

ICS 79.120.01

CCS B 97



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

GB/T 18514-2018

Replacing GB/T 18514-2001

Safety code for wood-based panel machinery

人造板机械安全通则

Issued on: February 6, 2018

Implemented on: September 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Hazard Category and Content", "
- 6 Determination of Safety Requirements and/or Measures" and "

Foreword

This standard is based on GB/T 1.1-2009 and GB/T 16755-2008 "Safety safety standards for the drafting and presentation of rules" to The drafting of the rules. This standard is a revision of GB/T 18514-2001 "General Rules for Safety of Wood-based Panels." This standard and GB/T 18514-2001 In addition to the editorial changes, the main technical changes are as follows:

---Modified the scope of the standard;

--- Added chapter "

1 Scope

China's national general safety code for wood-based panel machinery. It specifies the terms and definitions for the mechanical safety of wood-based panel machinery, the categories and content of the hazards, the safety requirements and measures, the verification of those requirements and measures, and the information for use, and it applies to the design, manufacture, installation and maintenance of wood-based panel machines and of complete production lines. The hazards in a panel plant are unusual in their variety, which is why the sector needs a general code of its own rather than relying on the machine safety standards alone. There is the mechanical hazard of very large moving masses: a hot press closing with thousands of tonnes of force, a former running continuously, conveyors and transfer equipment that a person can be drawn into. There is the thermal hazard of platens and thermal oil systems at temperatures far above ignition point of the material being pressed. There is the chemical hazard of the resins - formaldehyde and isocyanate systems, the latter dangerous at concentrations below what can be smelled. There is the fire and explosion hazard, which is the one that defines the industry: wood dust in the dryers, the sanding lines and the extraction systems is an explosible dust, dryer fires are routine events rather than exceptional ones, and a sander dust explosion propagating through ductwork will destroy a plant. And there is the noise. The code sets out the hazard categories systematically, then the safety requirements and the protective measures to be designed in,

then how conformity with them is verified, and finally what must be told to the user - because a machine that is safe as designed is only safe if the plant is operated and maintained as the designer assumed. Issued on 6 February 2018 and in force since 1 September 2018, it replaces GB/T 18514-2001.

This standard specifies the terms and definitions of mechanical safety of wood-based panels, the categories and contents of hazards, safety requirements and/or measures, safety requirements, and/or Judgment and use information of measure or measure. This standard is applicable to the design, manufacture, installation and maintenance of complete sets of equipment for man-made board machinery and artificial board production lines.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 150.1 Pressure Vessels Part 1. General Requirements

GB/T 150.2 Pressure Vessels Part 2. Materials

GB/T 150.3 Pressure Vessels Part 3. Design

GB/T 150.4 Pressure Vessels Part 4. Manufacturing, Inspection and Acceptance GB 2893 safe color

GB 2894 Safety Signs and Guidelines for Use General rules and safety requirements for

GB/T 3766 hydraulic drive systems and their components

GB 4053.1 Safety requirements for fixed steel ladders and platforms - Part 1. Steel ladders

GB 4053.2 Safety requirements for fixed steel ladders and platforms - Part 2. Steel inclined ladders

GB 4053.3 Safety requirements for fixed steel ladders and platforms - Part 3. Industrial protective railings and steel platforms General rules for

GB/T 4272 equipment and pipe insulation technology

GB 5226.1-2008 Electrical equipment for mechanical electrical safety machinery Part 1. General technical conditions

GB/T 7932 General Specifications for Pneumatic Systems General technical conditions of

GB/T 7935 hydraulic components General requirements for the design and manufacture of

3 Terms and Definitions

The following terms and definitions as defined by LY/T 1382 apply to this document.

6 Determination of Safety Requirements and/or Measures" and "

7 Use Information";

--- Deleted the content of 3.1.3.5, 3.1.7.4, 3.1.8, 3.3.1.9, 3.7.2.2;

--- Increased 5.8,

5.9 requirements for mechanical panel installation and maintenance;

--- Added the contents of 5.1.3.4, 5.1.4.1, 5.1.4.2, 5.1.4.4, 5.1.5.1, 5.1.5.7, 5.1.7.2;

--- Increased the content of 5.3.1.9, 5.3.2.4~5.3.2.8;

--- Added 5.4.2, 5.4.5~

--- Added 5.5.2, 5.6.2.1, 5.6.2.6,

5.7.1 content. Please note that some of the contents of this document may involve patents. The issuing agency of this document does not assume responsibility for identifying these patents. This standard is proposed by the State Forestry Administration. This standard is under the jurisdiction of the National Panel Machinery Standardization Technical Committee (SAC/TC66). This standard was drafted by: Northeast Forestry University. The main drafters of this standard are: Zhang Shaoqun, Chen Guangwei, Han Yu, Yu Xiaoyun, and Jana. The previous versions of the standard replaced by this standard are.

--- GB/T 18514-2001. Wood-based panel mechanical safety general rules