this document. Heilongjiang Forest Engineering and Environment Research Institute, Rizhao Aoshun Decoration Materials Co., Ltd., Kunming Xinfeilin Artificial Board Co., Ltd., Hejiang Forestry Research Institute of Heilongjiang Province, Heilongjiang Academy of Forestry Sciences, Guangxi Forestry Group Co., Ltd. Company, Jiangsu Fenglin Wood Industry Co., Ltd.

1 Scope

This document defines the terms and definitions of the comprehensive energy consumption for particleboard production, and specifies the grading index for the comparable comprehensive energy consumption per unit output of particleboard.

Standards and calculation principles and methods of production energy consumption, and requirements for testing and measurement of production energy consumption.

This document is applicable to wood chipboard manufacturers.

2 Normative references

The content of the following documents constitutes an indispensable clause of the cost document through normative references in the text. Among them, dated quotations Only the version on that date is applicable to this document. For undated references, the latest version (including all amendments) is applicable to this file.

GB/T 2589 General Rules for Comprehensive Energy Consumption Calculation GB/T 4897 Particleboard GB/T 6422 Energy Test Guidelines for Energy-using Equipment GB/T 15316 General Rules for Energy-saving Monitoring Technology GB 17167 General rules for the provision and management of energy measuring instruments for energy-consuming units LY/T 2394 Management Specification for Energy Measuring Instruments for Forestry Enterprises

3 Terms and definitions

The following terms and definitions defined in GB/T 4897 apply to this document.

Comprehensive energy consumption of particleboard production Refers to the actual consumption of particleboard production enterprises in the whole process of particleboard production (direct production, indirect production) during the planned statistical period the physical quantity of this energy is converted into the sum of standard coal according to the prescribed calculation method.

Direct comprehensive energy consumption of particleboard production the comprehensive energy consumption of particleboard production in the direct production system during the same statistical period.

Indirect comprehensive energy consumption of particleboard production the comprehensive energy consumption of particleboard production in the indirect production system during the same statistical period, including auxiliary production energy consumption and auxiliary production energy consumption.

Specific yield comprehensive energy consumption of particleboard production the ratio of the comprehensive energy consumption of particleboard production to the output of qualified particleboard during the same statistical period.

Comparable comprehensive energy consumption for unit output of particleboard in the process of particleboard production, the annual production of particleboard is.200 000 m³ ≤ M < 250 000 m³, and the monthly average temperature is 20°C ≤ T < the amount of energy consumed to produce 1m³ qualified particleboard when the product thickness is 13 mm < H ≤ 20 mm at 35°C.

Direct production

Activities or operations directly related to particleboard production, including raw material preparation, particle preparation, particle drying, screening, sizing, paving, Production processes such as hot pressing and post-processing.

Indirect production

Production activities that provide supporting services for direct production, including auxiliary production systems and auxiliary production systems.

Auxiliary production system Provide three waste treatment, production equipment maintenance, compressed air supply, heating (or cooling) and lighting in the production workshop for direct production Produce.

Subsidiary production system for direct and indirect production, it provides raw materials and finished product warehouses, and production-related public places heating (or cooling) and lighting.

4 Comparable comprehensive energy consumption grading index per unit output of particleboard

See Table 1 for the comparable comprehensive energy consumption grading index per unit output of particleboard.

5.1 Calculation principles of comprehensive energy consumption for particleboard production

The calculation of comprehensive energy consumption for particleboard production shall comply with the relevant regulations of GB/T 2589.Common energy and energy consumption working fluid conversion standard coal coefficient compliance the provisions